y P	ike	Route SR	356	Des. No.	1700150
CA	ATEGORICAL E	XCLUSION / EN	nvironmental Document VIRONMENTAL DJECT INFORMATION		MENT FORM
Road	No./County:	SR 356/Pike C	ounty		
Desig	nation Number:	1700150			
After c	cct Description/Term completing this form, I con/approve if Level 4 CE):	existing INDOT B 63-10326) on SR bridge center on sheets for details	oridge replacement (National Control of Stridge Number 356-63-064) 356 and work extends 25 SR 356, over Mud Creed (Appendix B-4 to B-13). The first for the following type of the stridge of the following type of the stridge of the following type of the following ty	131 B; new brid 50 feet north an k, 4,69 miles e	ge number will be 38 ld 250 feet south of beast SR 57. See p
X	Categorical Exclusi		sed action meets the crite ired Signatories: ESM (E		
			sed action meets the crite ired Signatories: ESM, E		
			sed action meets the crite ired Signatories: ESM, ES		rical Exclusion Man
	For documents prepared by or to release for public involven	for Environmental Services Div	vironment. Required Signal vision, it is not necessary for the		
Аррго	ESM Signature	Date	ES Signature		Date
		FHWA Signature	Date		
Releas	se for Public Involvem	3/10/2020			
ESM l	Initials	Date	ES Initials	Date	
	ication of Public Invol	Office of Publi	c Involvement I nent and all other environme	Date  ntal requirements	s have been satisfied.
INDOT	ES/District Env.	•			
10011011	a:		Date:		
	er Signature:	reparer: Kirk Roth, Corradin			

County	Pike	Route	SR 356	_ Des. No	D. 1700150
		<u>Part I - PU</u>	BLIC INVOLV	<u>/EMENT</u>	
	ral action requires some lopment process. <b>The lev</b>				s opportunities throughout the proposed action.
If N	es the project have a histo lo, then: Opportunity for a Public Ho		under the Historic Bri	dges PA*?	No X
	aring is required for all his PO, and the ACHP.	storic bridges process	sed under the Historic	: Bridges Programmat	ic Agreement between INDOT
	at public involvement act pecial purpose meetings, i				residents (i.e. notice of entry)
Remarks:	2019 notifying them about the seen in the area. As The project will meet th (INDOT) Public Involve submit comment and/or	out the project and the cample copy of the not be minimum requirement Manual which request a public hear of this document for	at individuals respons tice of survey letter is ents described in the requires the project ring. Therefore, a leg	ible for land surveying included in Appendix current <i>Indiana Depa</i> sponsor to offer the pal notice will appear in	ect area on February 18, g and field activities may G, pages G-2 and G-3.  rtment of Transportation public an opportunity to a a local publication contrevised after the public
	ntroversy on Environme ject involve substantial co		community and/or na	atural resource impact	Yes No
Remarks:	At this time, there is resources.	no substantial public	controversy concerr	ning impacts to the co	ommunity or to natural
<u>Part</u>	: II - General Pro	ject Identific	<u>ation, Descri</u>	ption, and De	sign Information
•		INDOT SR 356		INDOT D	istrict: Vincennes
Funding So	ource (mark all that apply)	: Federal X	State X Local	Other*	
	selected, please indentify				
This is	page 2 of 22 Project na	me: SR 356 Brid	ge Replacement		Date: March 5, 2020

County	Pike		Route	SR 356		Des. N	No	1700150	
PURPOS	E AND NEED:								
		oroblem that the pro CE Manual, Section				problem s	hould N	NOT be disc	cussed
The need condition v September spans; sor stains were bent caps localized a The purpos will meet a	for this project is with an overall far 19, 2019. Sevene of these spale visible along joint exhibited some areas of moderate se of this project a structure condition.	s due to the detering a section of the prestreation of the prestre	orated cond cture conditi ssed box be exposed pre- peams, predo exposed re- e replaceme existing stru- ood (8 or ab	ition of the exist on rating accordance exhibited restressing strandominantly within sinforcing and the of the bridge cturally insufficione) and meet	ting bridge (35 ding to the INI ninor to mode ds. In addition the northern I be visible areas will achieve the ent bridge and	OOT bridge rate spalling, minor effloal of the lime reed for the replace it	inspections in the control of the co	ction report ghout in all nce and mand The intermand bents ex- ject.	dated I three oisture nediate hibited
PROJEC	T DESCRIPTION	ON (PREFERREI	) ALTERN	ATIVE):					
County: _	Pike		Municipa	ality: <u>Alford</u>					
Limits of P	roposed Work:	At SR 356, over Neast of the bridge						west and 3	00 feet
Total Work	Length:	0.115 Mile(s)	1	Total Wo	rk Area:	2.0	Acre(s)	)	
If yes, whe	en did the FHWA	tion Study / Intercha grant a conditional a copy of the appro	approval for	this project?	, ,		Yes Dat	e:	No X For final
the remar referred alt nprove safe	ternative. Include ety or roadway d	escribe existing cor e a discussion of lo leficiencies if these	gical termini						ect will
Project Lo		" <del>-</del>	D:1 0 4			\ 050 \ 4.00	.,		F-7 1
		efferson Township, 356-63-06431 B. P						east of SR	57, at
Existing C	Condition .								
The INDC Projects F Determina 1 to F-37) dated Sep comprised	OT Historic Bridg Programmatic A ation Report appo ). The structure ptember 9, 2019	three span adjace ge Inventory does greement (MPPA) roved on Novembe is in an agricultura d, are in Appendix ravel lanes and a 1	not find it el Assessmen r 4, 2019, M I area. Phot B-24 to B-	igible for listing t (Appendix D- ud Creek flows ographs of the 26. The existin	in the Nationa 11). As docum south to north bridge from the ng typical sect	al Register nented in t through the EINDOT Bi ion for SR	accord the Wa struct ridge Ir 356 a	ding to the aters of the cure (Apper nspection Rate this local	Minor U.S. Idix F- Report, tion is
This is	nage 3 of 22	Project name:	CD 254 Daid	va Danlacamant			Date	. Manah	5 2020

			Indiana Depa	artment of T	ransportation		
County	Pike		Route	SR 356	Des	s. No.	1700150
Preferred	Alternative I	<u>Description</u>					
alternative bridge. Th vertical ali full-depth The depth construction new guard Standard	e was deterned single spagnment of Spavement was of excavation will included all. Scot Drawings.	mined to be a can structure reposed 356 will need to be retion to realign to the installation of the protection (Clark).	omplete bridge rep lacement will perpe to be raised appro- moved and replaced nese ditches is limi guardrail and the ro ass 1 riprap on ge	lacement with a tuate the existing ximately 2 feet. I d. Realignment of ted to 2 feet de elocation of a fie otextiles) will be izontal alignmen	seed with the following 90 foot long, 33 foot, go low structure elevation complete this work, for the northwest and scape and approximately dentrance to a location placed underneath the for SR 356. Dewate	4 inch on. To a approximutheast 10 feet on outsione bridge	wide, single span accommodate, the mately 500 feet of ditches will occur. wide. Incidental the the limits of the e, per the INDOT
performan insufficien as an inde include rai the bridge SR 356, o	ice criteria t existing brependent prising the ele by raising to	for bridges (alloidge. The projectoroject. The logination of the corthe roadway surfice.	owable backwater, at demonstrates independent cal termini of the banecting roadway (Stace. This project esseast SR 57. Sta	outlet velocity, ependent utility b ridge replaceme &R 356) on both e xtends 250 feet	bridge which meets and roadway services ecause it will improve nt extend past the exends of the bridge, to chorth and 250 feet souns provide more deta	ability) a the fund disting browning forrect the orrect the	and removing the ction of the bridge ridge structure, to be low elevation of bridge center on
minimizing	g the full depridge replace	oth shoulder pav	ement replacement	to the minimum	g design developmer width to meet design on apacts and by maintair	criteria, I	imiting excavation
Maintenar	nce of Traffic	<u>2</u>					
official INI for travelli	DOT detouring motorist	route will includ	e SR 257, SR 56, a p is included in Ap	and SR 61 which	route will be used for is 14.9 miles and add -9. See Maintenance	ls appro	ximately 5.0 miles
OTHER A	ALTERNA	TIVES CONSI	DERED:				
was not sell Three-spa identified μ the single-	<i>ected.</i> n Replacem ourpose and span prefer	nent: Bridge reposition of the property alternative.	placement with a thi pject, but at an incre	ree-span bridge veased stream imp	was considered. This pact (due to a pier in the dismissed, as it would be a considered of the constant of the	alternat	ive would meet the mbed) compared to
Bridge Reconsidered	<u>ehabilitation</u> d. This alter	: Bridge rehab native was deer	ilitation with a su <sub>l</sub> ned not feasible due	perstructure repetors to severity of de	acement and substreterioration of existing	ucture i structure	improvements was
it does no	t address th		d and purpose of the		ve would not impact We it does not provide a		
It would no	ot correct ex	rnative is not fe isting capacity of isting safety haz	eficiencies;	practicable bed	ause (Mark all that ap	ply):	

