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

Road I	No./County:	State Road (SR) 66/Spe	encer County	
Design	nation Number(s):	2100830 and 2100831		
Projec Descri	t ption/Termini:	.00 Mile East of the West Junction nction with SR 161		
X	Categorical Exclusion,	Level 2 – Required Signatori	es: INDOT DE and/or IN	DOT ESD
	Categorical Exclusion,	Level 3 – Required Signatori	es: INDOT ESD	
	Categorical Exclusion,	Level 4 – Required Signatori	es: INDOT ESD and FHV	VA
	Environmental Assessn	nent (EA) – Required Signate	ories: INDOT ESD and FI	HWA
		n (AI) – The proposed action . Required Signatories must		from the original approved vironmental approval authority
Approv	val			
	IND	OT DE Signature and Date		INDOT ESD Signature and Date
	FI	HWA Signature and Date		
Release	e for Public Involveme		DE Initials and Date	INDOT ESD Initials and Date
		INDOI	DE lilitiais and Date	INDOT ESD lilitais and Date
Certific	cation of Public Involv	ement	INDOT Consultant	Services Signature and Date
			INDOT Consultant	Services Signature and Date
INDOT I	DE/ESD Reviewer Signature	and Date:		
Name an	d Organization of CE/EA P	eparer:	Cameron Ber	ry, ASC Group, Inc.

County	Spencer	Route SR 66	Des. No.	2100830, 2100831
		Part I – Public Involv	vement	
		aires some level of public involvement, providing for early a blic involvement should be commensurate with the prop		ughout the project development
	oes the project No, then:	t have a historic bridge processed under the Historic Bridge	s PA*?	No X
	Opportunity	for a Public Hearing Required?	X	
	hearing is red the ACHP.	nuired for all historic bridges processed under the Histori	c Bridges Programmatic Agree	ment between INDOT, FHWA,
purpose me	eetings, newsj	olvement activities (legal notices, letters to affected propert paper articles, etc.) have occurred for this project.	·	
them abo	ut the projec	ry letters were mailed to potentially affected property t and that individuals responsible for land surveying a cy/Entry letter is included in Appendix G (Appendix G	nd field activities may be see	n on July 25, 2023, notifying n in the area. A sample copy
Developm comment	nent Public I s and/or req	the minimum requirements described in the current involvement Procedures Manual which requires the process a public hearing. Therefore, a legal notice will applic involvement. This document will be revised after	roject sponsor to offer the pub opear in a local publication co	plic an opportunity to submit ontingent upon the release of
		sy on Environmental Grounds rsy concerning community and/or natural resource impact	ts, including what is being done	e during the project to minimize
At this tir	me, there is 1	no substantial public controversy concerning impacts	to the community or to natura	al resources.
D	art II (General Project Identification, Descr	intion and Dosign	Information
<u> </u>	<u> </u>	reneral Project Identification, Descri	iption, and Design	<u> </u>
Sponsor of	f the Project:	INDOT	INDO	District: Vincennes
Local Nan	ne of the Faci	ity: SR 66		
Fı	anding Source	(mark all that apply): Federal X State	X Local Other	*
*I	f other is sele	cted, please identify the funding source:		
PURPOS	SE AND NE	ED:		
		e the specific transportation problem or deficiency that the The solution to the traffic problem should NOT be discussed		pose should describe the goal or
The need 51.61 and present all in the wid	d CV 066-0° long the side dening beam	rect is based on poor condition and inadequate hydrau (74-51.62). The existing structures are showing signs walls and slabs on the inside of the structures. Modera and moderate leaching is visible on the abutment seat ardrails, which are present at the structures and alon	of deterioration with vertical te spalling with exposed corre at Structure No. CV 066-074	cracking and efflorescence oded reinforcement is visible -51.62. Delamination is also
	page 2 of 24	Project name: SR 66 Small Structures Replacem		November 13, 2024

County	Spencer		Route SR 66		Des. No.	2100830, 2100831
(poor), res numeric so (CV 066-	spectively, out of a cale, with 9 being	a possible 9. Per the excellent and 0 bein October 16, 2024 (INDOT Bridge (g failed. These co	Condition Rating Catego anditions for both struct	ories Table, str tures can be fo	tion ratings of 5 (fair) and 4 ructures are rated on a 0 to 9 rund in the October 24, 2019 orts and Hydraulic Memos
traffic on						andards, to ensure continued s to that of at least a 7 (good
PROJEC	T DESCRIPTIO	N (PREFERRED A	LTERNATIVE):		
County:	Spencer		Municipality:	Luce and Ohio Tow	vnships	
Limits of Pr	roposed Work:			it west of North (N) Cou of SR 66 along CR 500		2) 500 West (W) along SR
Total Work	Length:	0.15 Mile(s)		Total Work Area:	2.22	Acre(s)
If y 1 Describe loo deficiencies, the project y	res, when did the FH If an IAD is require approval of the IAD. cation of project in roadway description will meet the Purpos	d; a copy of the appro cluding township, ran on, surrounding feature e and Need. Logical te	ination of Engineer wed CE/EA docume ge, city, county, ro es, etc. Preferred au emini and independ	ternative should include the lent utility also need discus	ptability? D FHWA with a r ons should include scope of work ssed.	es¹ No X ate: request for final ude current conditions, current k, anticipated impacts, and how blacement project on SR 66.
	ct is located on S			of the west junction with		Sections 13, 14, 23, and 24, 3-2 to B-4).
This section minimal sl Payne Legrise and St Based on the efflorescent present along.	houlders. The exist all Drain. Structure tructure No. CV 0 the 2019 and 2024 are present along ong the guardrails	sting small structures re No. CV 066-074- 166-074-51.62 is a re Culvert Inspection the sidewalls and sl , which are present	carry SR 66 over 51.61 is a reinfor- inforced concrete Reports, the struc- abs on the inside at the structures	r unnamed tributaries (Used concrete box structure box structure measuring tures are showing signs to of the structures (App	JNTs) to Willoure measuring as 34-ft long, to of deterioration of deterioration adway. During	wide travel lanes bordered by ow Pond Ditch and James E. 34-ft long, 8-ft wide by 4-ft 8-ft wide by 2-ft 6-inch rise. on with vertical cracking and b I-32). Delamination is also g 100-year flood events, the agricultural.
The prefer along the S and the grobox (PCB) structure f	SR 66 roadway ovo bund will be filled culverts that mea for Structure No. 6	er UNTs to Willow I in and shaped to allo sure 66-ft long, 16- CV 066-074-51.61	Pond Ditch and Ja ow for proper drai ft wide by 4-ft ris will be relocated	mes E. Payne Legal Dra nage. The existing struct e each. The structures wa approximately 65-ft to	in. The existing tures will be rewill be sumped the west of the	1.61 and CV 066-074-51.62) ag structures will be removed eplaced with precast concrete 12-inches. The replacement ne existing structure and the east of the existing structure.
This is pa	age 3 of 24 Projec	et name: SR	66 Small Structures	Replacement Project	Date:	November 13, 2024

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Class I and revetment riprap will be placed over geotextile at the inlet and outlets of the replacement structures. Compacted aggregate will be added at the field entrance and removed upon the completion of construction. One sodded ditch and several seeded and revetment riprap ditches will be constructed for roadside drainage. A subgrade treatment and hot mix asphalt (HMA) overlay will be conducted on the approach pavement to accommodate the installation of the replacement structures.

The preferred alternative will require impacts to resources. The anticipated impacts include terrestrial habitat impacts, due to soil excavation as well as stream and wetland impacts from construction. Detailed information regarding these anticipated impacts can be found in the Identification and Evaluation of Impacts portion of this document. Measures have been incorporated at various stages of this project to avoid, minimize, or mitigate impacts to resources. These include measures to protect the stream from bank erosion due to scouring and excess downstream sedimentation, to protect the wetland from impacts due to excavation and construction access, and to protect terrestrial habitat from soil impacts due to excavation and construction access. Plans can be found in Appendix B (Appendix B: B-9 to B-27).

The project will meet the purpose and need by providing structurally adequate structures and ensuring continued traffic on SR 66 by improving overall condition ratings to that of at least a 7 (good condition) or greater. The new structures will meet current INDOT hydraulic design and prevent overtopping during a 100-year flood event. The total project length of 0.150 mile will extend between 35-ft and 135-ft from the SR 66 centerline. The termini were developed to be based on the work required to replace the small structures along the SR 66 roadway and will be limited to only what is required for construction and to satisfy the purpose and need. This project has independent utility because it does not rely on any other projects for completion.

The maintenance of traffic (MOT) for the project will require a road closure and a subsequent detour route utilizing SR 161, SR 62, SR 162, and US 231. Full details of the MOT can be found in the MOT During Construction section of this document and in Appendix B (Appendix B: B-11 to B-13).

OTHER ALTERNATIVES CONSIDERED:

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

The other alternatives that were considered for this project are listed in this section. Additional details regarding the following alternatives can be found in the Bridge Scoping Application Reports and Hydraulic Memos (Appendix I: I-33, I-40, and I-48 to I-57).

No Build

This alternative would have required doing no work to the existing small structures. While this alternative would have had no environmental impacts and no cost, it would not have improved the condition of the structures or roadway and would not have met the purpose and need. Therefore, this alternative has been dismissed from further consideration.

Pipe Arch and Elliptical Structure Replacements Alternative

This alternative would have required the replacement of the existing small structures with a pipe arch or an elliptical structure. The proposed replacement structures would have need to be sumped 6 inches. Additionally, a design exception would have been warranted for the replacement structures as a significantly larger structure would have been required to meet the roadway serviceability requirements. Due to the site constraints and design requirements, this alternative has been dismissed from further consideration.

Structure No. CV 066-074-51.61

10-ft by 5-ft Reinforced Concrete Box (RCB) Alternative

This alternative would have required the replacement of the existing small structure with a RCB culvert measuring 10-ft by 5-ft with a 12-inch sump. This alternative would not have met the INDOT serviceability freeboard requirement of 1-ft below the travel lane. This requirement ensures that additional capacity would be included in the structure design to account for flood events and to prevent water from overtopping the roadway. While this alternative would have met the purpose and need, the proposed structure lacked the freeboard design and would not have met the INDOT requirement. Therefore, this alternative has been dismissed from further consideration.

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County	Spencer	Route	SR 66	Des. No.	2100830, 2100831
This altern a 12-inch s and would	sump. While this alto have met the project	quired the replacement of the crnative would have met the	e INDOT serviceability ld have had additional	freeboard requiremen	t measuring 13-ft by 5-ft with t of 1-ft below the travel lane and higher costs. Therefore,
9-ft by 3-f This altern a 6-inch su This require from overt	amp. This alternative rement ensures that a copping of the roady design and would re	quired the replacement of the would not have met the I additional capacity is includivay. While this alternative	NDOT serviceability f led in the structure desi would have met the pu	reeboard requirement ign to account for floor urpose and need, the p	rt measuring 9-ft by 3-ft with of 1-ft below the travel lane. d events and to prevent water proposed structure lacked the been dismissed from further
This altern a 24-inch s however,	sump. This alternation no overtopping wo on would have requ	quired the replacement of the would not have met the luld have occurred. While	INDOT serviceability this alternative would	freeboard requirement d have met the purpo	t measuring 13-ft by 5-ft with of 1-ft below the travel lane; ose and need, the necessary been dismissed from further
The No Build Alternative is not feasible, prudent or practicable because (Mark all that apply): It would not correct existing capacity deficiencies; It would not correct the existing roadway geometric deficiencies; It would not correct existing deteriorated conditions and maintenance problems; or It would result in serious impacts to the motoring public and general welfare of the economy. Other (Describe):					
ROADWA	AY CHARACTER				
		ltiple roadways, complete and	duplicate for each roadw	vay.	
Current AD	Classification: T: r Volume (DHV):	SR 66 Rural – Principal Arterial 11,203 VPD (2020) 1,272 Truck Percenta 55 Legal Speed (n	6) Design Year AD age (%) 10.29	Т: <u>12,354</u> V	/PD (2046)
		Existing	Proposed		
Typ Pav Sho Me Sid	mber of Lanes: pe of Lanes: rement Width: pulder Width: dian Width: ewalk Width: ting: pography:	2 Through land 12 ft. ft.		2 hrough lanes ft. ft. ft. ft. ft. Hilly	
This is pa	nge 5 of 24 Project r	name: SR 66 Small S	tructures Replacement Pr	oject Date:	November 13, 2024

	Indiana Department of Transportation					
County	Spencer		Route SR 66		Des. No. 2100830,	, 2100831
BRID	GES AND/OR SMALL	STRUCTURE	S):			
	oposed action includes multi	•	*	hridge and/or small s	structure Include both e:	xisting and proposed
	and/or small structure(s)		prese and aupticate for each	ortage and or small	ni neture. Include oom es	usung una proposea
Structur	re/NBI Number(s):	CV 066-074-51.6	51 S	ufficiency Rating:	N/A	
					(Rating, Source	of Information)
		Existing		Proposed		
	Bridge/Structure Type:	34-ft long	g, 8-ft wide by 4-ft rise	66-ft long, 16-ft	wide by 4-ft rise	
			RCB structure		tructure	
	Number of Spans:		N/A	· · · · · · · · · · · · · · · · · · ·	[/A	
	Weight Restrictions:	N/A	ton	N/A ton		
-	Height Restrictions: Curb to Curb Width:	N/A	ft.	N/A ft.		
	Outside to Outside Width:	N/A	ft. ft.	N/A ft.		
-	Shoulder Width:	N/A	ft.	1 1/1 1		
L	Shoulder width:	N/A	11.	N/A ft.		
Structu	re/NBI Number(s):	CV 066-074-51.6	52 S	ufficiency Rating:	N/A	
Stractar	- Control (a).	2 7 000 074 51.0		arrierency rading.		of Information)
					(
-		Existing		Proposed		_
	Bridge/Structure Type:		ng, 8-ft wide by 2-ft 6-ind		6-ft wide by 4-ft rise	
		1	rise RCB structure	PC	CB structure	_
	Number of Spans:		N/A		N/A	
_	Weight Restrictions:	N/A	ton	N/A ton		
_	Height Restrictions:	N/A	ft.	N/A ft.		
	Curb to Curb Width:	N/A	ft.	N/A ft.		
_	Outside to Outside Width:	N/A	ft.	N/A ft.		
L	Shoulder Width:	N/A	ft.	N/A ft.		
Describe	e impacts and work involvin	g bridge(s), culver	rt(s), pipe(s), and small stru	cture(s). Provide deta	ails for small structure(s): structure number.
	e (length and dia.), location					
page, pu	t it in the appendix and sum	marize the inform	ation below with a citation i	to the table.		
	are two culverts present v					
	by 4-ft rise and Structure					
	res are the focus of the pro					
	the Bridge Scoping Apres will be removed and					
	ement structures will be 6					be relocated. The
тергаес	ment structures will be o	o-it long, 10-it v	vide by 4-it lise reinforce	d concrete box sur	ctures.	
No oth	er bridges or small struct	ures are located	within the project area.			
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Version: December 2021

SR 66 Small Structures Replacement Project Date: November 13, 2024

Is a temporary bridge proposed? Is a temporary roadway proposed? Will the project involve the use of a detour or require a ramp closure? (describe below) Provisions will be made for access by local traffic and so posted. Provisions will be made for through-traffic dependent businesses. Provisions will be made to accommodate any local special events or festivals. Will the proposed MOT substantially change the environmental consequences of the action? Is there substantial controversy associated with the proposed method for MOT? Will the project require a sidewalk, curb ramp, and/or bicycle lane closure? (describe below). Provisions will be made for access by pedestrians and/or bicycles and so posted (describe below). Discuss closures, detours, and/or facilities (if any) that will be provided for maintenance of traffic, Any known impacts from these temporary measures should be quantified to the extent possible, particularly with respect to properties such as Section 4(f) resources and wedlands. Discuss any pedestrianbicycle closures. Any local concerns about access and raffic flow should be detaited as well. The MOT for the project will require a road closure and detour route utilizing SR 161, SR 62, SR 162, and US 231. The MOT will be in place for 6 to 8 months. The MOT plan can be found in Appendix B (Appendix B: B-12 to B-14). Access to all properties will be maintained during construction. The closures will pose a temporary inconvenience to traveling motorists (including school buses and emergency services); however, no significant delays are anticipated, and all inconveniences and delays will cease upon project completion. ESTIMATED PROJECT COST AND SCHEDULE: Engineering: \$ 246,000 (2022) Right-of-Way: \$ 40,000 (2026) Construction: \$ 1,748,000 (2026) Anticipated Start Date of Construction: Summer 2026
Is a temporary bridge proposed? Is a temporary roadway proposed? Will the project involve the use of a detour or require a ramp closure? (describe below) Provisions will be made for access by local traffic and so posted. Provisions will be made for through-traffic dependent businesses. Provisions will be made to accommodate any local special events or festivals. Will the proposed MOT substantially change the environmental consequences of the action? Is there substantial controversy associated with the proposed method for MOT? Will the project require a sidewalk, curb ramp, and/or bicycle lane closure? (describe below) Provisions will be made for access by pedestrians and/or bicyclist and so posted (describe below). Discuss closures, detours, and/or facilities (if any) that will be provided for maintenance of traffic. Any known impacts from these temporary measures should be quantified to the extent possible, particularly with respect to properties such as Section 4(f) resources and wetlands. Discuss any pedestrian/bicycle closures. Any local concerns about access and traffic flow should be detailed as well. The MOT for the project will require a road closure and detour route utilizing SR 161, SR 62, SR 162, and US 231. The MOT will be in place for 6 to 8 months. The MOT plan can be found in Appendix B (Appendix B: B-12 to B-14). Access to all properties will be maintained during construction. The closures will pose a temporary inconvenience to traveling motorists (including school buses and emergency services); however, no significant delays are anticipated, and all inconveniences and delays will cease upon project completion.
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Engineering: \$ 246,000 (2022) Right-of-Way: \$ 40,000 (2026) Construction: \$ 1,748,000 (2026)
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County	Spencer	Route SR 66	Des. No21	00830, 2100831
				

RIGHT OF WAY:

Amount (acres)				
Land Use Impacts	Permanent	Temporary		
Residential	0	0		
Commercial	0	0		
Agricultural	2.169	0		
Forest	0	0		
Wetlands	0.054	0		
Other:	0	0		
Other:	0	0		
TOTAL	2.223	0		

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

The existing right-of-way (ROW) was originally described as varied between 30 ft and 60 ft along the south side of the SR 66 centerline and between 40 ft and 60 ft along the north side of the SR 66 centerline throughout the project area. However, based on coordination with INDOT, the existing ROW was determined to be the existing edge of pavement, which varies between 12 ft and 14.5 ft from the SR 66 centerline. The existing ROW consists of the roadway pavement along SR 66.

The project requires approximately 2.223 acres of permanent ROW from agricultural lots and wetlands north and south of the SR 66 roadway, which will extend the ROW to 35–135 ft north and south of the SR 66 centerline at the project location only. No temporary ROW will be required for this project.

During project development, the ROW amount was revised from a maximum of 2.0 acres of permanent ROW and no temporary ROW to 2.223 acres of permanent ROW and no temporary ROW. Due to the minor increase in ROW and no additional properties being impacted, INDOT ESD determined that no re-coordination letters were needed.

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

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

SECTION A - EARLY COORDINATION:

List the date(s) coordination was sent and all resource agencies that were contacted as a part of the development of this Environmental Study. Also, include the date of their response or indicate that no response was received.

Early coordination letters were sent on January 23, 2024, and July 29, 2024 (Appendix C: C-2 to C-5). Additional coordination letters were sent on December 21, 2023.

During project development, the ROW amount was revised from a maximum of 2.0 acres of permanent ROW and no temporary ROW to 2.223 acres of permanent ROW and no temporary ROW. Due to the minor increase in ROW and no additional properties being impacted, INDOT ESD determined that no re-coordination letters were needed.

Agency	Date Sent	Date Response Received	Appendix
Indiana Geological and Water Survey (IGWS) (Completed online via the website)	December 21, 2023	December 21, 2023	Appendix C: C-6 to C-8

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Indiana Department of Natural Resources-Division of Fish and Wildlife (IDNR-DFW)	January 23, 2024	February 22, 2024	Appendix C: C-10 to C-11
U.S. Department of Housing and Urban Development	January 23, 2024	No response received	N/A
INDOT Vincennes District – Environmental Services Division	January 23, 2024	January 24, 2024	Appendix C: C-9
INDOT Vincennes District – Project Manager	January 23, 2024	No response received	N/A
Spencer County Council Members	January 23, 2024	No response received	N/A
Spencer County Commissioner Members	January 23, 2024	No response received	N/A
Spencer County Highway Supervisor	January 23, 2024	No response received	N/A
Spencer County Surveyor	January 23, 2024	No response received	N/A
North Spencer County School District	January 23, 2024	No response received	N/A
Spencer County Health Department	January 23, 2024	No response received	N/A
Spencer County Fire Department	January 23, 2024	No response received	N/A
Spencer County Sheriff's Office	January 23, 2024	No response received	N/A
Spencer County EMS Rockport Station	January 23, 2024	No response received	N/A
IDNR Division of Oil and Gas RE: Red Flag Investigation (RFI) Coordination – Petroleum well	January 23, 2024 and August 16, 2024	No response received	N/A
Indiana Department of Environmental Management (IDEM) Wellhead	July 29, 2024	August 6, 2024	Appendix C: C-40 to C-42
Natural Resources Conservation Service (NRCS)	July 29, 2024	August 2, 2024	Appendix C: C-38 to C-39
INDOT Office of Aviation	July 29, 2024	July 31, 2024	Appendix C: C-37
Evansville Water Utility RE: Wellhead Protection Area	August 7, 2024	August 7, 2024	Appendix C: C-43 to C-44
Reo Water RE: Public Water System	August 21, 2024	No response received	N/A

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

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County	Spence	r		Rou	te SR 66		Des. 1	No. 2100830,	2100831
SECTIO	N B – EC	COLOGIC	CAL RE	SOURCES:					
Sti	Federal State Na Nationw Outstand	Wild and Stural, Scer	Scenic Riv nic or Rec Inventor s List for	reational Rivers y (NRI) listed	ional Features		<u>Presence</u> X	Yes X	No
Total streamarea:	m(s) in pro	oject	1,039 (constru		near feet T	otal impacted str	eam(s): <u>5</u>	73	Linear feet
Stream	Name	Classifi	cation	Total Size in	Impacted	Comments (i.e	e., location, flo	w direction, like	ely Water of the

Stream Name	Classification	Total Size in Project Area (linear feet)	Impacted linear feet	Comments (i.e., location, flow direction, likely Water of the US, appendix reference)
UNT to Willow Ditch	Intermittent	1,039	484*	Flows north to south under Structure No. CV 066-074-51.62, east of N CR 500 W, and terminates at Wetland B; Likely Water of the U.S. (WOTUS) (Appendix F: F-21 to F-22)
James E. Payne Ditch	Intermittent	100	89	Begins at the southern outlet of Structure No. CV 066-074-51.62, east of N CR 500 W, and flows north to south, continuing offsite to the south.

Note: See text regarding James E. Payne Ditch to coincide with the asterisk in the table.

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

Based on the desktop review, the aerial map of the project area (Appendix B: B-4), and the RFI report (Appendix E: E-2 to E-10), there are no streams, rivers, watercourse, or other jurisdictional features mapped within the 0.5-mile search radius. There are no streams, rivers, watercourse, or other jurisdictional features mapped within or adjacent to the project area. That number was updated to one stream segment present within the project area by the site visit on September 14, 2023, by ASC Group, Inc. No Federal, Wild and Scenic Rivers; State Natural, Scenic, and Recreational Rivers; Outstanding Rivers for Indiana; navigable waterways or National Rivers Inventory waterways are present in or adjacent to the project area.

A Waters of the U.S. Determination / Wetland Delineation Report was approved by INDOT Ecology, Waterway Permitting, & Stormwater Office (EWPSO) on February 22, 2024. Please refer to Appendix F (Appendix F: F-2 to F-67) for the Waters of the U.S. Determination / Wetland Delineation Report. It was determined that one intermittent stream, UNT to Willow Pond Ditch, and one roadside ditch (RSD 1) are present within the project area. The UNT to Willow Pond Ditch, is located within the eastern half of the project area along the north side of the SR 66 roadway and is a moderate to low quality, intermittent stream that flows east to west and has an ordinary high-water mark (OHWM) of 6.42-ft wide and 0.96-ft deep. Riffles/pools were not present within the stream. The substrate consisted of sand, silt, and gravel. The stream is likely a WOTUS. There was one roadside ditch, RSD 1, within the project area. The roadside ditch is located within the western half of the project area along the southern side of the SR 66 roadway and did not display a clearly-defined OHWM or streambed and is not considered a stream. The roadside ditch is considered non-jurisdictional, artificial roadside drainage feature. The U.S. Army Corps of Engineers (USACE) makes all final determinations regarding jurisdiction.

After the approval of the Waters report, it was determined that the James E. Payne Ditch is a legal drain that is within the southeast quadrant of the project area (Appendix B: B-22). It located in the area with Wetland C (Appendix F: F-21 to F-22).

The project will require impacts to the waterway due to work within UNT to Willow Pond Ditch and James E. Payne Ditch. Specifically, work will include the relocation of the stream and legal drain, which includes 60 ft for the stream to accommodate the replacement structures. Measures have been incorporated at various stages of this project to avoid, minimize, or mitigate impacts.

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County	Spencer	Route	SR 66		Des. No.	2100830, 2100831
design and organisms (0.7323 ac Payne Dite CV-066-0 Approxim Payne Dite stream and to Willow install the	I grading parame, and riprap design, and riprap design. The control of total pernich (89 linear ft (474-51.62) as well at the second linear character of the second linear personal design. The replacement structure of the second linear structure of	protect the stream from bank eters to protect the natural streating measures to protect low-flow nanent impacts are expected to 0.0123 acre)) from the excavatil as the regrading, installation, aft (0.7131 acre) of total tempor cation of the stream and ditch, cation amount to 573 linear ft (0 ese impacts are unavoidable beauture. Mitigation will be determed act permits will likely be required.	m channel, mean ow areas and had the UNT to Which associated relocation of arry impacts are of which 424 lide 0.732 acre) and decause this work mined during pe	asures to protect abitat for aquati illow Pond Dite ated with the rer f the UNT to Wil expected to the near ft overlap of 1,180.96 cubic y is required to a rmitting, but is a	the passage of corganisms. It (484 linear moval of the standard points of the with permanent ands of impact remove the expectation of anticipated	f wildlife and fish or aquatic Approximately 573 linear ft ft (0.72 acre)) and James E. mall structure (Structure No. ch and James E. Payne Ditch. ow Pond Ditch and James E. nt impacts. Impacts from the its below the OHWM of UNT isting small structure and to lat this time. IDEM 401 and
passage the width); to low-flow obtanical infollow guinot work	arough the crossi maintain the natu conditions that an resources to the delines for work	th a signed letter on February ng structure; to ensure the cultural stream substrate within the re approximate to those in the ngreatest extent possible; to comin riparian habitat; to not deposit way from April 1 through June 1).	vert spans the e structure; to hav atural stream ch apensate for imp sit or allow cons	ntire channel wive stream depth, nannel; to avoid a pacts; to follow a pacts; to follow a pacts:	idth (a minimuchannel width and minimize guidelines for tion materials	am of 1.2 times the OHWM a, and water velocities during impacts to fish, wildlife, and erosion control measures; to to enter the waterway; and to
All applica	able recommend	ations are included in the Envir	onmental Comn	nitments section	of this CE do	cument.
	Other:	tion Basin nagement Facilities		Presence		No
will occur to		re(s) identified adjacent or within t tified. Include if features are likely				
Based on there are n area, whice A Waters refer to A	the desktop review of open water feath was confirmed of the U.S. Determined ppendix F (App	ew, the aerial map of the projectures mapped within the 0.5-mil by the site visit on September emination / Wetland Delineation endix F: F-2 to F-67) for the later features are within or adjaction.	e search radius. 14, 2023, by AS n Report was ap Waters of the	There are no ope SC Group, Inc. To proved by IND U.S. Determinat	en water featur Cherefore, no in OT EWPSO of tion / Wetland	res mapped within the project mpacts are expected. on February 22, 2024. Please <i>Delineation Report</i> . It was
	age 11 of 24 Pro	vject name: SR 66 Small S	tructures Replace	ment Project	Date:	November 13, 2024

County Spend	cer	_	Route SI	R 66	Σ	Des. No. 2100830, 2100831
Wetlands				<u>I</u>	Presence X	Yes No
Total wetland area:	-	0.178	Acre(s)	Total wetland area im	pacted:	0.054 Acre(s)
(If a determination	has not been made	for non-isolate	d/isolated wetla	ands, fill in the total wetla	and area impa	acted above.)
Wetland No.	Classification	Total Size (Acres)	Impacted Acres	Comments (i.e., location	on, likely Wa	ater of the US, appendix reference)
Wetland A	PEM1B	0.025	0.013	Located in southwes 21)	st quadrant,	Likely a WOTUS (Appendix F: F-
Wetland B	PEM1B	0.135	0.034	Located in northwes 21)	t quadrant,	Likely a WOTUS (Appendix F: F-
Wetland C	PEM1C	0.018	0.007	Located in southeast to F-22)	t quadrant, l	Likely a WOTUS (Appendix F: F-21
			De	ocumentation		ESD Approval Dates
Wetlands	(Mark all that appl	(y)				
	nd Determination			X		ruary 22, 2024
	nd Delineation			X	Feb	ruary 22, 2024
USAC	EE Isolated Waters	Determination				
Substi Substi Uniqu Substi The p Describe all wetland the features identificity impacts will occur.	Improvements that will not result in any wetland impacts are not practicable because such avoidance would result in (Mark all that apply and explain): Substantial adverse impacts to adjacent homes, business or other improved properties; Substantially increased project costs; Unique engineering, traffic, maintenance, or safety problems; Substantial adverse social, economic, or environmental impacts, or The project not meeting the identified needs. Describe all wetlands identified adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if features are likely subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if					
there are no wetla That number was Inc.	ands mapped with updated to three	in the 0.5-mil wetlands pre	le search radiu sent within th	ss. There are no mappe e project area by the s	d wetlands ite visit on	FI report (Appendix E: E-2 to E-10), within or adjacent to the project area. September 14, 2023, by ASC Group,
refer to Appendi determined that the Wetland A narrowleaf Wetland B narrowleaf Wetland C rice cutgras Wetlands A—C ar Pond Ditch. Due	x F (Appendix F hree poor quality is a 0.025-acre w cattail (<i>Typha an</i> is a 0.135-acre w cattail (<i>Typha an</i> is a 0.018-acre w ss (<i>Leersia oryzon</i> re part of the drain to a direct connect	etlands (We etland located agustifolia) an etland located agustifolia) an etland located agustifolia) an etland located agustifolia) and etland located agustifolia and wing age adjacent etion to an RF	7) for the Wa etlands A-C) a at the southw d rice cutgras at the northw d swamp mill l at the souther gstem (Verbes to SR 66, wh W, it is likely	ters of the U.S. Deter are present within the p rest quadrant of the proj s (Leersia oryzoides). est quadrant of the proj weed (Asclepias incar ast quadrant of the proj sina alternifolia). ich discharges into and	mination / project area ject area. Do ject area. Do rnata). ject area. Do other relative all likely	WPSO on February 22, 2024. Please Wetland Delineation Report. It was cominant species in Wetland A include cominant species in Wetland B include cominant species in Wetland C include rely permanent water (RPW), Willow WOTUS and under the jurisdictional

