Indiana	Department of	^T Transportation
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County	Jennings
County	

SR 250 Route

Des. No. 1701502

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

Road No./County:

SR 250 / Jennings County

Designation Number:

Project Description/Termini:

Bridge Rehabilitation, Slate Creek Approximately 4.16 Miles West of SR 3

After completing this form, I conclude that this project qualifies for the following type of Categorical Exclusion (FHWA must review/approve if Level 4 CE):

X	Categorical Exclusion, Level 2 – The proposed action meets the criteria for Categorical Exclusion Manual Level 2 - table 1, CE Level Thresholds. Required Signatories: ESM (Environmental Scoping Manager)
	Categorical Exclusion, Level 3 – The proposed action meets the criteria for Categorical Exclusion Manual Level 3 - table 1, CE Level Thresholds. Required Signatories: ESM, ES (Environmental Services Division)
	Categorical Exclusion, Level 4 – The proposed action meets the criteria for Categorical Exclusion Manual Level 4 - table 1, CE Level Thresholds. Required Signatories: ESM, ES, FHWA
	Environmental Assessment (EA) – EAs require a separate FONSI. Additional research and documentation is necessary to determine the effects on the environment. Required Signatories: ES, FHWA

Note: For documents prepared by or for Environmental Services Division, it is not necessary for the ESM of the district in which the project is located to release for public involvement or sign for approval.

Approval			
ESM Signatur	re Date	ES Signature	Date
	FHWA Signature	Date	
Release for Public Involve	ement		
DGD	2020.05.27 14:33:34 -04'00'		
ESM Initials	Date	ES Initials	Date
Certification of Public Inv	volvement Office of Public In er Section 106 public involvement		
INDOT ES/District Env. Reviewer Signature:		Date:	
Name and Organization of CE/E	A Preparer: <u>Kate Williams, HNTB I</u>	ndiana	
s is page 1 of 24 Project n	name: SR 250 over	Slate Creek	Date: May 27, 2020

Form Version: June 2013

1701502

County Jennings

Route SR 250

Des. No. 1701502

Part I - PUBLIC INVOLVEMENT

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

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

Opportunity for a Public Hearing Required?

es	No
	X
X	

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

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

Remarks:

Notice of Entry letters were mailed to potentially affected property owners near the project area on August 28, 2018 notifying them about the project and that individuals responsible for land surveying and field activities may be seen in the area. A sample copy of the Notice of Entry letter is included in Appendix G, page 1.

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

Public Controversy on Environmental Grounds

Will the project involve substantial controversy concerning community and/or natural resource impacts?

Yes No

Remarks:

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

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

Sponsor of the Project:	INDOT	INDOT District: Seymour
Local Name of the Facility:	SR 250	
Funding Source (mark all that appl	y): Federal X State X Local Other	*
*If other is selected, please identify	the funding source:	

County	Jennings		Route	SR 250		Des.	No.	1701502	
PURPOS	SE AND NEI	ED:							
		n problem that th ne CE Manual, Se				ffic problem sl	hould N	IOT be disc	ussed
030600) of measuring center of in beam 9 The purpo	carrying SR 2 g 26 feet long the deck. The at the west a	ct is due to the de 250 over Slate C g and 30.5 feet w ere is spalling alo butment. Additio oject is to mainta he crossing.	reek. The existing ride. The existing ng the north curb nally, the breastv	ng structure is g wearing surf and effloresc valls of the ab	s single span ace has longi ence between utments have	prestressed c tudinal cracks beams 1 and vertical crack	oncrete s and a 2 as w cs.	e box beam large patcl ell as a sma	bridge h in the all spall
PROJEC		PTION (PREFE	RRED ALTERN	IATIVE):					
County:	Jennings		Municip	ality: <u>N/A</u>					
Limits of F	Proposed Wor	k: <u>Approximat</u>	ely 139 feet west	and 181 feet	east from the	center of the	existing	g bridge.	
Total Wor	k Length:	0.06 N	/ile(s)	Total \	Vork Area:	0.78	Acre(s	s)	
							Ye	s ¹	No

Is an Interchange Modification Study / Interchange Justification Study (IMS/IJS) required? If yes, when did the FHWA grant a conditional approval for this project?

¹If an IMS or IJS is required; a copy of the approved CE/EA document must be submitted to the FHWA with a request for final approval of the IMS/IJS.

In the remarks box below, describe existing conditions, provide in detail the scope of work for the project, including the preferred alternative. Include a discussion of logical termini. Discuss any major issues for the project and how the project will improve safety or roadway deficiencies if these are issues.

Location:

INDOT and the Federal Highway Administration (FHWA) intend to proceed with a project involving the pre-stressed concrete box beam bridge (Bridge No. 250-40-05952 B) carrying SR 250 over Slate Creek in Jennings County, Indiana. The project is in Section 26, Township 5 North, and Range 7 East in Marion Township, as shown on the United States Geological Survey (USGS) 7.5 Minute Deputy, Indiana Topographic Quadrangle Map (Appendix B, page 3). More specifically, the project is located approximately 4.16 miles west of SR 3. Land use surrounding the project area is primarily agricultural and residential (Appendix B, page 2).

Existing Conditions:

The existing structure, a single-span, pre-stressed concrete box beam bridge constructed in 1968, conveys Slate Creek beneath SR 250. SR 250 is classified as a rural major collector and has a posted speed limit of 55 miles per hour through the project area. The existing roadway consists of two, 11-foot through lanes with 3-foot, 3-inch paved shoulders. The existing structure is not identified in the *Indiana Historic Bridge Inventory* and is not eligible for listing in the National Register of Historic Places (NRHP). The intersection of SR 250 and South County Road 550 west is located approximately 150 feet west from the center of the existing structure.

This is page 3 of 24 Project name:

SR 250 over Slate Creek

Date

County	Jennings	Route	SR 250	Des. No.	1701502
-					

Preferred Alternative:

Rehabilitation activities will include replacement of the bridge superstructure. The replacement structure will be a singlespan, continuous reinforced concrete slab bridge with concrete bridge railings. The new bridge span will be 26 feet long with an out-to-out width of 33 feet. The new bridge deck will be 2.5 feet wider. The existing wingwalls will be removed and the top one-inch of the existing abutments will be milled. The existing abutments will be widened to accommodate the superstructure, vertical cracks in the abutments will be sealed, and new wingwalls will be installed. Type FC bridge railing and bridge rail transition will be installed. Full depth pavement replacement as well as surface milling and resurfacing of pavement will be completed approximately 160 feet east and west from the existing structure and 60 feet to the north and south along South County Road 550 West to transition to the existing profile grade. Regrading of the ditches and shoulder widening will be completed on both sides of SR 250 to accommodate a minimum 4-foot shy line offset from the guardrail. W-beam guardrail and guardrail transitions will be installed approximately 105 feet west of the bridge, 115 feet on the south shoulder east of the bridge and 150 feet on the north shoulder east of the bridge. Type OS end treatments will be used at the east corners and curved terminal end treatments will be used at the west corners. Pavement markings and snow-plowable raised pavement markers will be installed on the bridge deck or approach slabs. Pavement resurfacing will occur along South County Road 550 West to transition to the existing profile grade. The project termini are approximately 210 feet east and 135 feet west from the center of the existing bridge. See Appendix B, pages 31-39, for preliminary design plans.

The project will require the closure of SR 250 with a detour. Details of the closure and detour are included in the Maintenance of Traffic (MOT) During Construction section of this CE document.

The preferred alternative meets the purpose and need of the project by providing a structurally sufficient and hydraulically adequate crossing of SR 250 over Slate creek.

OTHER ALTERNATIVES CONSIDERED:

Describe all discarded alternatives, including the Do-Nothing Alternative and an explanation of why each discarded alternative was not selected.

Structure Replacement – In-Kind:

INDOT considered in-kind replacement of the existing structure. This alternative meets the purpose and need; however, it is less cost effective. This alternative was therefore eliminated from further consideration.

Superstructure Replacement – In-Kind:

INDOT considered in-kind replacement of the existing superstructure with adjacent concrete box beams. This alternative meets the purpose and need; however, this alternative would require a change in roadway profile grade which would result in an increase in proposed right-of-way and increased maintenance costs. This alternative was therefore eliminated from further consideration.

No Build Alternative:

The no build alternative proposes continued use of the bridge in the current condition. If selected, this alternative would result in continued deterioration of the bridge, potentially becoming a hazard to the traveling public. This alternative would not meet the purpose and need of the project and was therefore eliminated from further consideration.

The Do Nothing Alternative is not feasible, prudent or practicable because (Mark all that apply):

It would not correct existing capacity deficiencies; It would not correct existing safety hazards;

This is page 4 of 24 Project name:

SR 250 over Slate Creek

Date: May 27, 2020

Indiana Department of Transportation					
County Jennings	Route	SR 250	Des. No. 1701502		
It would not correct existing	kisting roadway geometric deficienc ng deteriorated conditions and main mpacts to the motoring public and	ntenance problems; or	omy.		
ROADWAY CHARAC	TER:				
Functional Classification: Current ADT: Design Hour Volume (DH Designed Speed (mph): Number of Lanes: Type of Lanes: Pavement Width: Shoulder Width: Sidewalk Width: Sidewalk Width: Setting: Topography:	Rural Major Collector 445 VPD (2021) 63 Truck Percenta 55 Legal Speed (n Existing 2 11-foot through lanes 28.5 11-foot through lanes 63 28.5 ft. 3.25 ft. N/A ft.	$\begin{array}{c} \underline{2}\\ \underline{2}\\ \underline{2}\\ \underline{2}\\ \underline{11-foot\ through\ lanes}}\\ \underline{30}\\ \underline{4}\\ \underline{11-foot\ through\ lanes}}\\ \underline{30}\\ \underline{4}\\ \underline{11-foot\ through\ lanes}}\\ \underline{11-foot\ through\ lanes}\\ \underline{30}\\ \underline{11-foot\ through\ lanes}}\\ \underline{11-foot\ through\ lanes}}\\ \underline{30}\\ \underline{11-foot\ through\ lanes}}\\ \underline{11-foot\ through\ lanes}}\\ \underline{11-foot\ through\ lanes}}\\ \underline{11-foot\ through\ lanes}\\ \underline{11-foot\ through\ lanes}}\\ \underline{11-foot\ through\ lanes}}\\ \underline{11-foot\ through\ lanes}}\\ \underline{11-foot\ through\ lanes}}\\ \underline{11-foot\ through\ lanes}\\ \underline{11-foot\ through\ lanes}}\\ \underline{11-foot\ through\ lanes}\\ \underline{11-foot\ through\ lanes}}\\ \underline{11-foot\ through\ lanes}\\ \underline{11-foot\ through\ through\ through\ lanes}\\ 11-foot\ through\ throu$	524 VPD (2041)		
DESIGN CRITERIA FO					
Structure/NBI Number(s)		Sufficiency Rating:	94.8, INDOT Bridge Inspection Report November 15, 2019 (Rating, Source of Information)		
Bridge Type:	Existing Pre-Stressed Concrete Box Beam	Proposed Continuous Reinforced Concrete Slab			
Number of Spans: Weight Restrictions: Height Restrictions: Curb to Curb Width: Outside to Outside Width Shoulder Width: Length of Channel Work:	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			
Remarks: The ex		40-05952 B; NBI No. 0306 eet long and 30.5 feet wide.	600) is a single-span, pre-stressed The existing superstructure will be		

	Yes	No	N/A
Will the structure be rehabilitated or replaced as part of the project?	Χ		
If the proposed action has multiple bridges or small structures, this section should be filled out	t for each	n structure.	