Date: March 5, 2020

SR 356 Bridge Replacement

This is page 4 of 22 Project name:

County Pike	2	Route	SR 356	Des. No1700150
It would not corr	ect existing on serious impa	ng roadway geometric defice deteriorated conditions and acts to the motoring public	maintenance problems; o	
ROADWAY C	HARACTER	₹:		
Functional Class Current ADT: Design Hour Vol Designed Speed	lume (DHV):	55 mph Legal Spee	zentage (%) 7.66% DH ed (mph): 55 mph	
		Existing	Proposed	
Number of Lane Type of Lanes: Pavement Width Shoulder Width: Median Width: Sidewalk Width:	n:	2   Vehicular – 1EB, 1WB   22   ft.   1   ft.   N/A   ft.   N/A   ft.	2 Vehicular – 1EB, 1  22 ft. 3 ft. N/A ft. N/A ft.	WB
Setting: Topography: If the proposed ad	ction has mul		burban X Rural lling Hilly n should be filled out for ea	ach roadway.
DESIGN CRITE	RIA FOR B	RIDGES:		
Structure/NBI No	umber(s):	356-63-06431 B; New bridg 356-63-10326	ge will be Sufficiency Ra	ating: 73.6  (Rating, Source of Information)
		Existing	Proposed	(Rating, Source of information)
Bridge Type:		Three span prestressed cond	crete Single span prestres	sed concrete
Number of Span		3	1	
Weight Restriction		N/A ton	N/A ton	
Height Restriction		N/A ft.	N/A ft.	
Curb to Curb Wi		28 ft.	30.33 ft.	
Outside to Outsi		85 ft.	91.5 ft.	
Shoulder Width: Length of Chann		3 ft.	4 ft. 150 ft.	
Length of Chan	iei work.		130	
Describe b Remarks:	The existin beam bridge bridge as	ge built in 1963 and recons non-historic (see <a href="https://w">https://w</a>	consists of 85 foot long betructed in 1980. The late	all structures. by 28 foot wide, prestressed concrete box est Historic Bridge Inventory identified the highest bridge will be completely removed and
This is page	5 of 22 Pro	oject name: SR 356 Bi	ridge Replacement	Date: March 5, 2020

County	Pike	Route		SR 356	Des. N	0.	1700150
	1	replaced with a new 91.5 foot long by	3.3	3.33 foot wide single spar	prestressed con	cret	e beam bridge.
		Work within the channel will limited existing roadside ditches will have n Creek, and the ditches themselves ha	0	impacts below the ordin			
		No additional structures are located w	ith	in the project area			
					Yes		No N/A
		be rehabilitated or replaced as part of t ion has multiple bridges or small struct			X filled out for each	h sti	ructure.
MAINTEN	IANC	OF TRAFFIC (MOT) DURING CO	10	NSTRUCTION:			
							Yes No
		dge proposed?					X
		adway proposed? volve the use of a detour or require a ra	am	no closure? (describe in r	emarks)		X
		be made for access by local traffic and			omanto)		X
		be made for through-traffic dependent					X
		be made to accommodate any local sp					X
		MOT substantially change the environ al controversy associated with the prop			e action?		X
	Jotani	ar controversy accordical with the prop	,,,,	sou mounou for Mo 1.			1
	The eme projeve (http	raveling motorists. This detour route vernented per current INDOT Standard closure will pose as a temporary in rgency services); however, no significant completion. Delays would occur dots or festivals are listed within ten re://www.pikecountyin.org/festivalsevent	Sp an luri mil	pecifications.  convenience to traveling at delays are anticipated ing construction, but will les of the project area of the project area.	motorists (includ and all inconveni cease with projec on the event wel en into account d	ing ienc ct co	school buses and es will cease upon ompletion. Several es for Pike County
ESTIMAT	ED P	ROJECT COST AND SCHEDULE:	-				
Constructi	ion: ¢	5,614,387 (2022) Right-of-Wa		\$ 159,000.00 (2020)			
		Date of Construction: Summer, 20	-		<u></u>		
•			122	<u> </u>			
Jate projec	ct inco	porated into STIP July 1, 2019					
Is the proje	ect in a	n MPO Area? X					
If yes,							
Name of	MPO	N/A					
						_	
This is p	page (	of 22 Project name: SR 356 Br	idį	ge Replacement		Da	ate: March 5, 2020

County _	Pike Route SR 356	Des	s. No. <u>1700150</u>
Location of	f Project in TIP N/A		
Date of inc	orporation by reference into the STIP N/A		
	· · · · ·		
RIGHT OF	WAY:		
		Amount	(acres)
	Land Use Impacts	Permanent	Temporary
Residential		0	0
Commercial		0	0
Agricultural		0.95	0.10
Forest		0	0.0
Wetlands		0.02	0
Other (Gras	sy Roadside)	0.93	0
	TOTAL	1.9	0.10
	The existing right-of-way is approximately 75 feet wi 300 feet east of the bridge center. The project required right-of-way. The proposed new permanental roadway within the existing right-of-way reacquired right-of-way. The proposed new permaner previously impacted by agricultural activity. The remand roadway within the existing right-of-way in praccommodate the new vertical grade raise of SR 3 relocated field entrance.  All right-of-way will be acquired in accordance with acquisition will be conducted in accordance with 49 C of the scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment of the scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment analysis should be described with a scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment analysis should be described with a scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment analysis should be described with a scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment analysis should be described with a scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment and the scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment and the scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment and the scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment and the scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment and the scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment and the scope of work or permanent or temporary riservices Division (ESD) and the INDOT District Environment and the scope of t	de at the project area, which uires approximately 1.9 acres areas on the north and sout ay in the agricultural area manent and temporary right-ofnainder of construction is restricted. Temporary right-of-way is the applicable federal and sept. 24 as amended.	extends 300 feet west and of permanent right-of-way, the sides of the bridge. The orth of the bridge and not-way is comprised of area ricted to the existing bridge Right-of-way is needed to serequired to construct the state procedures. The land
Ac	rt III – Identification and Evaluation tion A – ECOLOGICAL RESOURCES	on of Impacts of th	<u>ne Proposed</u>