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County Spencer	Route SR 66	Des. No2	2100830, 2100831
The project will require impacts to the the project includes all practicable macre (131.3 cubic yards) of permanent temporary impacts are expected. Impainclude the use of erosion control bla plans and marked as "Do Not Disturb in the Commitments section of this Compacts. If any unexpected impacts of document will constitute approval of the IDNR-DFW responded with a signed	easures to minimize harm to weth that impacts to the wethands from the acts will be minimized to only who nkets and filter socks to protect the Outside of Construction Limits" CE document. A Section 404/401 accur during construction, coordinate the adverse impacts to wethands.	lands which may result from such use relocation of the roadside swales at is required for project construction the existing wetlands. Wetlands A–(Appendix B: B-XX). This is included Permit is anticipated as a result on action will occur with INDOT ESD	ase. Approximately 0.054 and use of clean fill. No n. Minimization measures C will be included on the ded as a firm commitment of the anticipated wetland p. FHWA approval of this
wildlife, and botanical resources to the measures, and to follow guidelines for	e greatest extent possible, to com	pensate for impacts, to follow guid	
All applicable recommendations are in	ncluded in the Environmental Con	mmitments section of this CE docum	nent.
Terrestrial Habitat		Presence Impacts Yes M X X	No
Total terrestrial habitat in project area:	2.41 Acre(s)	Total tree clearing: N/A	Acre(s)
Describe types of terrestrial habitat (i.e., impacts will occur to habitat identified. Imminimize, and mitigate if impacts will occur. Based on a desktop review, a site visit. B: B-4), there are agricultural lands angustifolia), rice cutgrass (Leersia milkweed (Asclepias incarnata), John alternifolia), silver maple (Acer sac dichotomiflorum). No tree trimming or removal will occur and wetlands north and south of the Shabitat. Measures have been incorpor measures to protect terrestrial habitat from suitable habitat to protected bat species structures along the SR 66 roadway. Measures to protect the structures along the SR 66 roadway. Measures to protect the structures along the SR 66 roadway. Measures than the 1-acre threshold. IDNR-DFW responded with a signed areas with native species, to minimize only what is necessary for the structure.	clude total terrestrial habitat impacted or. To on September 14, 2023, by ASC within the project area. The decoryzoides), rough cocklebur (Xason grass (Sorghum halepense), techarinum), hophornbeam copped or. The project requires approximated at various stages of this program soil impacts due to excavations. These impacts are unavoidable Mitigation is not anticipated. Apprimit, formerly known as the Rule of the end contain within the project are removals (Appendix C: C-10 to the end of the	Group, Inc., and the aerial map of the period of the perio	the project area (Appendix marrowleaf cattail (<i>Typha</i> (<i>Setaria faberi</i>), swamp (<i>Setaria faber</i>
All applicable recommendations are in This is page 13 of 24 Project name:	SR 66 Small Structures Repla		November 13, 2024

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		1	,	1				
County	Spencer	Route	SR 66		Des. No	2100830,	2100831	
	Protected Species							
	Federally Listed Bats				Yes	_	No	
		anning and Consultation (IPaC) de	•	-	X			
		consultation completed (IPaC car	_)			X	
	Section 7 formal c	onsultation Biological Assessment	t (BA) required				X	
	Determination Received	d for Listed Bats from USFWS:	NE		NLAA X	LAA		
	Other Species not incl				Yes	_	No	
		species found in project area (base			X			
	State species (not l	pird) found in project area (based u	upon consultation	with IDNR)			X	
	Migratory Birds				Yes	_	No	
		resence of birds (i.e., nests)					X	
	State bird species l	pased upon coordination with IDN	TR.				X	
long-eare	ed bat impacts. Discuss	species identified. Describe USFW if other federally listed species wo tratory birds have been observed o	ere identified. If so					
IDNR S coordin been ch occur in	Spencer County Enda ation response letter ecked and to date, no the project vicinity.	and the RFI report (Appendix ngered, Threatened and Rare (signed on February 22, 2024 (Applant or animal species listed An INDOT 0.5-mile bat review within 0.5 mile of the project a	ETR) Species L Appendix C: C-1 as state or federa w occurred on So	ist has been of 10 to C-11), to ally threatence	checked. According the Natural Hered, endangered	rding to the litage Progra , or rare have	DNR-DFW m's Databa e been repor	early early se has
Project Consult federall	ation (IPaC) portal, a y endangered Indiana	Long-Eared Bat ibmitted through the U.S. Find an official species list was bat (<i>Myotis sodalis</i>) and north pecies list along with the India	generated (Appe ern long-eared b	endix C: C-12 oat (NLEB) (/	to C-22). The Myotis septentr	project is wind project is with project is with the project is with the project in the project is with the	ithin range	of the
(NLEB) Admini noted at the resp (Appen of the fit	, dated May 2016 (stration (FTA), and the time of inspectionses provided, the dix C: C-23 to C-35) nding. No response ving. Avoidance and M	e Range-wide Programmatic A frevised February 2018), betw USFWS. A culvert inspection on (Appendix C: C-36). An efforoject was found to "may affer INDOT reviewed and verified was received from USFWS with Minimization Measures (AMM uded as firm commitments in the	veen FHWA, F occurred on Se eet, determination eet, but is not like the effect finding in the 14-day re s) for this project	ederal Railro ptember 14, on key was co ely to advers ing on Octob- view period; et include: Ge	oad Administrace 2023, and no completed on Oallely affect" the er 16, 2023, and therefore, it we meral AMM 1	ation (FRA) evidence of ctober 14, 20 Indiana bat d requested as concluded and Lighting	Federal T birds or bat 023, and bas and/or the I USFWS's r they concu AMM 1. A	Transit ts was sed on NLEB eview or with
subflave bat is lis experim listed en is not re visit con	as), whooping crane (sted as an endangered nental population, no adangered species. The equired. No impact is anducted by ASC Grounds.	erated from IPaC indicated for (Grus americana), and monard species. The tricolored bat is n-essential species. The mona ne project qualifies for the most expected as documented habitup, Inc. on September 14, 2023 narily roadway and agricultural	ch butterfly (<i>Dan</i> listed as propose rch butterfly is at current INDO tat is not listed by did not note the	naus plexippu ed endangered listed as a ca T/USFWS ag within or adj	ds)) present with d species. The andidate species greement. Furth acent to the present acent	thin the project whooping cress for inclusioner coordinates oject area. F	ect area. The rane is listed ion as a fed tion with US urthermore,	e gray l as an lerally SFWS a site
If new i		orther consultation on this projection gered species at the site become						

SR 66 Small Structures Replacement Project Date: November 13, 2024

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County	Spencer	Route SR 66		Des. No.	2100830, 2100831
	Oil/gas or exploration/ab		a	Yes X	No X X
Discuss if presponse re Include disc during Plan	project is located in the Inceived from IGWS coording cussion of karst study/repor nning and Construction guid	diana Karst Region and if any karst featu tion. Discuss if any mines, oil/gas, or expl t was completed and results. (Karst invest dance and coordinated and reviewed by IN Indiana Karst Region map, the project	oration/abandoned well igation must comply wit DOT EWPO)	s were ident h the curren	ified and if impacts will occur. at Protection of Karst Features
in the mo project ar to the pro project ar resources the project plugged v January 2	est current <i>Protection of</i> ea (Appendix B: B-3) and ject area. In the early cochea (Appendix C: C-6 to and low potential for sand tarea. The RFI report stawell that is located adjact 3, 2024, and August 16,	Karst Features during Project Developed the RFI report (Appendix E: E-2 to Erdination response dated December 21 C-8). IGWS stated that there is a high and gravel resources. IGWS indicated that there are five petroleum wells went to the project area. An early coor 2024. No response was received within December 21, 2023. No impacts are	pment and Construct10), there are no kars, 2023, IGWS did not liquefaction potential ed that there are petro within the 0.5 mile sea dination letter was sea the 30-day time fram	st features is indicate the There is a leum explored radius a ent to IDN	ding to the topo map of the identified within or adjacent nat karst features exist in the a high potential for bedrock oration wells documented in and that there is a presumed-R Oil and Gas Division on
SECTIO	N C – OTHER RESOU	RCES			
SECTIO	IV C - OTHER RESOC	KCES			
Di	rinking Water Resources Wellhead Protection Are Source Water Protection Water Well(s) Urbanized Area Boundar Public Water System(s)	Area(s)	Presence X X	Yes	No X X
Is		. Joseph Sole Source Aquifer (SSA): A SSA MOU Applicable? Assessment Required?		Yes	No X
		ss each topic below. Provide details about rence responses in the Appendix.	timpacts and summarize	e resource-s _j	pecific coordination responses
The proje designate Source A	d sole source aquifer in t	County, which is not located within the he state of Indiana. Therefore, the FH Understanding (MOU) is not applicabed.	WA/Environmental P	rotection A	Agency (EPA)/INDOT Sole
The IDE	r 21, 2023, by ASC Grou	ource Water y Determinator website (http://www.py.lnc . This project is not located with			

This is page 15 of 24 Project name:

County	Spencer	Route SF	R 66	Des. No	. 2100830, 2100831
negative in equipment be called a (Appendix will not be	27, 2024. Evansville Water and Sewen pact on the water quality for Evansvil and made its way into the waterways at 888-233-7745 or 317-233-7745 and a C: C-43 to C-44). This is included as a affected because the project will only project area. No impacts are expected	le. The only p . If an event a notification a a firm comm involve worl	ootential impact was such occurred, should occur to the itment in the Com	ould be if a chemical sp then IDEM's 24-Hour e Evansville Water Fil mitments section of th	bill occurred from construction Emergency Spill Line should tration Plant at 812-428-0568 is CE document. The features
	ells Water Well Record Database website p, Inc. No water wells are located nea				sed on December 21, 2023, by
Based on a	ea Boundary a desktop review of the INDOT MS4 project is not located in an Urban Area				Group, Inc. on December 21,
Based on a B: B-4), th will not in	ater System a desktop review, a site visit on Septen a project is located where there is a provolve any work impacting water utilit by 2024, to Reo Water. No response was	ublic water sy ies within or	stem. The public surrounding the p	water system will not b roject area. An early c	be affected because the project oordination letter was sent on
	Project located within a regulated floodp Longitudinal encroachment Transverse encroachment Homes located in floodplain within 1,000		am from project	Presence Y	Impacts es No
	plicable, indicate the Floodplain Level?				
Use the IDN the classification consistency. The IDNR 2023, by A (Appendix	Level 2 TR Floodway Information Portal to help de ation system. If encroachment on a flood p with the local flood plain planning. The Indiana Floodway Information Port ASC Group, Inc. This project is not located from the second field. The February of the second field from the second from the	lain will occur al website (<u>h</u> ated in a regu	ttp://dnrmaps.dnr.	floodplain map in append the Local Flood Plain Adminingov/appsphp/fdms/) as determined from app	was accessed December 21, proved IDNR floodplain maps
CFR. No i	mpacts are expected.				
Far	r mland Agricultural Lands Prime Farmland (per NRCS)			Presence X X	Yes No X X
	Total Points (from Section VII of CPA-106 160 or greater, see CE Manual for guidance.	/AD-1006*)	158		
Based on a B: B-4), th	ting farmland resources in the project area desktop review, a site visit on Septen project will convert 2 acres of farm I July 29, 2024, to NRCS. Coordinati	nber 14, 2023 land as define	, by ASC Group, I ed by the Farmlan	nc., and the aerial map d Protection Policy Ac	of the project area (Appendix t. An early coordination letter
This is pa	nge 16 of 24 Project name: SR 6	66 Small Struct	ures Replacement P	roject Date:	November 13, 2024

County Spencer	Route SR	66	Des. No. 2100830, 2100831
to C-39). The NRCS form s 2.169 acres of farmland to a		farmland will be co	nverted, while the permanent ROW will convert
score is less than the thresh	old, no significant loss of prime,	unique, statewide,	ideration of alternatives is 160. Since this project or local important farmland will result from this ll be investigated without reevaluating impacts to
SECTION D – CULTURA	L RESOURCES		
Minor Projects PA	Category(ies) and Type(s) Category B, Type 9		INDOT Approval Date(s) N/A October 17, 2024
Full 106 Effect Finding No Historic Proper		erse Effect	Adverse Effect
Eligible and/or Listed I NRHP Building/Sit		ology	NRHP Bridge(s)
800.11 Documentat Historic Properties Archaeological Rec Archaeological Pha	A Effect Determination ion Report or Short Report ords Check and Assessment se Ia Survey Report se Ic Survey Report	X October 18 MOA Signat	3, 2024
106, use the headings provided. indicate the publication date, na at a later date, such as mitigation	The completion of the Section 106 prome of the paper(s) and the comment pent from a MOA or avoidance commitment.	ocess requires that a l riod deadline. Include ents.	l any approval dates. If the project requires full Section Legal Notice be published in local newspapers. Please any further Section 106 work which must be completed
B, Type 9 under the Minor II A Category B, Type 9 projection installation, replace and an archaeological does not involve in including but not retaining walls due Archaeology: An archaeology report which were recorded within the second	Projects Programmatic Agreement (et is defined as the following: ement, repair, lining, or extension of eal investigation would be conduct astallation of a new culvert and other imited to historic brick or stone to the structure exhibiting no wood h was submitted to INDOT on Fel	(MPPA) (Appendix f culverts and other of ed or her drainage structu sidewalks, curbs or d, stone, or brick stru- bruary 13, 2024. No gical assessment is	drainage structures in previously undisturbed soils re, and there are no impacts to unusual features, curb ramps, stepped or elevated sidewalks and actures or parts therein. The artifacts were found and no archaeological sites recommended. The cover page, summary, and
This is page 17 of 24 Projection	ect name: SR 66 Small Structu	res Replacement Proje	cct Date: November 13, 2024

County	Spencer	Route SR 66	De	es. No. 2100830, 2100831	_
	consultation is required. This complete	es the Section 10	process and the responsibilit	ies of the FHWA under Sect	ion 106
have been	Tumned.				
SECTION	N E – SECTION 4(f) RESOURCES/	SECTION 6(f) F	RESOURCES		
			**		
Parks and	Other Recreational Land	<u>Presence</u>	Yes No		
Publicly	owned park				
Publicly	owned recreation area				
	chool, state/national forest, bikeway, etc.)				
	nd Waterfowl Refuges				
	l Wildlife Refuge				
	l Natural Landmark				
	ildlife Area				
	ature Preserve				
Historic Pr	•				
Site eng	gible and/or listed on the NRHP				
		Evaluations Prepared			
Program	nmatic Section 4(f)				
	nimis" Impact				
	al Section 4(f)				
	ception included in 23 CFR 774.13				
included in	grammatic Section 4(f) and "de minimis" the appendix and summarized below. Disc	uss proposed altern	atives that satisfy the requiremen		
	eptions to the requirement for Section 4(f) of the U.S. Department of Transport			ublic and historic lands for f	ederally.
	nsportation facilities unless there is no				
	areas, wildlife/waterfowl refuges, and				
	of ownership. Lands subject to this la				1
are no pot	a desktop review, the aerial map of the tential 4(f) resources located within the r 14, 2023, by ASC Group, Inc., there a d.	e 0.5-mile search	radius. According to addition	nal research and by the site	visit on
Q	otion 6(f) Involvement		Dwasanaa	Hac	
Sec	ction 6(f) Involvement		<u>Presence</u>	<u>Use</u> Yes No	
Sec	ction 6(f) Property				
D. «		D			
discuss the d	tion 6(f) resources present or not present. conversion approval.				
	Land and Water Conservation Fund A				
	preserve, develop, and assure accessib		creation resources. Section 6(1) of this Act prohibits conve	rsion of
ianus purc	chased with LWCF monies to a non-rec	reation use.			
A review of	of 6(f) properties on the INDOT ESD v	vebsite revealed a	total of three property in Spen	cer County (Annendix I- I-2)	. These
	are not located within or adjacent to the				
	J	• •	· ·		
This is no	age 18 of 24 Project name: SR 6	6 Small Structures	Replacement Project	Date: November 13, 2024	

SECTION	N F – Air Oı					
	THI Q	uality				
Is t Is t Is t If Y	the project in the project local the project in a result of the project in a result of the project is the project if No, then: Is the project in the projec	Conformity Status of the most current STII ated in an MPO Area an air quality non-att in the most current in the most current in exempt from conformation in the Transportation analysis required	P/TIP? a? ainment or maintenance area MPO TIP? mity? ation Plan (TP)?	Yes	No X X	
Loc	cation in STIF).		Page 375–376	5 of 501	
	me of MPO (i			N/A	, 01001	
	`	(if applicable):		N/A		
Lev	vel of MSAT	Analysis required?				
Lev	vel 1a	X Level 1b	Level 2 Level	3 Level 4	Level 5	
STIP/TIP The Fiscal the contract and 21008 Attainment	Year (FY) 2 ct. The lead 3 31 by refere	2024–2028 Statewin DES number for the new with the contra	ide Transportation Improvisis contract is Des. No. 210 act number R-43979 (Appe	ement Program (STIF 10169. The FY 2024– endix H: H-2 to H-3).	P) is listed based 2028 STIP incl	at the TP and TIP. Describe if a d on the lead DES number in udes DES numbers 2100830 ng to the EPA's Greenbook
website (h with 40 CI no signific	FR Part 93.12 cant impact of PM2.5: This	epa.gov/green-bood 26 and this project on air quality. project is located in	k). This project has been it is not a project of air quali	dentified as being exe ty concern (40 CFR P unty is currently a no	empt from air quart 93.123). The	uality analysis in accordance erefore, the project will have ea for PM2.5. Under 40 CFR
1 0			ntegorical exclusion (Group and as such, a Mobile Source	,	· /·	empt under the Clean Air Act required.
	age 19 of 24	Project name:	SR 66 Small Structures F			November 13, 2024

County	Spencer		Roi	ite SR 66			Des. No.	2100830, 2	2100831
SECTIO	ON G - NOISI	E							
Describe is identified. This proj	oate Noise Analy f the project is If noise impacts ect is a Type I	s required in accord ysis was approved/t a Type I or Type I s were identified, de II project. In acco is action does not	technically suffi III project. If it escribe if abaten ordance with 23	cient by INDC is a Type I pro- nent is feasible 3 CFR 772 an	T ESD: oject, describe the and reasonable different Interest	he studies con and include a	npleted to a	of likelihood	l
SECTIO	ON H – COM	MUNITY IMPA	CTS						
W W W D D D D D D D D D D D D D D D D D	Vill the proposed vill the proposed vill the proposed vill the proposed vill construction to the community of the project of t	d action comply wind action result in sure activities impact of activities with the activities with the activities with the activities with the activities activiti	th the local/region betantial impact abstantial impact as the community even a divance the communities of th	is to communit is to local tax b its (festivals, fa an? imunity's trans ixplain in the d its (festivals, fa an) its (festivals, fa an	y cohesion? hase or property virs, etc.)? hition plan? hiscussion below) hent patterns; whas him activities. herties will be n	values? of the the properties of the MOT with a maintained described and the second s	vill requir	e a road clo	osure and detou
Numerou State Fes	us websites we stivals website	rched any possib- ere accessed on A e (http://www.ind or fairs currently)	August 21, 202 lianafestivals.c	4, to confirm org) and The	if any fairs or Fairs and Fest	festivals wo	ould be aff e (<u>https://</u>	fected, incluwww.fairsa	iding the Indian
		n Americans with ne are proposed;							
Discuss we impacts he education facilities. Based on are no me project a	ave been minin al facilities, pub a a desktop rev apped public rea, which wa	estities and services and services and services and lice and private utilities, the aerial margarithms facilities within as confirmed by struction. No publications	ordination has ties, emergency: ap of the project the 0.5-mile so the site visit of	occurred. Son services, religi- ct area (Appe earch radius. on September	ndix B: B-4), a There are no 14, 2023, by	public faciliti airports, trans and the RFI re mapped pub ASC Group	eport (Applic facilities, Inc. Acc	or public pedion benefit E: E es within o less to all p	e health facilities estrian and bicycles -2 to E-10), there or adjacent to the properties will be
		onded on July 31, height (Appendix							equipment bein
This is	page 20 of 24	Project name:	SR 66 Sma	all Structures F	Leplacement Proj	ject	Date:	Novembe	r 13, 2024

2100830 2100831

Des No

Route SR 66

Spencer	Route Sit 00	Des. 110	2100050, 2	
All applicable recommendations	are included in the Environmental Commitmen	nts section of this CE docu	ment.	
It is the responsibility of the pro- construction that would block or	ject sponsor to notify school corporations and limit access.	emergency services at lea	st two we	eeks prior to any
Environmental Justice (EJ) (Presidential FO 12898)		Yes	No
	he project were EJ issues identified?		103	X
Does the project require an	EJ analysis?		X	
If YES, then:		<u>.</u>		
Are any EJ populations	located within the project area?		X	
Will the project result i	n adversely high and disproportionate impacts to EJ	populations?		X

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

Under FHWA Order 6640.23A, FHWA and the project sponsor, as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT Categorical Exclusion Manual, an Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 acre of additional permanent ROW. The project will require no relocations; however, it will require 2.223 acres of permanent ROW. Therefore, an EJ Analysis is required.

Potential EJ impacts are detected by locating minority and low-income populations relative to a reference population to determine if populations of EJ concern 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 Spencer County, Indiana. The community that overlaps the project area is called the affected community (AC). In this project, the AC is Census Tract 9530. An AC has a population of concern for EJ if the population is more than 50 percent minority or low-income or if the low-income or minority population is 125 percent of the COC. Data from the 2020 ACS 5-Year Estimates was obtained from the U.S. Census Bureau (https://data.census.gov/) on August 6, 2024, by ASC Group, Inc. The data collected for minority and low-income populations within the AC are summarized in the below table.

Table: Minority and Low-Income Data (United States Census Bureau 2020 ACS 5-Year Estimates)				
COC – Spencer County, Indiana AC-1 – Census Tract 9530, Spencer County, Indiana				
Percent Minority	5.55%	2.40%		
125% of COC	6.94%	AC < 125% COC		
EJ Population of Concern		No		
Percent Low-Income	8.14%	12.53%		
125% of COC	10.18%	AC < 125% COC		
EJ Population of Concern		Yes		

AC-1, Census Tract 9530 has a percent minority of 2.40 percent, which is below 50 percent and is below the 125 percent COC threshold. Therefore, the AC does not contain minority populations of EJ concern.

AC-1, Census Tract 9530 has a percent low-income of 12.53 percent, which is below 50 percent and is above the 125% COC threshold. Therefore, AC-1 is a low-income population of EJ concern.

Conclusion

County

Spencer

The census data sheets, map, and calculations can be found in Appendix I (Appendix I: I-58 to I-64). The project will require 2.223 acres of ROW from agricultural land and wetlands currently functioning primarily as roadside drainage and will not alter access to the existing SR 66 roadway. AC-1 contains a EJ Population; however, no permanent ROW will be taken from residential properties. No relocations will occur and access to all properties will be maintained. No changes in community cohesion are expected. The project will not disproportionately or negatively impact the identified populations as roadway access will not be permanently changed

This is page 21 of 24	Project name:	SR 66 Small Structures Replacement Project	Date:	November 13, 2024

County Spence	er	Route S	R 66	Des. No.	2100830, 2100831
function beyond of functional life an expected to EJ pop on September 27, effects on minorit	dor of SR 66. Additionally, the drainage for the existing roaded continued access of the Stationard access of the Stationard, and no mitigation is 2024, and concurred with they and/or low-income populater 12898 and FHWA Order 66	way. The project 66 roadway anticipated. Note findings, stations of EJ cor	ect is intended to impro- for the identified pop to further EJ analysis is a ting that the project wo acern, relative to non-E	ove roadside drainagulations. Therefore required. INDOT Estud cause no disproud populations in according to the cause modes.	ge and therefore enhance the e, no significant impacts are SD reviewed this EJ Analysis portionately high or adverse cordance with the provisions
Will the pro Is a BIS or Number of Discuss any relocation	ons that will occur due to the pro	tion of people, by the state of	Businesses: 0 • CSRS is required, discus.		Yes No X X X Other: 0 cussion below.
No relocations of	people, businesses, or farms	will take place	as a result of this proje	ct.	
SECTION I – HA	AZARDOUS MATERIALS	& REGULA	TED SUBSTANCES		
Red Flag In Phase I Env Phase II En	Materials & Regulated Substates (RFI) Vironmental Site Assessment (Physicon Vironmental Site Assessment (Plycifications for Remediation requ	ase I ESA) nase II ESA)	that apply)	<u>Document</u>	ation
Date RFI co	oncurrence by INDOT SAM (if a	pplicable):	March 11, 2024		
ones that could imperent ones that could imperent ones.) will be needed,	of the potential hazardous mater act the project area. Refer to cu include in discussion. Include ap of GIS and available public	rrent INDOT S. plicable comm	4M guidance. If additiona itments.	ıl documentation (spe	ecial provisions, pay quantities,
sites) or sites invo	eir concurrence on March 11, olved with regulated substand	es were identi	fied in or within 0.5 m		
hazardous materia	al concerns or regulated subst	ances is not re	quired at this time.		

Version: December 2021

County	Spencer	Route SR 66	Des. No.	2100830, 2100831

<u>Part IV – Permi</u>	ts and Commitments
PERMITS CHECKLIST	
Permits (mark all that apply)	Likely Required
Army Corps of Engineers (404/Section10 Permit) Nationwide Permit (NWP) Regional General Permit (RGP) Individual Permit (IP) Other IN Department of Environmental Management (401/Rul) Nationwide Permit (NWP) Regional General Permit (RGP) Individual Permit (IP) Isolated Wetlands Rule 5 Other IN Department of Natural Resources Construction in a Floodway Navigable Waterway Permit Other Mitigation Required US Coast Guard Section 9 Bridge Permit Others (Please discuss in the discussion below)	X
List the permits likely required for the project and summarize why the A Construction Stormwater General Permit, formerly know disturbance being greater than the 1-acre threshold.	e permits are needed, including permits designated as "Other." In as the Rule 5 Permit, will be required due to the amount of soil
	Wetlands A-C and stream impacts to UNT to Willow Ditch within the
A legal drain permit will likely be required due to impacts to .	James E. Payne Ditch.
	es are included in the Environmental Commitments section of this as of the permit will be requirements of the project and will supersede
It is the responsibility of the project sponsor to identify and ol	btain all required permits.

ENVIRONMENTAL COMMITMENTS

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

Firm:

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

This is page 23 of 24	Project name:	SR 66 Small Structures Replacement Project	Date:	November 13, 2024
		· · · · · ·		

County Spencer	Route SR 66	Des. No.	2100830, 2100831

- 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 September 14, 2025, an inspection of the structure by a qualified individual, must be performed. Inspection of the structure should check for the presence of bats/bat indicators and/or presence of birds. The results of the inspection must indicate no signs of bats or birds. If signs of bats or birds are documented during this inspection, the INDOT District Environmental Manager must be contacted immediately. (INDOT ESD)
- 4) Any work in a wetland area within right-of-way or in borrow/waste areas is prohibited unless specifically allowed in the U.S. Army Corps of Engineers permit. (INDOT EWPO)
- 5) Wetlands A-C will be included on all plans and labeled as "Do Not Disturb Outside of Construction Limits." (INDOT EWPO)
- 6) GENERAL AMM 1: Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs. (USFWS)
- 7) LIGHTING AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 8) If a chemical spill occurs from construction equipment and enters a waterway, then IDEM's 24-Hour Emergency Spill Line should be called at 888-233-7745 or 317-233-7745 and notification should occur to the Evansville Water Filtration Plant at 812-428-0568. (Evansville Water and Sewer Utility)

For Further Consideration:

- 1) For purposes of maintaining fish and wildlife passage through a crossing structure, the Environmental Unit recommends bridges rather than culverts and bottomless culverts rather than box or pipe culverts. Wide culverts are better than narrow culverts, and culverts with shorter through lengths are better than culverts with longer through lengths. If box or pipe culverts are used, the bottoms should be buried a minimum of 6-inches or 20 percent of the culvert height/pipe diameter (whichever is greater) up to a maximum of 2-feet below the stream bed elevation to allow a natural streambed to form within or under the crossing structure. Crossings should:
 - Span the entire channel width (a minimum of 1.2 times the ordinary high-water mark width);
 - Maintain the natural stream substrate within the structure; and
 - Have stream depth, channel width, and water velocities during low-flow conditions that are approximate to those in the natural stream channel.
 - Banklines should be restored within box and pipe structures to allow for wildlife passage above the ordinary highwater mark. (IDNR-DFW)
- 2) The new, replacement, or rehabbed structure, and any bank stabilization under it, should not create conditions that are less favorable for wildlife passage under the structure compared to the current conditions. When determining an appropriate bridge or culvert size, consider whether wildlife/vehicle collisions are a concern at the crossing site. If feasible, a larger bridge or culvert opening can allow for the movement of wildlife under the roadway to minimize wildlife/vehicle collisions. (IDNR-DFW)
- 3) Any riprap placed at the culvert's outlet/inlet needs to be installed at grade (or countersunk then backfilled with native material). The slope of the riprap should match the stream's gradient. Additionally, riprap should be mixed with smaller stone and fines to match the existing stream substrate particle distribution and provide impermeability of the riprap apron/substrate so the flow doesn't percolate through the voids below the riprap apron's surface. (IDNR-DFW)
- 4) 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)
- 5) Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds. (IDNR-DFW)
- 6) Use minimum average 6-inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids. (IDNR-DFW)

This is page 24 of 24	Project name:	SR 66 Small Structures Replacement Project	Date:	November 13, 2024	_
		Version: December 2021			

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APPENDIX A: INDOT SUPPORTING DOCUMENTATION

Threshold Chart

Categorical Exclusion Level Thresholds

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

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

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

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

⁴US Army Corps of Engineers Individual 404 Permit

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

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

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

⁸ Projects that do not fall under a Species Specific Programmatic and results in a "Likely to Adversely Affect". Other findings can be processed as a lower-level CE.

⁹ Potential for causing a disproportionately high and adverse impact.