This is page 5 of 24 Project name:

SR 250 over Slate Creek

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County Jennings

Route SR 250 Des. No. 1701502

MAINTENANCE OF TRAFFIC (MOT) DURING CONSTRUCTION:

	Yes	No
Is a temporary bridge proposed?		Χ
Is a temporary roadway proposed?		Χ
Will the project involve the use of a detour or require a ramp closure? (describe in remarks)	Χ	
Provisions will be made for access by local traffic and so posted.	Χ	
Provisions will be made for through-traffic dependent businesses.	Χ	
Provisions will be made to accommodate any local special events or festivals.	Χ	
Will the proposed MOT substantially change the environmental consequences of the action?		Χ
Is there substantial controversy associated with the proposed method for MOT?		Χ

Remarks:

The MOT plan requires the closure of SR 250 for 4 months. A detour utilizing SR 3, SR 256, and Interstate 65 will be in place. The proposed detour will be approximately 33 miles long and will add approximately 13 miles to a trip through the area. A local detour route may be available during construction. Access for local traffic will be provided during construction per INDOT Standard Specification 107.08(e).

The closure will pose a temporary inconvenience to traveling motorists (including school buses and emergency services); however, no significant delays are anticipated and all inconveniences will cease upon project completion. Delays would occur during construction but will cease with project completion.

ESTIMATED PROJECT COST AND SCHEDULE:

Engineering: \$ <u>N/A</u>	Right-of-Way:	\$ <u>25,000</u>	(2021)	Construction:	\$ <u>721</u>	,929	(2022)
Anticipated Start Date of Construction:	September 202	1					
Date project incorporated into STIP Jul	y 2, 2019						
Is the project in an MPO Area?	No X						
If yes,							
Name of MPO N/A							
Location of Project in TIP N/A							
Date of incorporation by reference into th	e STIP <u>N/A</u>						
This is page 6 of 24 Project name:	SR 25	50 over Slate Cr	eek	[Date:	May 27	, 2020

Project name: SR 250 over Slate Creek Date: May 27, 2020

County	Jennings	Route	SR 250	Des. No.	1701502

RIGHT OF WAY:

	Amount	t (acres)
Land Use Impacts	Permanent	Temporary
Residential	0	0
Commercial	0	0
Agricultural	0.27	0
Forest	0.25	0
Wetlands	0	0
Other: Maintained Roadside	0.13	0
TOTAL	0.65	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:

Right-of-way plans and grants for the construction of SR 250 at this location could not be obtained, therefore, existing right-of-way limits are present at the pavement edge of SR 250.

The project requires approximately 0.65 acre of permanent right-of-way. Approximately 0.15 acre of the rightof-way is considered reacquisition and 0.50 acre is considered new right-of-way (Appendix B, page 30). Based on a review of aerial imagery, the land use of additional permanent right-of-way will include 0.27 acre of agricultural property, 0.25 acre of forested land and 0.13 acre of maintained roadside (Appendix B, page 2). Proposed right-of-way limits will extend approximately 50 feet north, 50 feet south, 210 feet east and 135 feet west from the center of the existing structure. Existing maintained roadside will continue to be maintained following construction. The agricultural land and forested land will become maintained roadside property following construction. The project will not require the acquisition of temporary right-of-way.

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

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

SECTION A - ECOLOGICAL RESOURCES Presence Impacts Yes No Streams, Rivers, Watercourses & Jurisdictional Ditches X Federal Wild and Scenic Rivers X State Natural, Scenic or Recreational Rivers X Nationwide Rivers Inventory (NRI) listed Impacts Outstanding Rivers List for Indiana Impacts Navigable Waterways Impacts

This is page 7 of 24 Project name:

SR 250 over Slate Creek

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County	Jennings	R	oute	SR 250		Des. No.	1701502	
Remarks:	B, page 2), an	sktop review, a site visi d the water resources m ns located within the (hap in th	e Red Flag Inv	estigation (RFI) rep	oort (Append	lix E, page 7	7), there
	area. A <i>Waters of t</i> Waterway Per two jurisdiction	<i>he U.S. Determination</i> mitting Office (EWPO onal streams, unnamed rea. The USACE make	/ Wetlar) on Dec tributar	nd Delineation cember 17, 201 y (UNT) to Si	<i>Report</i> was approv 9 (Appendix F, pag ate Creek and Slat	ved by the IN yes 1-19). It v e Creek, are	IDOT Ecolo vas determin	ogy and ned that
	UNT to Slate The stream is (Appendix B, exhibited a 3 According to stream drains Wild and Scer	<u>Creek</u> not mapped as a blue- page 3). The stream ou .17-foot wide by 0.08 the USGS Streamsta approximately 0.037 sq nic River, a State Natura g Rivers and Streams.	line stre ttlets int 3-foot d uts Data uare mil al, Sceni	am on the Dep o Slate Creek a eep ordinary base, (<u>https://</u> e upstream of c and Recreation	uty, Indiana USGS approximately 70 fe nigh-water mark ((<u>water.usgs.gov/osw</u> he project area. The onal River, nor is it	Topograph eet south of S OHWM) du <u>//streamstats</u> e stream is no on the Indiar	SR 250. The ring the sit /indiana.htm of listed as a na Register's	e stream te visit. <u>nl</u>), the Federal s listing
	(Appendix B, by 0.83-foot (<u>https://water.</u> upstream of th Scenic and Ro The wider pro encapsulation	mapped as a blue-lin page 3). The stream flo deep OHWM durir usgs.gov/osw/streamstr as SR 250 bridge. The ccreational River, nor i oposed structure will p . Temporary cofferdam timately 120 linear feet	ws sout ag the ats/india stream i s it on t ermanen as will b	h through the j site visit. A <u>na.html</u>), the is not listed as he Indiana Reg ntly impact ap e necessary to	project area. The sto ccording to the stream drains app a Federal Wild and gister's listing of O proximately three 1	eram exhibit USGS Stre proximately d Scenic Riv utstanding F linear feet of	ed a 13.2-fo amstats Da 1.38 square er, a State N Eivers and S f the stream	ot wide atabase, e miles Natural, treams.
	Department o	ation letters were ser f Natural Resources D neers (USACE) on Nov	ivision o	of Fish and W	ildlife (IDNR-DFW	/), and the U	United State	s Army
	pertaining to	coordination response erosion and sediment of luation of wildlife cros	control 1	neasures, ban	stabilization, min			
	the agency un The IDNR-DI	In their early coordination response dated November 27, 2019, IDNR-DFW indicated that formal approval by the agency under regulatory programs administered by the Division of Water will be required for this project. The IDNR-DFW provided recommendations pertaining to in-stream impacts due to the bridge rehabilitation, bank stabilization, and minimizing impacts to streams (Appendix C, pages 8-10).						
	website on Fe	l letter was generated bruary 13, 2020 recor action and after project	nmendir	ng appropriate	storm water quality			
		e IDNR-DFW, USFW section of this CE doc		IDEM recon	nmendations are in	ncluded in	the Enviror	nmental
This is p	age 8 of 24 Pr	oject name:	SR 2	50 over Slate Ci	eek	Da	te: <u>May 2</u>	27, 2020

Indiana Department of Transportation							
County	Jennings		Route	SR 250		Des. No.	1701502
Other Surf Reservoirs Lakes Farm Pond Detention E	ace Waters	cilities			Presence	Impacts Yes No Impacts Impacts Impacts Impacts	
Remarks:	B, page 2), and t 0.5-mile search Therefore, no in	the water reso radius. No la npacts are exp	urces map ir kes or other ected.	the RFI report surface waters	(Appendix E, s are located w	page 7), there are t	
Wetlands						Yes	No
Total wetla (If a determ		acre(s en made for n		tal wetland area	-	acre(
Wetland No.	Classification	Total Size (Acres)	Impacted Acres		(Comments	
Documentation ES Approval Dates Wetlands (Mark all that apply) X December 17, 2019 Wetland Delineation							
Improvements that will not result in any wetland impacts are not practicable because such avoidance would result in (Mark all that apply and explain): Substantial adverse impacts to adjacent homes, business or other improved properties; Substantially increased project costs; Unique engineering, traffic, maintenance, or safety problems; Substantial adverse social, economic, or environmental impacts, or The project not meeting the identified needs.							

Measures to avoid, minimize, and mitigate wetland impacts need to be discussed in the remarks box.

This is page 9 of 24 Project name:

County	Jennings	Route	SR 250	_ Des. No.	1701502
Remarks:	Based on a review of the N data/Mapper.html), a site v and the RFI report (Append No wetlands are present with In their early coordination pertaining to wetlands (App In their early coordination pertaining to wetlands (App	isit on July 17, 20 lix E, page 7), the thin or adjacent t response dated pendix C, pages 4 response dated N	019 by HNTB, the Up ere are thirteen wetlan to the project area; the November 6, 2019, 4-5).	SGS topographic map (A nds mapped within the 0.5 erefore, no impacts are ex USFWS did not provid	ppendix B, page 3), -mile search radius. apected. e recommendations

	Presence	Impacts	
		Yes	No
Terrestrial Habitat	X	Χ	
Unique or High Quality Habitat			

Use the remarks box to identify each type of habitat and the acres impacted (i.e. forested, grassland, farmland, lawn, etc).