This is page 7 of 22 Project name: SR 356 Bridge Replacement Date: March 5, 2020

**Impacts** 

No

Nationwide Rivers Inventory (NRI) listed Outstanding Rivers List for Indiana Navigable Waterways  Remarks:  Based on a desktop review, a site visit on July 26, 2019, the aerial map of the project area (Appendix E-2) and the water resources map (Appendix E-9) in the Red Flag Investigation (RFI) report (Appendix E-1 to E-13), the water resources map (Appendix E-9) in the Red Flag Investigation (RFI) report (Appendix E-1 to E-13), the water resources map (Appendix E-9) in the Red Flag Investigation (RFI) report (Appendix E-1 to E-13), the water are 11 streams located within the 0.5 mile search radius of the project area. A Waters of the U.S. Determination report. It was determined that a bream, Nucl Creek, within the project area, is an apparent jurisdictional Water of the U.S. The U.S. Aimy Corps of Engineers (USACE) makes all find determinations regarding jurisdictions.  Mud Creek is a premial channel that drains to the north through the project structure and has an OHVMM of 90 feet in width and 10 foot in depth. The existing bridge is an 86 foot long by 26 foot wide prestressed concrete box beam bridge. The proposed structure is a 91.5 foot long by 33.33 foot wide single span prestressed concrete box beam bridge. The proposed structure is a 91.5 foot long by 33.33 foot wide single span prestressed concrete box beam bridge. The purposed structure is a 91.5 foot long by 33.33 foot wide in the proposed structure is a 91.5 foot long by 33.33 foot wide in the proposed structure is a 91.5 foot long by 33.33 foot wide in the proposed structure is a 91.5 foot long by 33.33 foot wide is maps prestressed concrete box bridge. The purposed structure is a 91.5 foot long by 33.33 foot wide is maps prestressed concrete box bridge. The upstramd radinage area is 0.164 square mile at the bridge location. Up to 150 linear feet and 0.03 acre of Mud Creek was be directly impacted by this project. Mud Creek is a mapped United States Geological Survey blue lines stream. Two (2) croadised dichose were located but none were likely Wate		111	uiaiia Depa	intinent of 11	απορυπατίο	"				
Outstanding Rivers List for Indiana Navigable Waterways  Remarks:  Based on a desktop review, a sile visit on July 26, 2019, the aerial map of the project area (Appendix E-2) and the water resources map (Appendix E-3) in the Red Flag Investigation (RFI) report (Appendix E-1 to E-13), there are 11 streams located within the 0.5 mile search radius of the project area. A Waters of the U.S. Determination was completed for the project on October 23, 2019. Please refer to Appendix F-1 to F-37 for the Waters of the U.S. Determination report. It was determined that a stream, Mud Creek, within the project area, is an apparent jurisdictional Water of the U.S. The U.S. Army Corps of Engineers (USACE) makes all final determinations regarding jurisdiction.  Mud Creek is a perennial channel that drains to the north through the project structure and has an OHWM of 9.0 feet in width and 1.0 foot in depth. The existing bridge is an 85 foot long by 28 foot wide prestressed concrete box beam bridge. The proposed structure is a 91.5 foot long by 3.33 foot wide prestressed concrete box beam bridge. The upstream drainage area is 0.164 square mile at the bridge location. Up to 150 linear feet and 0.03 acre of Mud Creek may be directly impacted by this project. Mud creek is a mapped United States Geological Survey blue line stream. Two (2) roadside ditches were located but none were likely Waters of the U.S. Impacts to the stream will be reduced to the extent practicable. Environmental impacts have been reduced to the extent possible during design development through various measures which minimized the extent of impact to the stream willo breaduced to the extent practicable. Environmental Management (IDEM) will be required.  Early coordination letters were sent to the U.S. Fish and Wildlife (Service (USFWS). Indiana Department of Natural Resources Division of Fish and Wildlife (IDNR-DFW) and USACE on May 21, 2019 (Appendix C-2 to C-4). USACE did not respond to the extent of impacts and process of the U.S. Creaming of the project area	County _	Pike	Route	SR 356		Des. No.	1700150			
the water resources map (Appendix E-9) in the Red Flag Investigation (RFI) report (Appendix E-1 to E-13), there are 11 streams located within the 0.5 mile search radius of the project area. A Waters of the U.S. Determination was completed for the project on October 23, 2019. Please refer to Appendix F-1 to F-37 for the Waters of the U.S. Determination report. It was determined that a stream, Mud Creek, in this project area, is an apparent jurisdictional Water of the U.S. The U.S. Army Corps of Engineers (USACE) makes all final determinations regarding jurisdiction.  Mud Creek is a perennial channel that drains to the north through the project structure and has an OHWM of 9.0 feet in width and 1.0 foot in depth. The existing bridge is an 85 foot long by 28 foot wide prestressed concrete box beam bridge. The proposed structure is a 91.5 foot long by 33.33 foot wide single span prestressed concrete beam bridge. The proposed structure is a 91.5 foot long by 33.33 foot wide single span prestressed concrete beam bridge. The upstream drainage area is 0.164 square mile at the bridge location. Up to 150 linear feet and 0.03 acre of Mud Creek may be directly impacted by this project. Mud Creek is a mapped United States Geological Survey blue line stream. The Vic (2) roadside ditches were located but none were likely Waters of the U.S. Impacts to the stream will be reduced to the extent practicable to extend the extent of impact to the stream will be reduced to the extent practicable will be reduced to the extent practicable the extent of impact to the stream. No mitigation is expected. For stream impacts to Mud Creek a Section 404 Regional General Permit from the U.S. Army Corps of Engineers and a Section 401 Water Quality Certification from the Indiana Department of Natural Resources Division of Fish and Wildliffe (IDNR-DFW) and USACE on May 21, 2019 (Appendix C-2 to C-4). USACE did not respond to the early coordination letter. USFWS), Indiana Department of Natural Resources Division of Fish and Wildliffe (DINR-DFW) and	Outstanding	Rivers List for Indiana					X			
9.0 feet in width and 1.0 foot in depth. The existing bridge is an 85 foot long by 32 foot wide prestressed concrete box beam bridge. The proposed structure is a 91.5 foot long by 33.3 foot wide single span prestressed concrete beam bridge. The upstream drainage area is 0.164 square mile at the bridge location. Up to 150 linear feet and 0.03 acre of Mud Creek may be directly impacted by this project. Mud Creek is a mapped United States Geological Survey blue line stream. Two (2) roadside ditches were located but none were likely Waters of the U.S. Impacts to the stream will be reduced to the extent practicable. Environmental impacts have been reduced to the extent possible during design development through various measures which minimized the extent of impact to the stream. No mitigation is expected. For stream impacts to Mud Creek a Section 404 Regional General Permit from the U.S. Amy Corps of Engineers and a Section 401 Water Quality Certification from the Indiana Department of Environmental Management (IDEM) will be required.  Early coordination letters were sent to the U.S. Fish and Wildlife Service (USFWS), Indiana Department of Natural Resources Division of Fish and Wildlife (IDNR-DFW) and USACE on May 21, 2019 (Appendix C-2 to C-4). USACE did not respond to the early coordination letter. USFWS responded on May 21, 2019 (Appendix C-5 to C-6) and IDNR-DFW responded on June 19, 2019 (Appendix C-7 to C-10) with recommendations to avoid or minimize impacts to Mud Creek. Both agencies recommended utilization of natural substrate if possible, evaluation of wildlife crossing, minimization of the extent of riprap, minimization of channel work and avoidance of all work within the inundated part of the stream channel during the fish spawning season (April 1 through June 30).  USFWS recommended restrictions to low-water work. IDNR-DFW recommended revegetation of disturbed areas, minimization of excavation in low flow areas, avoidance of temporary runarounds or causeways, minimum of 6 inch riprag grade for aquatic o	Remarks:	the water resources map (A there are 11 streams locate Determination was complete the Waters of the U.S. Determined, is an apparent jurisdiction.	ppendix E-9) in the divided within the 0. If the project of the project of the divided in the project of the divided in the project of the pr	n the Red Flag In 5 mile search rac ct on October 23, t. It was determir	vestigation (RFI) dius of the proje 2019. Please re ned that a strean	report (Appelect area. A Wefer to Appenden, Mud Creek,	ndix E-1 to E-13), /aters of the U.S. dix F-1 to F-37 for within the project			
Natural Resources Division of Fish and Wildlife (IDNR-DFW) and USACE on May 21, 2019 (Appendix C-2 to C-4). USACE did not respond to the early coordination letter. USFWS responded on May 21, 2019 (Appendix C-5 to C-6) and IDNR-DFW responded on June 19, 2019 (Appendix C-7 to C-10) with recommendations to avoid or minimize impacts to Mud Creek. Both agencies recommended utilization of natural substrate if possible, evaluation of wildlife crossing, minimization of the extent of riprap, minimization of channel work and avoidance of all work within the inundated part of the stream channel during the fish spawning season (April 1 through June 30).  USFWS recommended restrictions to low-water work. IDNR-DFW recommended revegetation of disturbed areas, minimization of excavation in low flow areas, avoidance of temporary runarounds or causeways, minimum of 6 inch riprap grade for aquatic organism habitat, sediment control at streams, and recommendations for erosion control in steep slope areas. All applicable USFWS and IDNR-DFW recommendations are included in the Environmental Commitments section of this Categorical Exclusion (CE) document.  Other Surface Waters  Presence  Yes No  Reservoirs  Lakes  Other:  Based on a desktop review, a site visit on July 26, 2019, the aerial map of the project area (Appendix B-2) and the water resources map in the RFI report (Appendix E-9), there are six lakes located within the 0.5 mile search radius. The nearest lake is 0.30 mile southwest of the project area. A Waters of the U.S. Determination report (Appendix F) completed by Corradino, LLC on October 23, 2019 found no other surface waters within or adjacent to the project area. Therefore, no impacts are expected.		9.0 feet in width and 1.0 for concrete box beam bridge, prestressed concrete beam Up to 150 linear feet and 0.1 mapped United States Geolowere likely Waters of the U.1 impacts have been reduced which minimized the extent Creek a Section 404 Region Water Quality Certification	ot in depth. The The proposed bridge. The up 03 acre of Mud ogical Survey b S. Impacts to the to the extent of impact to the nal General Pe	e existing bridge I structure is a S stream drainage Creek may be d lue line stream. The stream will be to possible during The stream. No mition of the U.S The stream the U.S	is an 85 foot long because is 0.164 squareatly impacted Two (2) roadside educed to the expected design developing ation is expected. Army Corps of	ng by 28 foot by 33.33 foot uare mile at the by this project editches were attent practicalment through sed. For stream of Engineers a	wide prestressed wide single span ne bridge location.  Mud Creek is a located but none ple. Environmental various measures m impacts to Mud nd a Section 401			
areas, minimization of excavation in low flow areas, avoidance of temporary runarounds or causeways, minimum of 6 inch riprap grade for aquatic organism habitat, sediment control at streams, and recommendations for erosion control in steep slope areas. All applicable USFWS and IDNR-DFW recommendations are included in the Environmental Commitments section of this Categorical Exclusion (CE) document.    Presence   Impacts   Yes   No		Natural Resources Division (C-4). USACE did not res (Appendix C-5 to C-6) an recommendations to avoid natural substrate if possible, channel work and avoidance	of Fish and Wild pond to the ead d IDNR-DFW or minimize im evaluation of wild e of all work w	dlife (IDNR-DFW) arly coordination responded on pacts to Mud Cro ildlife crossing, mi	and USACE on letter. USFWS lune 19, 2019 eek. Both agend nimization of the	May 21, 2019 responded of (Appendix Coices recommended extent of ripra	(Appendix C-2 to on May 21, 2019 -7 to C-10) with ended utilization of ap, minimization of			
Other Surface Waters  Reservoirs  Lakes Farm Ponds Detention Basins Storm Water Management Facilities Other:  Based on a desktop review, a site visit on July 26, 2019, the aerial map of the project area (Appendix B-2) and the water resources map in the RFI report (Appendix E-9), there are six lakes located within the 0.5 mile search radius. The nearest lake is 0.30 mile southwest of the project area. A Waters of the U.S. Determination report (Appendix F) completed by Corradino, LLC on October 23, 2019 found no other surface waters within or adjacent to the project area. Therefore, no impacts are expected.		areas, minimization of excavation in low flow areas, avoidance of temporary runarounds or causeways, minimum of 6 inch riprap grade for aquatic organism habitat, sediment control at streams, and recommendations for erosion control in steep slope areas. All applicable USFWS and IDNR-DFW recommendations are included in the Environmental Commitments section of this Categorical Exclusion (CE)								
the water resources map in the RFI report (Appendix E-9), there are six lakes located within the 0.5 mile search radius. The nearest lake is 0.30 mile southwest of the project area. A <i>Waters of the U.S. Determination</i> report (Appendix F) completed by Corradino, LLC on October 23, 2019 found no other surface waters within or adjacent to the project area. Therefore, no impacts are expected.	Reservoirs Lakes Farm Ponds Detention B Storm Wate	asins		<u>Pr</u>		Yes No				
Early coordination letters were sent to USFWS, IDNR-DFW, and USACE on May 21, 2019. USACE did not	Remarks:	the water resources map in search radius. The neare Determination report (Appen	the RFI report st lake is 0.30 dix F) complete	t (Appendix E-9), ) mile southwest ed by Corradino, L	there are six la of the project LC on October 2	ikes located warea. A <i>Wa</i> 23, 2019 found	vithin the 0.5 mile aters of the U.S.			
		Early coordination letters we	re sent to USF	WS, IDNR-DFW,	and USACE on	May 21, 2019	. USACE did not			