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

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

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

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

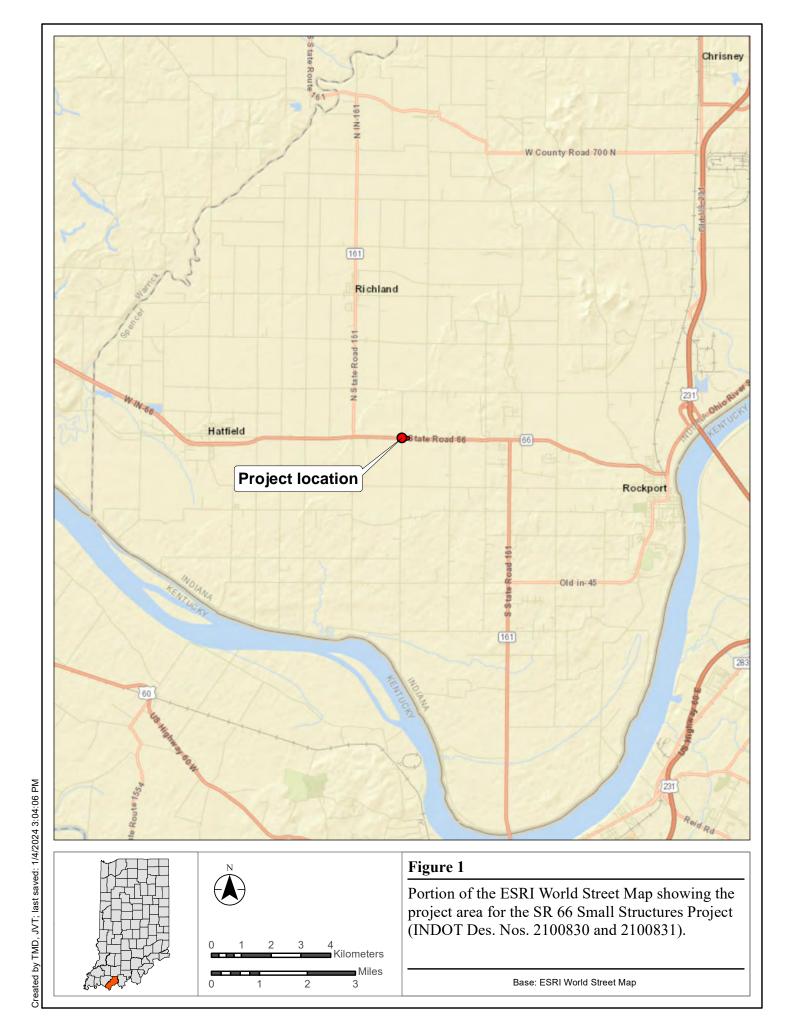
APPENDIX B: PROJECT AREA AND PLAN SHEET

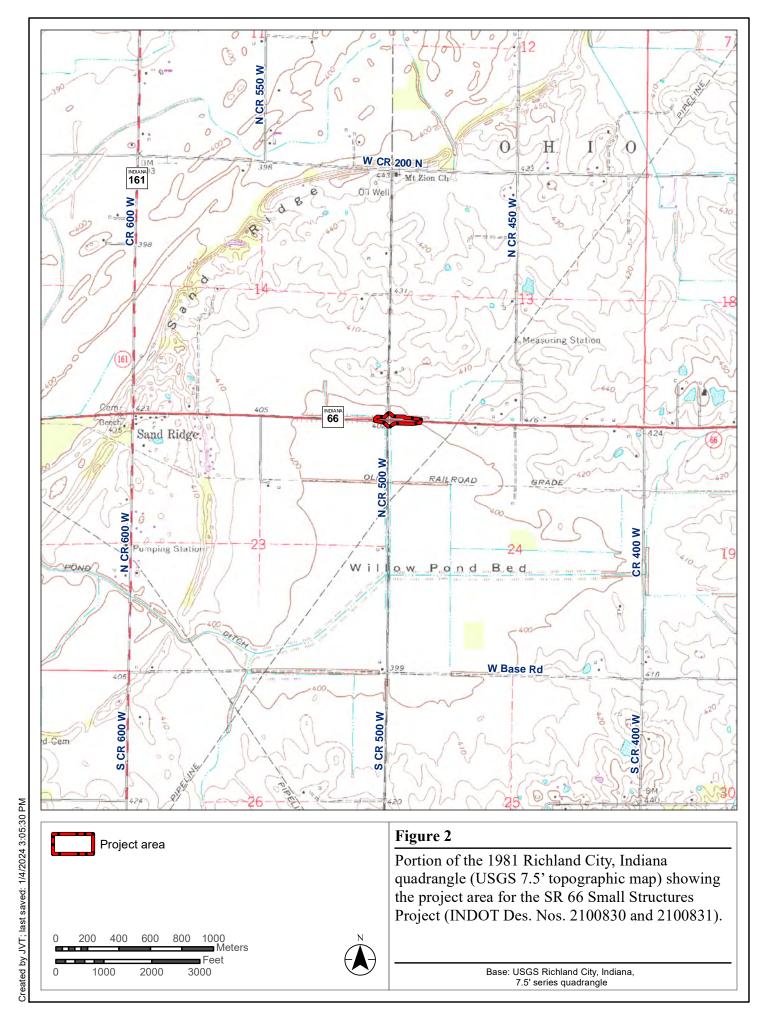
Figure 1 – Project Vicinity

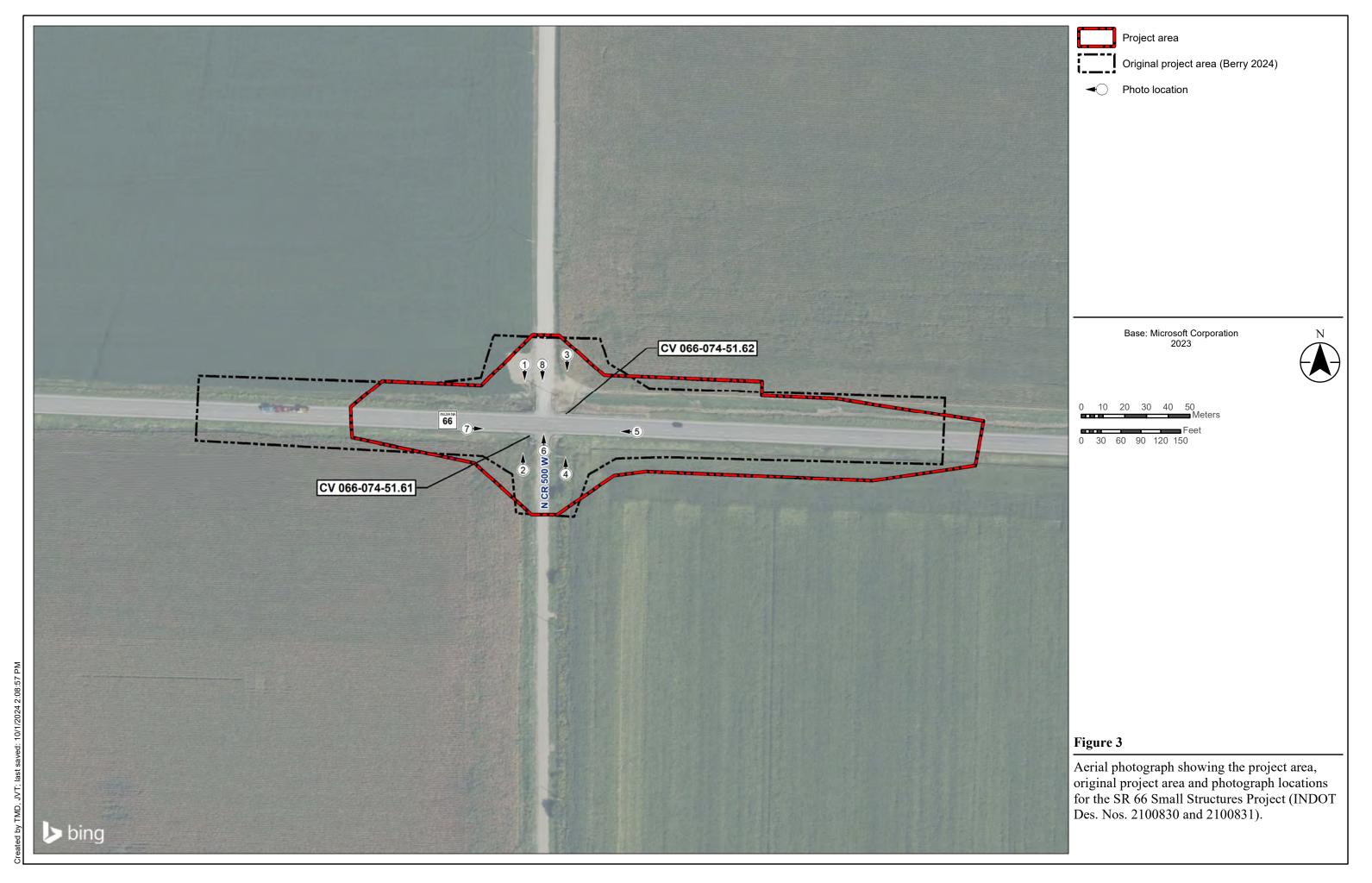
Figure 2 – Topographic Map Showing the Project Area Figure 3 – Aerial Photograph Showing the Project Area

Photographs

Project Plan Set









Photograph 1. View of Structure No. CV 066-074-51.61 inlet, facing south.



Photograph 2. View of Structure No. CV 066-074-51.61 outlet, facing north.



Photograph 3. View of Structure No. CV 066-074-51.62 inlet, facing south.



Photograph 4. View of Structure No. CV 066-074-51.62 outlet, facing north.



Photograph 5. View of the SR 66 roadway, facing west.



Photograph 6. View of the intersection of SR 66 and CR 500 W, facing north.



Photograph 7. View of the SR 66 roadway, facing east.



Photograph 8. View of the intersection of SR 66 and CR 500 W, facing south.

PROJECT	DESIGNATION		
2100169	2100830 & 2100831		
CONTRACT	CULVERT FILE		
R-43979	CV 066-074-51.61 & 066-074-51.62		

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
CV 066-074-51.61	Reinforced Concrete Box	1 Span: 16'-0"; Rise: 4'-0"; No Skew	UNT of Willow Pond Ditch	206+58.00 Line "A"
CV 066-074-51.62	Reinforced Concrete Box	1 Span: 16'-0"; Rise: 4'-0"; No Skew	UNT of Willow Pond Ditch	208+25.00 Line "A"

	KIN PROJECT INFORMATION
DESIGNATION	PROJECT DESCRIPTION
* 2100169	SR 66 Signal Modification, Curb Ramp Reconstruction
2100830	Small Structure replacement on SR 66 (CV 066-074-51.61)
2100831	Small Structure replacement on SR 66 (CV 066-074-51.62)

NOTE TO REVIEWER

Per the request of the Vincennnes District, the structure locations

and project limits have been adjusted from what was proposed in the Stage 1 Plans. See Correspondence file for additional

information on the project scope of work adjustments.

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

ROUTE: STATE ROAD 66 AT: RP 51+61

PROJECT NO. 2100830 & 2100831 P.E.

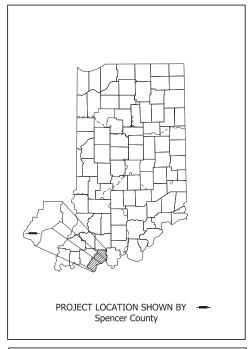
2100830 & 2100831 R/W

2100830 & 2100831 CONST.

Small Structure Replacements (2) on State Road 66 over UNT of Willow Pond Ditch
Located 1 Mile East of West JCT SR 161
Sections 13, 14, 23, & 24, T-7-S, R-7-W, Luce & Ohio Townships, Spencer County, Indiana

Structure CV 066-074-51.61





LATITUDE: 37° 54' 07.2" N LONGITUDE: 87° 09' 03.6" W

GROSS LENGTH:	0.150	MI.
NET LENGTH:	0.150	MI.
MAX. GRADE:	0.879	%

HUC: 05140201150

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2024 TO BE USED WITH THESE PLANS.



C Str. Sta. 206+58.00. Line "A"

Begin Project -Sta. 205+00.00, Line "A"

> INDIANAPOLIS - TERRE HAUTE - LAFAYETTE MUNCIE - NEW ALBANY - HAMMOND www.hwcengineering.com

over UNT of Willow Pond Ditch Ç Str. Sta. 208+25.00, Line "A" Des. No. 2100831

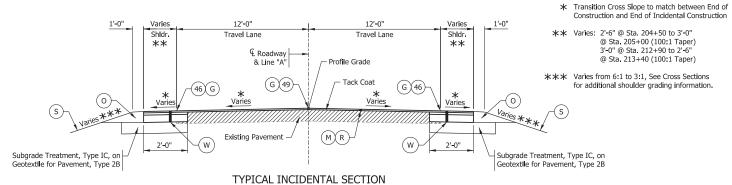
> NOT FOR CONSTRUCTION 8/2024

Sta. 212+90,00, Line "A"

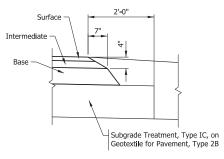
PLANS PREPARED BY:	HWC Engineering	(317) 347-3663 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

	CULVERT FILE		
	CV 066-074-51.61 & 066-074-51.62		
DESIGNATION		TION	
	2100830 & 2100831		
SURVEY BOOK	SHEETS		
ELECTRONIC	1	of	30
CONTRACT	PF	ROJEC	T
		ROJE0	

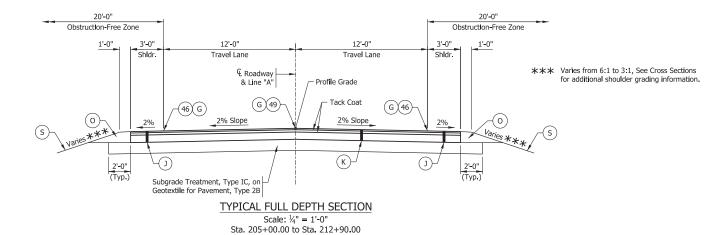
^{*} Lead Designation Number



Scale: ½" = 1'-0" Sta. 204+50.00 to Sta. 205+00.00 Sta. 212+90.00 to Sta. 213+40.00



HMA TYPICAL SAFETY EDGE DETAIL Scale: ¾" = 1'-0"



LEGEND

- 165 lbs/syd QC/QA-HMA, 3, 58H, Surface 9.5 mm on 275 lbs/syd QC/QA-HMA, 3, 58H, Intermediate 19.0 mm on 880 lbs/syd QC/QA-HMA, 3, 58S, Base 25.0 mm
- K 165 lbs/syd QC/QA-HMA, 3, 58H, Surface 9.5 mm on 275 lbs/syd QC/QA-HMA, 3, 58H, Intermediate 19.0 mm on 880 lbs/syd QC/QA-HMA, 3, 58S, Base 25.0 mm
- G Grooving for Pavement Markings

- (M) Milling, 1½ in.
- (O) Variable-Depth Compacted Aggregate No. 53
- R 165 lb/syd QC/QA-HMA, 3, 58H, Surface 9.5 mm
- S Mulched Seeding, R and Erosion Control Blankets
- W 2'-0" Widening with HMA, Type C, consisting of: 165 lbs/syd HMA Surface, Type C on 275 lbs/syd HMA Intermediate, Type C on 880 lbs/syd HMA Base, Type C on Subgrade Treatment Type IC on Geotextile for Pavement, Type 2B (or per Geotechnical Report)
- (46) Line, Thermoplastic, Solid, White, 6 in.
- (49) Line, Thermoplastic, Broken, Yellow, 6 in.

NOTES

INDIANA

- Tack Coat shall be applied between all layers of Asphalt. Longitudinal Joint Adhesive is required for Surface and Intermediate layers of Asphalt. Liquid Asphalt Sealant is required on Surface layer over Longitudinal Joint applied at 24" width.

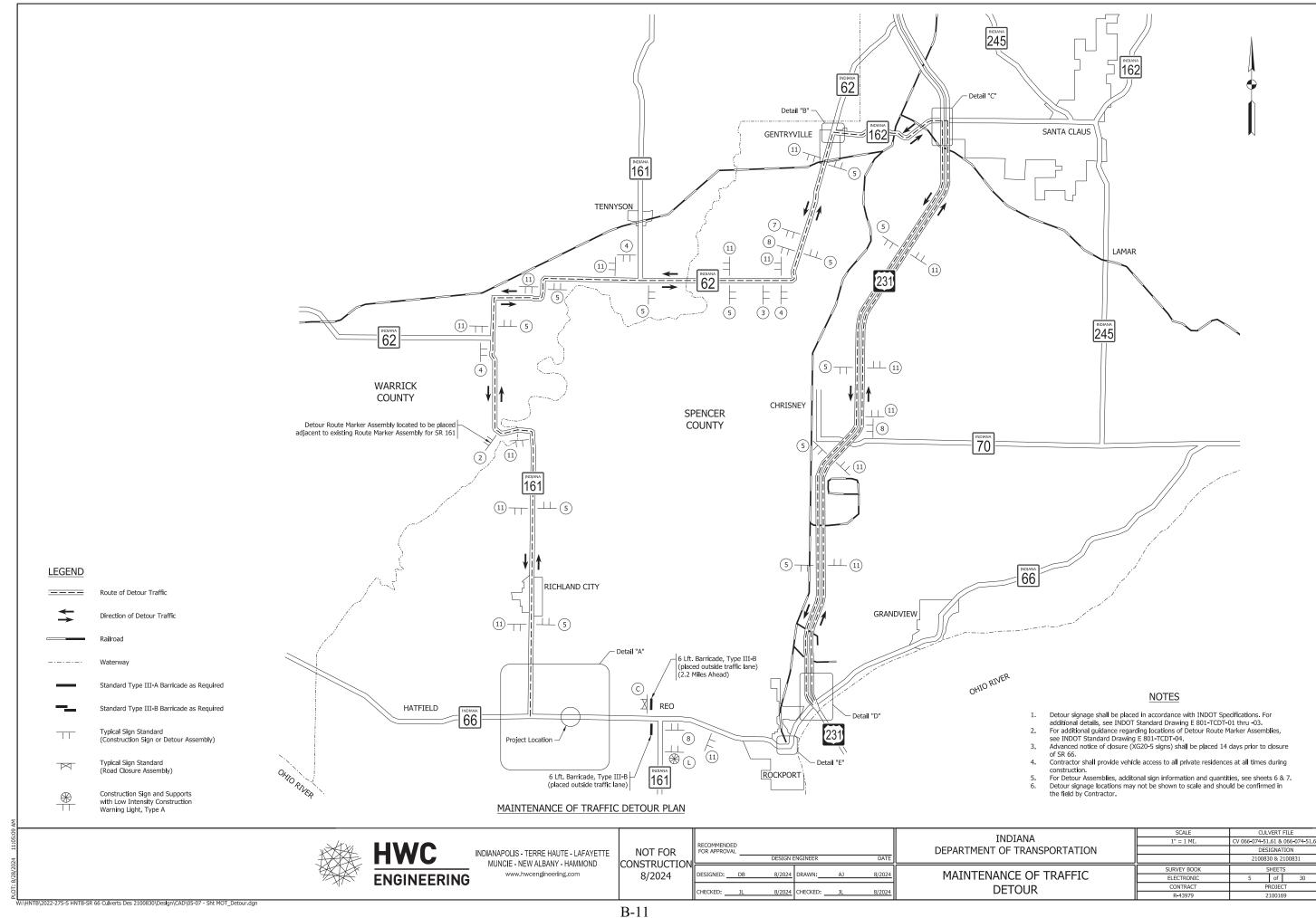


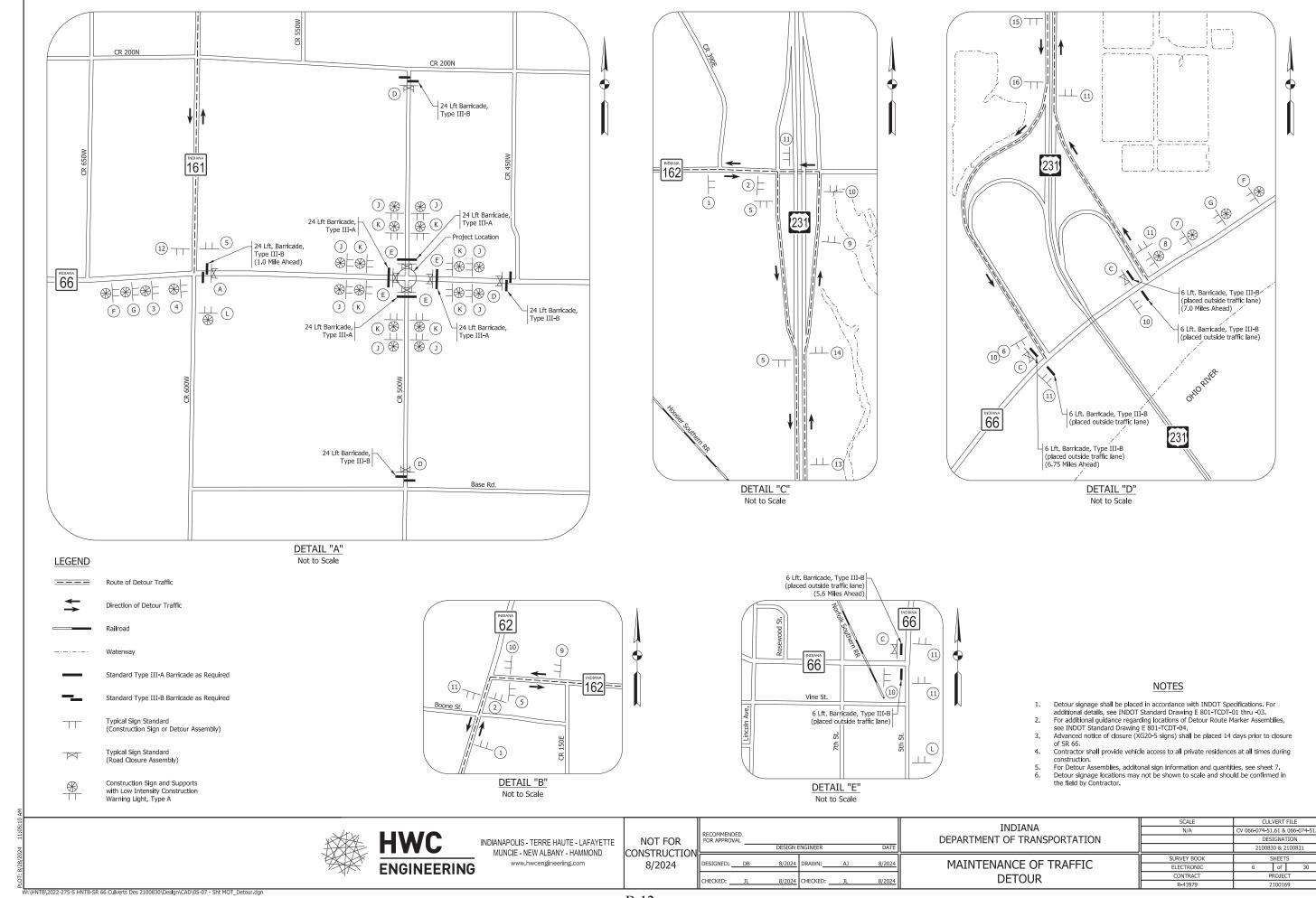
INDIANAPOLIS - TERRE HAUTE - LAFAYETTE MUNCIE - NEW ALBANY - HAMMOND www.hwcengineering.com

NOT FOR CONSTRUCTION 8/2024

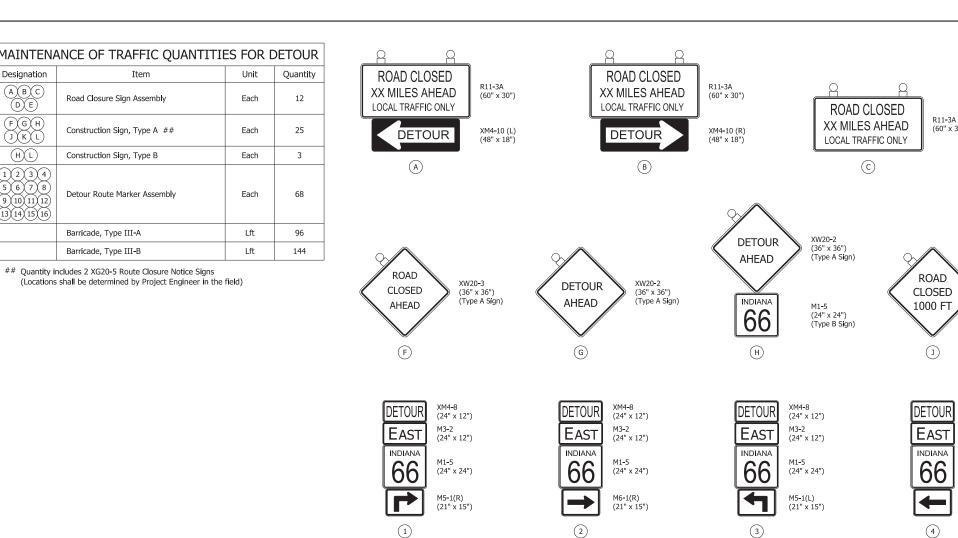
RECOMMENDED FOR APPROVAL

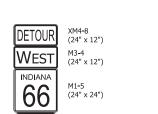
SCALE CULVERT FILE CV 066-074-51.61 & 066-074-51. DEPARTMENT OF TRANSPORTATION SURVEY BOOK ELECTRONIC of TYPICAL CROSS SECTIONS CONTRACT





MAINTENANCE OF TRAFFIC QUANTITIES FOR DETOUR			
Designation	Item	Unit	Quantity
A B C D E	Road Closure Sign Assembly	Each	12
F G H J K L	Construction Sign, Type A ##	Each	25
HL	Construction Sign, Type B	Each	3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Detour Route Marker Assembly	Each	68
	Barricade, Type III-A	Lft	96
	Barricade, Type III-B	Lft	144



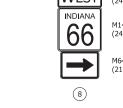


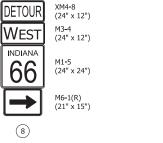
M5-1(R)

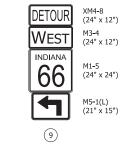
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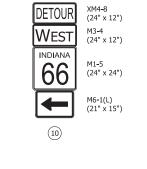
(24" x 12")

(24" x 12")











ROAD CLOSED

THRU TRAFFIC

(D)

XW20-3 (1000)

(36" x 36")

XM4-8 (24" x 12")

(24" x 12")

(24" x 24")

M6-1(L) (21" x 15")

ROAD

CLOSED

500 FT

(K)

DETOUR

EAST

INDIANA

66

5

TO

R11-4

(60" x 30")

XW20-3 (500)

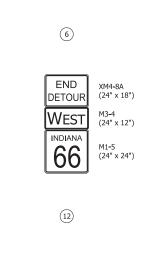
(36" x 36")

XM4-8 (24" x 12")

(24" x 12")

(24" x 24")

M6-3 (21" x 15")



ROAD

CLOSED

E

ROAD

CLOSED

AHEAD

INDIANA

66

L

END

DETOUR

EAST

INDIANA

66

(Type A Sign)

M1-5

XM4-8A

(24" x 12")

(24" x 24")

(24" x 24") (Type B Sign)

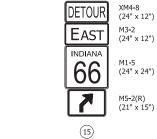


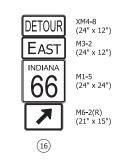
(7)





(14)





NO	TES

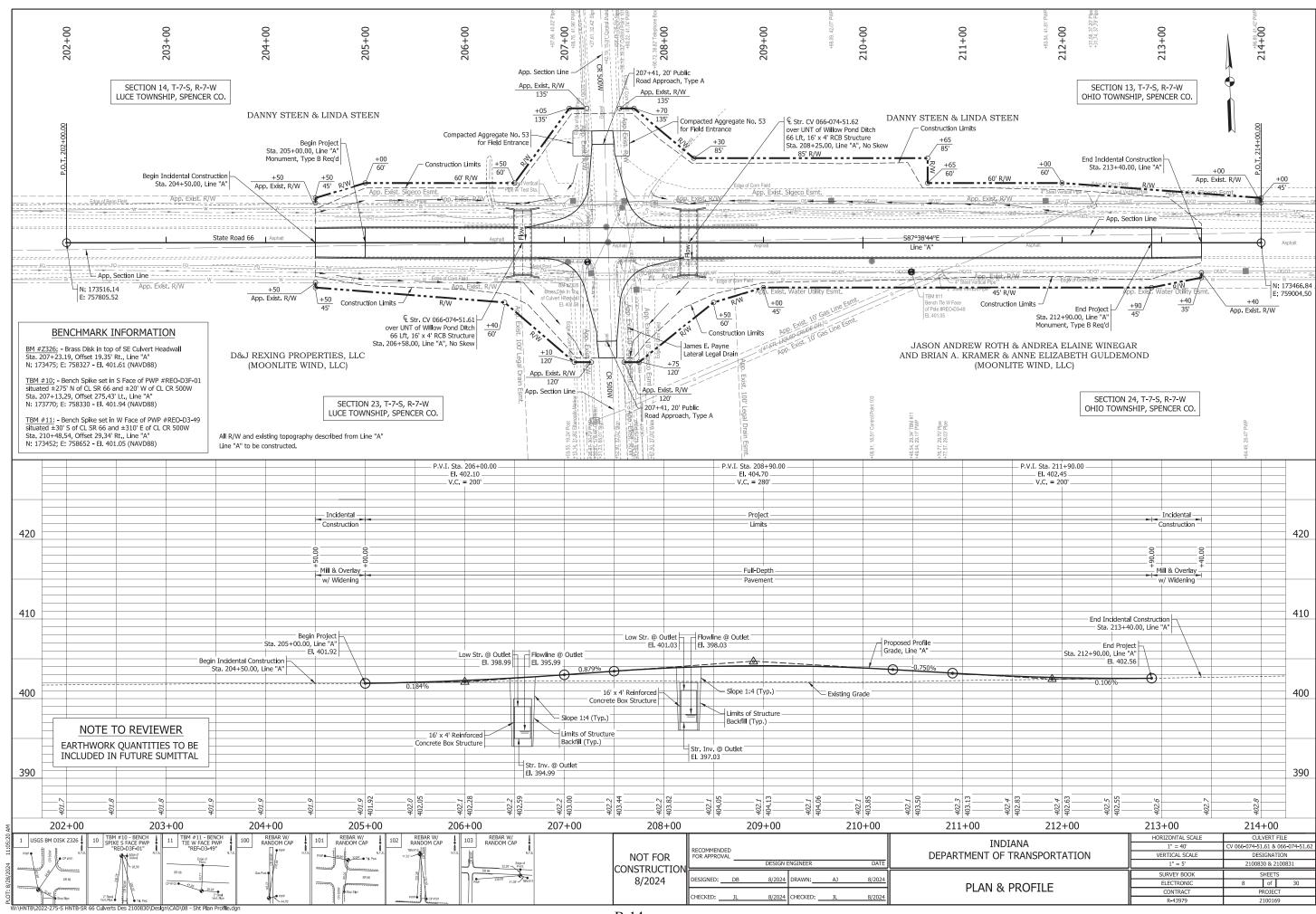
- Detour signage shall be placed in accordance with INDOT Specifications. For additional details, see INDOT Standard Drawing E 801-TCDT-01 thru -03.
- For additional guidance regarding locations of Detour Route Marker Assemblies see INDOT Standard Drawing E 801-TCDT-04.
- Advanced notice of closure (XG20-5 signs) shall be placed 14 days prior to closure of SR 66.
- Contractor shall provide vehicle access to all private residences at all times during construction.
- Detour signage locations may not be shown to scale and should be confirmed in the field by Contractor.

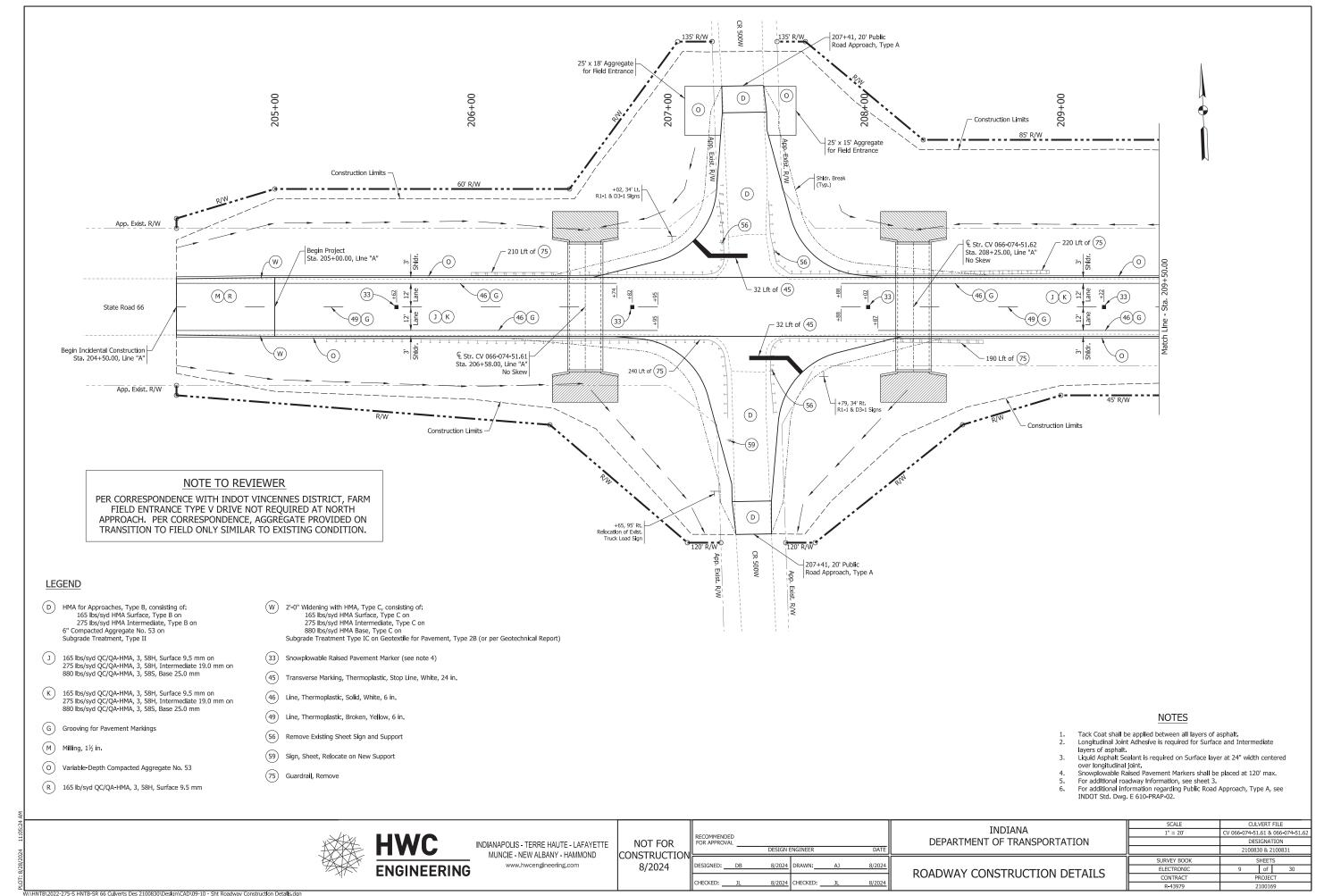


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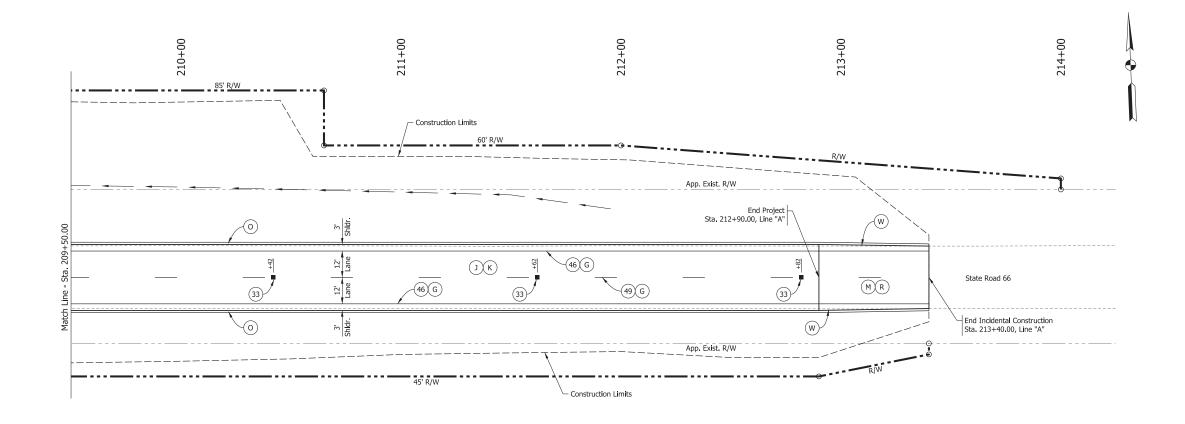
NOT FOR CONSTRUCTION	RECOMMENDED FOR APPROVAL	DESI	GN ENGINEER		DATE	
8/2024		DB 8/20	024 DRAWN:	AJ	8/2024	
	CHECKED:	JL 8/20	O24 CHECKED:	JL	8/2024	L