Based on a desktop review, a site visit on July 17, 2019 by HNTB, and the aerial map of the project area (Appendix B, page 2), there are primarily maintained state highway right-of-way and successional riparian habitat within the project area. Vegetation within the project area consists primarily of *Schedonorus arundinaceus* (tall fescue), *Trifolium repens* (white clover), *Ambrosia artemisiifolia* (annual ragweed), *Symphyotrichum pilosum* (hairy white aster), *Eutorochium maculatum* (joe pye weed), *Rosa multiflora* (multiflora rose), and *Microstegium vimineum* (Japanese stilt grass). Approximately 0.25 acre of tree clearing will be necessary for construction access. Avoidance alternatives for terrestrial habitat removal are not practicable due to the need for construction access to complete the bridge rehabilitation. Terrestrial habitat removal will not require mitigation.

In their early coordination response dated November 6, 2019, USFWS provided standard recommendations pertaining to erosion and sediment control measures, tree and understory vegetation clearing, and evaluation of wildlife crossings (Appendix C, pages 4-5).

In their early coordination response dated November 27, 2019, IDNR-DFW provided recommendations to minimize potential effects to terrestrial habitat and wildlife passage within the project area (Appendix C, pages 8-10). These recommendations include post-construction revegetation measures including riparian habitat mitigation, placement of riprap and use of geotextiles, and erosion and sediment control measures.

An automated letter was generated from the IDEM website on February 13, 2020 recommending appropriate storm water quality measures to be implemented during construction and after project completion (Appendix C, pages 11-18).

If there are high incidences of animal movements observed in the project area, or if bridges and other areas appear to be the sole corridor for animal movement, consideration of utilizing wildlife crossings should be taken.

Karst

Remarks:

Is the proposed project located within or adjacent to the potential Karst Area of Indiana? Are karst features located within or adjacent to the footprint of the proposed project? If yes, will the project impact any of these karst features?

No
X
Χ

This is page 10 of 24 Project name:

SR 250 over Slate Creek

Date

Yes

Date: May 27, 2020

County	Jennings	Route	SR 250	Des. No.	1701502

Use the remarks box to identify any karst features within the project area. (Karst investigation must comply with the Karst MOU, dated October 13, 1993)

Remarks:	Based on a desktop review, the project is located outside the designated karst region of Indiana as outlined in the October 13, 1993 Memorandum of Understanding (MOU). According to the USGS topographic map of the project area (Appendix B, page 3), and the RFI report (Appendix E, page 7), and a site visit on July 17, 2019 by HNTB, there are no karst features within or adjacent to the project area. In the early coordination response dated February 3, 2020, the Indiana Geological Survey (IGS) did not indicate that karst features may exist in the project area (Appendix C, page 19). The IGS response indicated that there is a moderate liquefication potential, presence of a floodway, moderate potential for bedrock resources, no potential for sand and gravel resources, and no documented active or abandoned mineral resources extraction sites in the project area. Response from IGS was communicated with the designer on February 3, 2020. No impacts are expected. No early coordination response letters expressed concerns regarding karst resources.
Within th Any critic Federal State sp	Presence Impacts d or Endangered Species X ne known range of any federal species X cal habitat identified within project area X species found in project area (based upon informal consultation) Impacts ecies found in project area (based upon consultation with IDNR) Impacts Yes No Yes No Yes No Yes No Yes No Yes No
Remarks:	Based on a desktop review and the RFI report (Appendix E, pages 1-10), completed by HNTB on July 22, 2019, the IDNR Jennings County Endangered, Threatened and Rare (ETR) Species List has been checked and is included in (Appendix E, pages 8-10). The highlighted species on the list reflect the federal and state identified ETR species located within the county. According to the IDNR-DFW early coordination response letter dated November 27, 2019, the Natural Heritage Program's Database has been checked and it was noted that 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 (Appendix C, pages 8-10).
	Project information was submitted through the USFWS's Information for Planning and Consultation (IPaC)

Project information was submitted through the USFWS's Information for Planning and Consultation (IPaC) portal, and an official species list was generated (Appendix C, pages 26-31). The project is within range of the federally-endangered Indiana bat (*Myotis sodalis*) and the federally-threatened northern long-eared bat (NLEB) (*Myotis septentrionalis*). No additional species were found within or adjacent to the project area other than the Indiana bat and NLEB.

The project qualifies for the *Range-wide Programmatic Informal Consultation for the Indiana bat and Northern Long-eared Bat (NLEB)*, dated May 2016 (revised February 2018), between FHWA, Federal Railroad Administration (FRA), and USFWS. An effect determination key was completed on February 27, 2020, and based on the responses provided, the project was found to "*May Affect - Not Likely to Adversely Affect*" the Indiana bat and the NLEB. INDOT reviewed and verified the effect finding on February 27, 2020, and requested USFWS's review of the finding (Appendix C, pages 32-46). No response was received from USFWS within the 14-day review period; therefore, it was concluded they concur with the finding. Avoidance and Mitigation Measures (AMMs) are included as firm commitments in the Environmental Commitments section of this CE document.

This is page 11 of 24 Project name:

County	Jennings
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Route

e SR 250

Des. No. 1701502

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

SECTION B – OTHER RESOURCES

Drinking Water Resources Wellhead Protection Area Public Water System(s) Residential Well(s) Source Water Protection Area(s) Sole Source Aquifer (SSA)	Presence X	Impacts Yes No Impacts Impacts Impacts
If a SSA is present, answer the following: Is the Project in the St. Joseph Aquifer System?	Yes	<u>No</u>
Is the FHWA/EPA SSA MOU Applicable? Initial Groundwater Assessment Required? Detailed Groundwater Assessment Required?		

Remarks:

Sole Source Aquifer

The project is located in Jennings County, which is not located within the area of the St. Joseph Sole Source Aquifer, the only legally designated sole source aquifer in the state of Indiana. Therefore, the FHWA/ Environmental Protection Agency (EPA) Sole Source Aquifer MOU is not applicable to this project. No impacts are expected.

Wellhead Protection Area and Source Water

HNTB sent a Wellhead Protection Area Proximity Determination to IDEM Groundwater Section on September 19, 2019. In their response dated October 23, 2019, IDEM Groundwater Section indicated the project is not located within a Wellhead Protection Area but the project is located within a Source Water Assessment Area for a Public Water Supply System (PWSS) surface water intake (Appendix C, pages 20-21). IDEM indicated the PWSS that could be impacted by the project is the Stucker Fork Water Utility. This project will follow INDOT standard specifications and best management practices regarding spill protection in order to comply with the IDEM Source Water Assessment Program guidelines (https://www.in.gov/idem/cleanwater/2451.htm). No impacts are expected.

Water Wells

The IDNR Water Well Record Database website (<u>https://www.in.gov/dnr/water/3595.htm</u>) was accessed on February 26, 2020 by HNTB. One residential water well is located approximately 1000 feet north of the project area. The identified well will not be affected because no ground disturbing activities will occur at the location of the well. Therefore, no impacts are expected. Should it be determined during the right-of-way phase that this well is affected, a cost to cure will likely be included in the appraisal to restore the well.

Urban Area Boundary

Based on a desktop review of the INDOT MS4 website (<u>https://entapps.indot.in.gov/MS4/</u>) by HNTB on February 26, 2020 and the RFI report (Appendix E, page 2); this project is not located in an Urban Area Boundary location. No impacts are expected.

This is page 12 of 24 Project name:

County	Jennings	Route	SR 250	Des. No.	1701502
	Public Water System				
	Based on a desktop review B, page 2), and information a public water system. An In their response dated F indicated a 6-inch water f (Appendix C, Page 22). The Utility coordination will be	on provided by the early coordination ebruary 5, 2020, N nain is located alo he 6-inch water ma	IDEM Groundwater a letter was sent to Stu Midwest Engineers In ong the north side of S ain appears to be appro-	Section, this project is lo cker Fork Water Utility of ic, on behalf of Stucker SR 250 that was installed oximately 25 feet north of	cated where there is on February 3, 2020. Fork Water Utility, in the early 1990's f the existing bridge.
•	ins udinal Encroachment erse Encroachment			x X	ts No

Discuss impacts according to classification system described in the "Procedural Manual for Preparing Environmental Studies".

Based on a desktop review of the Indiana Department of Natural Resources Indiana Floodway Information Portal website (<u>http://dnrmaps.dnr.in.gov/appsphp/fdms/</u>) by HNTB on February 18, 2020, and the RFI report (Appendix E, page 7); this project is located in a regulatory floodplain as determined from approved IDNR floodplain maps (Appendix F, page 14). An early coordination letter was sent on November 1, 2019, to the local Floodplain Administrator. The Floodplain Administrator did not respond within the 30-day time frame. This project qualifies as a Category 3 per the current INDOT CE Manual, which states:

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"The modifications to drainage structures included in this project will result in an insubstantial change in their capacity to carry flood water. This change could cause a minimal increase in flood heights and flood limits. These minimal increases will not result in any substantial adverse impacts on the natural and beneficial floodplain values; they will not result in substantial change in flood risks or damage; and they do not have substantial potential for interruption or termination of emergency service or emergency routes; therefore, it has been determined that this encroachment is not substantial."

	Presence	Impa	cts
Farmland		Yes	No
Agricultural Lands	X	X	
Prime Farmland (per NRCS)	X	X	
Total Points (from Section VII of CPA-106/AD-1006* */f 160 or greater, see CE Manual for guidance.	120		

Project located within a regulated floodplain

Remarks:

Homes located in floodplain within 1000' up/downstream from project

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 17, 2019 by HNTB, the aerial map of the project area (Appendix B, page 2), the project will convert <0.001 acre of farmland as defined by the Farmland Protection Policy Act.

An early coordination letter was sent on November 1, 2019, to Natural Resources Conservation Services (NRCS). Coordination with NRCS resulted in a score of 120 on the NRCS-AD-1006 form (Appendix C, page 7). NRCS's threshold score for significant impacts to farmland that result in the consideration of alternatives is 160. Since this project score is less than the threshold, no significant loss of prime, unique, statewide, or local important farmland will result from this project. No alternatives other than those previously discussed in this document will be investigated without reevaluating impacts to prime farmland.