SR 356 Bridge Replacement

Date: March 5, 2020

This is page 8 of 22 Project name:

County	Pike		Route	SR 356	Des. No.	1700150
					May 21, 2019 and IDNR- ing other surface waters.	DFW responded on
Wetlands				<u>Prese</u>	Yes	ts No
Total wetla	and area: 0.02	3 acre(s	) Total	wetland area impact	ed: <u>0.023</u> acre	(s)
(If a determ	ination has not been	made for n	on-isolated/iso	lated wetlands, fill in	the total wetland area imp	pacted above.)
Wetland N	o. Classification	Total Size (Acres)	Impacted Acres	Comments		
Wetland 1	PEM	0.009	0.009	Jurisdictional; Po	or quality. See Appendix F-	-8
Wetland 2	PEM	0.014	0.014	Jurisdictional; Po	or quality. See Appendix F-	-8
Wetlands (	Mark all that apply) termination		<u>D</u>	ocumentation X	ES App October 23, 2	roval Dates
Wetland De	lineation lated Waters Determ	ination		X	October 23, 2	
Mitigation P		iiriatiori				
would resu Substa Substa Unique Substa	<b>It in</b> (Mark all that a	pply and exp s to adjacer ject costs; maintenand economic, d	olain): it homes, busir ce, or safety pro or environment	ness or other improve	ole because such avoidand properties;	ance X
					ed in the remarks box.	
Remarks:	/20/data/Mapper.h report (Appendix E mile search radiu conducted by Cor Waters of the U.S Waterway Permitt wetlands, Wetland determinations reg Approximately 0.0 emergent wetland quality located sou invasive exotic sp extent possible du wetland area as p fulfilling its purpos	tml), the USE-9), there is s of the progradino, LLC . Determinating Office of 1 and Wetl garding juris 109 acre of of poor qualithwest of the cies, and suring design possible. Cose and needs	SGS topographs one National oject area, income on July 26, tion report, proportion November and 2, are application.  Wetland 1 and ality located not be structures. adjacent agriculated or furthed. If wetland	nic map (Appendix B-Wetland Inventory (I cluding one NWI line 2019 and two wetland beduced by Corradino, 4, 2019 (Appendix Parent jurisdictional Western and the price of the bridge The quality of both well tural use. Environ through the reduction are avoidance of wetland wetland in the price of wetland were avoidance of wetland	Inline mapper (https://www.3), and the water resour NWI) Wetland and one New within the project area nds were identified durin LLC, was approved by IF-1 to F-37). It was divided a may be impacted. Wetland 2 is an emergetlands is considered poor mental impacts have been of the project area size and impacts would preved, a mitigation plan will engineers and a Section	ces map in the RFI WI line within a 0.5 a. A site visit was ag the site visit. A NDOT Ecology and etermined that two ACE makes all final b. Wetland 1 is an ent wetland of poor or due to small size, an minimized to the et to avoid as much ent the project from the completed for

Date: March 5, 2020

SR 356 Bridge Replacement

This is page 9 of 22 Project name:

_			_ = -			_			
County	Pike		Route	SR 356		Des. No.	17001	50	
	Certification	from IDEM will be requ	ired for in	mpacts to Wetla	nd 1 and Wetlar	nd 2.			
	to C-4). US (Appendix C	nation letters were sent SACE did not respond 3-7 to C-10) and IDNF ded recommendations	to the R-DFW re	early coordinations	on letter. USF	WS responded	l on Ma	y 21, 2019	
				Pros	ence	Impacts			
<b>Terrestrial</b> Unique or H	<b>Habitat</b> High Quality Ha	abitat			X	Yes No X X			
Use the rema	Based on a 2), there is areas near honeysuckle radicans), of foxtailgrass arundinacea expected to Environment measures in design criteri	ntify each type of habitated desktop review, a site of mowed grassy habitated the bridge and dome (Lonicera maackii), Apriental bittersweet (Conting faberi), tall of the conting and impacts have been clude minimizing the fat, minimizing slope impacts have continued the continued th	visit on J within the sinant spanson of span	luly 26, 2019, ar ne project area. pecies include y blackberry ( <i>R</i> orbiculatus), I Schedonorus a mpacts are exp d mulberry ( <i>Mo</i> ed to the exte shoulder pavel	Id the aerial mand the upland an orthern hackly ubus alleghenic parnyardgrass fundinaceus), a pected to this harus rubra) and nt possible du ment replacement	p of the project rea encompassiberry (Celtis densis), trumpet (Echinochloa and reed canabitat. Approxim four black wiring design dent to the mini	t area (/ses all inccident creepe crus-galary gras nately fivallows (Sevelopmenum wi	Appendix B- non-wetland falis), Amur er (Campsis fili), Faber's es (Phalaris foretrees are falix nigra). ent. These dth to meet	
	Early coordination letters were sent to USFWS and IDNR-DFW on May 21, 2019 (Appendix C-2 to C-4). USFWS responded on May 21, 2019 and IDNR-DFW responded on June 19, 2019.								
	IDNR-DFW had recommendations regarding revegetation using native species, erosion control, and the use of erosion control blankets which will not ensnare small animals (Appendix C-7 to C-10).								
	USFWS recommends avoidance of clearing trees or understory vegetation outside the construction zone boundaries. This restriction is not related to the "tree clearing" restriction for potential Indiana Bat habitat. USFWS also recommends implementation of temporary erosion and sediment control methods within areas of disturbed soil. All disturbed soil areas upon project completion will be vegetated following INDOT's standard specifications. (Appendix C-5 to C-6).								
	Online coordination with the Indiana Department of Environmental Management (IDEM) occurred on May 22, 2019. In the early coordination response, IDEM recommends that appropriate structures and techniques be utilized both during the construction phase, minimization of the impacts associated with storm water runoff after completion of the project. 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 (Appendix C-16 to C-23). Total disturbed area will be 2.0 acre, which is more than the 1 acre threshold for an IDEM Rule 5 Storm Water Runoff Permit.								
		le USFWS, IDNR-DF		IDEM recomr	nendations are	e included in	the En	vironmental	
		animal movements observ on of utilizing wildlife cross			ridges and other	areas appear to l	be the so	le corridor for	
		ot located within or adja ated within or adjacent				Yes		No X X	
	If yes, will th	e project impact any of	these ka	arst features?					
This is p	page 10 of 22	Project name: SR	356 Brid	ge Replacement		Da	nte: <u>N</u>	March 5, 2020	

Indiana Department of Transportation									
County	Pike	Route	SR 356		Des. No.	1700150			
	October 13, 1993)  Based on a desktop area (Appendix B-3) designated karst re (MOU). There are r Indiana Geological S	review, a site visit on Ju, and the RFI report (A gion of Indiana as out o karst features identificurvey (IGS) did not indio impacts are expected.	uly 26, 2019 by ppendix E-1 to tlined in the 0 ed within the p cate that karst	Corradino, LL E-13), the pro October 13, 19 roject area. In	C, the topograph oposed project is Memorandur the early coordinates	ic map of the proj located outside n of Understand nation response,	ject the ling the		
	the project area as has a bedrock resourd features into conside by Corradino, LLC, to E-13), the project and to be far enough limited to 15 feet d	tters were sent to IGS of aving moderate liqueface (Appendix C-11 to Coration in final design. The topographic map of appears not to have experent of the bridge locate included in the Enviro	ction potential, 13). The designation that However, base the project are acavation deep curces to not ha tion. Therefore	1% annual chargner should taked on a deskto a (Appendix Benough to impve an impact.	ance flood hazard se potential impact p review, site vistal, and the RFI report bedrock or line The maximum dessides are expected.	d, and high poten cts to these geolo its on July 26, 20 eport (Appendix E quefaction potent epth of excavation All applicable lo	ntial ogic 019 E-1 tial, n is		
Within th Any critic Federal State sp	ecies found in project	federal species	Iltation with IDI	ion)	No X	Impacts Yes No. X  X  X  X  X  X  X  X  X	X		
Remarks:	28, 2018, the IDNF checked and is inclustate identified ETF response letter date been checked and area. According to the range of the federal eared bat (NLEB) (Mathematical Planning and Consulting and Consulting Section of this documents). The project qualifies long-eared bat (NLEB) (Mathematical Planning and Consulting and Consulting Section of this documents). The project qualifies long-eared bat (NLEB) (Application of the NLEB (Application of this documents). The project qualifies long-eared bat (NLEB) (Application of this documents). The project qualifies long-eared bat (NLEB) (Application of the NLEB (Application of this documents).	review and the RFI (Appendix E-DFW Pike County Erded in Appendix E-11 to species located withing June 19, 2019 (Appendix E-B), and USFWS early coording the USFWS early coording endix septentrionalis) (Appendix Septentrionalis) (Appendix Septentrionalis) (Appendix C-25 to C-30) and General endix C-25 to C-30) and General endix C-31 to C-44). If USFWS's review of 4-day review period; the sures (AMMs) are inclinent.	idangered, The hole E-12. The hole E-12. The hole county. Indix C-7 to C-hole Quality naturation responsible (Myotis suppendix C-5 to agrammatic Info (revised Felt information work Corradino, LL and no additional angered India tion key was of to "may affered INDOT reviet the finding (Aperefore, it was uded as firm	reatened and ighlighted spec According to 10), the Natural areas were eletter dated Nodalis) and the o C-6).  Formal Consultation of Consultation and the completed on a completed on a completed on a completed and verifippendix C-31) concluded the commitments	Rare (ETR) Species on the list reported the IDNR-DFW all Heritage Progress found within 0.5 May 21, 2019, the effect from the India between FHWA through the USF 27, 2020, and are found within the effect from the effect find the effect fin	ecies List has be flect the federal at a early coordinate ram's Database has been been been been been been been bee	een and tion has ject the eng- eern oad for list Pike eng- the bat 27, rom nce ents		

Indiana Department of Transportation									
County _	Pike	Route	SR 356	De	es. No.	1700150			
	rustica), were found dube implemented prior to const season if no eggs or youngsting season (May 1 construction. Details of Unique Special Provisidocument.	to the start of and duruction during the nor bung are present. Nes – September 7). Nes f the required proce- tion." This firm comr	ring the nesting season nesting season sts with eggs or your dures are outline mitment is includ	season. Nests without (September 8 – Aproung cannot be remoung should be scred in the "Potential ed in the Environn	out eggs of and anoved or of the end or leading to the end or leading to the end of the	or young should be during the nesting disturbed during the puffered from active and Bird on Structure ommitments of this			
	This precludes the nee Species Act, as amen project plans are chang	ded. If new informat	ion on endanger	ed species at the s					
SECTION	B – OTHER RESOUR	CES							
			Pr	esence	Impa	cts			
Wellhead Public W Resident Source V	ater Resources I Protection Area later System(s) ial Well(s) Vater Protection Area(s) irce Aquifer (SSA)				Yes	No			
ls th Is th Initia	is present, answer the form the Project in the St. Jose the FHWA/EPA SSA MOU al Groundwater Assessmailed Groundwater Assessmailed	ph Aquifer System? J Applicable? lent Required?		Yes No					
Remarks:	The proposed project Source Aquifer, the of FHWA/EPA Sole Source this project. No impact The IDEM Wellhead Paccessed on May 23, 2 or Source Water Area.  The Indiana Depa (https://www.dnr.in.gov well is over 0.25 mile near this project. Ther that these wells are affect Based on a desktop reon May 23, 2019 and the Area Boundary location Based on a desktop recon (Appendix B-2), no public source of the project on the project of the project on May 23, 2019 and the project of the project on May 23, 2019 and the project of the project on May 23, 2019 and the project of the project on May 23, 2019 and the project of the p	anly legally designate to Aquifer Memorand is are expected.  Toximity Determinator 2019 by Corradino, Li No impacts are expertment of Natura (dnr/water/3595.htm) from the project area effore, no impacts are exted, a cost to cure view of the INDOT Mine RFI report complements. No impacts are experience, a site visit July 2 view, a site visit July 2	ed sole source a um of Understand um of	ww.in.gov/idem/clea is not located within  Water Well Re May 23, 2019 by 0 ill not be affected b d it be determined of led in the appraisal t s://entapps.indot.in.g 28, 2018; this proje	anwater/pa a Wellha cord D Corradino ecause n during the to restore gov/MS4/) ect is not	na. Therefore, the is not applicable to ages/wellhead/)was ead Protection Area atabase Website, LLC. The nearest o wells are located right-of-way phase the wells.  by Corradino, LLC ocated in an Urban the project area			