TAUDTANIA	SCALE	CULVERT FILE		
INDIANA	AS NOTED	CV 066-074-51.61 & 066-074-51.62		
DEPARTMENT OF TRANSPORTATION		DESIGNATION		
		210083	30 & 210	00831
MAINTENANCE OF TRAFFIC	SURVEY BOOK	SHEETS		
MAINTENANCE OF TRAFFIC	ELECTRONIC	7	of	30
DFTOUR	CONTRACT	PROJECT		
DETOOK	P=43070	2	100160	





B-15



LEGEND

- D HMA for Approaches, Type B, consisting of: 165 lbs/syd HMA Surface, Type B on 275 lbs/syd HMA Intermediate, Type B on 6" Compacted Aggregate No. 53 on Subgrade Treatment, Type II
- 165 lbs/syd QC/QA-HMA, 3, 58H, Surface 9.5 mm on 275 lbs/syd QC/QA-HMA, 3, 58H, Intermediate 19.0 mm on 880 lbs/syd QC/QA-HMA, 3, 58S, Base 25.0 mm
- K 165 lbs/syd QC/QA-HMA, 3, 58H, Surface 9.5 mm on 275 lbs/syd QC/QA-HMA, 3, 58H, Intermediate 19.0 mm on 880 lbs/syd QC/QA-HMA, 3, 58S, Base 25.0 mm
- G Grooving for Pavement Markings
- M Milling, 1½ in.
- O Variable-Depth Compacted Aggregate No. 53
- R 165 lb/syd QC/QA-HMA, 3, 58H, Surface 9.5 mm

- W 2'-0" Widening with HMA, Type C, consisting of:
 165 lbs/syd HMA Surface, Type C on
 275 lbs/syd HMA Intermediate, Type C on
 880 lbs/syd HMA Base, Type C on
 Subgrade Treatment Type IC on Geotextile for Pavement, Type 2B (or per Geotechnical Report)
- (33) Snowplowable Raised Pavement Marker (see note 4)
- Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
- 46 Line, Thermoplastic, Solid, White, 6 in.
- 49 Line, Thermoplastic, Broken, Yellow, 6 in.
- (56) Remove Existing Sheet Sign and Support
- 59 Sign, Sheet, Relocate on New Support
- 75 Guardrail, Remove

NOTES

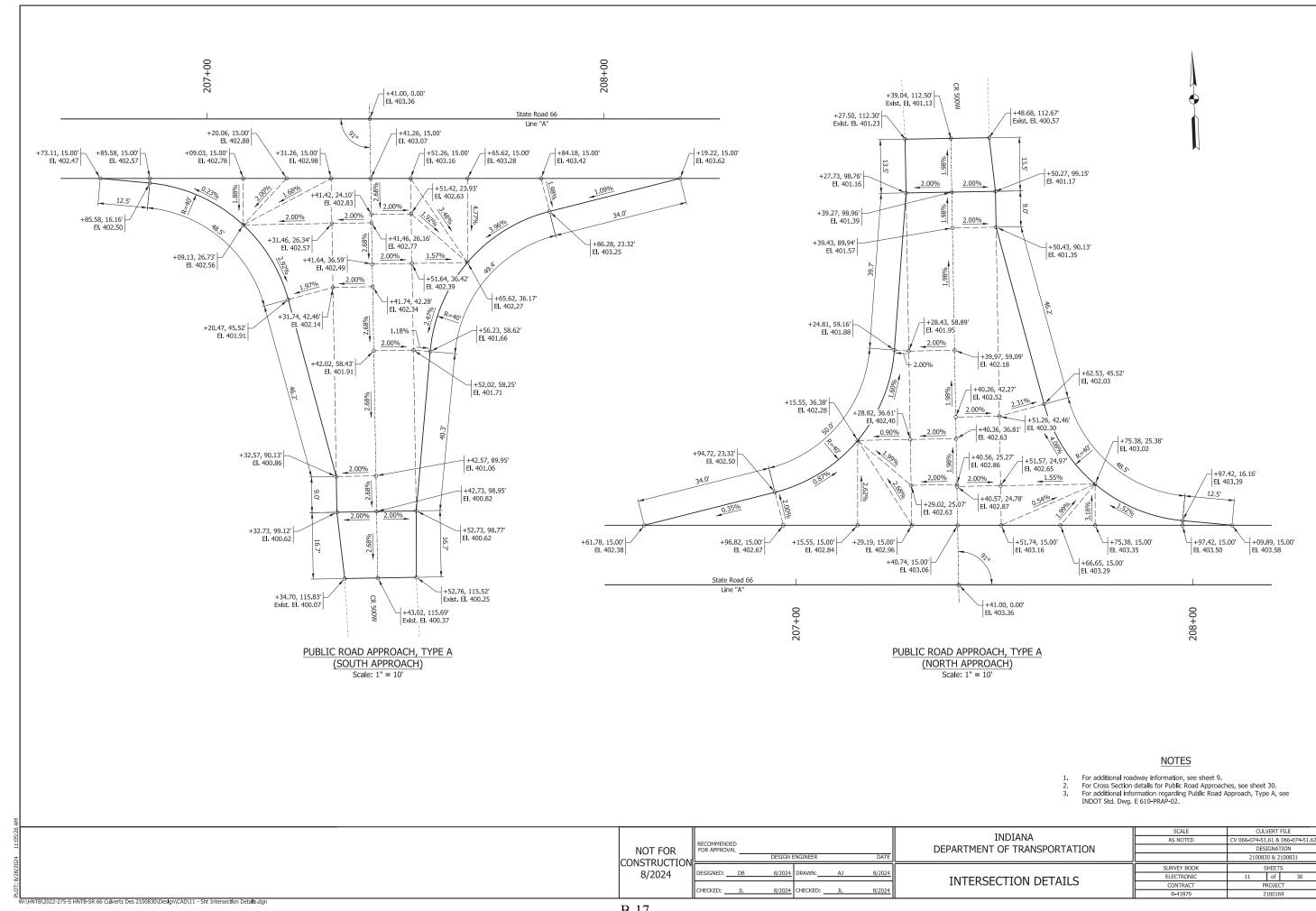
- Tack Coat shall be applied between all layers of asphalt.
 Longitudinal Joint Adhesive is required for Surface and Intermediate layers of asphalt.
 Liquid Asphalt Sealant is required on Surface layer at 24" width centered over longitudinal joint.
 Snowplowable Raised Pavement Markers shall be placed at 120' max.
 For additional roadway Information, see sheet 3.
 For additional information regarding Public Road Approach, Type A, see INDOT Std. Dwg. E 610-PRAP-02.

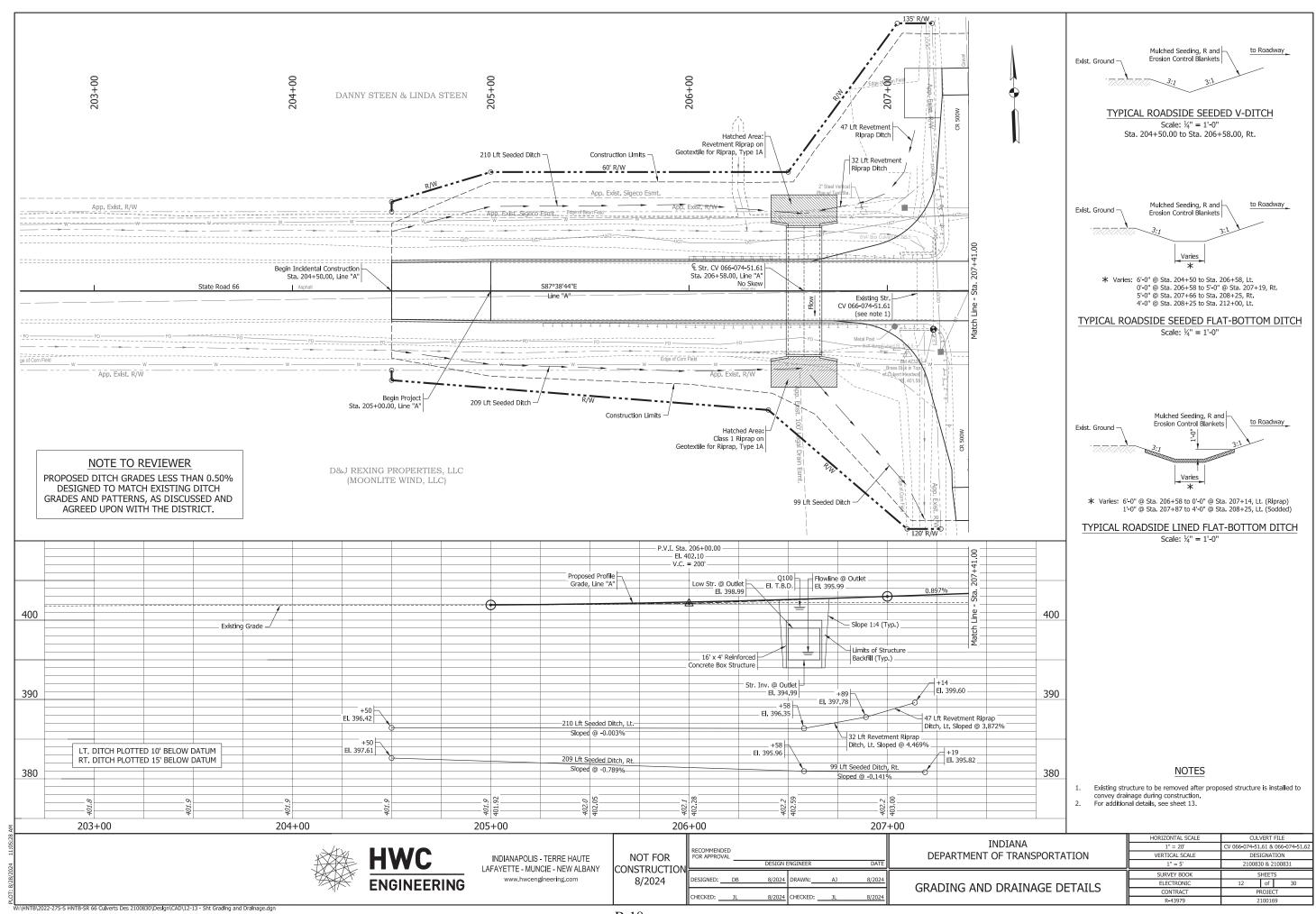


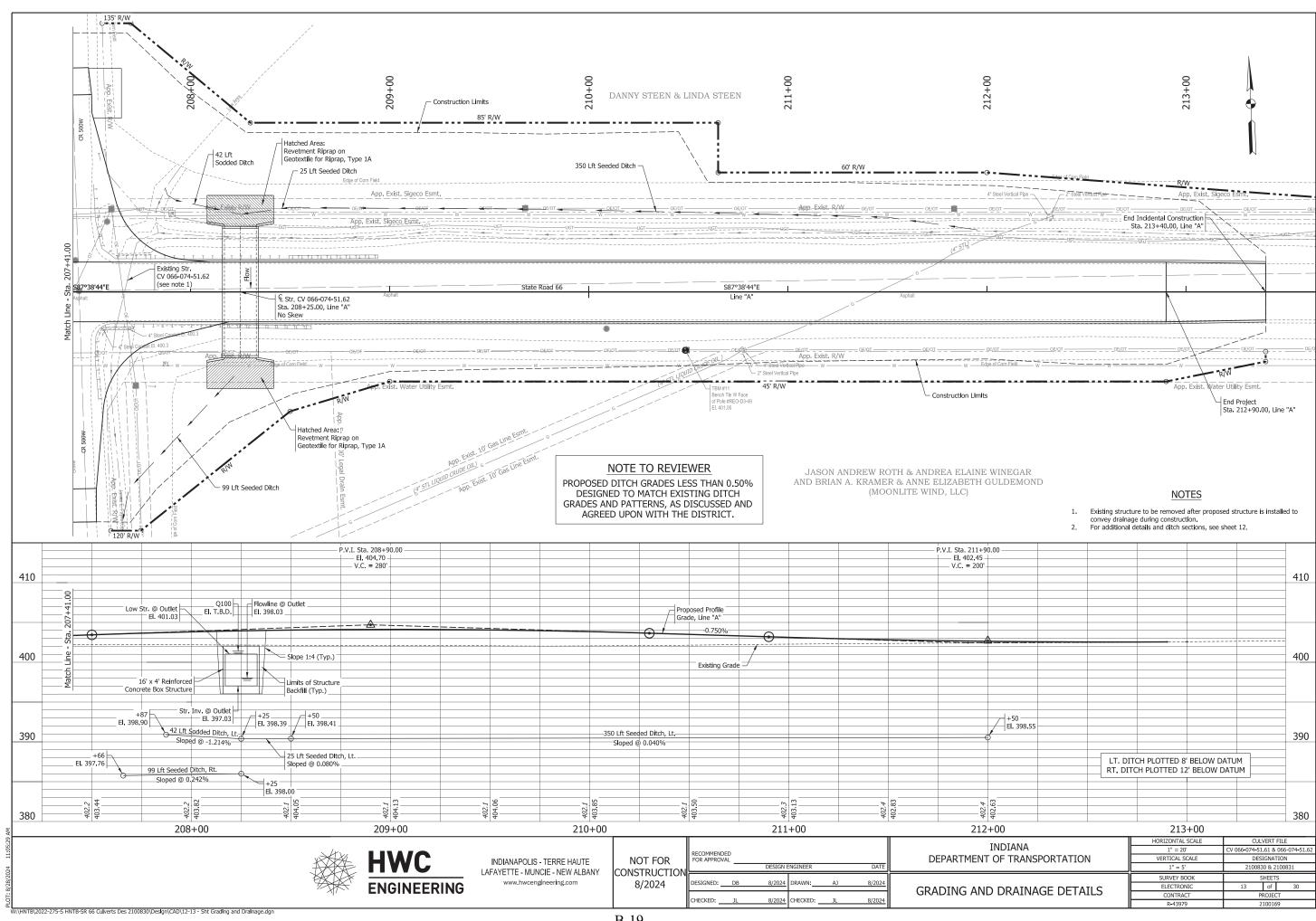
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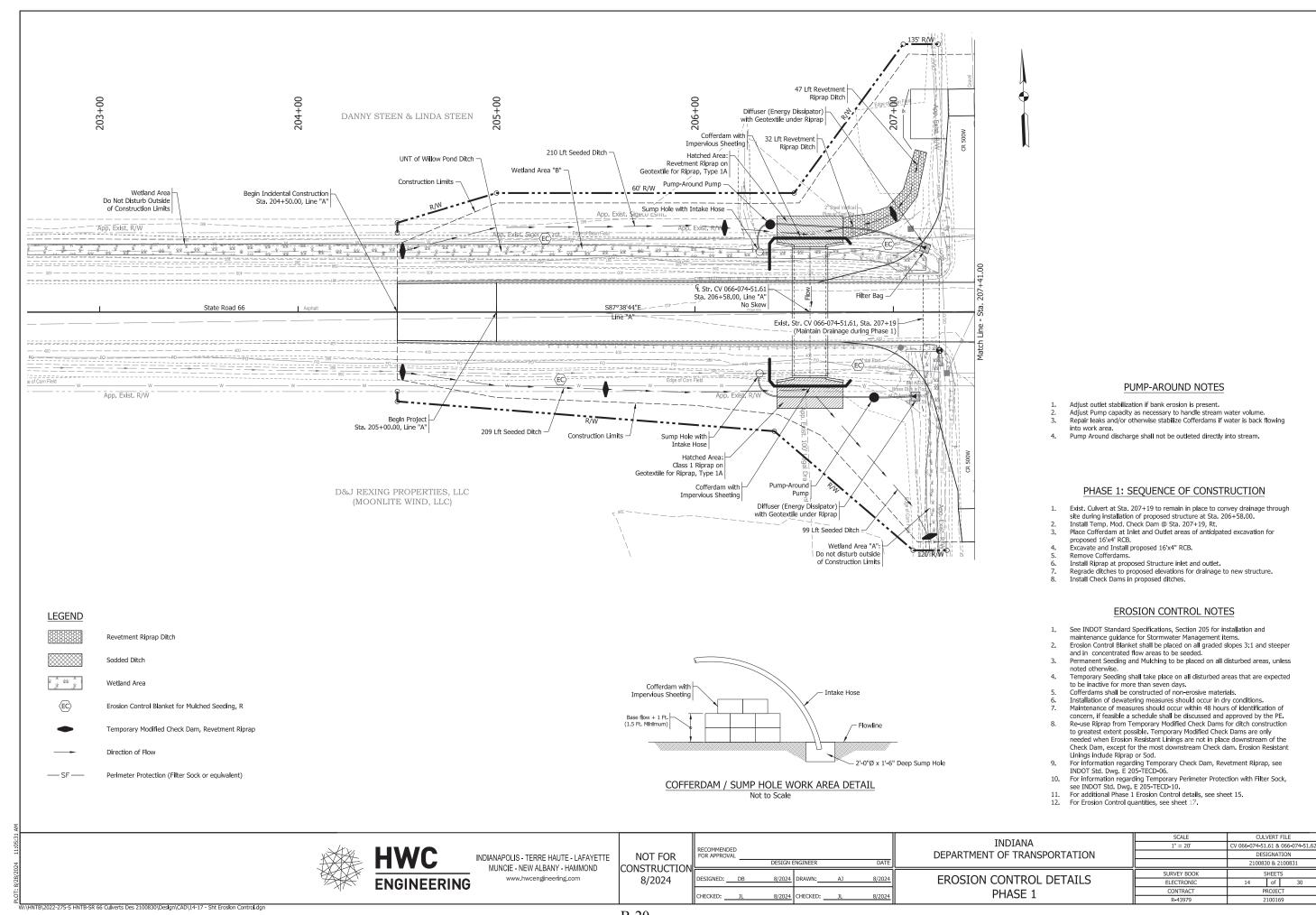
RECOMMENDED FOR APPROVAL NOT FOR CONSTRUCTION 8/2024 8/2024 CHECKED: ___

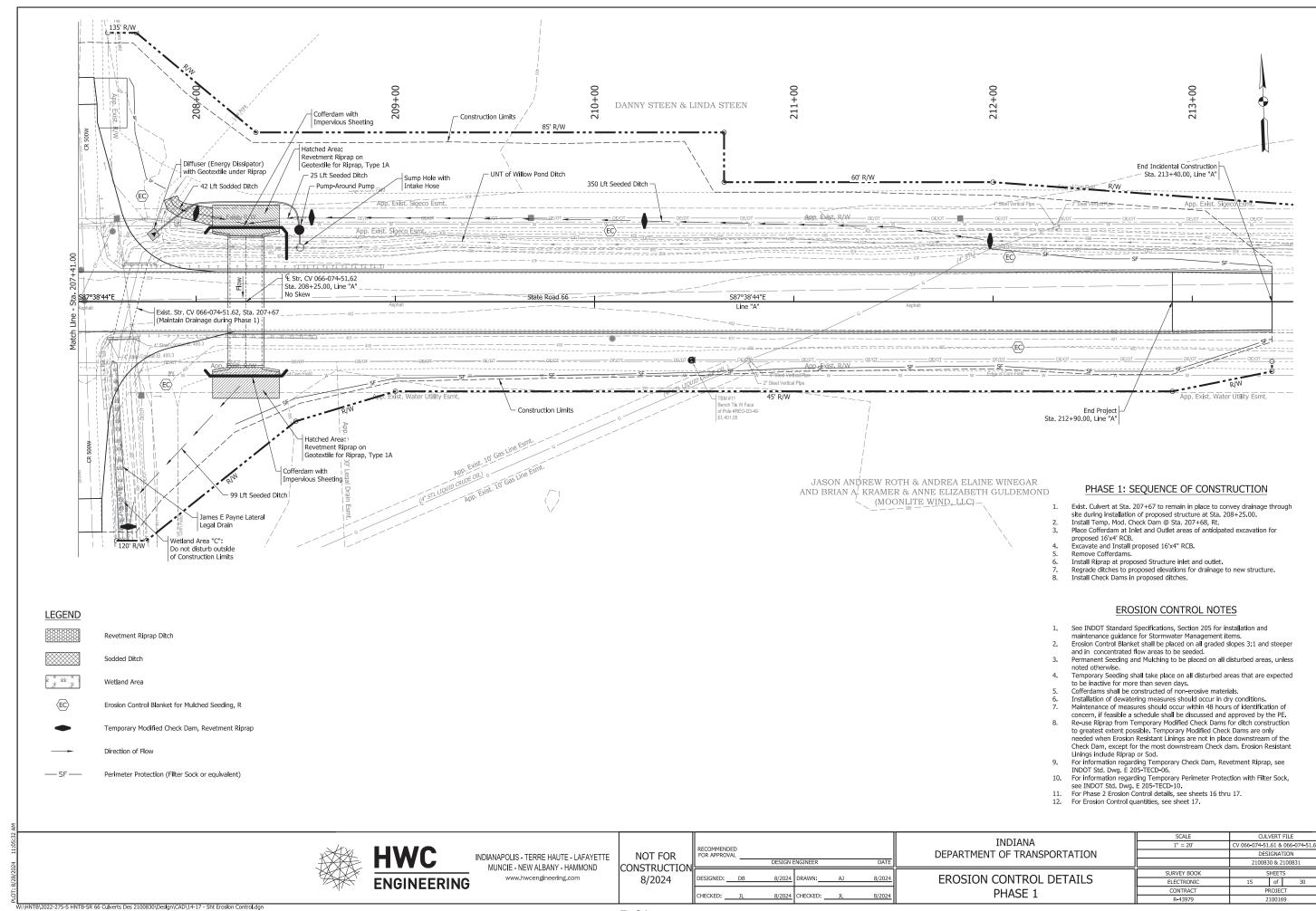
CULVERT FILE INDIANA CV 066-074-51.61 & 066-074-51. DEPARTMENT OF TRANSPORTATION SURVEY BOOK ELECTRONIC of ROADWAY CONSTRUCTION DETAILS CONTRACT

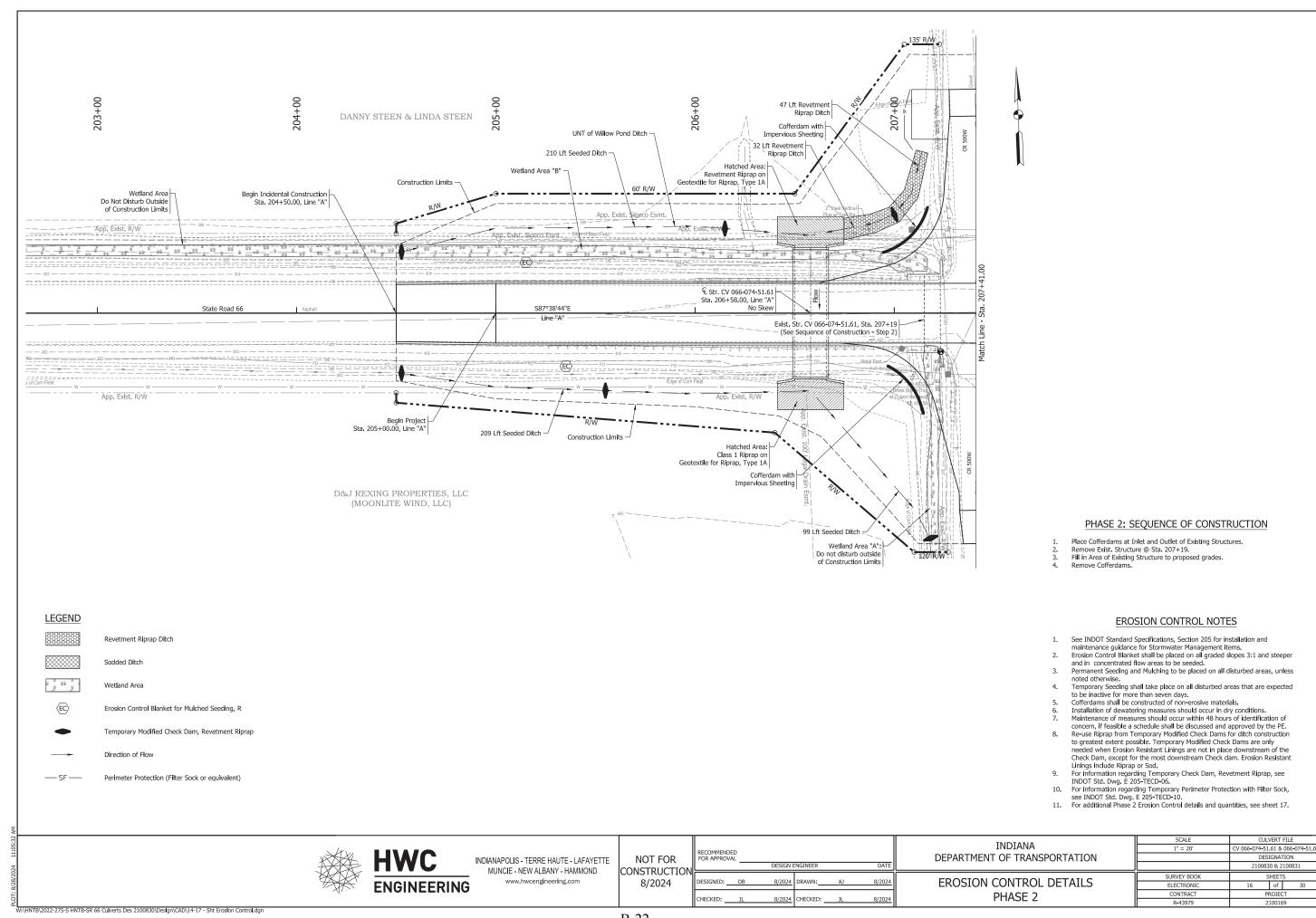


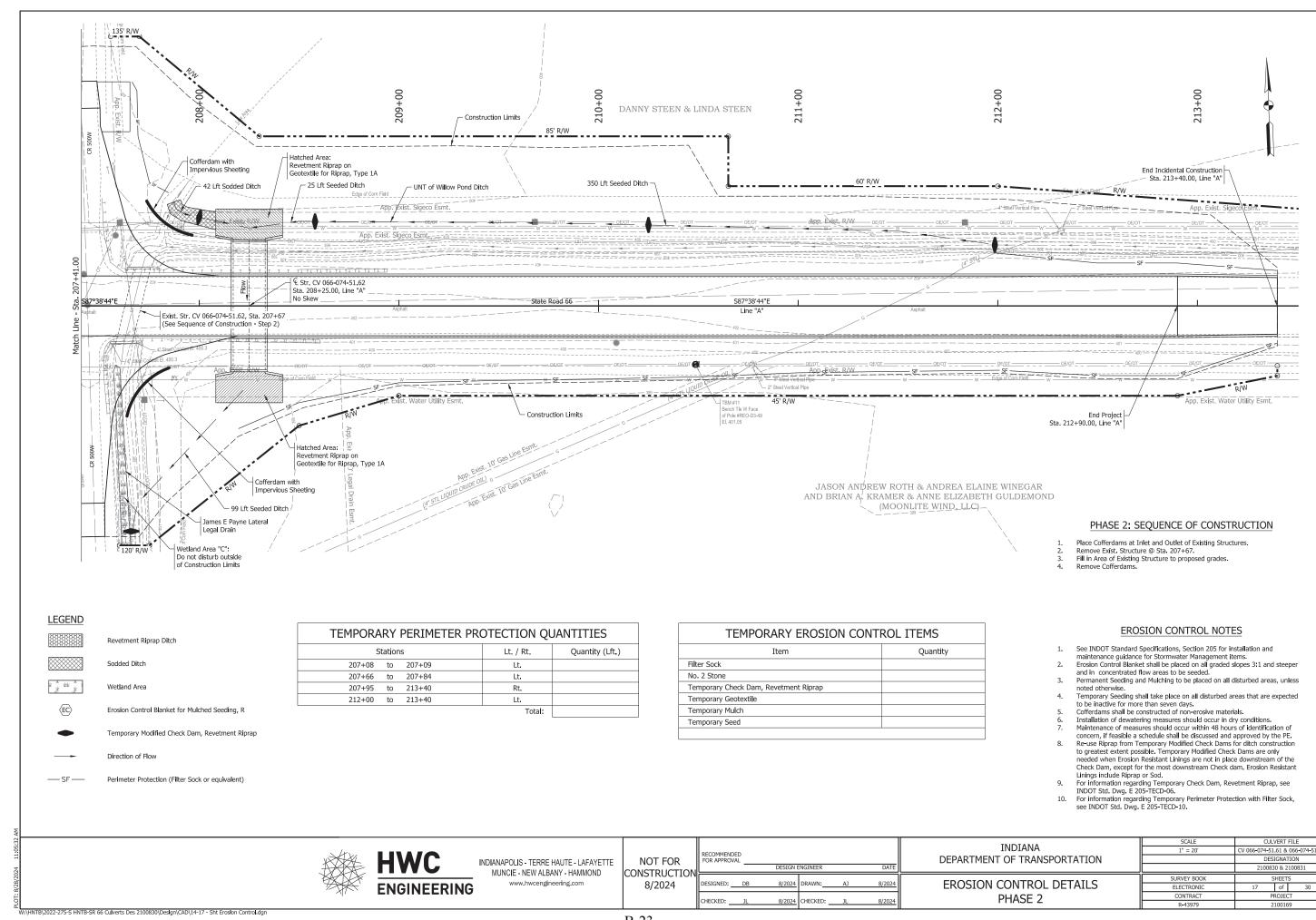


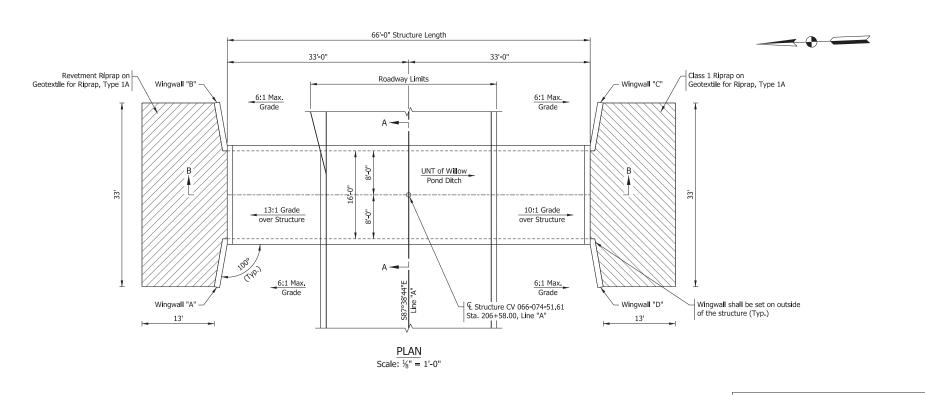












← £ Structure

Inv. El. 395.16 *

12'-0'

Lane

Flow @ 0.50% _

Waterproofing Membrane

★ P.G. El. 402.65 —

16'-0" Spar

SECTION A-A Scale: ½" = 1'-0"

66'-0" Structure Length

(Typ.)

12'-0"

& Line "A"

NOTE TO REVIEWER

PRELIMINARY HYDRAULIC DATA WAS PROVIDED FOR STRUCTURE. THE PROPOSED DESIGN IS IN ACCORDANCE WITH PRELIMINARY HYDRAULIC INFORMATION. PER COORDINATION WITH INDOT, THE HYDRAULIC DATA WILL BE RE-EVALUATED DUE TO ADJUSTMENT OF STRUCTURE LOCATION FROM STAGE 1 SUBMISSION, INDOT WILL REVISE HYDRAULIC DESIGN DATA AFTER STAGE 2 SUBMISSION. REVISED HYDRAULIC DATA WILL BE INCLUDED AT STAGE 3.

- Outlet Flowline El. 395.99

- Outlet Inv. El. 394.99

EXISTING STRUCTURE

Existing Structure CV 066-074-51.61 is an 8' x 4' Reinforced Concrete Box crossing under State Road 66. Structure has wingwalls at the inlet and the outlet. Existing Structure to be removed.

GENERAL NOTES

Reinforcing steel cover shall be 3" in footings, except bottom steel which shall be 4", and 2" In all other parts, unless noted otherwise.

Wingwalls shall be set on outside of the ends of the Precast Box Structure.

All exposed faces of cast-in-place concrete shall be surface sealed.

DESIGN DATA

Actual weight plus 35 psf (composite) for future wearing surface.

DESIGN STRENGTHS
To be in accordance with Section 714 of the Standard Specifications.