This is page 13 of 24 Project name:

				-
County Jennings	Route	SR 250	Des. No. 170150	12
SECTION C – CULTURAL RESOURCE	S			
	gory Ty B	vpe INDOT Approva 12 February 10, 20		N/A
Results of Research	Eligible and Resource	Present		
Archaeology NRHP Buildings/Site(s) NRHP District(s) NRHP Bridge(s)				
oject Effect				
No Historic Properties Affected	No Adverse	Effect Adverse	e Effect	
	umentation	<u>l</u>		
Documentation (mark all that apply)	Prepared	ES/FHWA	SHPO	
Historic Properties Short Report Historic Property Report Archaeological Records Check/ Review		Approval Date(s)	Approval Date(s)	
Archaeological Phase la Survey Report	X	December 16, 2019	N/A	
Archaeological Phase Ic Survey Report Archaeological Phase II Investigation Report				
Archaeological Phase III Data Recovery				
APE, Eligibility and Effect Determination 300.11 Documentation				
		MOA Signature Datas (L	L	
Memorandum of Agreement (MOA)		MOA Signature Dates (Li	ist all signatories)	

Describe all efforts to document cultural resources, including a detailed summary of the Section 106 process, using the categories outlined in the remarks box. The completion of the Section 106 process requires that a Legal Notice be published in local newspapers. Please indicate the publication date, name of paper(s) and the comment period deadline. Likewise include any further Section 106 work which must be completed at a later date, such as mitigation or deep trenching.

Remarks:

On February 10, 2020, INDOT Cultural Resources Office (CRO) determined that this project falls within the guidelines of Category B, Type 12 under the Minor Projects Programmatic Agreement (MPPA) (Appendix D, pages 1-5). MPPA Category B, Type 12 projects include the replacement, widening, or raising the elevation of the superstructure on existing bridges, and bridge replacement projects (when both the superstructure and substructure are removed), under certain conditions.

Archaeology: On October 28, 2019, archaeological field reconnaissance was conducted by a qualified professional. The field reconnaissance identified one previously unrecorded archaeological site (12Jn671). Because the site boundary was not fully defined south of the survey area, and because artifacts were found

This is page 14 of 24 Project name:

Route SR 250

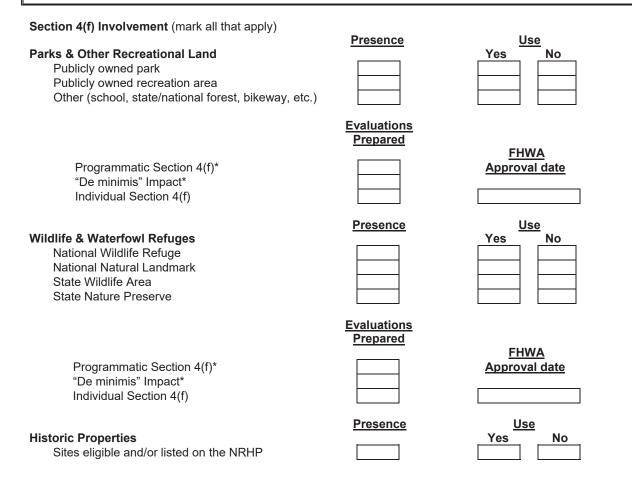
250

Des. No. 1701502

below the plow zone, the portion of the site within the survey area is potentially eligible for inclusion in the NRHP. However, the site is located outside proposed construction activities, archaeological clearance is recommended for the proposed project as long as the site can be avoided (Appendix D, page 8). Avoidance of this archaeological site is included as a commitment in the Environmental Commitments section of this CE document.

No further consultation is required. The Section 106 process has been completed and the responsibilities of the FHWA under Section 106 have been fulfilled.

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



County Jennings	Route	SR 250	Des. No.	1701502
		Evaluations Prepared		
Programmatic Section 4(f)* "De minimis" Impact* Individual Section 4(f)			<u>FHWA</u> Approval date	

*FHWA approval of the environmental document also serves as approval of any Section 4f Programmatic and/or De minimis evaluation(s) discussed below.

Discuss Programmatic Section 4(f) and "de minimis" Section 4(f) impacts in the remarks box below. Individual Section 4(f) documentation must be separate Draft and Final documents. For further discussions on Programmatic, "de minimis" and Individual Section 4(f) evaluations please refer to the "Procedural Manual for the Preparation of Environmental Studies". Discuss proposed alternatives that satisfy the requirements of Section 4(f).

Remarks:

Remarks:

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

Based on a desktop review, a site visit on July 17, 2019 by HNTB, the aerial map of the project area (Appendix B, page 2), and the RFI report (Appendix E, page 2) there are no Section 4(f) resources within the 0.5 mile search radius. There are no Section 4(f) resources within or adjacent to the project area. Therefore, no use is expected.

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

Discuss proposed alternatives that satisfy the requirements of Section 6(f). Discuss any Section 6(f) involvement.

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

A review of 6(f) properties on the Land and Water Conservation Fund (LWCF) list maintained by the IDNR Division of Outdoor Recreation for the identification of LWCF properties and provided by INDOT ESD revealed a total of one property in Jennings County (Appendix I, page 6). This property is not located within or adjacent to the project area. Therefore, there will be no impacts to 6(f) resources as a result of this project.

SECTION E – Air Quality

Air Quality

	:t -attainment or maintenance area?	Yes	No X	
If YES, then: Is the project in the most curre Is the project exempt from con				
If the project is NOT exempt f Is the project in the Trans				
This is page 16 of 24 Project name:	SR 250 over Slate Creek		Date:	May 27, 202

Form Version: June 2013

		inulana Depa		ansponation	
County _	lennings	Route	SR 250	Des. No.	1701502
	ls a hot spot analysis r	equired (CO/PM)?]
Leve	l of MSAT Analysis requir	ed?			
l eve	l 1a 🚺 Level 1b		evel 3 Le	vel 4 Level 5	
2000					
Remarks:	This project is included	d in the INDOT FY	2020-2024 STI	P under Des. No. 1701502 (A	Appendix H, page 1).
				surrently in attainment for a the conformity procedures of	
		ct conformity rule		on (Group 1) under 23 CFR 7 93.126, and as such, a Mobi	
]
SECTION F	- NOISE				
Noise					Yes No
	alvsis required in accorda	nce with FHWA red	nulations and INI	DOT's traffic noise policy?	
	f Naisa Analysia	No Yes/ Da	ate		
ES Review (of Noise Analysis				
Remarks: This project is a Type III project. In accordance with 23 CFR 772 and the current <i>Indiana Department of Transportation Traffic Noise Analysis Procedure</i> , this action does not require a formal noise analysis.					
SECTION O	G – COMMUNITY IMPA	ACTS			
Will the propo Will the propo Will construct Does the con If No, are Does the pro	ommunity & Neighborho osed action comply with th osed action result in subst osed action result in subst tion activities impact comm nmunity have an approved steps being made to adv ject comply with the trans	ne local/regional de cantial impacts to co cantial impacts to lo munity events (festi d transition plan? ance the communit	ommunity cohesi cal tax base or p vals, fairs, etc.)? y's transition pla	rns for the area? on? roperty values? n?	Yes No X X X X X X X X X X X X X X
Remarks:	T1 · · · · · · · 1	ст.	C		::::::::::::::::::::::::::::::::::::::

The project is in a rural portion of Jennings County, Indiana and will require the acquisition of 0.65 acre of permanent right-of-way. The right-of-way acquisition is not anticipated to have a significant impact on tax base or property values.

The MOT plan requires the closure of SR 250 for 4 months. A detour utilizing SR 3, SR 256, and Interstate 65 will be in place. The proposed detour will be approximately 33 miles long and will add approximately 13 miles

This is page 17 of 24 Project name:

County	Jennings
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Route SR 250

Des. No. 1701502

Yes

No

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to a trip through the area. A local detour route may be available during construction. Access for local traffic will be provided during construction per INDOT Standard Specification 107.08(e).

According to the Indiana Festivals website (<u>indianafestivals.org/search/?search=&city+&county=Jennings& region=</u>) accessed on February 26, 2020, there are two scheduled festivals in Jennings County. Two festivals, the Sassafras Tea Festival & Civil War Living History and the Vernon Labor Day Festivals of the Arts, are located in Vernon, Indiana. The MOT plan may cause minor delays or inconveniences to those traveling to both festivals. The selected contractor will implement the MOT in accordance with the current IDM and INDOT Standard Specifications.

The American with Disabilities Act – ADA Transition Plan for Public Rights-of-Way" for Jennings county dated January 12, 2017 is available on Jennings County's website (<u>http://www.jenningscounty-in.gov/ADA/index.php</u>). This project is located in a rural portion of Jennings County that does not have any sidewalks or trails within or adjacent to the project area. Therefore, there are no facilities in the project area that require ADA compliance.

Early coordination letters were sent to the Jennings County Surveyor, Jennings County Sheriff, Jennings County Highway Department, Jennings County Commissioner's Office, and the Jennings County Emergency Management Director on November 1, 2019 (Appendix C, pages 1-3). An early coordination letter was sent to the Stucker Fork Water Utility on February 3, 2020. No responses were received regarding MOT or community impacts.

Indirect and Cumulative Impacts

Will the proposed action result in substantial indirect or cumulative impacts?

Remarks:

Indirect impacts are effects which are caused by the action and are later in time or farther removed in distance, but are still reasonably foreseeable. Indirect effects may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density, or growth rate. Cumulative impacts affect the environment which result from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such actions.

This project is not of a type that is likely to cause substantial indirect or cumulative effects. This project is not expected to affect growth, changes in land use, or population density. The project will not add capacity to the existing roadway network or provide additional access to any currently undeveloped area. Therefore, the project is not expected to increase development in the area or result in substantial indirect or cumulative impacts.

Public Facilities & Services

Will the proposed action result in substantial impacts on health and educational facilities, public and private utilities, emergency services, religious institutions, airports, public transportation or pedestrian and bicycle facilities? *Discuss how the maintenance of traffic will affect public facilities and services*.



Remarks:

Based on a desktop review, a site visit on July 17, 2019 by HNTB, the aerial map of the project area (Appendix B, page 2), and the RFI report (Appendix E, page 2) there are no public facilities within or adjacent to the project area. Access to all properties will be maintained during construction. Therefore, no impacts are expected.

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

Environmental Justice (EJ) (Presidential EO 12898) During the development of the project were EJ issues identified?