County _	Pike	Route	SR 356		es. No.	1700150	
Transver Project lo	ns inal Encroachment rse Encroachment ocated within a regulated ocated in floodplain withir			Presence  X X	Impact Yes	No X X	
Discuss impa Remarks:	Based on a desktop re Portal website (http://d report; this project is key (Appendix E-9). An ear The floodplain administ 4 per the INDOT CE Mupstream and no home bridge will have an effeincrease. As a result, there will be no substainterruption or terminal determined that this estructure size alternate be included with the Fig.	eview of The Indiana nrmaps.dnr.in.gov/approated in a regulator rly coordination letter trator did not respondanual which states "les are located within active capacity such there will be no substantial change in floodition of emergency stantial be completed of swill be completed of	Department of Npsphp/fdms/) by Ingle	atural Resources Corradino, LLC or etermined from app 22, 2019, to the ly timeframe. The pated within the basin within 1,000 fee face elevations are eacts on natural and will be no substancy evacuation of the hydraulic design is	Indiana Flo n May 22, proved IDN ocal Floodpla se floodpla t downstrea e not expect d beneficia antial increa outes; ther study that	odway Information 2019, and the RFI IR floodplain maps plain Administrator. iffies as a Category in within 1,000 feet am. The proposed sted to substantially al floodplain values; ase in potential for efore, it has been addresses various	
Farmland Agricultural Lands Prime Farmland (per NRCS)  Total Points (from Section VII of CPA-106/AD-1006* *If 160 or greater, see CE Manual for guidance.  See CE Manual for guidance to determine which NRCS form is appropriate for your project.  Remarks:  Based on a desktop review, a site visit on July 26, 2019 by Corradino, LLC, and the aerial map of the project area (Appendix B-2), there is 0.1 acre of farmland within the project limits as defined by the Farmland Protection Policy Act. An early coordination letter was sent on May 22, 2019, to Natural Resources Conservation Services (NRCS). Note that at the time of coordination, final right-of-way numbers were not refined and 1.3 acre of impact was assumed. Coordination with NRCS resulted in a score of 128 on the NRCS-CPA-106 (Appendix C-15). NRCS's threshold score for significant impacts to farmland that result in the consideration of alternatives is 160. Since this project score is less than the threshold, no significant loss of prime, unique, statewide, or local important farmland will result from this project. No alternatives other than							
SECTION		vide, or local importa ssed in this docum	nt farmland will re	sult from this proje	ct. No alte	rnatives other than	
Minor Projects PA Clearance  Category Type INDOT Approval Dates  N/A  November 22, 2019							
This is p	page 13 of 22 Project n	ame: SR 356 Brid	ge Replacement		Da	te: March 5, 2020	

County _	Pike	Route	SR 356	Des. No.	1700150			
		Eligible and/o Resource P						
Results of Re	esearch							
Archaeology NRHP Buildir NRHP Distric NRHP Bridge	t(s)							
Project Effect No Historic P	roperties Affected	No Adverse E	Effect Adv	verse Effect				
		<u>Documentation</u>						
<b>D</b>		<u>Prepared</u>	E0/E1 D4/4	OUD.				
Documentati	on (mark all that apply)		ES/FHWA Approval Date(s)	SHPO Approval Date	h(s)			
Historic Prope Archaeologica Archaeologica Archaeologica Archaeologica Archaeologica	al Records Check/ Review al Phase Ia Survey Report al Phase Ic Survey Report al Phase II Investigation R al Phase III Data Recover y and Effect Determination	eport	November 22, 2019	N/A	(5)			
			MOA Signaturo Datos	(List all signatories)				
Memorandum	of Agreement (MOA)		MOA Signature Dates	(List all signatories)				
categories ou in local news	efforts to document cultu tlined in the remarks box. papers. Please indicate urther Section 106 work w	The completion of the publication date	f the Section 106 proce e, name of paper(s) ai	ess requires that a Lega and the comment period	l Notice be published   deadline. Likewise			
Remarks:	On November 22, 2019 the guidelines of Catego D-12). This covers replay and bridge replacement the following conditions:	ory B, Type 12 unde acement, widening,	er the Minor Projects Proor raising the elevation	rogrammatic Agreemen n of the superstructure	t (Appendix D-10 to on existing bridges,			
	Condition A ii: Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area;							
	Condition B i: work does district or individual above			Register-listed or Nation	nal Register-eligible			
	Condition B ii a: The latest Historic Bridge Inventory identified the bridge as non-historic (see <a href="https://www.in.gov/indot/2531.htm">https://www.in.gov/indot/2531.htm</a> ).							
	If any archaeological earthmoving activities, o Resources Office and the further consultation is re under Section 106 have	onstruction in the in ne Division of Histor quired. This comple	nmediate area of the fir ric Preservation and Ar	nd will be stopped, and rchaeology will be notifi	the INDOT Cultural ed immediately. No			
This is p	age 14 of 22 Project na	me: SR 356 Brid	ge Replacement	Da	te: March 5, 2020			

County _	Pike	Route	SR 356	Des. No1700150
SECTION	D – SECTION 4(f) RESOURCE	S/ SECTION	ON 6(f) RESOURCES	
Parks & Oth	ner Recreational Land owned park		<u>Presence</u>	Yes No
	r owned recreation area school, state/national forest, bikewa	y, etc.)		
			Evaluations Prepared	
"De	grammatic Section 4(f)* minimis" Impact* vidual Section 4(f)			FHWA Approval date
Nationa Nationa State W	Vaterfowl Refuges I Wildlife Refuge I Natural Landmark /ildlife Area ature Preserve		<u>Presence</u>	Yes No
"De	grammatic Section 4(f)* minimis" Impact* vidual Section 4(f)		Evaluations Prepared	FHWA Approval date
Historic Pro Sites eli	operties igible and/or listed on the NRHP		Presence  Evaluations	Yes No FHWA
"De Indi *FHWA appro evaluation(s) Discuss Prog documentatio Individual Se	discussed below. frammatic Section 4(f) and "de min frammatic Section 4(f) and "de min frammatic Section 4(f) and fin frammatic Section 4(f) evaluations please refer fosed alternatives that satisfy the reg	imis" Sectional documents to the "Properties of Transportal licly owners regardles risits on Juport (Apper	es as approval of any Se on 4(f) impacts in the resents. For further discuss rocedural Manual for the of Section 4(f). Insportation Act of 1966 ation facilities unless their discussion of the parks, recreation areas of ownership. Lands so ly 26, 2019 by Corradination of the condition of the con	Approval Date  action 4f Programmatic and/or De minimis  amarks box below. Individual Section 4(f)  sions on Programmatic, "de minimis" and  e Preparation of Environmental Studies".  prohibits the use of certain public and  re is no feasible and prudent alternative.  s, wildlife / waterfowl refuges, and NRHP  subject to this law are considered Section  p, LLC, the aerial map of the project area  are no Section 4(f) resources within or
This is p	age 15 of 22 Project name: S	R 356 Bridg	ge Replacement	Date: _March 5, 2020