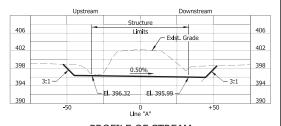
CONCRETE Class C

f'c = 4,000 psi Class B fc = 3.000 nsif'c = 3,500 psi

REINFORCING STEEL Grade 60

fy = 60,000 psi(Coated Reinforcement Required)

HYDRAULIC DATA - CV 066-074-51.61



PROFILE OF STREAM

Horizontal Scale: 1" = 30 Vertical Scale: 1" = 10'

NOTES

- 1. Contractor shall verify the existing Flowline Elevation to set the
- appropriate Sump Depth.
- For additional Structure details, see sheet 19.
 For additional Information regarding Joint Sealing and Membrane Detail, see INDOT Std. Dwg. E 714-BCJT-01.

STRUCTURE CV 066-074-51.61 REINFORCED CONCRETE BOX STRUCTURE 16'-0" SPAN, 4'-0" RISE; NO SKEW S.R. 66 OVER U.N.T. WILLOW POND DITCH SPENCER COUNTY, IN



Profile Grade

3'-0"

Shldr.

Limits of Structure Backfill.

Type 2 adjacent to Structure

4%

20'-0" Obstruction-Free Zone

Grade uniformly over

Structure with Borrow

Membrane

Revetment Riprap on

Geotextile for Riprap, Type 1A

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SECTION B-B

Scale: $\frac{1}{4}$ " = 1'-0"

RECOMMENDED FOR APPROVAL NOT FOR CONSTRUCTION 8/2024 8/2024 8/2024 CHECKED:

* Note: Values shown

are along Line "A"

20'-0" Obstruction-Free Zone

Structure Backfill, Type 2 to bottom of Pavement Section over Structure

Grade uniformly over Structure with Borrow

Class 1 Riprap on

Geotextile for Riprap, Type 1A

Inner Limits of Structure

Limits of Structure Backfill.

Type 2 adjacent to Structure

4%

Backfill, Type 2 above Structure

INDIANA DEPARTMENT OF TRANSPORTATION STRUCTURE DETAILS

CV 066-074-51.61

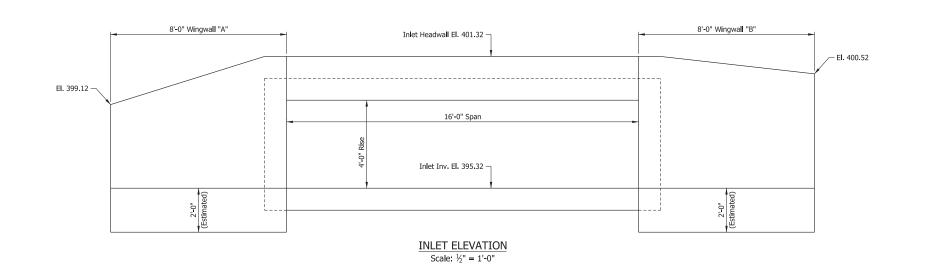
SCALE CULVERT FILE CV 066-074-51.61 & 066-074-51.0 2100830 & 2100831 SURVEY BOOK ELECTRONIC of CONTRACT

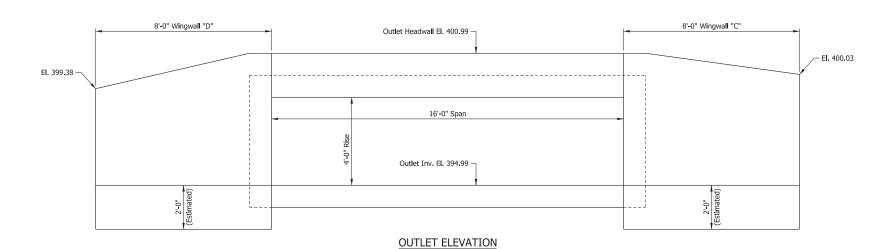
1'-0" Headwall

(Typ.)

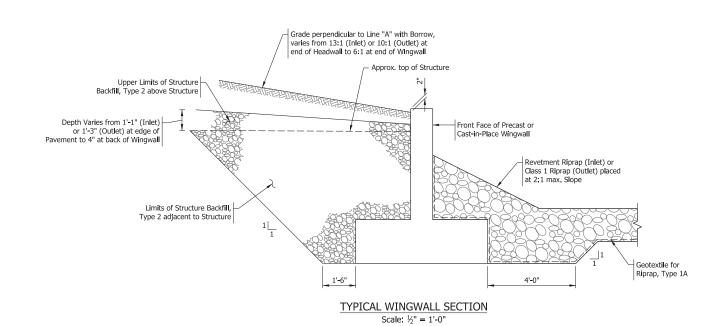
Inlet Flowline El. 396.32 -

Inlet Inv. El. 395.32





Scale: ½" = 1'-0"



SOIL PARAMETERS FOR WINGWALL DESIGN

Factored Bearing Resistance (Wingwalls and R,C, Box) (psf)

Angle of Internal Friction of Backfill (Øb)

Interface Friction Angle between Concrete and Soil (δ)

Estimated Unit Weight, y moist/saturated (pcf)

Normal Cohesion (psf)

Factored Cohesion (psf)

BILL OF MATERIALS MISCELLANEOUS

Structure, Reinforced Concrete, Coated, Box Section, 16' Span x 4' Rise 66.0 Lft

WINGWALL AREAS		
Item	Quantity	
Wingwall "A"		
Wingwall "B"		
Wingwall "C"		
Wingwall "D"		

NOTE TO REVIEWER

SOIL PARAMETER INFORMATION, STRUCTURE QUANTITIES, AND BACKFILL/UNDERFILL DETAILS WILL BE FINALIZED AFTER GEOTECHNICAL EVALUATION HAS BEEN COMPLETED.

NOTES

- 1. Contractor shall verify the existing Flowline Elevation to set the
- appropriate Sump Depth.
 2. For additional Structure details, see sheet 18.

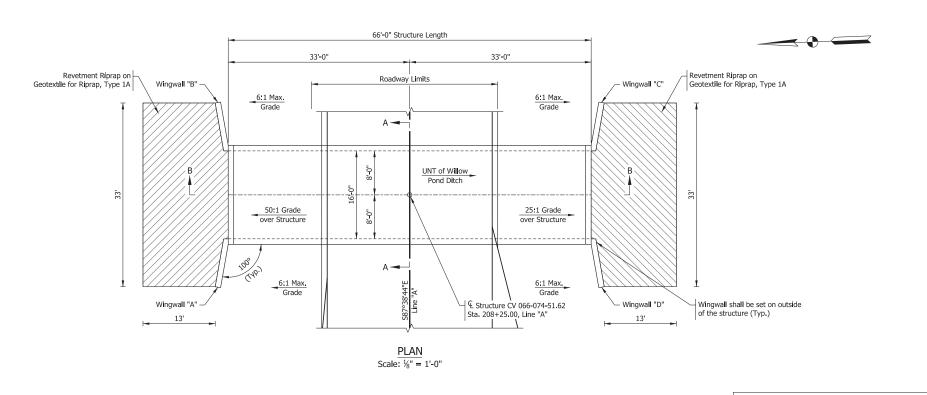


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INDIANA
DEPARTMENT OF TRANSPORTATION
STRUCTURE DETAILS

CV 066-074-51.61

W:\HNTB\2022-275-S HNTB-SR 66 Culverts Des 2100830\Design\CAD\18-19 - Sht Structure Details CV 066-074-51.61.dgn



Inv. El. 397.20 *

Lane

Flow @ 0.50%

Waterproofing Membrane

Limits of Structure Backfill, Type 2

4%

Limits of Structure

Backfill, Type 5

NOTE TO REVIEWER

PRELIMINARY HYDRAULIC DATA WAS PROVIDED FOR STRUCTURE. THE PROPOSED DESIGN IS IN ACCORDANCE WITH PRELIMINARY HYDRAULIC INFORMATION. PER COORDINATION WITH INDOT, THE HYDRAULIC DATA WILL BE RE-EVALUATED DUE TO ADJUSTMENT OF STRUCTURE LOCATION FROM STAGE 1 SUBMISSION, INDOT WILL REVISE HYDRAULIC DESIGN DATA AFTER STAGE 2 SUBMISSION. REVISED HYDRAULIC DATA WILL BE INCLUDED AT STAGE 3.

- Outlet Flowline El. 398.03

- Outlet Inv. El. 397.03

EXISTING STRUCTURE

Existing Structure CV 066-074-51.62 is an 8'-0" \times 2'-6" Reinforced Concrete Box crossing under State Road 66. Structure has no wingwalls. Existing Structure to be removed.

GENERAL NOTES

Reinforcing steel cover shall be 3" in footings, except bottom steel which shall be 4", and 2" In all other parts, unless noted otherwise.

Wingwalls shall be set on outside of the ends of the Precast Box Structure.

All exposed faces of cast-in-place concrete shall be surface sealed.

DESIGN DATA

Actual weight plus 35 psf (composite) for future wearing surface.

<u>DESIGN STRENGTHS</u>
To be in accordance with Section 714 of the Standard Specifications.

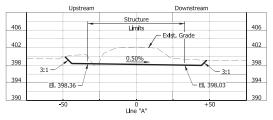
CONCRETE Class C

f'c = 4,000 psi Class B fc = 3.000 nsif'c = 3,500 psi

REINFORCING STEEL Grade 60 fy = 60,000 psi(Coated Reinforcement Required)

HYDRAULIC DATA - CV 066-074-51.62

Drainage Area Upstream	XXX	sq mi
Q100 Discharge Upstream	XXX	cfs
Q100 Tailwater Depth	XXX	ft
Proposed Flowline at Inlet Elevation	XXX	ft
Proposed Flowline at Outlet Elevation	XXX	ft
Proposed Slope of Structure	XXX	%
Proposed Q100 Headwater Elevation	XXX	ft
Existing Q100 Headwater Elevation	XXX	ft
Proposed Backwater	XXX	ft
Existing Backwater	XXX	ft
Proposed Low Structure Elevation	XXX	ft
Existing Low Structure Elevation	XXX	ft
Proposed Skew to Flowline of Waterway	XXX	deg
Existing Skew to Flowline of Waterway	XXX	deg



PROFILE OF STREAM

Horizontal Scale: 1" = 30 Vertical Scale: 1" = 10'

NOTES

- 1. Contractor shall verify the existing Flowline Elevation to set the appropriate Sump Depth.

For additional Structure details, see sheet 21.
For additional information regarding Joint Sealing and Membrane Detail, see INDOT Std. Dwg. E 714-BCJT-01.

STRUCTURE CV 066-074-51.62 REINFORCED CONCRETE BOX STRUCTURE 16'-0" SPAN, 4'-0" RISE; NO SKEW S.R. 66 OVER U.N.T. WILLOW POND DITCH SPENCER COUNTY, IN



Profile Grade -

Limits of Structure

20'-0" Obstruction-Free Zone

Grade uniformly over Structure with Borrow

Membrane

Revetment Riprap on

Geotextile for Riprap, Type 1A

Backfill, Type 5

Shldr.

4%

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SECTION B-B

Scale: $\frac{1}{4}$ " = 1'-0"

★ P.G. El. 403.95 —

16'-0" Spar

4 Roadway

& Line "A"

SECTION A-A Scale: ½" = 1'-0"

66'-0" Structure Length

(Typ.)

RECOMMENDED FOR APPROVAL NOT FOR CONSTRUCTION 8/2024 8/2024 8/2024 CHECKED:

* Note: Values shown are along Line "A"

20'-0" Obstruction-Free Zone

Structure Backfill, Type 2 to bottom of Pavement Section over Structure

Grade uniformly over

Revetment Riprap on

Geotextile for Riprap, Type 1A

INDIANA DEPARTMENT OF TRANSPORTATION STRUCTURE DETAILS

CV 066-074-51.62

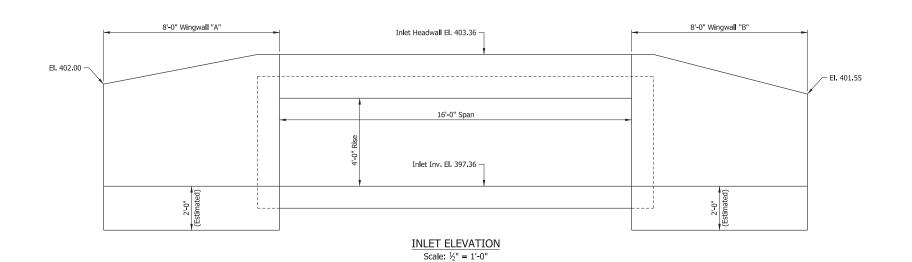
SCALE CULVERT FILE CV 066-074-51.61 & 066-074-51.0 2100830 & 2100831 SURVEY BOOK ELECTRONIC of CONTRACT

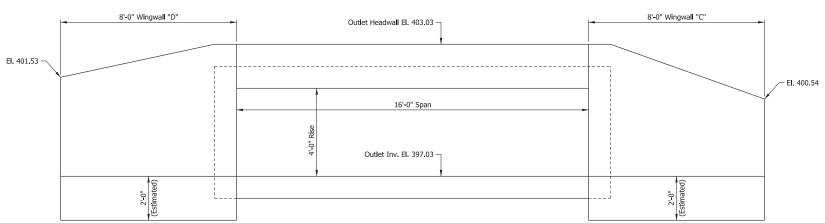
1'-0" Headwall

(Typ.)

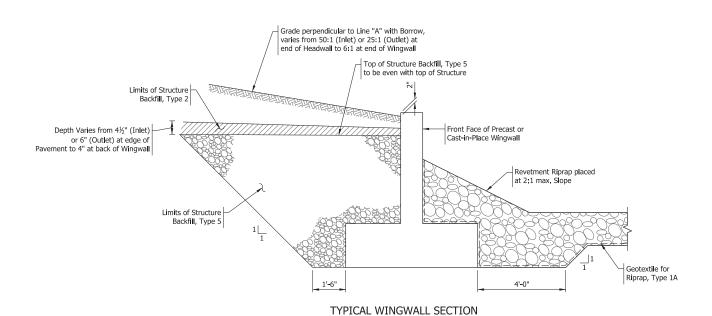
Inlet Flowline El. 398.36 -

Inlet Inv. El. 397.36





OUTLET ELEVATION Scale: ½" = 1'-0"



SOIL PARAMETERS FOR WINGWALL DESIGN

Factored Bearing Resistance (Wingwalls and R.C. Box) (psf)

Angle of Internal Friction of Backfill (Øb)

Interface Friction Angle between Concrete and Soil (δ)

Estimated Unit Weight, y moist/saturated (pcf)

Normal Cohesion (psf)

Factored Cohesion (psf)

BILL OF MATERIALS MISCELLANEOUS

Structure, Reinforced Concrete, Coated, Box Section, 16' Span x 4' Rise 66.0 Lft

WINGWALL AREAS		
Item	Quantity	
Wingwall "A"		
Wingwall "B"		
Wingwall "C"		
Wingwall "D"		

NOTE TO REVIEWER

SOIL PARAMETER INFORMATION, STRUCTURE QUANTITIES, AND BACKFILL/UNDERFILL DETAILS WILL BE FINALIZED AFTER GEOTECHNICAL EVALUATION HAS BEEN COMPLETED.

NOTES

- Contractor shall verify the existing Flowline Elevation to set the appropriate Sump Depth,
- appropriate Sump Depth.
 2. For additional Structure details, see sheet 20.



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Scale: ½" = 1'-0"

APPENDIX C: EARLY COORDINATION

Early Coordination Package Early Coordination Responses



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 **Eric Holcomb, Governor Michael Smith, Commissioner**

January 23, 2024

Re: Early Coordination Letter, INDOT Des. Nos.: 2100830 and 2100831, Small Structures Project on SR 66, 1.00 Mile East of the West Junction with SR 161, Spencer County, Indiana

To Whom It May Concern:

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

This project is located on State Road (SR) 66, 1.00 mile east of the west junction with SR 161, in Spencer County. This section of SR 66 is a two-lane Rural – Other - Principal Arterial roadway that consists of two 12-foot (ft) wide travel lanes bordered by minimal shoulders. The existing small structures carry SR 66 over unnamed tributaries to Willow Pond Ditch. Structure No. CV 066-074-51.62 is a reinforced concrete box structure measuring 34-ft long, 8-ft wide by 2-ft 6-in rise and Structure No. CV 066-074-51.61 is a reinforced concrete box structure measuring 34-ft long, 8-ft wide by 4-ft rise. The structures are showing signs of deterioration with vertical cracking and efflorescence present along the sidewalls and slabs on the inside of the structures. Delamination is also present along the guardrails, which are present at the structures and along the SR 66 roadway. The draft need is due to the deterioration of the existing structures (rating 5 and 6 out of 9), which are in fair and satisfactory conditions. The draft purpose is to have structures with a condition rating of at least 7 (good condition) out of 9 and to extend the overall service life of the structures. The approximate existing right-of-way varies between 30 ft and 60 ft along the south side of the SR 66 centerline and between 40 ft and 60 ft along the north side of the SR 66 centerline throughout the project area.

The proposed project is anticipated to replace and relocate the existing structures and relocate the corresponding roadway ditches to accommodate drainage. Both structures will be replaced with reinforced concrete box culverts measuring 38-ft long, 16-ft wide by 4-ft rise. Structure No. CV 066-074-51.61 will be relocated approximately 132-ft to the west and Structure No. CV 066-074-51.62 will be relocated approximately 128-ft to the east. The project requires the acquisition of a maximum of 2 acres of permanent right-of-way. Proposed right-of-way widths would vary between 35 ft and 120 ft from the SR 66 centerline. The project will be approximately 0.21 mile in length. The proposed method of traffic maintenance is anticipated to require a road closure with a detour route utilizing SR 161, SR 62, SR 162, and US 231. No trees will be cleared as part of this project. The project is anticipated to begin construction in summer 2026.

Permanent right-of-way amount has been updated to 2.223 acres. No temporary right-of-way is required.

Land use in the vicinity of the project consists of agricultural land surrounding SR 66. The INDOT Environmental Services Division (ESD) Ecology & Waterway Permitting Office (EWPO) will review the waters and wetlands determinations completed by ASC Group, Inc. to identify any ecological resources that may be present. The project is anticipated to qualify for the Range-wide Programmatic Agreement for the Indiana bat and northern long-eared bat by completing the Information for Planning and Consultation (IPaC). Coordination will occur with INDOT Cultural Resources Office (CRO) to evaluate the project area for archaeological and historic resources and for Section 106 compliance. The results of this investigation will be forwarded to the State Historic Preservation Officer (SHPO) for review and concurrence as appropriate.



Please provide your response within thirty (30) calendar days from the date of this letter. However, should you find that an extension to the response time is necessary, a reasonable amount may be granted upon request. If you have any questions regarding this matter, please feel free to contact Harry Nikides, Indiana Regional Manager, at hnikides@ascgroup.net or 317.915.9300, ext. 100 or Dakota Risse, INDOT Project Manager, at DaRisse@indot.IN.gov or 812.404.8620. Thank you in advance for your input.

Sincerely,

Harry Nikides

Indiana Regional Manager

Dang A. Mile

ASC Group, Inc.

cc: Harry Nikides, ASC Group, Inc.

Junette Toe, HNTB

Attachments:

List of Agencies

Maps/Graphics (Location, Topographic, Aerial, and Photographs)



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 **Eric Holcomb, Governor Michael Smith, Commissioner**

The following agencies received Early Coordination Letters:

Federal Highway Administration (FHWA)
Federal Office Building, Room 254
575 North Pennsylvania Street
Indianapolis, IN 46204
(Electronic Coordination)
Patrick Carpenter —Fort Wayne, Seymour, and Vincennes
Districts Patrick.carpenter@dot.gov

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

Environmental Coordinator
Indiana Department of Natural Resources-Division of Fish and Wildlife (IDNR-DFW)
402 West Washington Street, Room W273
Indianapolis, IN 46204
(Electronic Coordination)
environmentalreview@dnr.in.gov

Field Environmental Officer
Chicago Regional Office
U.S. Department of Housing and Urban Development
Metcalf Federal Building
77 West Jackson Boulevard, Room 2401
Chicago, IL 60604
(Electronic Coordination)
Erik.r.sandstedt@hud.gov

INDOT

Vincennes District Office – Environmental Section Manager 3650 South US 41
Vincennes, IN 47591
(Electronic Coordination)
RFalls@indot.in.gov

INDOT

Vincennes District – Project Manager 3650 South US 41 Vincennes, IN 47591 (Electronic Coordination) DaRisse@indot.IN.gov Spencer County Council Members 200 Main Street Rockport, IN 47635 (Electronic Coordination) Council@spencercounty.in.gov

Spencer County Commissioner Members District 3 - Hammond, Huff and Harrison Townships 6378 East CR 700 North Grandview, IN 47615

Spencer County Highway Supervisor 920 East CR 800 North Chrisney, IN 47611 (Electronic Coordination) schwy@psci.net

Spencer County Surveyor 200 Main Street, Room 17 Rockport, IN 47635 (Electronic Coordination) surveyor@spencercounty.in.gov

North Spencer County School District 3720 East SR 162 Lincoln City, IN 47552 (Electronic Coordination) dscherry@mail.nspencer.k12.in.us

Spencer County Health Department 200 Main Street, Room 1 Rockport, IN 47635

Spencer County Fire Department 701 Buffaloville Road Dale, IN 47523 (Electronic Coordination) carterfire@sbcglobal.net

Spencer County Sheriff's Office 120 North 2nd Street Rockport, IN 47635 (Electronic Coordination) sheriff@spencercounty.in.gov



Spencer County EMS Rockport Station 1068 SR 66 Rockport, IN 47635

RFI contacts:

IDNR Division of Oil and Gas **RE: Petroleum Well Adjacent to Project**402 West Washington Street, Room 293
Indianapolis, IN 46204
(Electronic Coordination)
ccook@dnr.IN.gov

Sent to Agencies on July 29, 2024:

Chief, Groundwater Section
Indiana Department of Environmental Management (IDEM)
100 North Senate Avenue
Indianapolis, IN 46204
(Electronic Coordination)
ATurnbow@idem.IN.gov

State Conservationist
Natural Resources Conservation Service (NRCS)
6013 Lakeside Boulevard
Indianapolis, IN 46278
(Electronic Coordination)
john.allen@usda.gov

INDOT
Office of Aviation
100 North Senate Avenue, Room 955
Indianapolis, IN 46204
(Electronic Coordination)
tlewandowski@indot.in.gov

Sent to Agencies on August 7, 2024:

Evansville Water Utility
RE: Wellhead Protection Area
1301 Waterworks Road
Evansville, IN 47713
(Electronic Coordination)
bcaudill@ewsu.com

Sent to Agencies on August 16, 2024:

RFI contacts:

IDNR Division of Oil and Gas **RE: Petroleum Well Adjacent to Project**402 West Washington Street, Room 293
Indianapolis, IN 46204
(Electronic Coordination)

ccook@dnr.IN.gov

Sent to Agencies on August 21, 2024:

Reo Water

RE: Public Water System

3067 West SR 66

Rockport, IN 47635
(Electronic Coordination)

JWETZEL@MIDWESTERNENG.COM







Organization and Project Information

Project ID: Des. ID:

Project Title: SR 66 Small Structures and Roadway Project

Name of Organization: ASC Group, Inc. Requested by: **Cameron Berry**

Environmental Assessment Report

1. Geological Hazards:

High liquefaction potential

Mineral Resources:

Bedrock Resource: High Potential

Sand and Gravel Resource: Low Potential

Active or abandoned mineral resources extraction sites:

Petroleum Exploration Wells

*Map layers from the Indiana Geological and Water Survey and Indiana Map

DISCLAIMER:

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

This information was furnished by Indiana Geological Survey

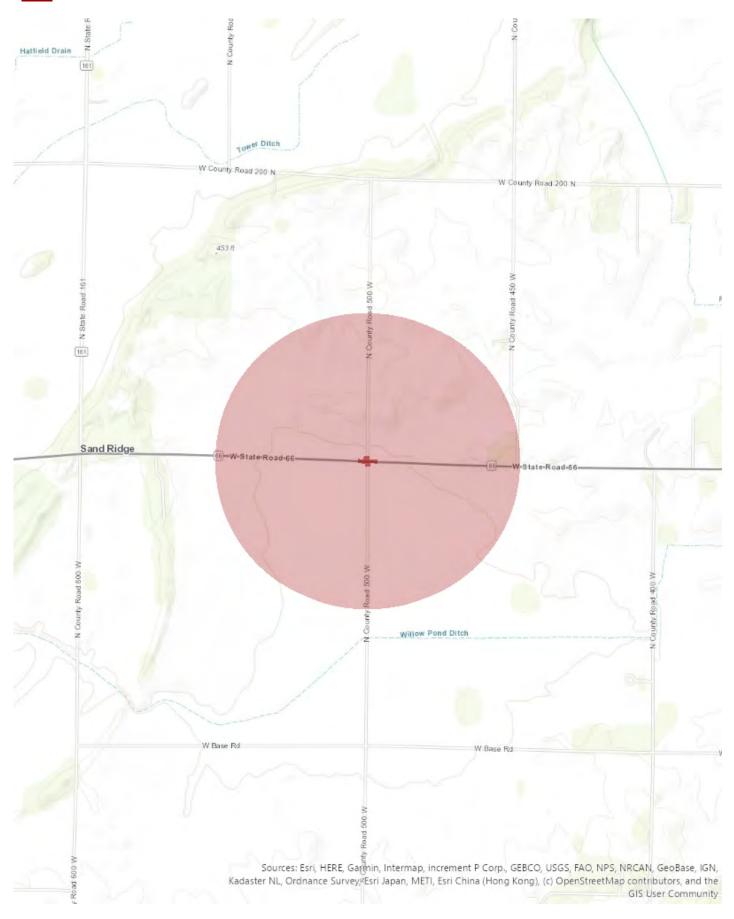
Address: 420 N. Walnut St., Bloomington, IN 47404

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428 Date: December 21, 2023









Metadata:

- https://igws.indiana.edu/pdms/
- https://portal.igs.indiana.edu/arcgis/rest/services/Seismic_Earthquake_Liquefaction_Potential/MapServer/info/metadata
- $\bullet \ https://portal.igs.indiana.edu/arcgis/rest/services/Industrial_Minerals_SandAndGravel_Resources/MapServer/info/metadata$
- https://portal.igs.indiana.edu/arcgis/rest/services/Bedrock_Geology/MapServer/info/metadata

Jennifer Rhodes

From: Falls, Ryan G <RFalls@indot.IN.gov>
Sent: Wednesday, January 24, 2024 8:26 AM

To: Cameron Berry; Harry Nikides; Risse, Dakota W

Cc: Junette Toe; Christine Meador

Subject: RE: Des 2100830 & 2100831 Small Structures Project on SR 66 - Early Coordination Letter

Cameron Berry,

For future documentation, the correct termini are:

-2100830: CV 066-074-51.61: 1.00 Mile East of the West Junction with SR 161 -2100831: CV 066-074-51.62: 1.01 Mile East of the West Junction with SR 161

I understand they are just on opposite sides of the county road, but, similar to IPaC, all NEPA documents and attachments need to have them be differentiated.

Thank you for the opportunity to respond to early coordination.

Ryan Falls

Senior Environmental Manager Supervisor

Indiana Department of Transportation Vincennes District

Cell: 812-582-1387

Email: <u>rfalls@indot.in.gov</u> <u>Find us on social media!</u>



From: Cameron Berry <cberry@ascgroup.net> Sent: Tuesday, January 23, 2024 4:10 PM

To: hNikides <hnikides@ascgroup.net>; Risse, Dakota W <DaRisse@indot.IN.gov> **Cc:** Junette Toe <jtoe@HNTB.com>; Christine Meador <CMeador@HNTB.com>

Subject: Des 2100830 & 2100831 Small Structures Project on SR 66 - Early Coordination Letter

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

Des. No.: 2100830 & 2100831

Project Description: SR 66 Small Structures Project, 1.00 Mile East of the West Junction with SR 161

Location: Spencer County, Indiana

INDOT and FHWA are in the planning stage for a small structures project on SR 66, Spencer County, Indiana.

This letter is part of the early coordination phase of the environmental review process. We are requesting comments from your area of expertise regarding potential environmental impacts with recommendations for avoidance, minimization, and mitigation.

Federal Highway Administration (FHWA)

Indiana Department of Environmental Management (IDEM) Wellhead Proximity Determinator Indiana Geological & Water Survey (IGWS)

THIS IS NOT A PERMIT

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

Early Coordination/Environmental Assessment

DNR#: ER-26241

Request Received: January 23, 2024

Requestor:

Harry Nikides ASC Group Incorporated 9376 Castlegate Drive Indianapolis, IN 46256

Project:

SR 66 small structure (CV 066-074-51.61 & CV 066-074-51.62) replacement and relocation over UNT Willow Pond Ditch, 1.00 mile east of the west junction with SR 161; Des #2100830 & 2100831

County/Site Info: Spencer County

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

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

Regulatory Assessment:

Formal approval by the Department of Natural Resources under the regulatory programs administered by the Division of Water is not required for this project.

Natural Heritage Database:

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

Fish and Wildlife Comments:

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

A) Crossing Structures

For purposes of maintaining fish and wildlife passage through a crossing structure, the Environmental Unit recommends bridges rather than culverts and bottomless culverts rather than box or pipe culverts. Wide culverts are better than narrow culverts, and culverts with shorter through lengths are better than culverts with longer through lengths. If box or pipe culverts are used, the bottoms should be buried a minimum of 6" or 20% of the culvert height/pipe diameter (whichever is greater) up to a maximum of 2' below the stream bed elevation to allow a natural streambed to form within or under the crossing structure. Crossings should:

- Span the entire channel width (a minimum of 1.2 times the ordinary high-water mark width);
- Maintain the natural stream substrate within the structure; and
- Have stream depth, channel width, and water velocities during low-flow conditions that are approximate to those in the natural stream channel.

 Banklines should be restored within box and pipe structures to allow for wildlife passage above the ordinary highwater mark.

The new, replacement, or rehabbed structure, and any bank stabilization under it, should not create conditions that are less favorable for wildlife passage under the structure compared to the current conditions. When determining an appropriate bridge or culvert size, consider whether wildlife/vehicle collisions are a concern at the crossing site. If feasible, a larger bridge or culvert opening can allow for the movement of wildlife under the roadway to minimize wildlife/vehicle collisions.

B) Riprap Aprons

Any riprap placed at the culvert's outlet/inlet needs to be installed at grade (or countersunk then backfilled with native material). The slope of the riprap should match the stream's gradient. Additionally, riprap should be mixed with smaller stone and fines to match the existing stream substrate particle distribution and provide impermeability of the riprap apron/substrate so the flow doesn't percolate through the voids below the riprap apron's surface.

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

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

Contact Staff:

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

Date: February 22, 2024

Rachel Van Voorhis
Rachel Van Voorhis
Environmental Coordinator
Division of Fish and Wildlife

C-11



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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

In Reply Refer To: 10/16/2024 13:14:21 UTC

Project Code: 2023-0133632

Project Name: Des No. 2100830 & 2100831, SR 66 Small Structure Replacements and HMA

Roadway Reconstruction

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

location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

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

Project code: 2023-0133632

<u>s7process/index.html</u>. This website contains step-by-step instructions which will help you determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process. For all **wind energy projects** and **projects that include installing towers that use guy wires or are over 200 feet in height**, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

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

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

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

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

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

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

migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

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

This species list is provided by:

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

PROJECT SUMMARY

Project code: 2023-0133632

Project Code: 2023-0133632

Project Name: Des No. 2100830 & 2100831, SR 66 Small Structure Replacements and

HMA Roadway Reconstruction

Project Type: Road/Hwy - Maintenance/Modification

Project Description: The Indiana Department of Transportation (INDOT) is in the planning

stage for a proposed small structure replacements and HMA roadway reconstruction project along SR 66, at County Road 500 W in Spencer

County, Indiana (Des No. 2100830 & 2100831).

This segment of SR 66 is Rural Principal Arterial. It is assumed this project will be designed using 3R criteria. The design shall maintain corridor uniformity without degradation of the overall safety features of the highway. The project will replace two existing small structures along SR 66:

-DES 2100830; CV 066-074-51.61; SR 66, 1.00 mi E W JCT SR 161; 8'x4'x34'

-DES 2100831; CV 066-074-51.62; SR 66, 1.01 mi E W JCT SR 161; 8'x3'x34'

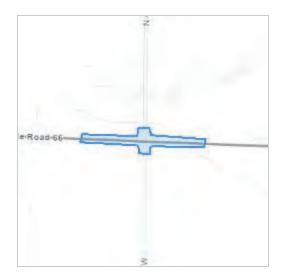
The two existing structures are reinforced concrete box culverts, measuring 8' span x 4' rise and 8' span x 3' rise respectively. The total lengths of the existing structures are approximately 34' and water flows north to south through the structures. In addition the structure replacements, the project will include an HMA roadway reconstruction to raise the profile through the locations of the structures, the reconstruction of 2 public road approaches, and the removal and replacement approach guardrail at the structures.