Yes No

This is page 18 of 24 Project name:

SR 250 over Slate Creek

Date: May 27, 2020

Form Version: June 2013

County	Jennings	Route	SR 250	Des. No.	1701502
Dessther	unio et en muine en 🗖 l	analysis 2		F	V
	project require an EJ	analysis?			X
If YES, the	en:				
Are a	any EJ populations lo	ocated within the project are	ea?		X
Will t	he project result in a	dversely high or disproporti	onate impacts to	EJ populations?	X
Remarks:					

Under FHWA Order 6640.23A, FHWA and INDOT, as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT Categorical Exclusion Manual, an Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 acre of additional permanent right-of-way. The project will require 0.65 acre of additional permanent right-of-way. Therefore, an EJ Analysis is required.

Potential EJ impacts are detected by locating minority and low-income populations relative to a reference population to determine if populations of EJ concern exists and whether there could be disproportionately high and adverse impacts to them. The reference population may be a county, city, or town and is called the community of comparison (COC). In this project, the COC is Jennings County. The community that overlaps the project limits is called the affected community (AC). In this project, the AC is Census Tract 9606. An AC has a population of concern for EJ if the population is more than 50% minority or low-income or if the low-income or minority population is 125% of the COC. Data from the 2013-2017 American Community Survey was obtained from the US Census Bureau Website https://factfinder.census.gov/ on February 4, 2020 by HNTB (Appendix I, pages 1-5). The data collected for minority and low-income populations within the AC are summarized in the below table.

	COC: Jennings County	AC: Census Tract 9606
LOW-INCOME		
Total population for whom poverty status is determined (estimated)	27,411	4,991
Total population below poverty level (estimated)	3,815	425
Percent low-income	14%	9%
125 percent of COC	18%	
Potential low-income EJ impact?		No
MINORITY		
Total population (all races)	27,840	5,016
White alone or in combination	26,550	4,883
Number non-white/minority	1,290	133
Percent non-white/Minority	5%	3%
125 percent of COC	7%	
Potential minority EJ impact?		No

Census Tract 9606 has a percent minority of 3% which is below 50% and is below the 125% COC threshold. Therefore, the AC does not contain minority populations of EJ concern.

Census Tract 9606 has a percent low-income of 9% which is below 50% and is below the 125% COC threshold. Therefore, the AC does not contain low-income populations of EJ concern.

The census data sheets, map, and calculations can be found in Appendix I, pages 1-5. No further environmental justice analysis is warranted.

County	Jennings	Route S	R 250	Des. No. 1701502
Will the Is a Bus Is a Con	ion of People, Businesses of proposed action result in the r iness Information Survey (BIS ceptual Stage Relocation Stu ty relocation coordination bee	relocation of people, bus 6) required? dy (CSRS) required?		Yes No X X X X X X X X X X
Number	of relocations: Residen	ces: 0 Busines	sses: <u>0</u> Far	ms: <u>0</u> Other: <u>0</u>
	CSRS is required, discuss the	eresults in the remarks l	box.	
Remarks	No relocations of people	e, businesses, or farms w	vill take place as a re	sult of this project.
				
SECTIO	ON H – HAZARDOUS MA	TERIALS & REGULA	TED SUBSTANC	ES
Red Fla Phase I Phase II	ous Materials & Regulated S g Investigation Environmental Site Assessme Environmental Site Assessme Specifications for Remediation	ent (Phase I ESA) lent (Phase II ESA)		X
		No Yes/ Date		_
ES Revi	ew of Investigations	September 15	5, 2019	
Remarks	Based on a review of G the INDOT Site Assessr material concerns (hazn	IS data and available punct and Management (Sanagement (Sanagement (Sanagement (Sanagement Sanagement Sa	SAM) Unit (Append yed with regulated st	was approved on September 15, 2019 by ix E, pages 1-10). No sites with hazardous ubstances were identified in or within 0.5 al concerns or regulated substances is not
l				
SECTIO	ON I – PERMITS CHECKL	IST		
Permits	(mark all that apply)	Li	ikely Required	
IDEM	orps of Engineers (404/Sect Individual Permit (IP) Nationwide Permit (NWP) Regional General Permit (RG Pre-Construction Notification Other Wetland Mitigation required Stream Mitigation required Section 401 WQC Isolated Wetlands determinat Rule 5 Other Wetland Mitigation required Stream Mitigation required	P) (PCN)		

This is page 20 of 24 Project name:

County	Jennings	Route	SR 250	Des. No.	1701502
Nav Lak Oth Mitig	istruction in a Floodway igable Waterway Permit e Preservation Permit er gation Required suard Section 9 Bridge Permit ase discuss in the remarks box b	elow)			
Remarks:	A USACE Section 404 permit a required for this project. This proj Construction in a Floodway perm Applicable recommendations pr Commitments section of this doct be requirements of the project and	ect meets the state of the sector of the sec	he requirements of the rural bridg be required. ⁷ IDEM and IDNR-DFW are ermits are found to be necessary,	e exemption; included in t	therefore, an IDNR the Environmental

It is the responsibility of the project sponsor 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:	
	1.	If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division (ESD) and the INDOT Seymour District Environmental Section will be contacted immediately. (INDOT ESD and INDOT Seymour District)
	2.	It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access. (INDOT ESD)
	3.	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)
	4.	Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
	5.	Tree Removal AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
	6.	Tree Removal AMM 2: Apply time of year restrictions (April 1 through September 30) 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)

ounty	Jennings	Route	SR 250	Des. No.	1701502
	7.	Tree Removal AMM 3: Ensure tro that contractors understand clearin colored flagging/fencing prior to a (USFWS)	g limits and how the	y are marked in the field	(e.g., install bright
	8.	Tree Removal AMM 4: Do not ren for roosting, or trees within 0.25 r (USFWS)			
	9.	Archaeological site (12Jn671) is avoided. (INDOT CRO)	located outside prop	osed construction activit	ties and should be
	10.	USFWS Bridge/Structure Assessm of construction. If construction we qualified individual, must be perfi- bats/bat indicators and/or presence bats or birds. If sings of bats or b District Environmental Manager me District)	vill begin after July 1 formed. Inspection of of birds. The result irds are documented of	7, 2021, an inspection of the structure should che of the inspection must i during this inspection, th	f the structure by a eck for presence of ndicate no signs of e INDOT Seymour
	FOR C	ONSIDERATION:			
	1.	The new, replacement, or rehabber not create conditions that are less current conditions. A level area of channel clearing will result in a fla area should allow wildlife passage can impair wildlife passage. (IDNI	favorable for wildlin natural ground under t bench area above the and should remain fi	fe passage under the stru- the structure is ideal for e normal water level under	acture compared to wildlife passage. If er the structure, this
	2.	Minimize the use of riprap and use must not be placed in the active tha fish or aquatic organism passage (n Where riprap must be used, we rec protection, such as from the toe of DFW)	lweg channel or place iprap must not be pla ommended placing or	d in the streambed in a ma ced above the existing str nly enough riprap to prov.	nner that precludes eambed elevation) ide stream bank toe
	3.	The banks above the OHWM mu mixture of grasses, sedges, wildflow bank/floodway stabilization purpos	wers, shrubs, and trees	native to the area and spe	cifically for stream
	4.	Combine vegetation with bank sta reduce impacts upon fish and wild by using a smooth-surfaced armon mats, fabric-formed concrete mats	ife. If hard armoring ing material instead	is needed, wildlife passag of riprap, such as articula	ge can be facilitated ated concrete block
	5.	Impacts to non-wetland forest of o less than one acre of non-wetland ratio based on area. Impacts to no mitigated by planting five trees, a which is removed that is 10" dbh (IDNR-DFW)	forest is removed in a n-wetland forest unde t least 2 inches in dia	rural setting, replacemen er one (1) acre in an urba meter-at-breast height (I	t should be at a 1:1 n setting should be DBH), for each tree

This is page 22 of 24 Project name:

County	Jennings	Route	SR 250	Des. No.	1701502
	_				
	6.	IDNR recommends the mitigation mile drainage area of the stream (or impact site as possible) and adjace	or another stream with	in the 8-digit HUC, prefer	rably as close to the
	7.	Do not cut any trees suitable for Ind dbh, living or dead, with loose hang September 30. (IDNR-DFW)			
	8.	Do not excavate in the low flow a removal of the old structure. (IDN		cement of piers, foundat	ions, and riprap, or
	9.	Do not construct temporary runa pumparounds. (IDNR-DFW)	arounds, access bridg	ges, causeways, cofferda	ms, diversions, or
	10.	Use minimum average 6 inch grad habitat for aquatic organisms in the			ter level to provide
	11.	Plant native hardwood trees along destroyed during construction. (ID		and right-of-way to rep	lace the vegetation
	12.	Post "Do Not Spray" signs along t	he right-of-way. (IDN	R-DFW)	
	13.	Restrict below low-water work in shaping of the spill slopes around			
	14.	Culverts should span the active str culvert, and be installed where pra or arch is used in a stream, which boulders, the existing substrate sh habitat for the aquatic community.	cticable on an essenti- has a good natural b hould be left undistu	ally flat slope. When an o ottom substrate, such as	pen-bottom culver gravel, cobbles and
	15.	Minimize the extent of hard armore whenever possible. If rip rap is elevation to provide aquatic habita	utilized for bank sta		
	16.	Avoid all work within the inund intermittent streams) during the f within sealed structures such as a season. No equipment shall be ope machinery is within the caissons o	ish spawning season caissons or cofferdam rated below Ordinary	(April 1 through June 30 is that were installed pri High Water Mark during), except for work or to the spawning
	17.	Evaluate wildlife crossings under b include flat areas below bridge abu amphibian tunnels and diversion for	utments with suitable		

County	Jennings	Route	SR 250	Des. No.	1701502

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 on November 1, 2019 and February 3, 2020 to federal, state, and local resource agencies (Appendix C, pages 1-3).