County _	Pike	Route	SR 356	_ Des. No.	1700150
Section 6(f)	Involvement		Presence	<u>Use</u>	
Section 6(f)	Property			Yes No	
Discuss propo Remarks:	The U.S. Land a (LWCF), which Section 6(f) of the A review of 6(lwcfcoalition.com these properties	that satisfy the requirements and Water Conservation Fun was created to preserve, do nis Act prohibits conversion of properties on the Land and m/map-of-lwcf revealed a to a are located within or adjace result of this project.	d Act of 1965 establisevelop, and assure a of lands purchased with and Water Conservatal of one (1) proper	shed the Land and Water ccessibility to outdoor re th LWCF monies to a non tion Fund (LWCF) webs ty in Pike County (Appe	Conservation Fund creation resourcesrecreation use. site at <a href="https://www.ndix.l-2">https://www.ndix.l-2</a> ). None of
SECTION	E – Air Quality				
Cor Is th If YI	ES, then: Is the project in the project exe If the project is N Is the project Is a hot spot a el of MSAT Analy	r quality non-attainment or most current MPO TIP? mpt from conformity? OT exempt from conformity, in the Transportation Plan (Tanalysis required (CO/PM)?	then:	Yes No X	
Remarks:	(STIP) (Apper This project is all criteria p 20 map.pdf) This project is	s located in Pike County outs collutants according to ID. Therefore, the conformity part of a type qualifying as a carean Air Act conformity rule upon the conformity rule	side of Washington T EM (https://www.in.gorocedures of 40 CFR tegorical exclusion (G	ownship, which is curren gov/idem/airquality/files/no R Part 93 do not apply. Group 1) under 23 CFR 7	tly in attainment for conattainment_areas 71.117©, or exempt

County	Pike	Route	SR 356	Des. No.	1700150
SECTION	F - NOISE				
<b>Noise</b> s a noise a	analysis required in accordanc	ce with FHWA reç	gulations and INDO	T's traffic noise policy?	Yes No
		No Yes/ Da	ate		
<b>=S Reviev</b> Remarks:	This project is a Type III p Transportation Traffic Nois				
SECTION	G – COMMUNITY IMPAC	TS.			
Will the pro Will the pro Will the pro Will constru Does the or If No, a	Community & Neighborhoo posed action comply with the posed action result in substant posed action result in substant posed action result in substant posed activities impact community have an approved the steps being made to advant project comply with the transition.	local/regional de ntial impacts to contial impacts to lo unity events (festi gransition plan? nce the communit	ommunity cohesion cal tax base or proportion cals, fairs, etc.)?  by's transition plan?	? perty values?	Yes No
Remarks:	The road closure will caus signed detour and commut will include SR 257, SR 56 public facilities and services Local emergency services traffic delays prior to imple on the event websites for taken into account during of	ers may be affect, and SR 61 which is such as school and school distrimentation. Seven Pike County (b)	ted by temporary im the is 14.9 miles and I transport and eme cts will be notified of ral events or festiva	pacts such as added travel adds approximately 5.0 regency services may occup from any potential detours, lately als are listed within ten miles	el time. A likely route miles. Disruptions to ur due to this project. Ine closures, or other es of the project area
	The proposed action is no property values. The proje				
	nd Cumulative Impacts posed action result in substan	ntial indirect or cu	ımulative impacts?		Yes No X
Remarks:	Indirect impacts are effects but are still reasonably for related to induced changes affect the environment who present, and reasonably factions. The nature of this changes to the cultural or are expected.	reseeable. Indire in the pattern of hich result from to oreseeable future project is to rep	ect effects may incl f land use, population the incremental imples actions regardles lace an existing brid	lude growth inducing effer on density, or growth rate. pact of the action when a s of what agency or per- dge, which is not expected	cts and other effects Cumulative impacts added to other past, son undertakes such I to cause substantial
This is	page 17 of 22 Project name	e: SR 356 Brid	lge Replacement		Date: March 5, 2020

	malan	u Dept		ransportation		
County	Pike	Route	SR 356	Des.	No	1700150
Will the proprivate utilit	ilities & Services posed action result in substantial implies, emergency services, religious instactions? Discuss how the maintent	stitutions,	airports, public	transportation or pedestr	ian	s No X
Remarks:	Based on a desktop review, a site the water resources map in the R the project area. Access to all pre expected.	FI report	(Appendix E-9)	there are no public faci	lities with	nin or adjacent to
During the o Does the pr If YES, ther Are ar	ntal Justice (EJ) (Presidential EO 1: development of the project were EJ is oject require an EJ analysis?  The project result in adversely high or one in the project result in adversely high or one in the project result in adversely high or one in the project result in adversely high or one in the project result in adversely high or one in the project result in adversely high or one in the project result in adversely high or one in the project result in adversely high or one in the project result in adversely high or one in the project result in adversely high or one in the project result in the project result in the project result in adversely high or one in the project result in the project re	ssues ide project ar	ea?	to EJ populations?	Yes	No X X
Remarks:	Under FHWA Order 6640.23A, FH ensure that their programs, policies minority or low-income populations Justice (EJ) Analysis is required permanent right-of-way. This proj EJ analysis is required.	s, and act s. Per the for any p	tivities do not ha e current INDO1 roject that has	ave a disproportionately have a disproportionately have Categorical Exclusion have or more relocations	igh and Manual, a or 0.5 a	adverse effect on an Environmental acre of additional
	Potential EJ impacts are detected population to determine if population and adverse impacts to them. The community of comparison (COC), overlaps the project limits is called in Pike County, Indiana. An AC has or low-income or if the low-income Bureau 2011-2015 American Country://factfinder.census.gov/ on Dow-income populations within the American Education of the American Country of the	ons of EJ ne referer In this   the affect s a popul or mino mmunity ecember	concern exists nee population project, the CO sted community lation of concernity population is Survey was a 30, 2019 by Co	and whether there could may be a county, city of C is Pike County, India (AC). In this project, then for EJ if the population is 125% of the COC. Distained from the US pradino, LLC. The data	be dispro or town a na. The AC is Co is more t ata from Census	portionately high and is called the community that ensus Tract 9541 han 50% minority the U.S. Census Bureau Website
	D (M)	CC	C - Pike Count	y, Indiana AC –		Tract 9541
	Percent Minority		0.85%		0.64	
	125% of COC  EJ Population of Concern		1.06%	F	C < 125° No	
	Percent Low-Income		10.65%		4.22	%
	125% of COC		13.31%	A	C < 125	% COC
EJ Population of Concern No						
The AC Census Tract 9541 has a percent minority of 0.64% which is below 50% and is below the 12 threshold. Therefore, the AC does not contain minority populations of EJ concern.  The AC Census Tract 9541 has a percent low-income of 4.22% which is below 50% and is below COC threshold. Therefore, the AC does not contain low0income populations of EJ concern.  The census data sheets, map, and calculations can be found in Appendix I-3 to I-4. No further envi justice analysis is warranted.						
Will the pro	of People, Businesses or Farms posed action result in the relocation of the second sec		businesses or t	arms?	Yes	S No X X

Date: March 5, 2020

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County	Pike Pike		Route	SR 356		Des. No.	1700150
		Relocation Study (Coordination been initia					X
Number	of relocations:	Residences:	0 Bus	sinesses: 0	Farms:0	Other:	0
<i>lf a BIS o</i> Remark	s: No reloca		nesses, or far	ms will take pla	ace as a result of this tt. Utility relocation co		
SECTION	ON H – HAZA	RDOUS MATERIA	ALS & REGI	JLATED SUE	BSTANCES		
Red Fla Phase I Phase I Design/ ES Rev Include a Remark	g Investigation Environmental I Environmental Specifications for riew of Investig  summary of fine Section 2 Corradino involved of distance concerns	dings for each inves a review of GIS, LLC (Appendix E- with regulated subs	hase I ESA) Phase II ESA) ired?  No Yes/ Da  Novemb  tigation. available pub 1 to E-13). N tances were ea, no impac	olic records, a lo sites with hidentified in o	n RFI was complete azardous material cor within 0.5 mile of ted. Further investi	ed on Nove oncerns (haz the project	rmat sites) or sites area. Due to the
	s (mark all that a			Likely Requ	uired		
IDEM	Corps of Engine Individual Perm Nationwide Per Regional Gene Pre-Construction Other Wetland Mitigat Stream Mitigati Section 401 Wollsolated Wetland Rule 5 Other Wetland Mitigat Stream Mitigati Construction in Navigable Wate	eers (404/Section10 hit (IP) rail (NWP) ral Permit (RGP) on Notification (PCN) tion required on required ads determination tion required on required a Floodway erway Permit		X X X			
This	is page 19 of 2	2 Project name:	SR 356 Brid	lge Replacemen	t	Da	te: March 5, 2020