There is suitable summer bat habitat within and near the project area, but these areas will remain undisturbed. No tree trimming or clearing will occur as part of this project. On September 18, 2023 a review of the USFWS database by INDOT Environmental District did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. A structure bat inspection was conducted by qualified ASC Group Inc. staff on September 14, 2023. Bats were not observed within or near the structures, nor was any evidence of bat roosting documented at the structures. The use of temporary lighting is possible during construction, however no permanent lighting will be necessary for the project. Construction is anticipated to occur in Summer 2026.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.90208935,-87.15076858670591,14z

Project code: 2023-0133632



Counties: Spencer County, Indiana

ENDANGERED SPECIES ACT SPECIES

Project code: 2023-0133632

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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

MAMMALS

NAME STATUS

Gray Bat *Myotis grisescens*

Project code: 2023-0133632

Endangered

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/6329

Indiana Bat *Myotis sodalis*

Endangered

Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

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

Northern Long-eared Bat Myotis septentrionalis

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

Tricolored Bat *Perimyotis subflavus*

Proposed

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515

Endangered

BIRDS

NAME STATUS

Whooping Crane *Grus americana*

Experimental

Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY)

Population, Non-

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/758

Essential

INSECTS

NAME STATUS

Monarch Butterfly Danaus plexippus

Candidate

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

CRITICAL HABITATS

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

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

BALD & GOLDEN EAGLES

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

Project code: 2023-0133632 10/16/2024 13:14:21 UTC

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

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

THERE ARE NO BALD AND GOLDEN EAGLES WITHIN THE VICINITY OF YOUR PROJECT AREA.

MIGRATORY BIRDS

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

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

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

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

NAME	BREEDING SEASON
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Field Sparrow <i>Spizella pusilla</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9446	Breeds Mar 1 to Aug 15

NAME BREEDING SEASON

Lesser Yellowlegs *Tringa flavipes*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9679

Prairie Warbler *Setophaga discolor*

Breeds May 1 to Jul

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9513

Rusty Blackbird Euphagus carolinus

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

https://ecos.fws.gov/ecp/species/9478

PROBABILITY OF PRESENCE SUMMARY

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

Probability of Presence (■)

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

Breeding Season (

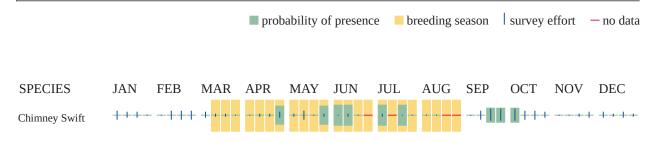
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

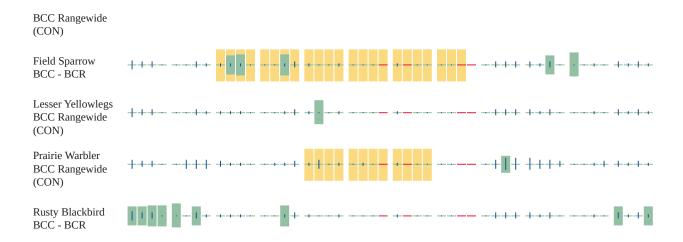
Survey Effort (|)

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

No Data (-)

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





Additional information can be found using the following links:

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

WETLANDS

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

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

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

RIVERINE

R5UBFx

IPAC USER CONTACT INFORMATION

Agency: ASC Group
Name: Cameron Berry
Address: 9376 Castlegate Dr

City: Indianapolis

Project code: 2023-0133632

State: IN Zip: 46256

Email cberry@ascgroup.net

Phone: 3179159300

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration



United States Department of the Interior



FISH AND WILDLIFE SERVICE

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

In Reply Refer To: October 16, 2023

Project code: 2023-0133632

Project Name: Des No. 2100830 & 2100831, SR 66 Small Structure Replacements and HMA

Roadway Reconstruction

Subject: Concurrence verification letter for the 'Des No. 2100830 & 2100831, SR 66 Small

Structure Replacements and HMA Roadway Reconstruction' project under the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for Transportation Projects within the Range of the Indiana

Bat and Northern Long-eared Bat (NLEB).

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request dated October 16, 2023 to verify that the **Des No. 2100830 & 2100831, SR 66 Small Structure Replacements and HMA Roadway Reconstruction** (Proposed Action) may rely on the concurrence provided in the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for Transportation Projects within the Range of the Indiana Bat and Northern Longeared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, and may affect, but is <u>not likely to adversely affect</u> (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the endangered northern long-eared bat (*Myotis septentrionalis*). Consultation with the Service pursuant to section 7(a)(2) of ESA (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required.

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

Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO.

For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities: If your initial bridge/culvert or structure assessment documented signs of bat use or occupancy, or an assessment failed to detect Indiana bats and/or NLEBs, yet are later detected prior to, or during construction, please submit the Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form (User Guide Appendix E) to this Service Office within 2 working days of any potential take. In these instances, potential incidental take of Indiana bats and/or NLEBs is covered under the Incidental Take Statement in the 2018 FHWA, FRA, FTA PBO (provided that the take is reported to the Service).

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required.

For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities:

If your initial bridge/culvert or structure assessments failed to detect Indiana bats and/or NLEB use or occupancy, yet bats are later detected prior to, or during construction, please submit the Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form (User Guide Appendix E) to this Service Office within 2 working days of the incident. In these instances, potential incidental take of Indiana bats and/or NLEBs may be exempted provided that the take is reported to the Service.

If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

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

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

PROJECT DESCRIPTION

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

NAME

Des No. 2100830 & 2100831, SR 66 Small Structure Replacements and HMA Roadway Reconstruction

DESCRIPTION

The Indiana Department of Transportation (INDOT) is in the planning stage for a proposed small structure replacements and HMA roadway reconstruction project along SR 66, at County Road 500 W in Spencer County, Indiana (Des No. 2100830 & 2100831).

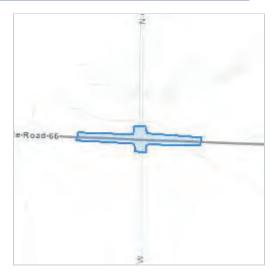
This segment of SR 66 is Rural Principal Arterial. It is assumed this project will be designed using 3R criteria. The design shall maintain corridor uniformity without degradation of the overall safety features of the highway. The project will replace two existing small structures along SR 66:

```
-DES 2100830; CV 066-074-51.61; SR 66, 1.00 mi E W JCT SR 161; 8'x4'x34' -DES 2100831; CV 066-074-51.62; SR 66, 1.01 mi E W JCT SR 161; 8'x3'x34'
```

The two existing structures are reinforced concrete box culverts, measuring 8' span x 4' rise and 8' span x 3' rise respectively. The total lengths of the existing structures are approximately 34' and water flows north to south through the structures. In addition the structure replacements, the project will include an HMA roadway reconstruction to raise the profile through the locations of the structures, the reconstruction of 2 public road approaches, and the removal and replacement approach guardrail at the structures.

There is suitable summer bat habitat within and near the project area, but these areas will remain undisturbed. No tree trimming or clearing will occur as part of this project. On September 18, 2023 a review of the USFWS database by INDOT Environmental District did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. A structure bat inspection was conducted by qualified ASC Group Inc. staff on September 14, 2023. Bats were not observed within or near the structures, nor was any evidence of bat roosting documented at the structures. The use of temporary lighting is possible during construction, however no permanent lighting will be necessary for the project. Construction is anticipated to occur in Summer 2026.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.90208935,-87.15076858670591,14z



DETERMINATION KEY RESULT

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the endangered Indiana bat and/or the endangered northern long-eared bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

QUALIFICATION INTERVIEW

- 1. Is the project within the range of the Indiana bat^[1]?
 - [1] See Indiana bat species profile

Automatically answered

Yes

- 2. Is the project within the range of the northern long-eared bat^[1]?
 - [1] See northern long-eared bat species profile

Automatically answered

Yes

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

No

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

7. Is the project located **within** a karst area? *No*

8. Is there *any* suitable^[1] summer habitat for Indiana Bat or NLEB **within** the project action area^[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

- [1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat.
- [2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the <u>User's Guide for the Range-wide Programmatic Consultation for Indiana Bat and Northern Long-eared Bat.</u>

Yes

- 9. Will the project remove *any* suitable summer habitat^[1] and/or remove/trim any existing trees **within** suitable summer habitat?
 - [1] See the Service's $\underline{\text{summer survey guidance}}$ for our current definitions of suitable habitat. No
- 10. Have presence/probable absence (P/A) summer surveys^{[1][2]} been conducted^{[3][4]} **within** the suitable habitat located within your project action area?
 - [1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat.
 - [2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.
 - [3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.
 - [4] Negative presence/probable absence survey results obtained using the <u>summer survey guidance</u> are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

11. Does the project include activities within documented Indiana bat habitat^{[1][2]}?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

- 12. Does the project include activities within documented NLEB habitat^{[1][2]}?
 - [1] Documented roosting or foraging habitat for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)
 - [2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

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

Yes

14. Does the project include slash pile burning?

- 15. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)? *Yes*
- 16. Is there *any* suitable habitat^[1] for Indiana bat or NLEB **within** 1,000 feet of the bridge? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)
 - [1] See the Service's current <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*

17. Has a bridge assessment^[1] been conducted **within** the last 24 months^[2] to determine if the bridge is being used by bats?

- [1] See <u>User Guide Appendix D</u> for bridge/structure assessment guidance
- [2] Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges that meet the physical characteristics described in the Programmatic Consultation, regardless of whether assessments have been conducted in the past. Due to the transitory nature of bat use, a negative result in one year does not guarantee that bats will not use that bridge/structure in subsequent years.

Yes

SUBMITTED DOCUMENTS

- Bridge Structure Bat Assessment Form DES 2100830.pdf https://
 ipac.ecosphere.fws.gov/project/3O3FXSU7VBGVHIY3NWDPRVCNVU/
 projectDocuments/133291858
- 18. Did the bridge assessment detect *any* signs of Indiana bats and/or NLEBs roosting in/under the bridge (bats, guano, etc.)^[1]?
 - [1] If bridge assessment detects signs of *any* species of bats, coordination with the local FWS office is needed to identify potential threatened or endangered bat species. Additional studies may be undertaken to try to identify which bat species may be utilizing the bridge prior to allowing *any* work to proceed.

Note: There is a small chance bridge assessments for bat occupancy do not detect bats. Should a small number of bats be observed roosting on a bridge just prior to or during construction, such that take is likely to occur or does occur in the form of harassment, injury or death, the PBO requires the action agency to report the take. Report all unanticipated take within 2 working days of the incident to the USFWS. Construction activities may continue without delay provided the take is reported to the USFWS and is limited to 5 bats per project.

No

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

No

20. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

No

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

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

Yes

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

24. Does the project include percussives or other activities (**not including tree removal**/ **trimming or bridge**/**structure work**) that will increase noise levels above existing traffic/ background levels?

Yes

25. Will the activities that use percussives (**not including tree removal/trimming or bridge/ structure work**) and/or increase noise levels above existing traffic/background levels be conducted *during* the active season^[1]?

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

Yes

- 26. Will *any* activities that use percussives (**not including tree removal/trimming or bridge/ structure work**) and/or increase noise levels above existing traffic/background levels be conducted *during* the inactive season^[1]?
 - [1] Coordinate with the local Service Field Office for appropriate dates.

Yes

27. Are *all* project activities that are **not associated with** habitat removal, tree removal/ trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives, limited to actions that DO NOT cause any additional stressors to the bat species?

Examples: lining roadways, unlighted signage, rail road crossing signals, signal lighting, and minor road repair such as asphalt fill of potholes, etc.

Yes

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

No

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

Automatically answered

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

30. Are the project activities that use percussives (not including tree removal/trimming or bridge/structure work) consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because the activities are within 300 feet of the existing road/rail surface, greater than 0.5 miles from a hibernacula, and conducted during the active season within undocumented habitat.

31. Are the project activities that use percussives (not including tree removal/trimming or bridge/structure work) and/or increase noise levels above existing traffic/background levels consistent with a No Effect determination in this key?

Automatically answered

Yes, because the activities are within 300 feet of the existing road/rail surface, greater than 0.5 miles from a hibernacula, and conducted during the inactive season

32. Is the bridge removal, replacement, or maintenance activities portion of this project consistent with a No Effect determination in this key?

Automatically answered

Yes, because the bridge has been assessed using the criteria documented in the BA and no signs of bats were detected

33. General AMM 1

Will the project ensure *all* operators, employees, and contractors working in areas of known or presumed bat habitat are aware of *all* FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable Avoidance and Minimization Measures?

Yes

34. Lighting AMM 1

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

Yes

PROJECT QUESTIONNAIRE

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

No

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

No

3. Please describe the proposed bridge work:

The project will replace the two existing concrete box culverts, measuring 8'x 4'x 34' and 8'x 3'x 34' respectively. In addition, the guardrails at these structures will be replaced.

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

Summer of 2026

5. Please enter the date of the bridge assessment:

September 14, 2023

AVOIDANCE AND MINIMIZATION MEASURES (AMMS)

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

10/16/2023

GENERAL AMM 1

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

LIGHTING AMM 1

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

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

This key was last updated in IPaC on July 27, 2023. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the endangered **northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should <u>only</u> be used to verify project applicability with the Service's <u>amended February 5</u>, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) <u>for Transportation Projects</u>. The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is <u>not</u> intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

10/16/2023

IPAC USER CONTACT INFORMATION

Agency: Indiana Department of Transportation

Name: Ryan Falls

Address: 3650 South U.S. Highway 41

City: Vincennes

State: IN Zip: 47591

Email rfalls@indot.in.gov

Phone: 8125821387

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

	te & Time Assessment	Nι	<u>OT Project</u> <u>Imber</u>		oute/Facility arried			<u>C</u> o	unty		
	<u>deral</u> ructure ID		ructure Coordinates titude and longitude)		ructure Height oproximate)				r <u>ucture</u> ngth		
St	ructure Type (check one)			St	tructure Mat	teri	al (check all	th	at apply)		
Br	idge Construction Style			De	eck Material	Вє	am Material	Er	nd/Back Wall	Mat	terial
	Cast-in-place		Pre-stressed Girder	-	Metal		None		Concrete		
-		┢		┢	Concrete Timber	-	Concrete Steel		Timber Stone/Masonry		
	Flat Slab/Box		Steel I-beam I I I	-	Open grid	┢	Timber		Other:		
	Truss Side View		Covered		Other:		Other:	Cr	eosote Evide	nce)
	Parallel Box Beam		Other:	Cı	ulvert Materia	I			Yes Unknown		No
Сι	ulvert Type	O	ther Structure		Metal Concrete			No	otes:		
	Вох				Plastic						
	Pipe/Round				Stone/Masonry						
	Other:			<u> </u>	Other:						
Cr	rossings Traversed (check all th	at		Sı	urrounding	Ha	bitat (check	all	that apply)		
	Bare ground		Open vegetation	<u> </u>	Agricultural				Grassland		
	Rip-rap		Closed vegetation	₽-	Commercial				Ranching		
-	Flowing water Standing water		Railroad Road/trail - Type:	╂-	Residential-urba Residential-rural	n			Riparian/wetland Mixed use	1	
	Seasonal water		Other:	┢	Woodland/forest	ed			Other:		
Λ,	eas Assessed (check all that ap	nlı									
	eck all areas that apply. If an area is not			ent	" hoy						
	cument all bat indicators observed during					rovi	de nhoto docur	ner	ntation as indic	ated	
_	ea (check if assessed)		ssessment Notes	_	vidence of E						•
AI	All crevices and cracks:	Α:	Not present	<u> </u>	Tiderice or E	oat:	s (include pr	IOU	Audible	.)	Species
	Bridges/culverts: rough surfaces or		Not present	1	Visual - live #		dead #		Odor	\vdash	Species
	imperfections in concrete				Guano				Photos	1	
ш	Other structures: soffits, rafters, attic				Staining				<u>.</u>	1	
	areas										
			Not present						Audible		Species
\Box	Concrete surfaces (open roosting on				Visual - live #		dead #		Odor		
$\overline{}$	concrete)				Guano				Photos	-	
-			Not present	\vdash	Staining				Audible	1	Species
	Spaces between concrete end walls		INOL present	1	Visual - live #		dead #		Odor	1	Species
Щ	and the bridge deck				Guano				Photos	1	
	Ğ				Staining				•		
	Crack between concrete railings on top		Not present						Audible		Species
	of the bridge deck Gap				Visual - live #		dead #		Odor		
	Railing —			_	Guano Staining				Photos	-	
H	<u></u>		Not present		Otaliling				Audible	╁	Species
	Vertical aurices on constitution		1 1	1	Visual - live #		dead #		Odor	H	F
Н	Vertical surfaces on concrete I-beams				Guano				Photos]	
L					Staining		<u></u>			_	
L		-	Not present	-	Vigual live #		doad #	-	Audible	╄	Species
	Spaces between walls, ceiling joists			\vdash	Visual - live # Guano		dead #		Odor Photos	-	
				_	Staining				1 110103	1	
			Not present						Audible	1	Species
	Weep holes, scupper drains, and				Visual - live #		dead #		Odor		•
ш	inlets/pipes				Guano				Photos		
			I		Staining				I	-	la ·
L		_	Not present	1	Visual - live #		dead #	-	Audible Odor	+	Species
Щ	All guiderails			\vdash	Guano		почи п	\vdash	Photos	1	
1					Staining					1	
			Not present						Audible		Species
	All expansion joints			lacksquare	Visual - live #		dead #		Odor	1	
ш				\vdash	Guano			_	Photos	4	
H				1	Staining					1	
N 1	2000			٥.	anot ····	0		0			
IN	ame:			21	gnature: (1	emeron.	0	erry		
L									1		

Jennifer Rhodes

From: Lewandowski, Tyler <TLewandowski@indot.IN.gov>

Sent: Wednesday, July 31, 2024 10:16 AM

To: Cameron Berry

Subject: RE: Des 2100830 & 2100831 Small Structures Project on SR 66 - Early Coordination Letter

Good morning,

After review, no tall structure permit is required for the project if all equipment being used is under 200 feet in height. Please let our office know if you have any further questions.

Thank you,

Tyler Lewandowski
Project Manager
INDOT Office of Aviation
(317) 495-4875
tlewandowski@indot.in.gov
www.aviation.indot.in.gov



From: Cameron Berry <cberry@ascgroup.net>

Sent: Monday, July 29, 2024 2:25 PM

To: Lewandowski, Tyler <TLewandowski@indot.IN.gov>

Subject: Des 2100830 & 2100831 Small Structures Project on SR 66 - Early Coordination Letter

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

Des. No.: 2100830 & 2100831

Project Description: SR 66 Small Structures Project, 1.00 Mile East of the West Junction with SR 161

Location: Spencer County, Indiana

INDOT and FHWA are in the planning stage for a small structures project on SR 66, Spencer County, Indiana.

This letter is part of the early coordination phase of the environmental review process. We are requesting comments from your area of expertise regarding potential environmental impacts with recommendations for avoidance, minimization, and mitigation.

Federal Highway Administration (FHWA)

Indiana Department of Environmental Management (IDEM) Wellhead Proximity Determinator

Indiana Geological & Water Survey (IGWS)

Indiana Dept. of Natural Resources-Division of Fish and Wildlife (IDNR-DFW)

US Dept. of Housing and Urban Development

INDOT –Vincennes District

INDOT – Aviation

Natural Resources Conservation Services



Farm
Production
and
Conservation

Natural Resources Conservation Service Indiana State Office 6013 Lakeside Boulevard Indianapolis, Indiana 46278 317-295-5800

August 2, 2024

Cameron Berry ASC Group 9376 Castlegate Drive Indianapolis, Indiana 46256 cberry@ascgroup.net

Dear Cameron Berry:

The purposed Small Structure Project on SR 66 in Spencer County, Indiana (Des. Nos. 2100830, and 2100831) as referred to in your letter received July 29, 2024, will cause a conversion of prime farmland.

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

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

Sincerely,

JOHN ALLEN

Digitally signed by JOHN ALLEN Date: 2024.08.02 08:37:18 -04'00'

JOHN ALLEN State Soil Scientist

Enclosures

USDA is an equal opportunity provider, employer, and lender.

FA	U.S. Departmer			ATING			
PART I (To be completed by Federal Agend	y)	Date Of L	and Evaluation	Request			
Name of Project DES2100830 831	Small Structure Repla	Federal A	gency Involved	INDOT ar	nd FHW	Ά	
Proposed Land Use Transportation	•		nd State Spen				
PART II (To be completed by NRCS)		Date Req	uest Received 3/2/2024	Ву	Person Co	ompleting For	m:
Does the site contain Prime, Unique, Statew (If no, the FPPA does not apply - do not con	•	? Y	ES NO	Acres Iri	rigated	Average 190 ac	Farm Size
Major Crop(s)	Farmable Land In Govt. J	urisdiction		Amount of Fa	armland As	<u>I</u> Defined in FP	PA
Corn	Acres: 210590% 82					59	
Name of Land Evaluation System Used LESA	Name of State or Local S	ite Assessr	ment System			eturned by NF	CS
PART III (To be completed by Federal Agen	ncy)					Site Rating	
A. Total Acres To Be Converted Directly				Site A	Site B	Site C	Site D
B. Total Acres To Be Converted Indirectly				2.223			
C. Total Acres In Site				0			
PART IV (To be completed by NRCS) Land	Evaluation Information			2.223			
A. Total Acres Prime And Unique Farmland	- Evaluation milemation			2.00			
B. Total Acres Statewide Important or Local	Important Farmland			2.00			
C. Percentage Of Farmland in County Or Lo	·			0.00			
D. Percentage Of Farmland in Govt. Jurisdic		ve Value		<0.001			
PART V (To be completed by NRCS) Land Relative Value of Farmland To Be Co	Evaluation Criterion			97			
PART VI (To be completed by Federal Ager (Criteria are explained in 7 CFR 658.5 b. For 0	ncy) Site Assessment Criteria		Maximum Points	Site A	Site B	Site C	Site D
Area In Non-urban Use	somaer project dee form thitee t	0171 1007	(15)	13			
2. Perimeter In Non-urban Use			(10)	10			
3. Percent Of Site Being Farmed			(20)	5			
4. Protection Provided By State and Local G	Government		(20)	0			
5. Distance From Urban Built-up Area			(15)	5			
6. Distance To Urban Support Services			(15)	5			
7. Size Of Present Farm Unit Compared To	Average		(10)	5			
8. Creation Of Non-farmable Farmland			(10)	2			
9. Availability Of Farm Support Services			(5)	2			
10. On-Farm Investments			(20)	8			
11. Effects Of Conversion On Farm Support	Services		(10)	0			
12. Compatibility With Existing Agricultural L	lse		(10)	6			
TOTAL SITE ASSESSMENT POINTS			160	61	0	0	0
PART VII (To be completed by Federal A	gency)						
Relative Value Of Farmland (From Part V)			100	97	0	0	0
Total Site Assessment (From Part VI above	or local site assessment)		160	61	0	0	0
TOTAL POINTS (Total of above 2 lines)			260	158	0	0	0
Site Selected: Site A	Date Of Selection 8/2/2024			Was A Local		NO NO	
Reason For Selection:				•		· · ·	
Meets the purpose and need for	or the project.						
Name of Federal agency representative comp	leting this form: Cameron F	Rerry			Da	ate: 8/6/20	24

(See Instructions on reverse side)

Form AD-1006 (03-02)

Jennifer Rhodes

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

Sent: Tuesday, August 6, 2024 5:04 PM

To: Cameron Berry Cc: Brenna Caudill

Subject: RE: Des 2100830 & 2100831 Small Structures Project on SR 66 - Early Coordination Letter

Attachments: Proximity to WPA (2100830 & 2100831).pdf

Hi Cameron,

Find attached to this email a response to the proximity request for Des No 2100830 & 2100831. Let me know what questions you have.

Sincerely,



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

(317) 233-9158 • aturnbow@idem.IN.gov

Indiana Department of Environmental Management









IDEM values your feedback.

Please take two minutes and complete this brief survey.



From: Cameron Berry <cberry@ascgroup.net>

Sent: Monday, July 29, 2024 1:48 PM

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

Subject: Des 2100830 & 2100831 Small Structures Project on SR 66 - Early Coordination Letter

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

Des. No.: 2100830 & 2100831

Project Description: SR 66 Small Structures Project, 1.00 Mile East of the West Junction with SR 161

Location: Spencer County, Indiana

INDOT and FHWA are in the planning stage for a small structures project on SR 66, Spencer County, Indiana.

This letter is part of the early coordination phase of the environmental review process. We are requesting comments from your area of expertise regarding potential environmental impacts with recommendations for avoidance, minimization, and mitigation.

Federal Highway Administration (FHWA)

IDEM

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb

Brian C. Rockensuess

Commissioner

August 6, 2024

ASC Group, Inc. Attention: Cameron Berry 9376 Castlegate Drive Indianapolis, IN 46256

Dear Cameron Berry:

Re: Wellhead Protection Area
Proximity Determination
Des No 2100830 and 2100831
Small Structures Project on SR 66,
1.00 Mile East of the West Junction with SR 161,
Spencer County, Indiana

Upon review of the above referenced project site, it has been determined that the proposed project area **is not located within** a Wellhead Protection Area. The information is accurate to the best of our knowledge; however, there are in some cases a few factors that could impact the accuracy of this determination. Some Wellhead Protection Area Delineations have not been submitted, and many have not been approved by this office. In these cases, we use a 3,000-foot fixed radius buffer to make the proximity determination. To find the status of a Public Water Supply System's (PWSS's) Wellhead Protection Area Delineation please visit our tracking database at http://www.in.gov/idem/cleanwater/2456.htm and scroll to the bottom of the page.

The project area **is located within** a Source Water Assessment Area for a PWSS's surface water intake. The Source Water Assessment Area relates to the surface water drainage area that water could potentially flow and influence water quality for a PWSS's source of drinking water. The PWSS that could be impacted by the project is Evansville Water Utility. A contact person for Evansville Water Utility is Brenna Caudill, and they could be reached via e-mail and/or phone at: bcaudill@ewsu.com and 812-428-0568. The contact information is provided as a courtesy and reference for you if any issues arise that could potentially impact the water quality for the PWSS during the course of the project. It is not a requirement of IDEM that you contact the system regarding the project.

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

Cameron Berry Page 2

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

Sincerely,

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

Alisha Turnbow

Electronic cc: Brenna Caudill, Evansville Water Utility

Jennifer Rhodes

From: Caudill, Brenna <bcaudill@ewsu.com>
Sent: Wednesday, August 7, 2024 11:37 AM

To: Cameron Berry

Subject: RE: Des 2100830 & 2100831 Small Structures Project on SR 66 - Early Coordination Letter

Attachments: Early Coordination Letter, INDOT Des. Nos. 2100830 and 2100831 Small Structures Project on SRF

Mile East of the West Junction With SR 161, Spencer County, Indiana.pdf

Cameron,

Please find attached a response on behalf of Evansville Water and Sewer Utility.

If you have any further questions, please reach out.

Thank you,

Brenna Caudill

Water Filtration Plant Superintendent

Evansville Water and Sewer Utility

O 812-428-0568 | M 812-470-1568 | E bcaudill@ewsu.com

W ewsu.com | A 1301 Waterworks Road, Evansville, IN 47713

From: Cameron Berry <cberry@ascgroup.net>
Sent: Wednesday, August 7, 2024 8:59 AM
To: Caudill, Brenna <bcaudill@ewsu.com>

Subject: Des 2100830 & 2100831 Small Structures Project on SR 66 - Early Coordination Letter

Des. No.: 2100830 & 2100831

Project Description: SR 66 Small Structures Project, 1.00 Mile East of the West Junction with SR 161

Location: Spencer County, Indiana

INDOT and FHWA are in the planning stage for a small structures project on SR 66, Spencer County, Indiana.

The Indiana Department of Transportation (INDOT), with federal funding, are in the planning stage for a Small Structures Replacement Project on SR 66, 1.00 Mile East of the West Junction with SR 161 in Spencer County, Indiana.

This letter is part of the early coordination phase of the environmental review process. We are requesting comments from your area of expertise regarding potential environmental impacts with recommendations for avoidance, minimization, and mitigation.

Please let us know if have any questions or concerns.

Thank you,

Cameron Berry Indiana Regional Manager





Stephanie Terry
City of Evansville Mayor
Vic Kelson
EWSU Executive Director

August 7, 2024

ASC Group, Inc.
Attention: Cameron Berry
9376 Castlegate Drive
Indianapolis, IN 46256

Re: Early Coordination Letter, INDOT Des. Nos.: 2100830 and 2100831 Small Structures Project on SRF Mile East of the West Junction With SR 161, Spencer County, Indiana

Dear Cameron Berry:

I have reviewed the documents you sent regarding the INDOT project; the site is in Evansville's Source Water Assessment Area but I do not believe that this project will have a negative effect on the water quality for Evansville. The only potential impact I could foresee is if a chemical spill occurred from construction equipment and made its way into the waterways. If an event as such occurred, then IDEM's 24-Hour Emergency Spill Line should be called at 888-233-7745 or 317-233-7745 and I ask that a notification to the Evansville Water Filtration Plant be made at 812-428-0568.

If you have any questions, please feel free to call me at 812-428-0568 or email at bcaudill@ewsu.com.

Sincerely,

Brenna Caudill

Water Filtration Plant Superintendent

Ronna Candill

Evansville Water and Sewer Utility

APPENDIX D: SECTION 106 OF THE NHPA

Section 106 Documentation
Minor Projects PA Project Assessment Form
Phase Ia Archaeological Field Reconnaissance Report Title Page and Description

Minor Projects PA Project Submittal and Assessment Form

SECTION 1

Submittal of this form is only required for projects where Category B applies. Projects qualifying under Category A do not require submittal of this form. SECTION 2 (for Conditions of Category B-1 for curb/sidewalk) or SECTION 3 (for Conditions of Category B-9 for drainage structures) may be required as determined by INDOT-Cultural Resources Office (INDOT-CRO) review. INDOT-CRO will notify applicant if the Minor Projects PA does not apply.

Part I: Project Information-Completed by Applicant (Consultant/PM/Project Sponsor/INDOT District Staff)*

*A qualified professional historian (QP) is not required to complete Part I. INDOT-CRO staff will be responsible for completion of Part II.

Original Submission Date: October 16, 2024 Amended Submission Date*:

*Consult with INDOT-CRO to determine whether an amendment is required. For revisions/updates to original form, please detail in applicable sections below. **Please use red font to distinguish the revisions/updates.**

Submitted By (Provide Name and Firm/Organization):

Shaun Beckett and Douglas S. Terpstra ASC Group, Inc. 800 Freeway Drive North, Suite 101 Columbus, Ohio 43229 614-268-2514 x 3556 dterpstra@ascgroup.net

Project Designation Number: 2100830 and 2100831

Route Number: State Road (SR) 66

Feature crossed (if applicable): Unnamed tributaries (UNTs) to Willow Pond Ditch

City/Township: Richland City/Luce and Ohio townships County: Spencer

Project Description:*

*Provide a full project description—include the same level of specificity and detail as expected in the NEPA document—in order to ensure a timely review by INDOT-CRO staff. For bridge and culvert projects, include specific details on the rehab or replacement including potential changes to width, height, and materials. Be sure to include the specific elements listed below as applicable.

The SR 66 Small Structures Replacements Project over UNTs of Willow Pond Ditch is located 1.0 mile and 1.01 miles east of the west junction with SR 161 on SR 66 in Luce and Ohio townships, Spencer County, Indiana (Indiana Department of Transportation [INDOT] Des. Nos. 2100830 and 2100831). The project consists of the replacement of two small structures and includes a hot mix asphalt (HMA) roadway reconstruction. The proposed project is anticipated to replace and relocate the existing structures and relocate the corresponding roadway ditches to accommodate drainage. The HMA roadway reconstruction will raise the roadway profile through the locations of the structures, reconstruct two public road approaches, and remove and replace approach guardrail at the structures.

The need for this project is based on poor condition and inadequate hydraulics of the small structures (Structure Nos. CV 066-074-51.61 and CV 066-074-51.62). The existing structures are showing signs of deterioration with vertical cracking and efflorescence present along the sidewalls and slabs on the inside of the structures. Delamination is also present along the guardrails, which are present at the structures and along the SR 66 roadway. Based on Hydraulic Memos, the existing structures can overtop the roadway during 100-year storm events. The structures have condition ratings of 5 (fair) and 6 (satisfactory) out of

a possible 9. The purpose of this project is to provide structurally adequate structures, ensure continued traffic on SR 66, and to extend the service life of the structures by improving overall condition ratings to that of at least a 7 (good condition) or greater. The purpose of the project is also to improve the hydraulics of the waterway at the structures to meet INDOT hydraulic standards.