Agency	Response Received
Jennings County Surveyor	November 1, 2019
U.S. Fish and Wildlife Service	November 6, 2019
USDA – Natural Resources Conservation Service	November 20, 2019
Indiana Department of Natural Resources, Division of Fish and Wildlife	November 27, 2019
Indiana Geological Survey	February 3, 2020
Stucker Fork Water Utility	February 5, 2020
Indiana Department of Environmental Management	February 13, 2020
Jennings County School Corporation	-
Indiana Department of Natural Resources, Division of Oil and Gas	-
U.S. Army Corps of Engineers – Louisville District	-
National Parks Service	-
Jennings County Sheriff's Department	-
Jennings County Highway Department	-
Jennings County Commissioners Office	-
Jennings County Emergency Management	-
Jennings County Floodplain Administrator	-

SR 250 over Slate Creek – Superstructure Replacement Jennings County, Indiana Des. No. 1701502

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SR 250 over Slate Creek – Superstructure Replacement Jennings County, Indiana Des. No. 1701502

Appendix A: INDOT Supporting Documentation

Categorical Exclusion Level Thresholds

	РСЕ	Level 1	Level 2	Level 3	Level 4 ¹
Section 106	Falls within guidelines of Minor Projects PA	"No Historic Properties Affected"	"No Adverse Effect"	-	"Adverse Effect" Or Historic Bridge involvement ²
Stream Impacts	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	\geq 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)	-	"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. Supervisor Env. Services Division FHWA 	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.

for Indiana bat and Northern long-eared bat as "required for all projects". ⁶Potential for causing a disproportionately high and adverse impact.

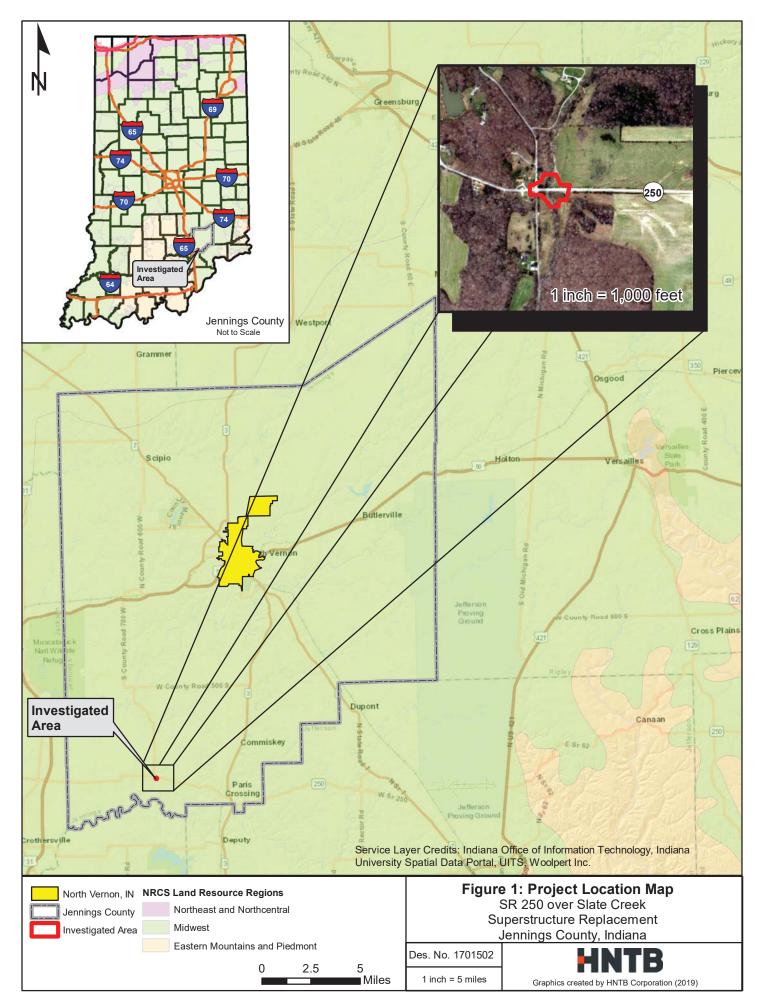
⁷Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

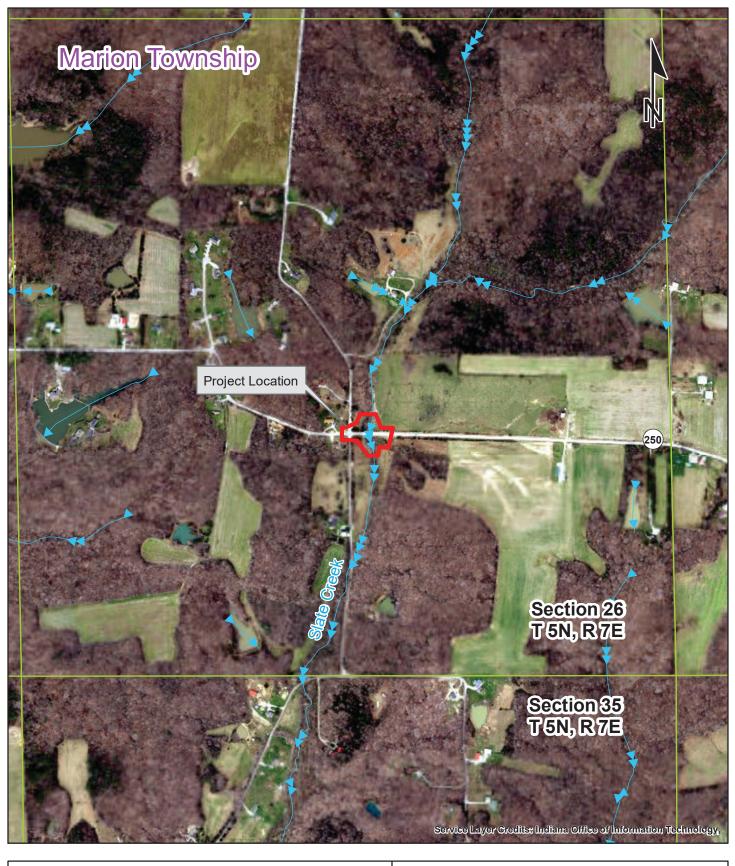
*Substantial public or agency controversy may require a higher-level NEPA document.

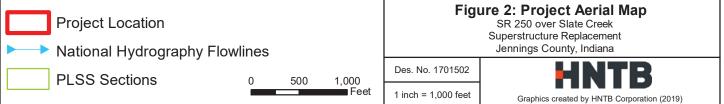
⁵AMMs determined by the IPAC decision key to be needed that are listed in the USFWS User's Guide for the Range-wide Programmatic Consultation for Indiana bat and Northern long-eared bat as "required for all projects"

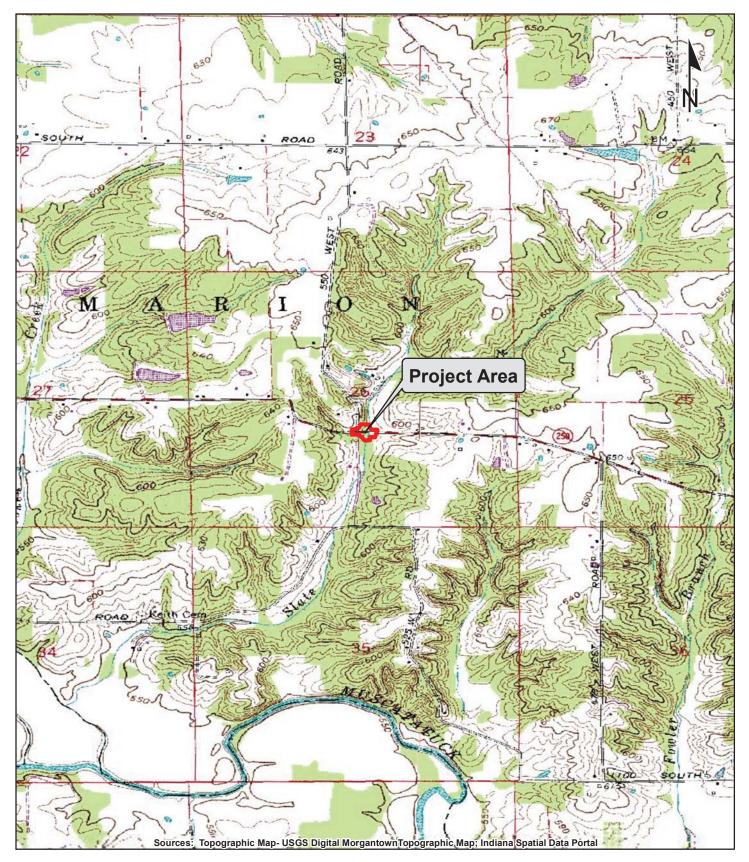
SR 250 over Slate Creek – Superstructure Replacement Jennings County, Indiana Des. No. 1701502

Appendix B: Graphics

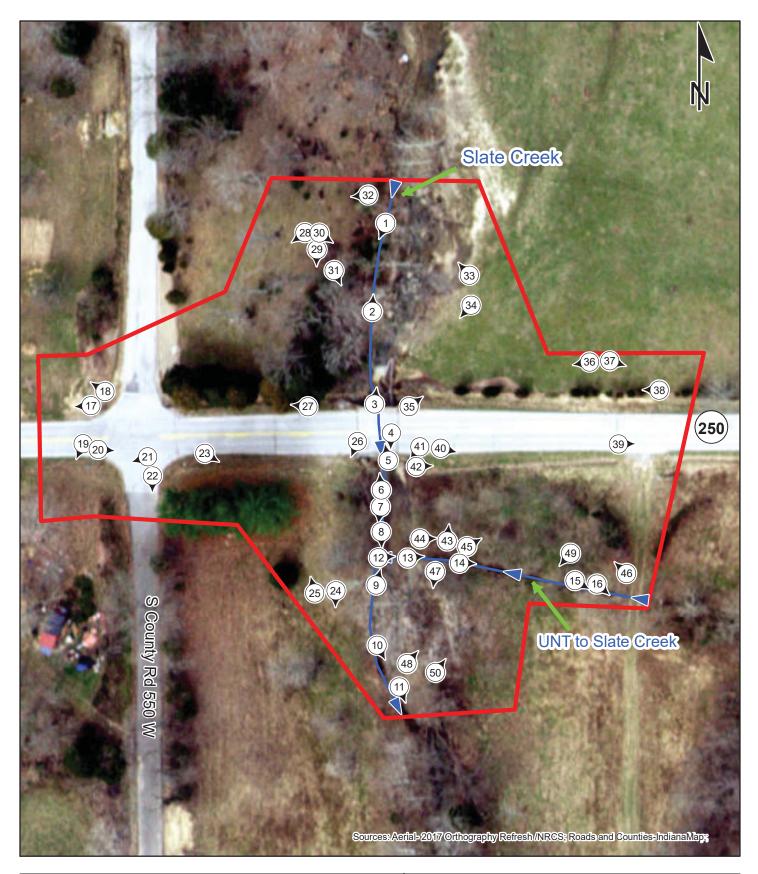








Project Area					GS (1:24,000 scale) Topographic Map SR 250 over Slate Creek Superstructure Replacement Jennings County, Indiana
	0	1,000	2,000 Feet	Des. No. 1701502 1 inch = 2,000 feet	Graphics created by HNTB Corporation (2019)