County Pike	Route	SR 356	Des. No.	1700150
Lake Preservation Permit Other Mitigation Required US Coast Guard Section 9 Bridge Permit Others (Please discuss in the remarks box by	oelow)			

Remarks:

Mud Creek, Wetland 1 and Wetland 2 were identified as jurisdictional waterways in the *Waters of the U.S. Determination* report. For stream impacts to Mud Creek and for wetland impacts to Wetland 1 and Wetland 2, a Section 404 Regional General Permit No. 1 from the U.S. Army Corps. of Engineers and a Section 401 Water Quality Certification from IDEM will be required. Total disturbed area will be 2.0 acre, which is more than the 1 acre threshold for an IDEM Rule 5 Storm Water Runoff Permit, therefore this permit will be required. The upstream drainage area is 0.164 square mile, which meets the rural bridge exemption for IDNR Construction in a Floodway permits. It will be the responsibility of the designer to submit plans to the INDOT Ecology and Waterway Permitting Office (EWPO) for an official permit determination.

Applicable recommendations provided by INDOT, IDNR-DFW, IDEM, and USFWS are included in the Environmental Commitments section of this document. If an IDNR Construction in a Floodway, or other permits are found to be necessary, then conditions of the permit will be requirements for the project and will supersede these recommendations.

It is the responsibility of the INDOT Ecology and Waterway Permitting Office (EWPO) to identify and obtain all required permits.

#### **SECTION J- ENVIRONMENTAL COMMITMENTS**

The following information should be provided below: List all commitments, name of agency/organization requesting the commitment(s), and indicating which are firm and which are for further consideration. The commitments should be numbered.

Remarks:

#### Firm:

- If the scope of work and/or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division and the Vincennes District Design/Environmental Manager will be contacted immediately, as such changes may cause this document to become invalid. (INDOT ESD and INDOT Vincennes District)
- 2. It is the responsibility of the project sponsor to notify school corporations and emergency services at least two (2) weeks prior to any construction activity that would block or limit access. (INDOT ESD).
- 3. USFWS Bridge/Structure Assessment shall take place no earlier than two (2) years prior to the start of construction. If construction will begin after 7/26/21, 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 (USFWS).
- General AMM1 Ensure all 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)
- 5. Lighting AMM1 Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 6. Tree Removal AMM1 Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 7. Tree Removal AMM2 Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/rail surface and outside of documented roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed. (USFWS)
- 8. Tree Removal AMM3 Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright

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- colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits). (USFWS)
- 9. Tree Removal AMM4 Do not remove documented Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or documented foraging habitat any time of year. (USFWS)
- 10. Structure 356-63-06431 B at Mud Creek has shown evidence of use (ie nests) by a bird species protected under the Migratory Bird Treaty Act (MBTA) during the June 26, 2019 inspection. Avoidance and minimization measures must be implemented prior to the start of and during the nesting season. Nests without eggs or young should be removed prior to construction during the nonnesting season (September 8 April 30) and during the nesting season if no eggs or young are present. Nests with eggs or young cannot be removed or disturbed during the nesting season (May 1 September 7). Nests with eggs or young should be screened or buffered from active construction. Details of the required procedures are outlined in the "Potential Migratory Bird on Structure Unique Special Provision." (INDOT EWPO)
- 11. Any work in a wetland area within right-of-way or in borrow/waste areas is prohibited unless specifically allowed in the U.S. Army Corps of Engineers permit. (INDOT ESD)

#### For Further Consideration:

- 1. Restrict below low-water work in streams to placement of culverts, piers, pilings and/or footings, shaping of the spill slopes around the bridge abutments, and placement of riprap (USFWS).
- Culverts should span the active stream channel, should be either embedded or a 3-sided or openarch culvert, and be installed where practicable on an essentially flat slope. When an open-bottomed culvert or arch is used in a stream, which has a good natural bottom substrate, such as gravel, cobbles and boulders, the existing substrate should be left undisturbed beneath the culvert to provide natural habitat for the aquatic community. (USFWS)
- 3. Minimize the extent of hard armor (riprap) in bank stabilization by using bioengineering techniques whenever possible. If rip rap is utilized for bank stabilization, extend it below low-water elevation to provide aquatic habitat. (USFWS).
- 4. Avoid all work within the inundated part of the stream channel (in perennial streams and larger intermittent streams) during the fish spawning season (April 1 through June 30), except for work within sealed structures such as caissons or cofferdams that were installed prior to the spawning season. No equipment shall be operated below the Ordinary High Water Mark during this time unless the machinery is within the caissons or on the cofferdams. (USFWS)
- 5. Evaluate wildlife crossings under bridge/culverts projects in appropriate situations. Suitable crossings include flat areas below bridge abutments with suitable ground cover, high water shelves in culverts, amphibian tunnels and diversion fencing. (USFWS)
- 6. If box or pipe culverts are used, the bottoms should be buried to a minimum of 6" (or 20% of the culvert height/pipe diameter, whichever is greater up to a maximum 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 bankful width); maintain the natural stream substrate within the structure; have a minimum openness ratio (height x width/length) of 0.25; and have stream depth and water velocities during low-flow conditions that are approximate to those in the natural stream channel. The new, replacement, or rehabbed structure should not create conditions that are less favorable for wildlife passage under the structure compared to the current conditions (IDNR-DFW).
- 7. Riprap must not be placed in the active thalweg channel or placed in the streambed in a manner that precludes fish or aquatic organism passage (riprap must not be placed above the existing streambed elevation). Riprap may be used only at the toe of the sideslopes up to the ordinary high water mark (OHWM). The banks above the OHWM must be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to [site indicated] and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. (IDNR-DFW).
- 8. Do not excavate in the low flow area except for the placement of piers, foundations, and riprap, or removal of the old structure (IDNR-DFW).
- 9. Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds. (IDNR-DFW).

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This is bade / Lor //	Project name.	SK 330 Bridge Kenjacemeni	Date. Warch 5, 2020	

County	Pike	Route	SR 356	Des. No.	1700150			
SECTION	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 with accompanying graphics were sent in May 2019. A date in the table below means a response was received. All early coordination is contained within Appendix C. No coordinating agencies reported concern with the nature of the project or the preferred alternative.

Agency	Date Contacted	Comment Received
US Fish and Wildlife Service	May 21, 2019	May 21, 2019
US Dept. of Housing and Urban Develop.	May 21, 2019	No Response
Federal Highway Administration	May 21, 2019	No Response
US Army Corps. of Engineers	May 21, 2019	No Response
National Park Service	May 21, 2019	No Response
IDNR – Department of Fish and Wildlife	May 21, 2019	June 18, 2019
IDNR – Department of Oil and Gas	May 21, 2019	No Response
IDEM – Electronic Submittal	May 22, 2019	May 22, 2019
IDEM – Groundwater – Electronic Submittal	May 22, 2019	May 22, 2019
Indiana Geological Survey	May 22, 2019	May 22, 2019
Natural Resources Conservation Service	May 22, 2019	June 18, 2019
INDOT – Vincennes District	May 21, 2019	No Response
INDOT – Public Hearings	May 21, 2019	June 14, 2019
INDOT – Ecology and Waterway Permitting	May 21, 2019	No Response
Pike County Surveyor (Floodplain Administrator)	May 21, 2019	No Response

#### **Appendices**

Appendix A - INDOT Supporting Information

Appendix B - Graphics

Appendix C - Early Coordination

Appendix D - Section 106 of the NHPA

Appendix E - Red Flag and Hazardous Materials

Appendix F - Water Resources

Appendix G - Public Involvement

Appendix H - Air Quality

Appendix I - Additional Studies

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