One of the existing structures (Structure No. CV 066-074-51.61) is an 8-foot (ft) wide by 4-ft rise reinforced concrete box (RCB) culvert. The total length of the existing structure is approximately 34 ft and flow through the structure is north to south. The other existing structure (Structure No. CV 066-074-51.62) is an 8-ft wide by 2.6-ft rise RCB culvert. The total length of the existing structure is approximately 34 ft and flow through the structure is north to south.

The preferred alternative will remove and replace the two small structures (Structure Nos. CV 066-074-51.61 and CV 066-074-51.62) along the SR 66 roadway over UNTs to Willow Pond Ditch. The existing structures will be removed, and the ground will be filled in and shaped to allow for proper drainage. The existing structures will be replaced with RCB culverts that measure 66-ft long, 16-ft wide by 4-ft rise each. The structures will be sumped 12 inches. The replacement structure for Structure No. CV 066-074-51.61 will be relocated approximately 132 ft to the west of the current structure and the replacement structure for Structure No. CV 066-074-51.62 will be relocated approximately 128 ft to the east of the current structure. Class I and revetment riprap will be placed over geotextile at the inlet and outlets of the replacement structures. Compacted aggregate will be added at the field entrance and removed upon the completion of construction. One sodded ditch and several seeded and revetment riprap ditches will be constructed for roadside drainage. A subgrade treatment and HMA overlay will be conducted on the approach pavement to accommodate the installation of the replacement structures.

If the project includes any curb, curb ramp, or sidewalk work, please specify the location(s) of s	uch
work:	

N/A

For bridge or small structure projects, please list feature crossed, structure number, NBI number, and structure type:

CV 066-074-51.61 is a RCB culvert carrying SR 66 over a UNT of Willow Pond Ditch CV 066-074-51.62 is a RCB culvert carrying SR 66 over a UNT of Willow Pond Ditch

☐ Temporary

	lge projects, is t www.in.gov/ind	O	luded in INDOT's Historic Bridge Inventory ?
	□ Yes	□ No	
II C	• /	Please provi ☐ No	mine the bridge eligible for or listed in the National Register of de page # of entry in Historic Bridge Inventory. —
Will the	re be right-of-v	vay acquisitio	n as part of this project?
⊠ Yes)	
If ves wa	as checked abov	ve, please che	ck all that apply:

⊠ Permanent

☐ Reacquisition

If applicable, identify right-of-way acquisition locations in text below and in attached mapping. Please specify how much (both temporary and permanent) and indicate what activities are included in the proposed right-of-way:

The project requires approximately 2.34 acres of permanent ROW. No temporary ROW will be required for this project.

Permanent ROW was revised to 2.223 acres

Is there <u>any</u> potential for additional temporary right-of-way to be needed later for purposes such as access, staging, etc.?

☐ Yes ☐ No

Archaeology (check one):

- All proposed activities are presumed to occur in previously disturbed soils.*

 *INDOT-CRO will notify you if project area includes undisturbed soils and requires an archaeological reconnaissance.
- Project takes place in undisturbed soils and the archaeology report is included with the submission.*

*If an archaeology report is required, the Minor Projects PA Form will not be finalized until the report is reviewed and approved by INDOT-CRO. For INDOT-sponsored projects, INDOT-CRO may be able to complete the archaeological investigation. If you would like to request that INDOT-CRO complete an archaeological investigation, please contact the INDOT-CRO Archaeology Team Lead. See CRM Pt. 1 Ch. 3 for current contact information.

Please specify all applicable categories and condition(s) (INDOT will highlight applicable conditions in yellow):

{Include full category text(s) verbatim, including any conditions. INDOT-CRO will finalize categories upon their review.}

B-9. Installation, replacement, repair, lining, or extension of culverts and other drainage structures under the conditions listed below [BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied]:

Condition A (Archaeological Resources)

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

- i. Work occurs in previously disturbed soils; OR
- ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.

Condition B (Above-Ground Resources)

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

i. Work does not involve installation of a new culvert and other drainage structure, and there are no impacts to unusual features, including but not limited to historic brick or stone sidewalks,

curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under one of the following conditions (Condition a, Condition b, or Condition c must be satisfied):

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

Check \square if SECTION 2: Minor Projects PA Category B-1, Condition B-ii Submission is inclu	ıded.
Check ☐ if SECTION 3: Minor Projects PA Category B-9, Condition B-i-c-2 or B-ii-b-3 Submissincluded.	ission

Minor Projects PA Project Submittal and Assessment Form

Part II: Completed by INDOT-CRO

Information reviewed (please che	ck all that apply):		
General project location map	USGS map ⊠	Aerial photographs ⊠	Soil survey data ⊠
General project area photos	Archaeology Repo	rts 🛛 Historic Proper	ty Reports 🗆
Indiana Historic Buildings, Bridges	, and Cemeteries Ma	np/Interim Report ⊠	
Bridge inspection information/iTAM	MS ⊠ Histor	ic Bridge Inventory Data	base
SHAARD ⊠ SHAARD GIS ⊠	Streetview Ima	ngery ⊠ County GI	S Data/Property Cards □
Other (please specify):			
	Reconnaissance for t Innamed Tributaries I on SR 66, in Ohio	to Willow Pond Ditch, 1 and Luce Townships, Sp	.0 Mile and 1.01 Miles East of pencer County, Indiana (INDOT
Are there any commitments assoc Comments Section below. Ye	iated with this proj s □ No ⊠	ect? If yes, please expla	in and include in the Additional
Does the project result in a de m explain in the Additional Comme	_	–	historic resource? If yes, please
Additional Comments:			

An INDOT-CRO historian who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 performed a desktop review of the surrounding area. Based on a review of online street-view imagery and aerial photography, the area immediately adjacent to the subject structure consists of agricultural fields. No unusual features are present that may be impacted by the project.

Above-ground Resources

According to INDOT's iTAMS database information, the subject structures (CV 066-074-51.61 and CV 066-074-51.62) are 4-sided reinforced concrete box culverts. The construction dates of the culverts are not known. Examination of iTAMS inspection reports and photographs confirms that neither structure exhibits wood, stone, or brick structures or parts therein. In addition, there is no evidence to suggest that either possess historical or engineering significance.

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

Archaeological Resources

An INDOT-CRO archaeologist who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 reviewed the Phase Ia field reconnaissance survey report completed for the project by ASC Group, Inc. (Beckett and Ellrod 2024). There are no previously recorded archaeological sites within or adjacent to

Minor Projects PA Project Submittal and Assessment Form

the proposed project area. A 1.29-hectare (3.18-acre) survey area was investigated through a combination of visual inspection of areas with obvious disturbance at 10-m intervals; pedestrian survey of recently tilled and rain washed agricultural fields at 10-m intervals; and systematic shovel probing (n= 42) of the remaining areas with undisturbed soils at 15-m intervals. No archaeological resources were documented as a result of the survey, and no additional investigation is recommended (Beckett and Ellrod 2024).

Therefore, there are no archaeological concerns provided that the project scope and footprint do not change.

<u>Accidental Discovery</u>: If any archaeological artifacts or human remains are uncovered during construction, demolition, or earth moving activities, construction within 100 feet of the discovery will be stopped, and INDOT-CRO and the Indiana Department of Natural Resources-Division of Historic Preservation and Archaeology (IDNR-DHPA) will be notified immediately.

INDOT-CRO staff reviewer(s): Susan Branigin and David Walton

INDOT Approval Date: 10/17/2024

Amendment Approval Date (if applicable):

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

Please attach the following to this form:

- General Location Map. This map should allow the INDOT-CRO reviewer to quickly locate the project.
- Aerial photography map(s) of project area. This map must include project limits. It may also include SHAARD data, but SHAARD data is not required.
- Map depicting potential temporary and/or permanent right-of-way acquisitions.
- Project plans, if available.
- If bridge or small structure project, please attach photographs of bridge or small structure. Photographs can be found in inspection reports located in INDOT's Bridge Inspection Application System (BIAS), as well as other project documents, such as engineering assessments or mini-scopes.

In the email submission to INDOT-CRO, please also include:

- A GIS polygon shapefile or KMZ file of the project area (shapefiles are preferred). Shapefiles should depict the project area, including all existing and proposed right-of-way and construction limits, and should use the "NAD_1983_UTM" projected coordinate system. In addition, these files should contain the following text attribute field: DES_NO. The project designation number should be entered in this field.
- If the project takes place in undisturbed soils, attach the results of the archaeological investigation.



INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF HISTORIC PRESERVATION AND ARCHAEOLOGY

402 West Washington Street, Room W274 Indianapolis, Indiana 46204-2739 Telephone Number: (317) 232-1646 Fax Number: (317) 232-0693 E-mail: dhpa@dnr.IN.gov

Where applicable, the use of this form is recommended but not required by the Division of Historic Preservation and Archaeology (DHPA).

Name(s) of author(s) Shaun C. Beckett and Kaylee Ellrod, MS, RPA		Date (month, day, year) October 18, 2024
A Phase Ia Archaeological Reconnaissance for the Proposed over Unnamed Tributaries to Willow Pond Ditch, 1.0 Mile and Ohio and Luce Townships, Spencer County, Indiana (INDOT I	1.01 Miles East of the West June	ction with SR 161 on SR 66, in
This document is being used to report on the results of: Records check only Records check and Phase 1a archaeological and Phase 1a archaeological report. For an addendum, proving the province of the provi		
Name(s) of author(s) of previous report N/A		
Title of previous report N/A		
Date of previous report (month, day, year) N/A	DHPA number	

PROJECT OVERVIEW

Description of project

The State Road (SR) 66 Small Structures Replacements Project over unnamed tributaries (UNTs) to Willow Pond Ditch is located 1.6 kilometers (km) [1.0 mile (mi)] and 1.6 km (1.01 mi) east of the west junction with SR 161, in Luce and Ohio townships, Spencer County, Indiana (Indiana Department of Transportation [INDOT] Des. Nos. 2100830 and 2100831). The project consists of the replacement of two small structures and includes a hot mix asphalt (HMA) roadway reconstruction. The proposed project is anticipated to replace and relocate the existing structures and relocate the corresponding roadway ditches to accommodate drainage.

One of the existing structures (Structure No. CV 066-074-51.61) is a 2.4-meter (m) [8-foot (ft)] wide by 1.2-m (4-ft) rise reinforced concrete box (RCB) culvert. The total length of the existing structure is approximately 10.4 m (34 ft) and flow through the structure is north to south. The other existing structure (Structure No. CV 066-074-51.62) is a 2.4-m (8-ft) wide by 0.79-m (2.6-ft) rise RCB culvert. The total length of the existing structure is approximately 10.4 m (34 ft) and flow through the structure is north to south.

The preferred alternative will remove and replace the two small structures (Structure Nos. CV 066-074-51.61 and CV 066-074-51.62) along the SR 66 roadway over UNTs to Willow Pond Ditch. The existing structures will be removed and the ground will be filled in and shaped to allow for proper drainage. The existing structures will be replaced with reinforced concrete box (RCB) culverts that measure 20.12-m (66-ft) long, 4.88-m (16-ft) wide by 1.22-m (4-ft) rise each. The structures will be sumped 30.5 m (12 in). The replacement structure for Structure No. CV 066-074-51.61 will be relocated approximately 40.23 m (132 ft) to the west and the replacement structure for Structure No. CV 066-074-51.62 will be relocated approximately 39.01 m (128 ft) to the east. Class I and revetment riprap will be placed over geotextile at the inlet and outlets of the replacement structures. Compacted aggregate will be added at the field entrance and removed upon the completion of construction. One sodded ditch and several seeded and revetment riprap ditches will be constructed for roadside drainage. A subgrade treatment and hot mix asphalt (HMA) overlay will be conducted on the approach pavement to accommodate the installation of the replacement structures.

The need for this project is based on poor condition and inadequate hydraulics of the small structures (Structure Nos. CV 066-074-51.61 and CV 066-074-51.62). The existing structures are showing signs of deterioration with vertical cracking and efflorescence present along the sidewalls and slabs on the inside of the structures. Delamination is also present along the guardrails, which are present at the structures and along the SR 66 roadway. Based on Hydraulic Memos, the existing structures can overtop the roadway during 100-year storm events. The structures have condition ratings of 5 (fair) and 6 (satisfactory) out of a possible 9. The purpose of this project is to provide structurally adequate structures, ensure continued traffic on SR 66, and to extend the service life of the structures by improving overall condition ratings to that of at least a 7 (good condition) or greater. The purpose of the project is also to improve the hydraulics of the waterway at the structures to meet INDOT hydraulic standards.

The project requires approximately 0.90 hectare (ha) [2.223 acres (ac)] of permanent right-of-way (ROW). No temporary ROW will be required for this project.

Describe landforms.	
Number of shovel probes excavated	Number of cores / auger probes
42	0
Describe disturbances. Attach photographs documenting disturbances. Disturbances within the survey area include paved roads, ne subsurface utilities.	ew road grading, grading associated with roadside drainage, and

Explain results of fieldwork.

Actual area surveyed (hectares)

The survey area is located along a 345 m (1,132 ft) stretch of SR 66 with bumpouts in the areas around the culverts. The survey area is located entirely in agricultural areas and is cut by an UNT to Willow Pond Ditch (Figures 1–3; Photographs 1–9; Appendix A) on the north side on SR 66. The survey area was investigated through shovel probes at 15-m (49.2-ft) intervals, visual inspection, and a pedestrian survey at 10-m (32-8 ft) intervals where indicated (Figure 3).

Actual area surveyed (acres)

The survey area is separated into four quadrants, northwest, northeast, southwest, and southeast. Areas that were visually inspected included roadside drainage, graded and cut areas associated with the unnamed tributary to Willow Pond Ditch and road construction, and other areas of slope from the road cut (Photographs 1–4). The areas that were subject to pedestrian survey at 10-m (32.8-ft) intervals were portions of the agricultural field in the northeast, southeast, and southwest quadrants within the survey area, as they presented greater than 30 percent surface visibility (Figure 3; Photograph 3).

The survey area was investigated though four separate visits. The first visit occurred on August 10, 2023. During the first survey, two shovel probes were excavated in the northwest quadrant (SPs 1 and 2 on Transect 1). These shovel probes revealed a disturbed soil profile consisting of a black (10YR 2/1) silt loam extending to approximately 0–10 centimeters below surface (cmbs) [0–3.9 inches below surface (inbs)], underlain by heavily mottled and hydric soils. The northeast, southwest, and southeast quadrants were investigated through pedestrian survey.

The second visit occurred on December 7 and 8, 2023, after the survey area was expanded (Photographs 5 and 6). During this survey, one additional shovel probe was excavated in the northwest quadrant (SP 1 on Transect 2). This shovel probe displayed a soil profile consisting of a dark yellowish brown (10YR 3/4) silty clay loam extending to a depth of 27 cmbs (10.63 inbs) underlain by a slightly hydric layer of very dark gray (10YR 3/1) silty clay loam mottled with greenish gray (GLEY 5/5GY) and iron redoxification to a depth of 37 cmbs (14.6 inbs). One shovel probe was excavated in the northeast quadrant (SP 2 on Transect 2). This shovel probe displayed a disturbed soil profile consisting of a dark yellowish brown (10YR 4/4) silty clay loam with approximately 5 percent gravel and asphalt fragments to a depth of 16 cmbs (6.3 inbs), underlain by a layer of light yellowish brown (10YR 6/4) mixed with dark yellowish brown (10YR 4/4) and approximately 5 percent gravel content to a depth of 35 cmbs (13.8 inbs).

The eight shovel probes excavated in the southeast quadrant generally displayed an undisturbed soil profile consisting of a dark gray (10YR 4/1) silty clay loam to a depth of approximately 0–34 cmbs (0–13.4 inbs) underlain by a hydric layer of very dark gray (10YR 3/1) mottled with a light brownish gray (10YR 6/2) and greenish gray (GLEY 5/5GY) and iron redoxification to a depth of approximately 27–44 cmbs (10.63–17.3 inbs). One disturbed shovel probe (SP 1 on Transect 3) displayed a soil profile consisting of a dark brown (10YR 3/3) mixed with gravel, plastic, and modern trash to a depth of 30 cmbs (11.8 inbs), underlain by a layer of very dark gray (10YR 3/1) mixed with dark brown (10YR 3/3) and approximately 6 percent gravel content to a depth of 40 cmbs (15.75 inbs). The southwestern quadrant was investigated through pedestrian survey.

The third visit occurred on May 15, 2024 after receiving updated project plans. Two shovel probes (TR4 SP 1 and 2) were placed in the northeast quadrant and exhibited undisturbed soil profiles consistent with those from the previous visits. Areas in the western quadrants were able to be pedestrian surveyed. Remaining portions of the survey area in the east two quadrants were covered by standing water (Photograph 7).

With additional expansion of the project area, mostly within the northeast and southeast quadrants, a fourth visit was completed on October 2, 2024 (Photographs 8 and 9). Shovel probes excavated within the northeast quadrant (TR5 SP1–SP9) revealed a typical profile of brown (10YR 4/3) silt loam to silty clay loam ranging from 8 to 30 cmbs (1.9 to 11.8 inbs) in depth. This is underlain by yellowish brown (10YR 5/6) to dark yellowish brown (10YR 4/6) clay loam subsoil near the intersection. The subsoil on the east end of Transect 5 (SP5–SP8) exhibited a very dark grayish brown (10YR 3/2) silty clay loam with iron accumulations and depletions. Within the southeast quadrant (TR 6 SP1–SP15), shovel probes revealed similar soil profiles as those noted above along Transect 3.

The presence of poorly drained soils in this survey reflects Ragsdale silt loam (Ra) and the Algiers silt loam, frequently flooded, very brief duration (Ag) soils mapped within the survey area (USDA, NRCS 2023) and the appearance of an unnamed wetland recorded on historic maps as early as the 1870s (Baskin and Forster 1876).

No artifacts were found and no archaeological sites were recorded within the survey area. No further archaeological assessment is recommended.

RECOMMENDATIONS
Records check (Check all that apply) No archaeological investigation is recommended before the project is allowed to proceed because the records check has determined that the project area does not have the potential to contain archaeological resources. A Phase 1a archaeological reconnaissance is recommended. Based upon the records check results, a Phase 1a archaeological reconnaissance was recommended and has been conducted. A cemetery development plan may be required under Indiana Code 14-21-1-26.5 because project ground disturbance will be within 100 feet of a cemetery.
Phase 1a archaeological reconnaissance (Check all that apply) It is recommended that the project be allowed to proceed as planned because the Phase 1a archaeological reconnaissance has located no archaeological sites within the project area and/or previously recorded sites that were investigated warrant no additional investigation. It is recommended that Phase 1c archaeological subsurface reconnaissance be conducted before the project is allowed to proceed. The Phase 1a archaeological reconnaissance has determined that the project area includes landforms which have the potential to contain buried archaeological deposits.
Other recommendations / commitments

Pursuant to IC-14-21-1, if any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days. In that event, please call (317) 232-1646.

REQUIRED ATTACHMENTS	
Figure showing project location within Indiana USGS topographic map showing the project area (1:24,000 scale) Aerial photograph showing the project area, land use and survey methods Photographs of the project area, including, if applicable, photographs documenting disturbances Project plans (if available)	
Other attachments Appendix A: Plan Sheets	

Barnhart, John D., and Dorothy L. Riker

1994 Indiana to 1816: The Colonial Period. Indianapolis: Indiana Historical Society and Indiana Historical Bureau. Electronic document, https://academic.oup.com/jah/article-abstract/58/4/1007/760649?redirectedFrom=fulltext, accessed August 14, 2023.

Baskin, Forster & Company

1876 Illustrated Historical Atlas of the State of Indiana. Baskin, Forster, Chicago. Electronic document, https://www.historicmapworks.com/Map/US/43328/Spencer+County/, accessed August 14, 2023.

Cochran, Donald R., Kris D. Richey, and Lisa A. Maust

1990 Early Paleoindian Economics in the Glaciated Regions of Indiana. Research in Economic Anthropology Supplement 5: pp. 143–159. JAI Press, Greenwich, Connecticut.

Goodspeed Brothers and Company Publishers

1885 History of Warrick, Spencer, and Perry Counties, Indiana. Electronic document,

https://indianamemory.contentdm.oclc.org/digital/collection/p1819coll6/id/59126/, accessed December 1, 2023.

Hicks, Ronald, ed.

1992 Native American Cultures in Indiana: Proceedings of the First Minnetrista Council for Great Lakes Native American Studies. Edited by Ronald Hicks. Minnetrista Cultural Center and Ball State University, Muncie, Indiana.

Historical Landmarks Foundation of Indiana (HLFI)

2001 Spencer County: Interim Report. Indiana Historic Sites and Structures Inventory. Indianapolis.

APPENDIX E: RED FLAG HAZARDOUS MATERIAL

Red Flag Investigation



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (855) 463-6848 (855) INDOT4U Eric Holcomb, Governor Michael Smith, Commissioner

Date: March 11, 2024

To: Site Assessment & Management

Environmental Policy Office - Environmental Services Division (ESD)

Indiana Department of Transportation 100 North Senate Avenue, Room N758-ES

Indianapolis, Indiana 46204

From: Dominica DeFelice

ASC Group, Inc. 9376 Castlegate Drive Indianapolis, Indiana 46256 ddefelice@ascgroup.net

Re: RED FLAG INVESTIGATION

DES #2100830 and 2100831, State Project

Small Structures Replacements

SR 66, 1.00 Mile East of the West Junction with SR 161

Spencer County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: This project is located on State Road (SR) 66 at County Road (CR) 500 West (W), 1.00 mile east of the west junction with SR 161 in Luce and Ohio townships, Spencer County, Indiana. The project consists of the replacement of two small structures on SR 66 and includes a hot mix asphalt (HMA) roadway reconstruction.

Both structures carry SR 66 over unnamed tributaries (UNTs) to Willow Pond Ditch. The proposed project (INDOT Des. No. 2100830) involves an existing structure (CV 066-074-51.61) that is an 8-foot (ft) by 4-ft rise reinforced concrete box (RCB) culvert with a total approximate length of 34 ft. It is located on SR 66, west of CR 500 W. CV 066-074-51.61 is currently proposed to be replaced with a 16 ft by 4 ft RCB culvert. The proposed project (INDOT Des. No. 2100831) involves an existing structure (CV 066-074-51.62) that is an 8-ft by 3-ft rise slab top box culvert with a total approximate length of 34 ft. It is located on SR 66, east of CR 500 W. CV 066-074-51.62 is currently proposed to be replaced with a 16 ft by 4 ft RCB culvert. Minor relocation of the culverts and associated UNTs is anticipated.

The HMA roadway reconstruction will raise the roadway profile through the locations of the structures, reconstruct two public road approaches, and remove and replace approach guardrail at the structures.

Bridge Work included in Project: Yes 🗀 No 🗵 Structure #(s)
If this is a bridge project, is the bridge Historical? Yes \square No \square , Select \square Non-Select \square
(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations
Section of the report).
Culvert Work Included in Project: Yes ⊠ No □ Structure #(s) <u>CV 066-074-51.61 and CV 066-074-51.62</u>
Proposed right of way: Temporary ⊠ # Acres to be determined (TBD) Permanent ⊠ # Acres TBD; less than 2.0,
Not Applicable Permanent right-of-way amount has been updated to 2.223 acres. No temporary right-of-way is required.
Right-of-way amounts have not yet been finalized and need to be further defined; however, currently, some
temporary right-of-way will be required for ditch construction and the anticipated amount of permanent right-
of-way needed will be less than 2.0 acres.
Type and proposed depth of excavation: Excavation is anticipated to a depth of 8 ft for removal of the existing structures
and installation of the new drainage structures.
Maintenance of traffic (MOT): The MOT needs to be further defined; however, currently road closures with a detour are
anticipated.
Work in waterway: Yes $oxtimes$ No $oxtimes$ Below ordinary high water mark: Yes $oxtimes$ No $oxtimes$
State Project: ⊠ LPA: □
Any other factors influencing recommendations: N/A

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:											
Religious Facilities	Religious Facilities N/A Recreational Facilities N/A										
Airports ¹	Airports ¹ N/A Pipelines 6										
Cemeteries	Cemeteries N/A Railroads N/A										
Hospitals N/A Trails N/A											
Schools	N/A	Managed Lands	N/A								

¹In order to complete the required airport review, a review of public-use airports within 3.8 miles (20,000 feet) is required.

Explanation:

Pipelines: Six (6) pipeline segments are located within the 0.5 mile search radius. The nearest segment, Ashland Pipe Line Co. pipeline, is located approximately 0.09 mile southeast of the project area. No impact is expected.

WATER RESOURCES TABLE AND SUMMARY

Water Resources Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:										
NWI - Points N/A Canal Routes - Historic N/A										
Karst Springs N/A NWI - Wetlands N/A										
Canal Structures – Historic N/A Lakes N/A										
NPS NRI Listed	N/A	Floodplain - DFIRM	N/A							
NWI Lines	N/A	Cave Entrance Density	N/A							
IDEM 303d Listed Streams and Lakes (Impaired) N/A Sinkhole Areas N/A										
Rivers and Streams	N/A	Sinking-Stream Basins	N/A							

If unmapped water features are identified that might impact the project area, direct coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Explanation: No water resources were identified within the 0.5 mile search radius.

Due to the proximity of Willow Pond Ditch, it is likely that additional water resources, such as unnamed tributaries, regulated drains, wetlands, and roadside ditches are located in the project area. A Waters of the US Report is recommended and coordination with the appropriate agency, if applicable, will occur.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:										
Petroleum Wells 5 Mineral Resources N/A										
Mines – Surface N/A Mines – Underground N/A										

Explanation:

Petroleum Wells: Five (5) petroleum wells are located within the 0.5 mile search radius. The nearest petroleum well, a presumed-plugged well, is located adjacent to the project area. Coordination with Indiana Department of Natural Resources (IDNR) Oil and Gas Division will occur.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:

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

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

ECOLOGICAL INFORMATION SUMMARY

The Spencer County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is provided at https://www.in.gov/dnr/nature-preserves/files/np_spencer.pdf. A preliminary review of the Indiana Natural Heritage Database by INDOT ESD did not indicate the presence of ETR species within the 0.5 mile search radius. Coordination with US Fish and Wildlife Service (USFWS) and IDNR will occur.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The project area is located in a rural area surrounded by farm fields and some residences. The October 24, 2019, culvert inspection report for Culvert # CV 066-074-51.61 and the October 12, 2022, culvert inspection report for Culvert # CV 066-074-51.62 state that no evidence of bats was seen or heard at either culvert. Additional investigation to confirm the presence or absence of bats in the culverts will be necessary. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

RECOMMENDATIONS SECTION

Include recommendations from each section. If there are no recommendations, please indicate N/A:

INFRASTRUCTURE: N/A

WATER RESOURCES: Due to the proximity of Willow Pond Ditch, it is likely that additional water resources, such as unnamed tributaries, regulated drains, wetlands, and roadside ditches are located in the project area. A Waters of the US Report is recommended and coordination with the appropriate agency, if applicable, will occur.

MINING/MINERAL EXPLORATION:

Petroleum Wells: The nearest petroleum well, a presumed-plugged well, is located adjacent to the project area. Coordination with IDNR Oil and Gas Division will occur.

HAZARDOUS MATERIAL CONCERNS: N/A

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

Dariane Davis
Davis
Date: 2024.03.11 11:54:37

INDOT ESD concurrence:

Objected by Dariane
Davis
Date: 2024.03.11 11:54:37

-04'00'
(Signature)

Prepared by: Dominica DeFelice QA/QC Assistant ASC Group, Inc.

Graphics:

A map for each report section with a 0.5 mile search radius buffer around all project area(s) showing all items identified as possible items of concern is attached. If there is not a section map included, please change the YES to N/A:

SITE LOCATION: YES

INFRASTRUCTURE: YES

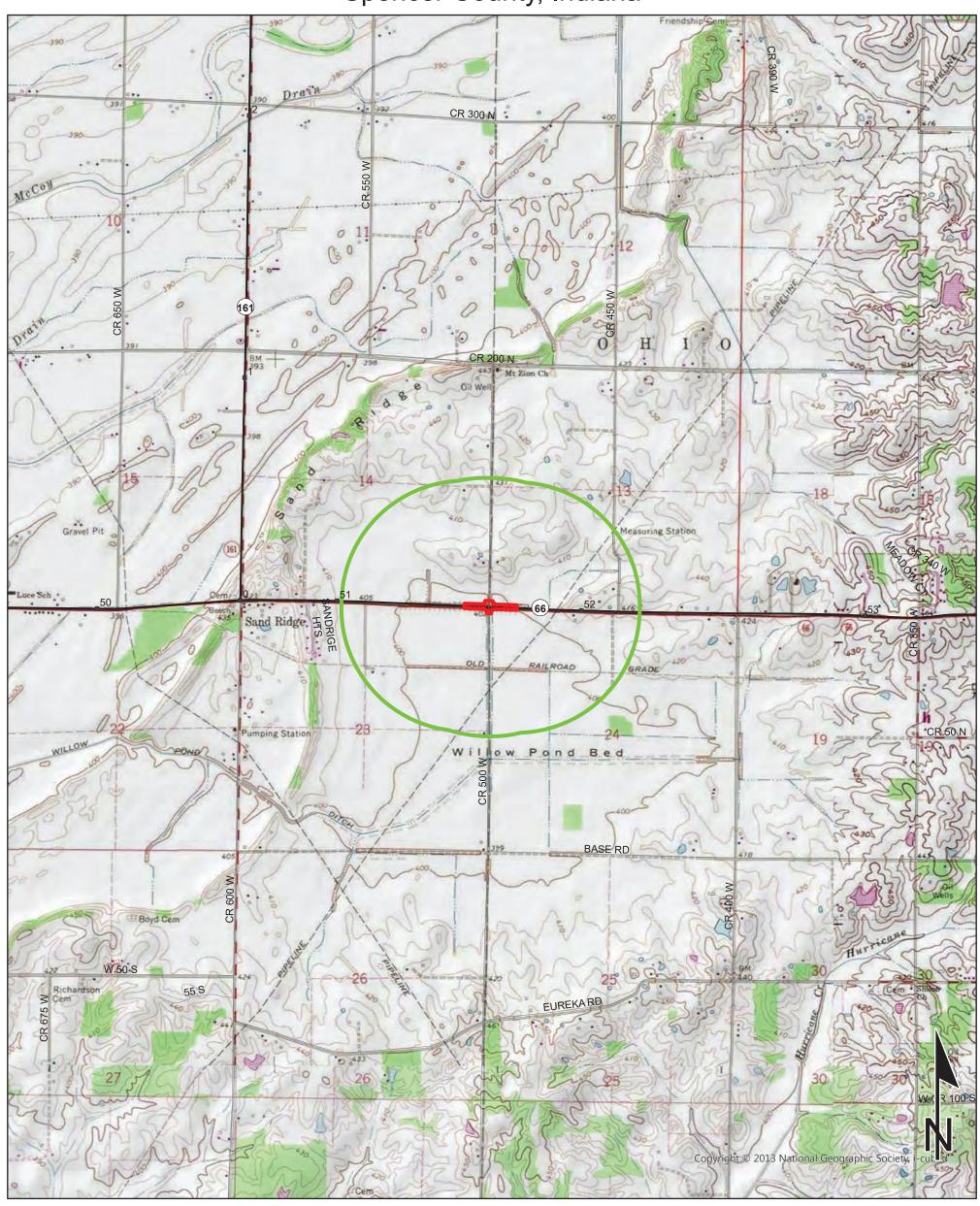
WATER RESOURCES: N/A

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: N/A

5 | Page

Red Flag Investigation - Site Location SR 66, 1.00 Mile East of the West Junction with SR 161 Des. Nos. 2100830 and 2100831, Small Structures Replacements Spencer County, Indiana