1. View of Slate Creek and investigated area looking south



2. View of Slate Creek and investigated area looking north

SR 250 over Slate Creek - Superstructure Replacement



3. View of Slate Creek and investigated area looking north



4. View of Slate Creek and investigated area looking south

SR 250 over Slate Creek - Superstructure Replacement



5. View of Slate Creek and investigated area looking north



6. View of Slate Creek, the SR 250 structure and investigated area looking north

SR 250 over Slate Creek - Superstructure Replacement



7. View of Slate Creek and investigated area looking south



8. View of Slate Creek and investigated area looking south



9. View of Slate Creek, the SR 250 structure and investigated area looking north



10. View of Slate Creek and investigated area looking southeast



11. View of Slate Creek and investigated area looking southeast



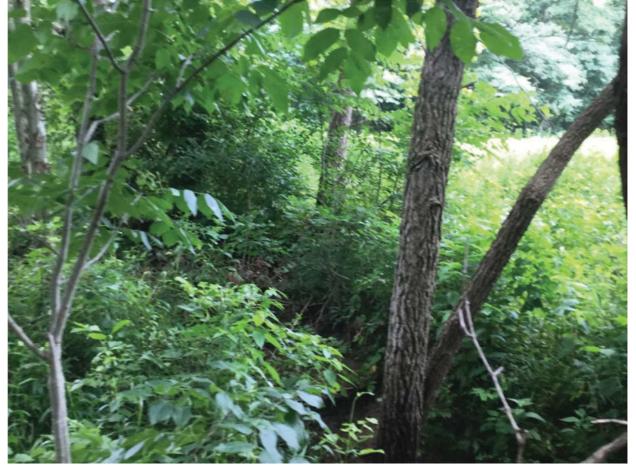
12. View of UNT to Slate Creek and investigated area looking east



13. View of UNT to Slate Creek and investigated area looking east



14. View of UNT to Slate Creek and investigated area looking east



15. View of UNT to Slate Creek and investigated area looking east



16. View of UNT to Slate Creek and investigated area looking east



17. View of investigated area and SR 250 looking west



18. View of investigated area looking northwest



19. View of investigated area looking southwest



20. View of investigated area and the SR 250/South County Road 550 West intersection looking east Des. No. 1701502 Appendix B, Page 14 of 39



21. View of investigated area looking southwest



22. View of investigated area and South County Road 550 West looking south



23. View of investigated area and SR 250 looking southeast



24. View of investigated area looking south



25. View of investigated area looking northwest



26. View of investigated area looking southwest



27. View of investigated area and SR 250/South County Road 550 West intersection looking west



28. View of investigated area looking southwest



29. View of investigated area looking south



30. View of investigated area looking southeast



31. View of investigated area and Slate Creek looking southeast



32. View of investigated area looking west



33. View of investigated area looking northwest



34. View of the investigated area looking southwest



35. View of the investigated area looking northeast



36. View of the investigated area looking west



37. View of the investigated area looking east



38. View of the investigated area and SR 250 looking west



39. View of the investigated area and SR 250 looking east



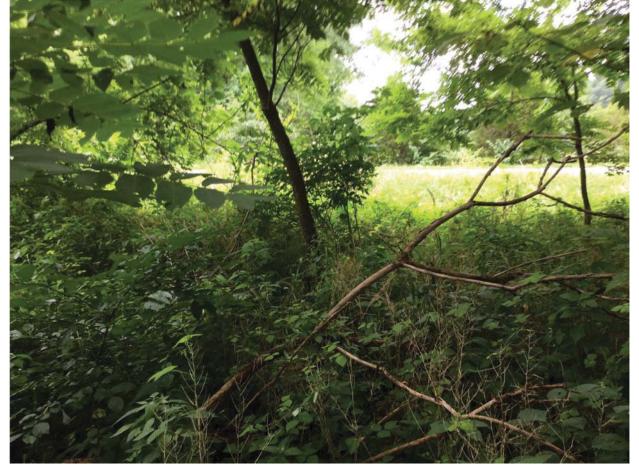
40. View of the investigated area and SR 250 looking east



41. View of investigated area looking southwest



42. View of investigated area looking east



43. View of investigated area looking north



44. View of investigated area looking east



45. View of investigated area looking northeast



46. View of investigated area looking northwest



47. View of investigated area looking south



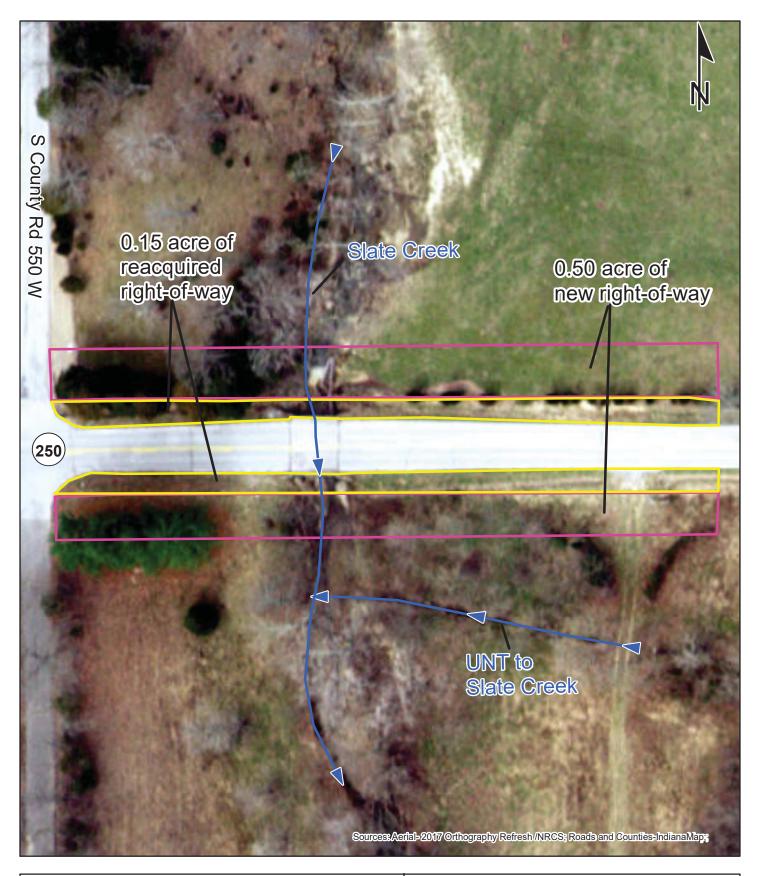
48. View of investigated area looking northeast



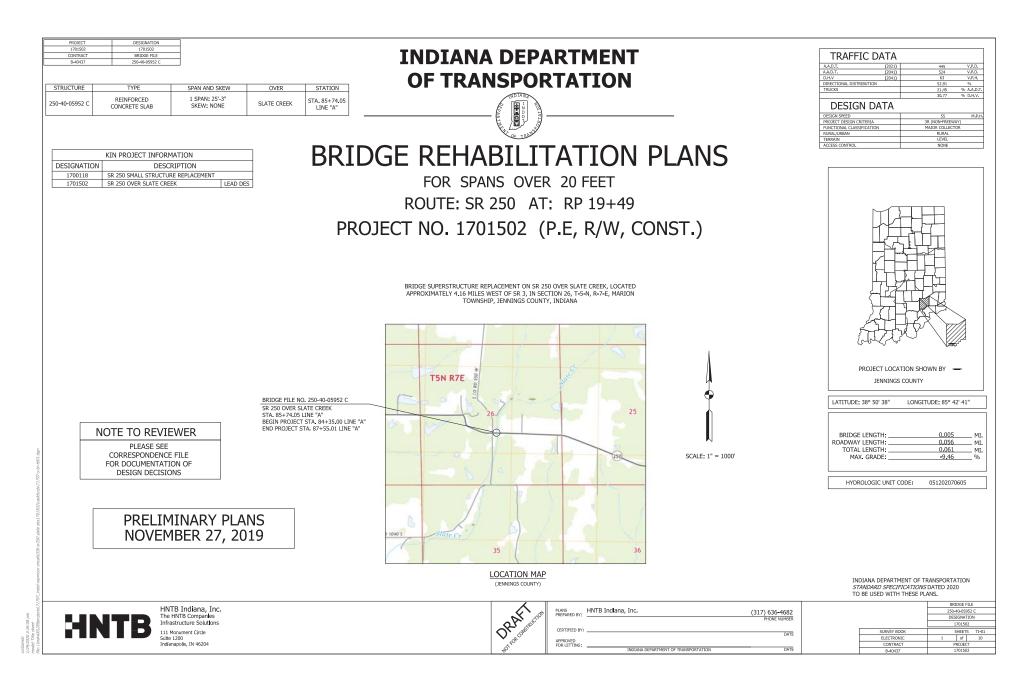
49. View of investigated area looking southwest

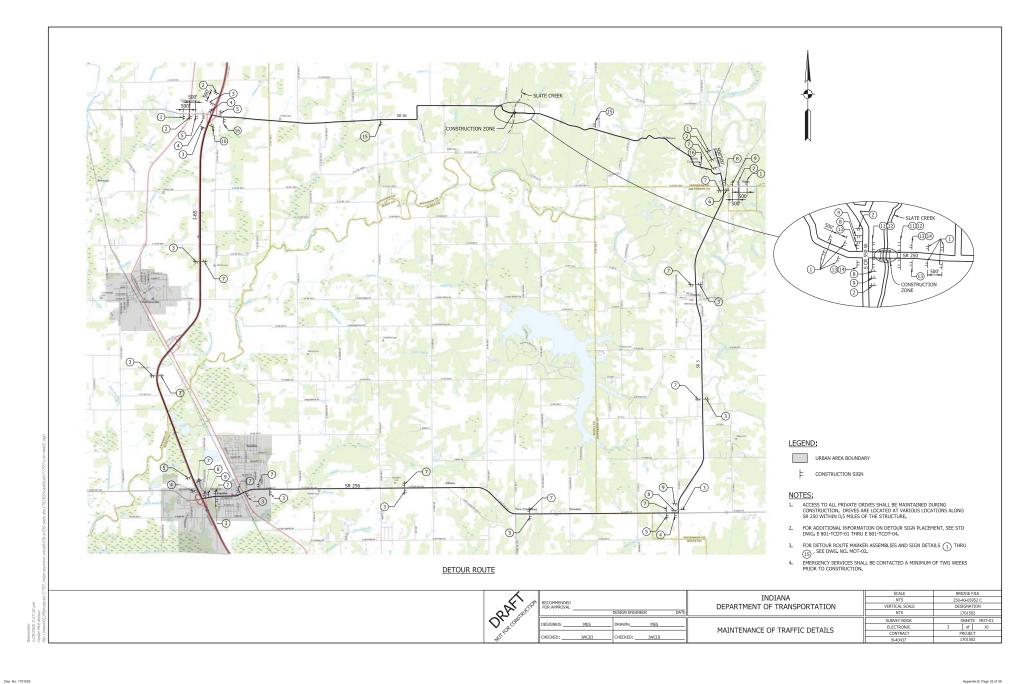


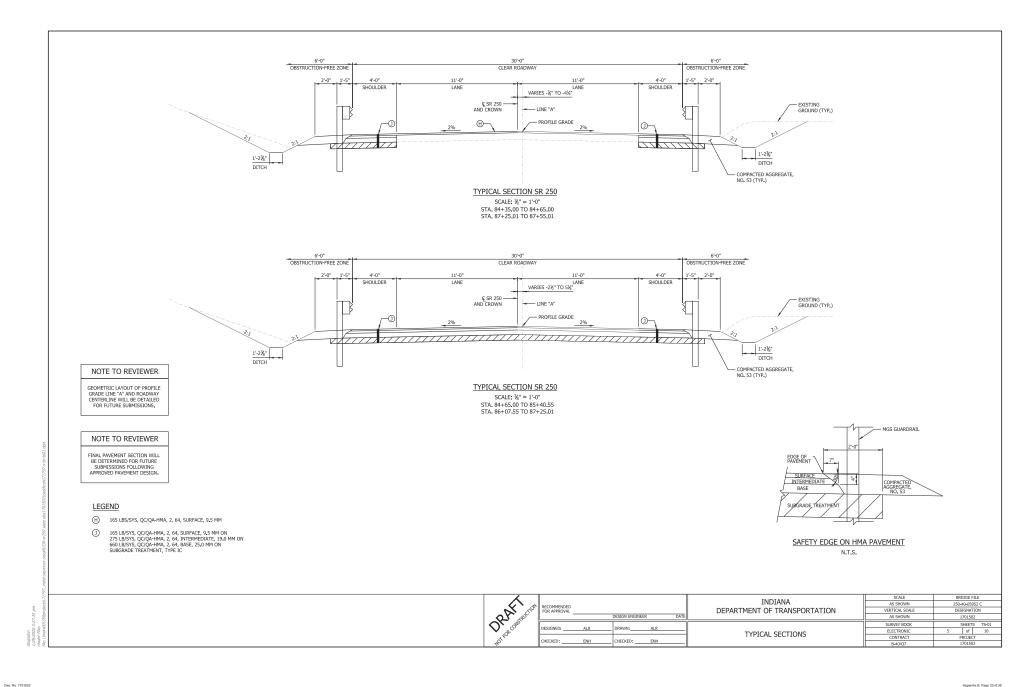
50. View of investigated area looking northeast

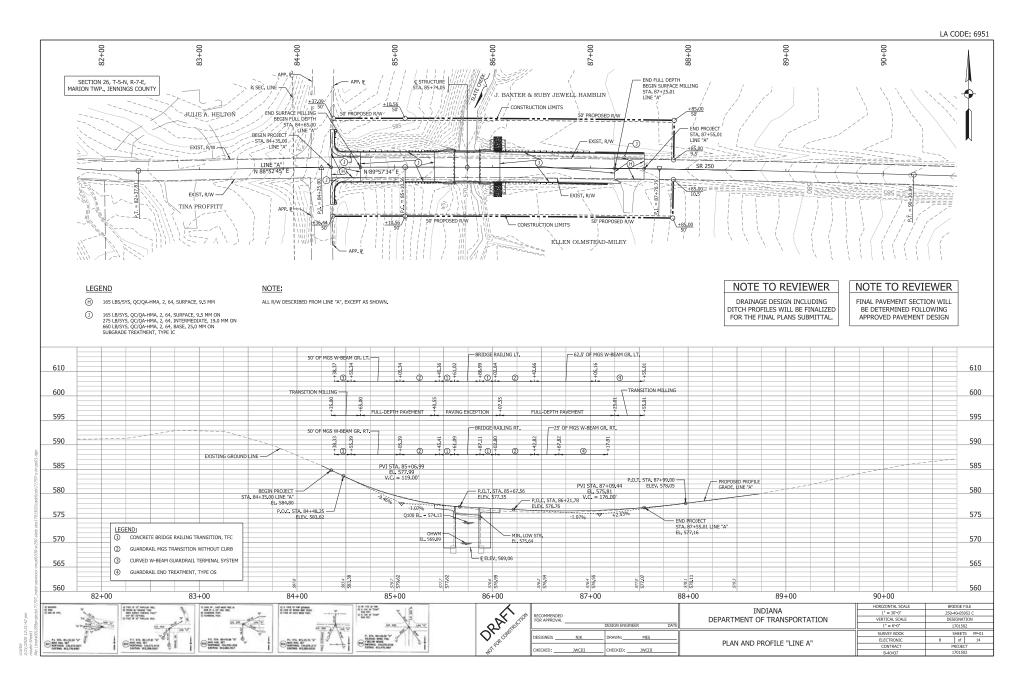


Delineated Streams Reacquired Right-of-Way				Figure 5	: Proposed Right-of-Way Map SR 250 over Slate Creek Superstructure Replacement Jennings County, Indiana
New Right-of-Way				Des. No. 1701502	HNTB
	0	25	50 Feet	1 inch = 50 feet	Graphics created by HNTB Corporation (2020)



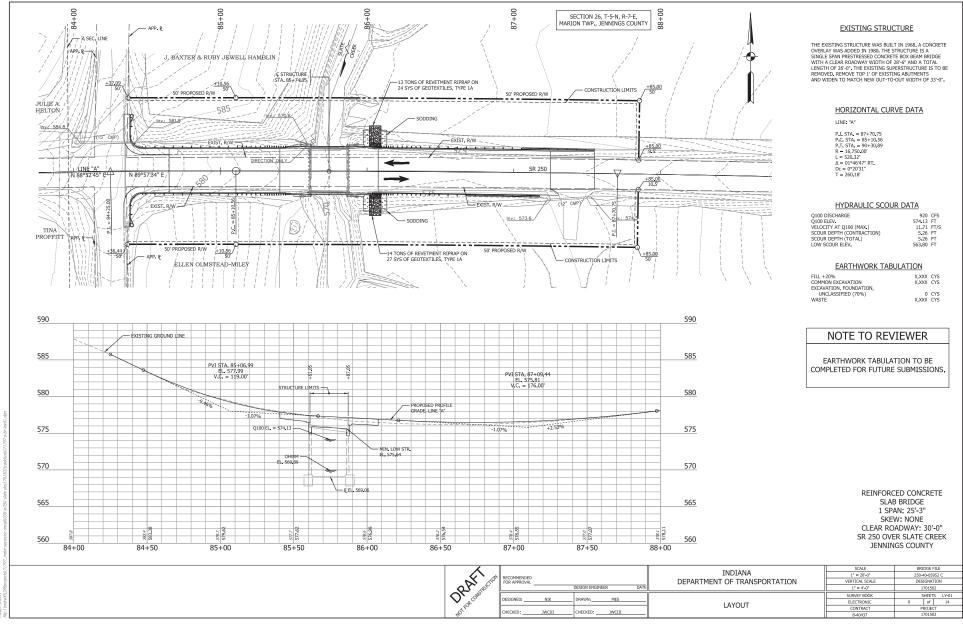






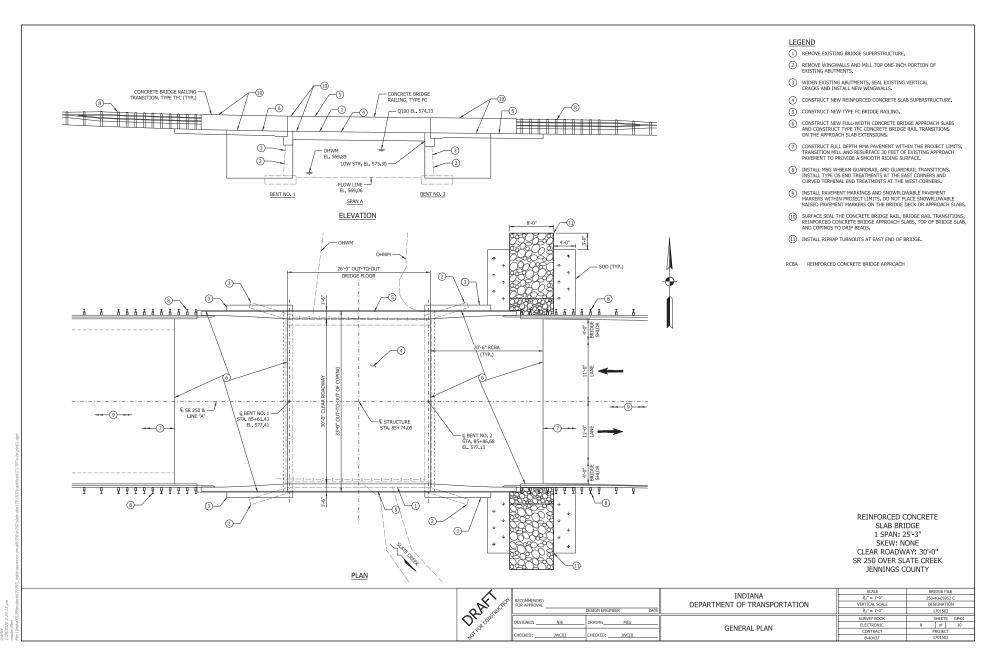
Des. No. 1701502

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