Sources: 0.45 0.23 0 0.45

Non Orthophotography

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

Other had a graphy Obtained from Indiana Man Framework Data

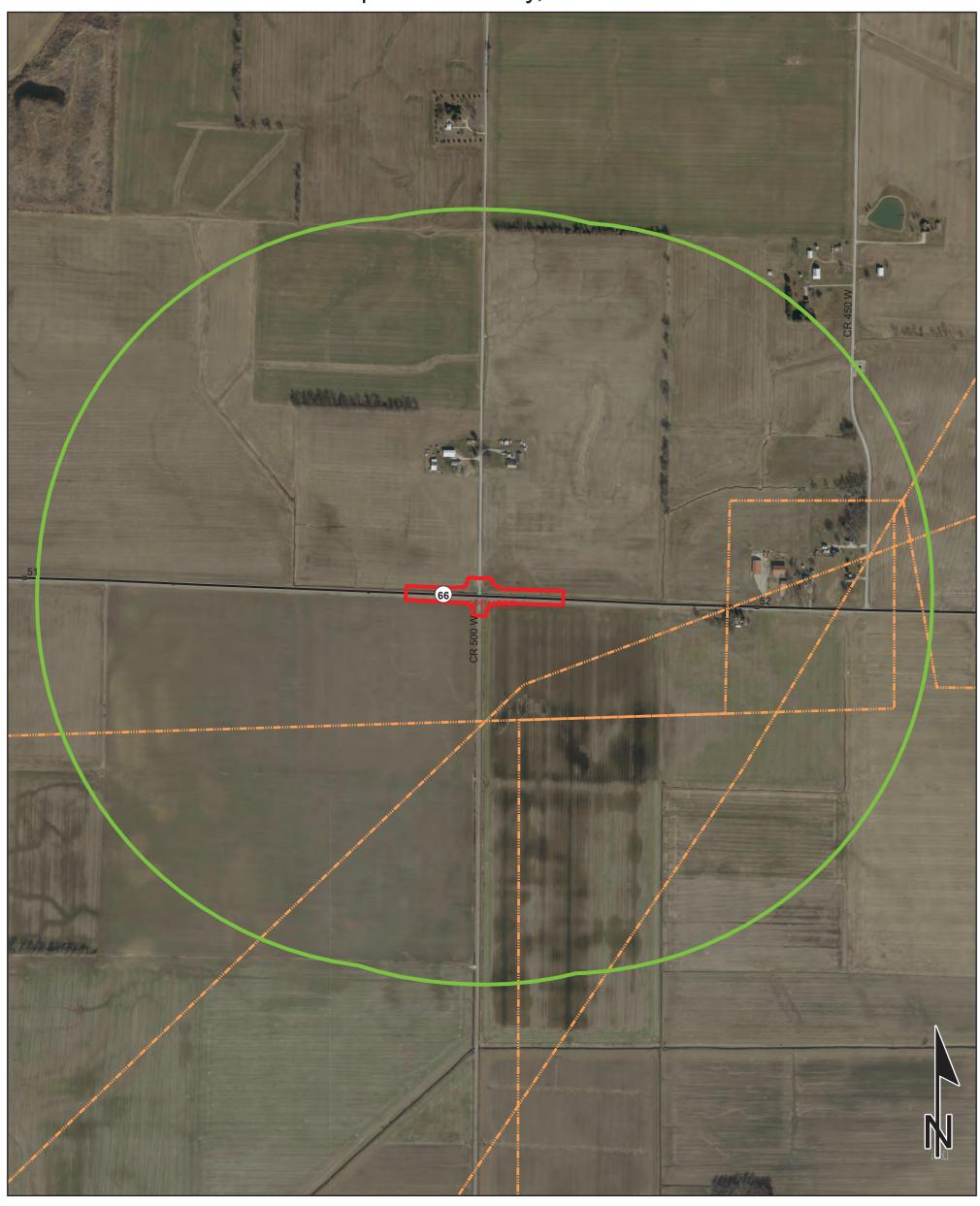
<u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org)

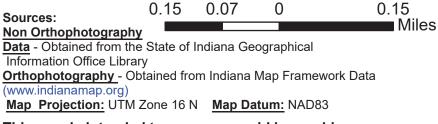
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Map Projection: UTM Zone 16 N Map Datum: NAD83

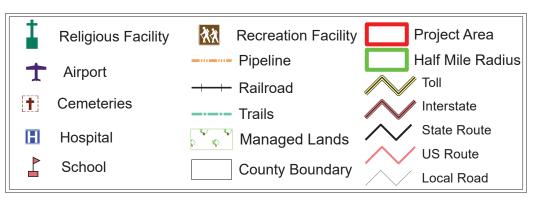
RICHLAND CITY QUADRANGLE INDIANA 7.5 MINUTE SERIES (TOPOGRAPHIC)

Red Flag Investigation - Infrastructure SR 66, 1.00 Mile East of the West Junction with SR 161 Des. Nos. 2100830 and 2100831, Small Structures Replacements Spencer County, Indiana





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



Red Flag Investigation - Water Resources SR 66, 0.91 Mile East of the West Junction with SR 161 Des. Nos. 2100830 and 2100831, Small Structures Replacement Spencer County, Indiana



Sources:
Non Orthophotography

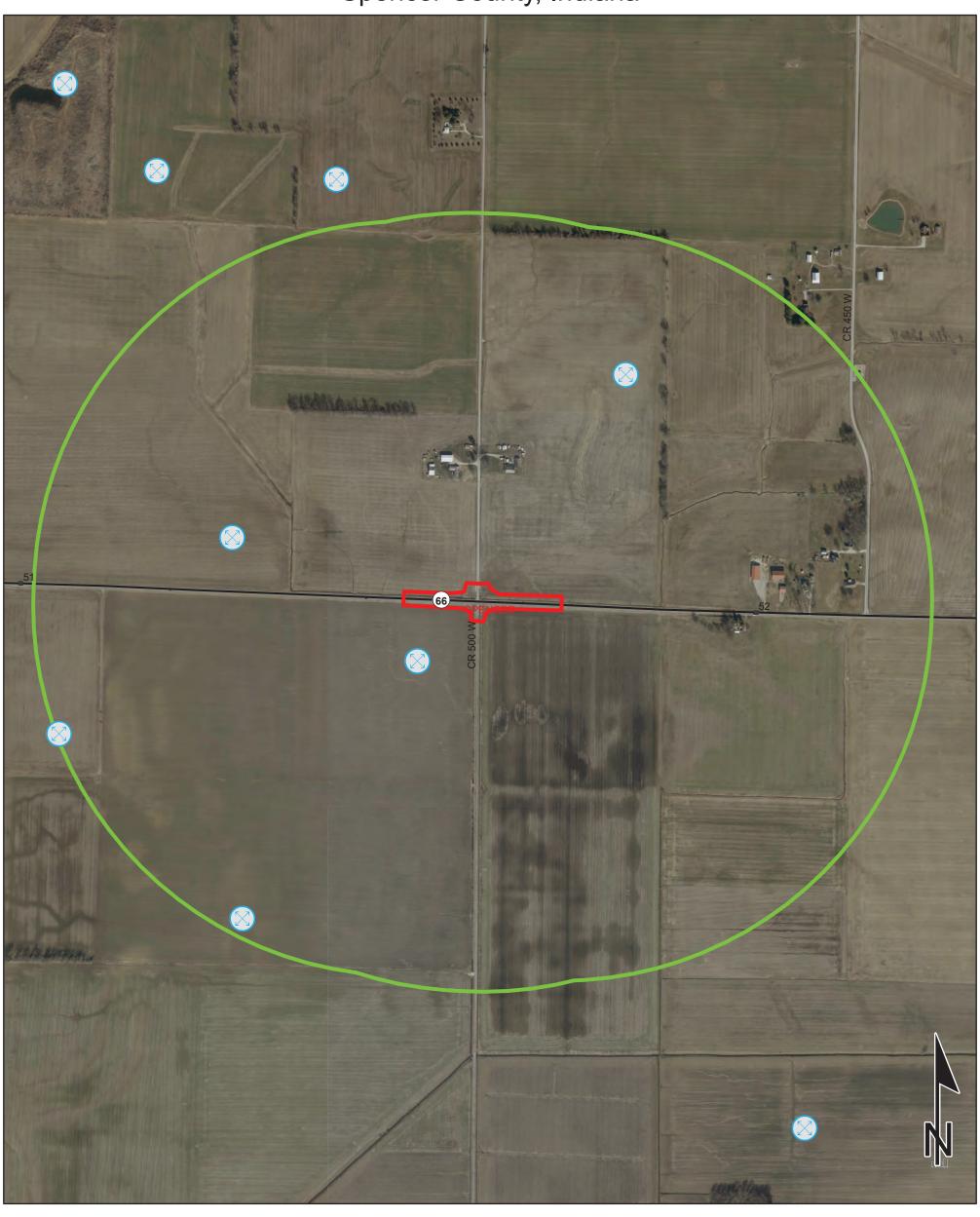
Data - Obtained from the State of Indiana Geographical
Information Office Library

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

Map Projection: UTM Zone 16 N Map Datum: NAD83

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

Red Flag Investigation - Mining/Mineral Resources SR 66, 1.00 Mile East of the West Junction with SR 161 Des. Nos. 2100830 and 2100831, Small Structures Replacements Spencer County, Indiana



0.15 0.07 0 0.15

Sources: Miles

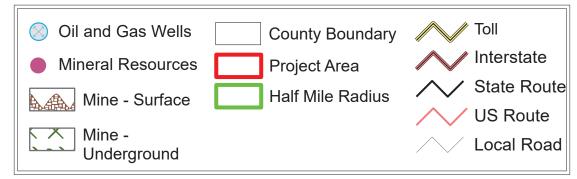
Non Orthophotography

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

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

Map Projection: UTM Zone 16 N Map Datum: NAD83

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



APPENDIX F: WATERS RESOURCES

Waters Report – Including NWI Map Floodplain Maps Approved 2.22.2024

Waters of the U.S. Determination and Wetland Delineation Report

SR 66, Spencer County, Indiana
SR 66 Small Structures Replacements
INDOT Des. Nos. 2100831 and 2100830
INDOT Structure Nos. CV 066-074-51.62 and CV 066-074-51.61
Prepared by: Kenneth Safranek, Ecologist
ASC Group, Inc.
Prepared Date: February 16, 2024

Project Description:

Date(s) of Field Investigation: September 14, 2023

Sections 13, 14, 23, and 24, Township 7 South, Range 7 West

Richland City, Indiana Quadrangle

Luce and Ohio Townships, Spencer County, Indiana

Latitude: 37.902059 Longitude: -87.150698

Project Description: The proposed projects (Indiana Department of Transportation [INDOT] Des. Nos. 2100830 and 2100831) are located at the intersection of State Road (SR) 66 and North (N) County Road (CR) 500 West (W) in Luce and Ohio townships, Spencer County, Indiana (Figures 1–8). These culvert replacements and minor relocations will be completed synchronously due to their close proximity. The need for this project is due to the deterioration of the existing structures (Structure Nos. CV 066-074-51.62, an 8 foot [ft] by 2.5 ft reinforced concrete box culvert, 34 ft in length [INDOT Des. No. 2100831], and CV 066-074-51.61, an 8 ft by 4 ft, rise reinforced concrete box culvert, 34 ft in length [INDOT Des. No. 2100830]). If no action is taken, the culverts will continue to deteriorate which will induce emergency repairs.

The combined project also consists of removal and replacement of existing guardrails, a hot mix asphalt (HMA) overlay, and possible embankment erosion repairs. A portion of the work on Structure No. CV 066-074-51.62 will take place below the ordinary high water mark (OHWM) of an unnamed tributary (UNT) to Willow Pond Ditch. The purpose of each project is to reset the condition of both culverts to a "good" rating. This project will require the acquisition of less than 2.0 acres (ac) of temporary and permanent right-of-way (ROW).

Permanent right-of-way (ROW) amount has been updated to 2.223 acres. No temporary ROW is required.

Desktop Reconnaissance:

Soils (Figure 4)

According to the Soil Survey Geographic (SSURGO) Database for Spencer County, Indiana (U.S. Department of Agriculture, Natural Re

sources Conservation Service [USDA, NRCS] 2023); the investigation area contained two nationally listed soils with hydric components (USDA, NRCS 2021).

Table 1. NRCS SSURGO Mapped Soil Units.

Soil Unit Name	Symbol	NRCS Flooding Frequency	NRCS Drainage Class	NRCS Hydric Soil Category	SSURGO Hydric Rating	
Algiers silt loam, frequently flooded, very brief duration	Ag	None	Somewhat poorly drained	Predominantly Non-Hydric	6% Hydric	
Ragsdale silt loam	Ra	None	Poorly drained	Hydric	100% Hydric	

National Wetland Inventory (NWI) Wetlands (Figure 5)

The NWI Wetland mapping identified two riverine, unknown perennial, unconsolidated bottom, semi-permanently flooded, excavated (R5UBFx) features which represent the roadway swales which correspond to the subject structures. The NWI Wetland map (U.S. Fish and Wildlife Service [USFWS] 2023) for the investigation area is provided on Figure 5.

NWI Cowardin Classification	<u>Location</u>
2 – Riverine (R5UBFx)	Shown entering from the eastern and western investigation
	limits, north of SR 66. Both features turn south at South
	CR 500 W and exit to the south.

National Hydrography Dataset (NHD) (Figure 5)

According to the NHD (U.S. Geological Survey, National Hydrography Dataset [USGS, NHD] 2023), the investigation area contains eight flowline features. The NHD flowlines for the investigation area are provided on Figure 5.

NHD Flowline Feature Type	Location
1 – Canal/Ditch	Flows west from the eastern investigation limits north of
	SR 66 and confluences with a Stream/River feature east of N CR 500 W.
1 – Canal/Ditch	Flows south from the confluence of the previous feature, east of N CR 500 W and exits to the south.
1 – Canal/Ditch	Flows east from the western investigation limits north of
	SR 66 and confluences with the previous feature, east of N CR 500 W.
1 – Canal/Ditch	Flows east from the western investigation limits south of
	SR 66, turns south at N CR 500 W, and exits to the south.
4 – Stream/River	Flow south and southwest from the northeastern edge of
	the investigation area and confluence with a Canal/Ditch
	feature north of SR 66 and east of N CR 500 W.

HUC 12 (Figure 5): 051402011005: Baker Creek

Floodways (Figure 6)

According to the IDNR Indiana Floodplain Information Portal (Figure 6), the investigation area does not lie within a mapped Flood Hazard Zone or Regulatory Floodway.

Upstream Drainage (Figure 7)

According to USGS StreamStats Services (USGS 2023), the approximate upstream drainage area for UNT to Willow Pond Ditch, east of N CR 500 W (37.90205, -87.15078) is 0.33 square miles.

Attached Documents:

- Maps (General Location, Topographic, NRCS Soils, NWI with NHD Lines, Indiana Department of Natural Resources [IDNR] Floodplain, USGS StreamStats and Aerials with Aquatic Resources and Photograph Key)
- Photographs
- Wetland Determination Data Sheet
- Preliminary Jurisdictional Determination (PJD) Form

FIELD RECONNAISSANCE:

ASC Group, Inc., under contract with HNTB, conducted an investigation to determine the presence of potential Waters of the U.S. (WOTUS) or Waters of the State for the proposed culvert replacement projects along SR 66 in Luce and Ohio townships, Spencer County, Indiana on September 14, 2023. The 8.4-ac investigation area for this Waters Report serves as the limits of the delineation and includes all the resources that were investigated. The investigation area comprises the entirety of the ROW and adjacent land including roadway swales, culverts, and the area immediately surrounding these structures. The Antecedent Precipitation Tool (ATP) Version 1.0.23 was used to determine climatic conditions during site visit (Attachments). The ATP indicated the site was in an "incipient drought" climatic range for the dry season in a typical year. OHWM measurements were taken when present at a water feature, and roadside ditches (RSDs) along the roadway were examined for possible jurisdictional status and origination. This area of investigation was created to encapsulate the area described in the proposal plans provided by the Engineer. Maps (Figures 1–8) and photographs (Photographs 1–53) of the investigation area are included in the attachments.

STREAMS

A preliminary jurisdictional waters determination was performed in the field to determine the presence of waterways that possessed a defined channel and streambed as defined by the OHWM were present in the investigation area.

UNT to Willow Pond Ditch

One intermittent waterway, UNT to Willow Pond Ditch, with an OHWM was observed within the investigation area. The stream originates east of the investigation area and outside of the ROW. No evidence of direct point source or natural channel inputs was observed within the investigation area as indicated on the NHD plus data set. Approximately 1,039 linear feet (lft) of UNT to Willow Pond Ditch is located within the investigation area, flows under Structure No. CV 066-074-51.62, east of N CR 500 W, and terminates at Wetland B. The stream is shown as a blue line stream feature on the USGS 2022 7.5-minute Richland City Quadrangle and Stream Stats figures, and as a Canal/Ditch on the NHD plus data set figure. This blue line stream channel was also observed as far back as the USGS 1901 15-minute Owensboro Quadrangle map. The stream has been utilized as an agricultural and roadway drainage ditch during this time period. The dominant substrate observed in the UNT to Willow Pond Ditch were sand, silt, and gravel. Due to the lack of groundwater influence at the time of investigation, the observations of flow marks, and lack of fully vegetated streambed, the stream was determined to be intermittent.

The UNT to Willow Pond Ditch was observed to be of moderate to low quality. This observation is due to the impacts from historic anthropogenic sources. These impacts include deep incision or channelization which prevent natural fluvial morphologies such as sinuosity or riffle-run-pool-glide complexes. In addition, significant bank erosion and artificial maintenance, lack of quality substrate, and lack of significant riparian corridor were observed. Hydrophytic vegetation was observed adjacent to the stream bed but below the OHWM. The minor vegetated areas within the stream are considered non-wetland, in-stream features as they were located below scour marks along the banks which were used to measure the OHWM of the stream channel.

The observed physical evidence used to establish the OHWM include physical characteristics such as a clear, natural line break in the slope, changes in the character of soil, and destruction of terrestrial vegetation, among other indicators. The OHWM measurements were taken away from the influence and upstream from Structure No. CV 066-074-51.62, during a period of no active flow on August 4, 2023. The measurement location is shown in Table 2 (Figure 8) which was recorded with a sub-meter handheld Global Positioning System (GPS) unit. The UNT to Willow Pond Ditch is mapped on the USGS StreamStats database and has an upstream drainage area of 0.33 square mile (211.2 ac) measured from the approximate location of Structure No. CV 066-074-51.62 (Figure 7).

The UNT to Willow Pond Ditch enters Structure No. CV 066-074-51.62, a concrete four-sided box culvert, under SR 66. A significant level of sedimentation has accumulated upstream, downstream, and under the road culvert. No evidence of rip rap or headwall was observed at the upstream or downstream portion of the culvert.

Table 2. Stream Summary Table

Water Feature Name	Photos	USGS Blue-line? Type?	Riffles? Pools?	OHWM Lat/Long	OHWM Width/ Depth (ft)	Quality	Substrate	Likely Waters of U.S.?	Linear ft (lft)/ Acreage (ac)
UNT to Willow Pond Ditch	2, 3, 28-30, 40-43, 45-46	Solid, Intermittent	None	37.902116, -87.150336	6.42W x 0.96D	Moderate to low	Sand, silt, and gravel	Yes	1,039 lft 0.153 ac

ROADSIDE DITCHES (RSDS)

One RSD (RSD 1) was encountered during the September 14, 2023, field investigation. RSD 1 flows east from the western investigation limits within the southern roadway ROW as a stormwater swale of SR 66. RSD 1 is 1,024-ft in length and drains to Wetland 1, south of Structure No. CV 066-074-51.61. This feature was likely constructed as a feature of SR 66 to convey diffuse stormwater flows. RSD 1 did not contain hydrophytic vegetation, exhibit a well-defined OHWM or a well-defined bed and bank; therefore, it is likely a non-jurisdictional, artificial roadside drainage feature.

Table 3. Roadside Ditch (RSD) Table.

RSD No.	Location	Flow Direction	Photos	
RSD 1	Southern SR 66 Roadway Swale	1,024	East	4, 10-12, 47-51

WETLANDS

A total of seven sampling points (SPs 1–7) were investigated in order to confirm the presence or absence of wetlands that may potentially be in the investigation area (Figure 8). All wetland determination data sheets are included in the attachments of this report. The sample point observations revealed three wetlands within the investigation area. The *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987), *Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils, Version 8.2* (USDA, NRCS 2018), *2020 National Wetland Plant List (NWPL) Version 3.5 - Species Detail Tool* (United States Army Corps of Engineers [USACE 2020]), and the *Regional Supplement to the Corps of*

Engineers Wetland Delineation Manual: Midwest Version 2.0 (USACE 2010) were used to determine whether wetlands were present within the investigation area.

Wetland A

Wetland A, characterized by SP1, is a 0.025-ac depressional swale located south of SR 66 and west of N CR 500 W, downstream from Structure No. CV 066.074-51.61, which was originally constructed as a stormwater feature for the roadway. The sampling point describes a concave depression with 1 to 3 percent slopes where no OHWM was observed. The wetland is entirely contained with this roadside swale and receives hydrology in the form of diffuse stormwater runoff from adjacent upland agricultural fields and impervious surfaces. A typical upland sampling point, SP2, was taken southwest of the intersection between SR 66 and N CR 500 W at a point adjacent to Wetland A and at the confluence of RSD 1 and Wetland A. SP2 describes a top slope terrace with 1 to 3 percent slopes. This point was taken to help document the vegetation community of the maintained upland slopes directly above Wetland A. The boundary of Wetland A was determined following successional test bores between the wetland and adjacent upland where an abrupt change in topography, vegetation composition, the presence/absence of hydrological indicators, and an absence of hydric soils was observed.

Wetland A would be classified as an emergent (PEM1B) wetland according to the Cowardin et al. (1979) classification scheme. The wetland is part of a drainageway adjacent to SR 66 and N CR 500 W which discharges to another relatively permanent water (RPW), Willow Pond Ditch, approximately 3,000 ft south of the investigation area. Due to a direct connection to an RPW, it is likely that Wetland A is a WOTUS and under the jurisdictional authority of the USACE. The USACE makes all final determinations regarding jurisdiction. The wetland is characterized by the NWI mapper as a riverine feature (R5UBFx), however, during investigation, the entirety of the roadway swale was vegetated, and thus determined to be wetland. The wetland was designated as poor quality by the investigators due to its close proximity to adjacent agricultural land, lack of natural buffers, prevalence of invasive species, and continued anthropogenic management. Wetland A was delineated with a sub-meter GPS and found to be approximately 0.025 ac in size within the investigation area. The wetland continues to the south of the investigation area within the roadway swale.

Wetland B

Wetland B, characterized by SP3, is a 0.135-ac depressional swale located north of SR 66 and west N CR 500 W which was originally constructed as a stormwater feature for the roadway. The sampling point describes a concave depression with 1 to 3 percent slopes where no OHWM was observed. The wetland begins offsite to the west and flows into the investigation area. The wetland ends at the upstream inlet of Structure No. CV 066.074-51.61 where hydrology flows into Wetland A. The wetland is entirely contained with this roadside swale and receives hydrology in the form of diffuse stormwater runoff from adjacent upland agricultural fields and impervious surfaces. No evidence of flow was observed at the standing water within the scour pool (Photograph 1) adjacent to the culvert inlet as well as the roadside swale upslope or downslope from the feature. Additionally, the upslope and downslope swale is fully vegetated with hydrophytic vegetation. Banks within the wetland contained no evidence of a natural OHWM but instead there was evidence of artificial swale management and maintenance. We assume the standing water is likely due to scouring from the bridge culvert installation and high water instances. Photographs of Wetland B upslope from the open water, including Photographs 17, 19, 21, and 22, show Wetland B without a natural OHWM. Likewise, Photographs 5, 8, and 9 show the downslope swale (Wetland A) with no OHWM and completely vegetated. A typical upland sampling point, SP4, was taken in an area adjacent to the north of Wetland B between the wetland and agricultural field, within the ROW. The sampling point describes the shoulder slope with 1 to 3 percent slopes. This point was taken to help document the vegetation community of the maintained upland slopes directly above Wetland B. The boundary of Wetland B was determined following successional test bores between the wetland and adjacent upland where an abrupt change in topography, vegetation composition, the presence/absence of hydrological indicators, and an absence of hydric soils was observed.

Wetland B would be classified as an emergent (PEM1B) wetland according to the Cowardin et al. (1979) classification scheme. The wetland is part of a drainageway adjacent to SR 66 which discharges Wetland A. Wetland A has a surface water connection to another RPW, Willow Pond Ditch, approximately 3,000 ft south of the investigation area. Due to a direct connection to an RPW, it is likely that Wetland B is a WOTUS and under the jurisdictional authority of the USACE. The USACE makes all final determinations regarding jurisdiction. The wetland is characterized by the NWI mapper as a riverine feature (R5UBFx), however, during

investigation, the entirety of the roadway swale was vegetated, and thus determined to be wetland. The wetland was designated as poor quality by the investigators due to its close proximity to adjacent agricultural land, lack of natural buffers, prevalence of invasive species, and continued anthropogenic management. Wetland B was delineated with a sub-meter GPS and found to be approximately 0.135 ac in size within the investigation area. The wetland continues to the south of the investigation area within the roadway swale.

Wetland C

Wetland C, characterized by SP5, is a 0.018-ac depressional swale located south of SR 66 and east of N CR 500 W, downstream from Structure No. CV 066.074-51.62 and UNT to Willow Pond Ditch, which was originally constructed as a stormwater feature for the roadway. The sampling point describes a concave depression with 1 to 3 percent slopes. This point was taken to help establish the vegetation community of the portion of the roadway swale which is dominated hydrophytic vegetation and did not contain an OHWM. The wetland is entirely contained with this roadside swale and receives hydrology in the form of diffuse stormwater runoff from adjacent upland agricultural fields and impervious surfaces. A typical upland sampling point, SP6, was taken in an area directly adjacent to the east of Wetland C between the wetland and agricultural field, within the ROW. This point was taken to help document the vegetation community of the maintained upland directly above Wetland C. The boundary of Wetland C was determined following successional test bores between the wetland and adjacent upland where an abrupt change in topography, vegetation composition, the presence/absence of hydrological indicators, and an absence of hydric soils was observed.

Wetland C would be classified as an emergent (PEM1C) wetland according to the Cowardin et al. (1979) classification scheme. The wetland is part of a drainageway adjacent to SR 66 and N CR 500 W which discharges to another RPW, Willow Pond Ditch, approximately 3,000 ft south of the investigation area. Due to a direct connection to an RPW, it is likely that Wetland C is a WOTUS and under the jurisdictional authority of the USACE. The USACE makes all final determinations regarding jurisdiction. The wetland is characterized by the NWI mapper as a riverine feature (R5UBFx), however, during investigation, this portion of the roadway swale was vegetated, and thus determined to be wetland. The wetland was designated as poor quality by the investigators due to its close proximity to adjacent agricultural areas, lack of natural buffers, prevalence of invasive species, and continued anthropogenic management. Wetland C was

delineated with a sub-meter GPS and found to be approximately 0.018 ac in size within the investigation area. The wetland continues to the south of the investigation area within the roadway swale.

Table 4. Wetland and Data Point Summary Table.

Wetland ID and Lat/Long	Туре	Acreage	Quality	Photo IDs	Associated Structure ID	Likely WOTUS?	Sample Point ID (SP)	Lat/Long	Dominant Vegetation	Meets Vegetation Criterion?	Hydric Soil Indicators (s)	Meets Soil Criterion?	Hydrology Indicators(s)	Meets Hydrology Criterion?	Within Wetland?	Notes
Wetland A 37.901713,	PEM1B	0.025 0.135	Poor	4-10, 14, 51	CV 066- 074-51.61	Yes	SP1	37.901884 -87.150771	Typha angustifolia, Leersia oryzoides	Yes	A11, F3, F6	Yes	Primary: A2, A3, C3 Secondary: C2, D2, D5	Yes	Yes	Wetland A is entirely contained within roadway swale and continues offsite.
-87.150780					0/4-31.01		SP2	37.901980 -87.150809	Xanthium strumarium, Setaria faberi	No	None	No	Secondary: B10	No	No	Sample Point was taken adjacent to Wetland A at confluence of RSD 1 and Wetland A.
Wetland B 37.902173,	PEM1B	0.135 0.025	Poor	1, 14-19, 21-23	CV 066- 074-51.61	Yes	SP3	37.902148 -87.151032	Typha angustifolia, Asclepias incarnata	Yes	F3	Yes	Primary: B2, B3 Secondary: B6, B10, C2, D2, D5	Yes	Yes	Wetland B is entirely contained with the roadway swale and confluences with Wetland A at CV 066-074-51.61
-87.151697				21-23	0/4-31.61		SP4	37.902176 -87.151228	Sorghum halepense, Schedonorus arundinaceus	No	None	No	None	No	No	Sample Point was taken in an area directly adjacent and upslope from Wetland B.
Wetland C					CV		SP5	37.901842 -87.150641	Leersia oryzoides, Verbesina alternifolia	Yes	F3	Yes	Primary: A3, B2 Secondary: B10, D2, D5	Yes	Yes	Wetland C is entirely contained with the roadway swale and continues offsite.
37.901705 -87.150636	PEM1C	0.018	Poor	3, 24-31	066.074- 51.62	Yes	SP6	37.901747 -87.150614	Acer Saccharinum, Setaria faberi, Acalypha ostryifolia	No	None	No	None	No	No	Sample Point was taken in an area directly adjacent and upslope from Wetland C
		Up	land Sampl	e Point			SP7	37.901972 -87.149734	Setaria faberi, Sorghum halepense, Panicum dichotomiflorum	No	None	No	None	No	No	Sample Point was taken between SR 66 roadway and agricultural field, east of CR 500 W, within the ROW to document typical lack of wetland conditions and vegetation community.

OPEN WATER

No open water features were observed in the investigation area nor listed on background material.

WILDLIFE CROSSINGS

Observations of suitable terrestrial and aquatic habitat for wildlife crossings was found to be present within the investigation area. This includes habitat that is suitable for amphibians, reptiles, and mammals. Adjacent vegetation communities include agricultural field, mowed and maintained ROW, steep vegetated riparian banks, and streams. During the site visit, mammal tracks were observed along with direct sightings of amphibians and reptiles including frogs, turtles, and snakes (Photographs 14, 15, 23, 43, and 44). Fish were present in isolated pools within Wetland A and B. These sightings were observed within the wetlands and stream under and adjacent to both culvert structures.

CONCLUSIONS:

Three provisionally jurisdictional wetland features (Wetlands A–C) were determined to be present within the investigation area (Table 4). The field observation revealed one intermittent stream, UNT to Willow Pond Ditch, with a defined OHWM (Table 2). All water resources are likely federally jurisdictional WOTUS (Figure 2) due to their direct surface water connection to Willow Pond Ditch, an RPW. One roadside ditch, RSD 1, was observed within the investigation area. RSD 1 is likely a non-jurisdictional roadside ditch due to its lack of bed, bank, or wetland features.

Every effort should be taken to avoid and minimize impacts to the surface water features. If impacts are necessary, then mitigation may be required and will be determined during permitting. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the USACE. This report is our best judgment based on the guidelines set forth by the USACE.

Acknowledgement:

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator's training, experience, and professional judgement in conformance with the 1987 *Corps of Engineers Wetlands Delineation Manual*, the appropriate regional supplement, and other appropriate agency guidelines.

2/16/2024

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INDOT District: Fort Wayne





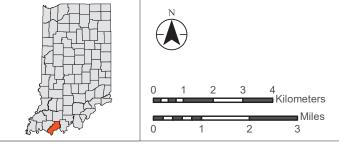
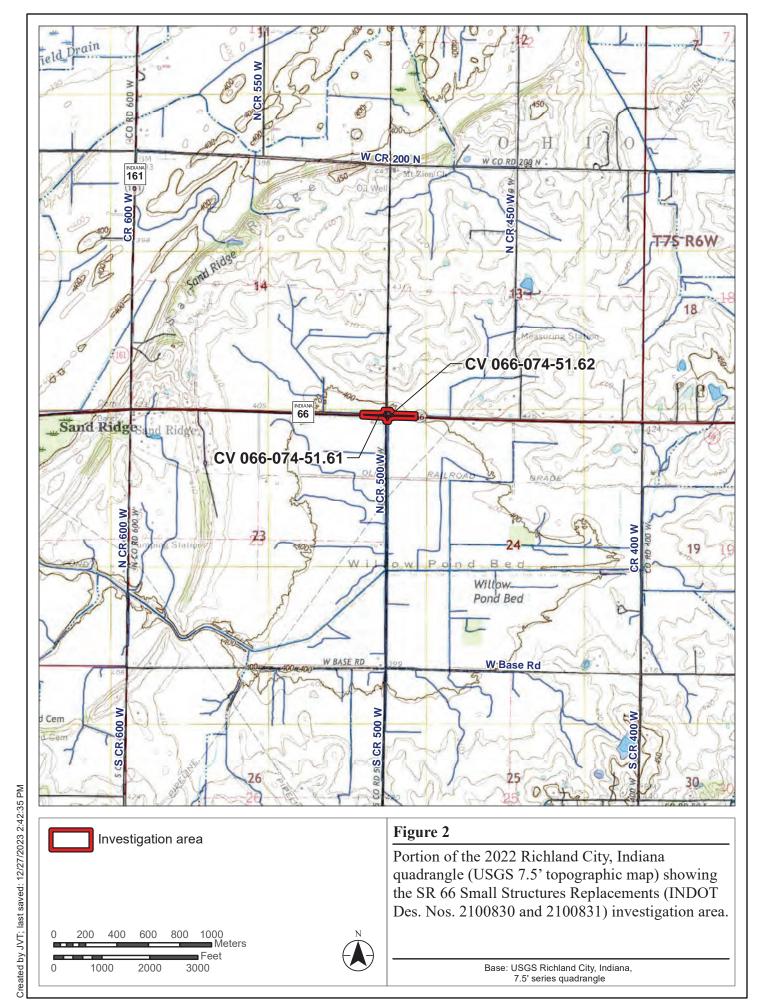
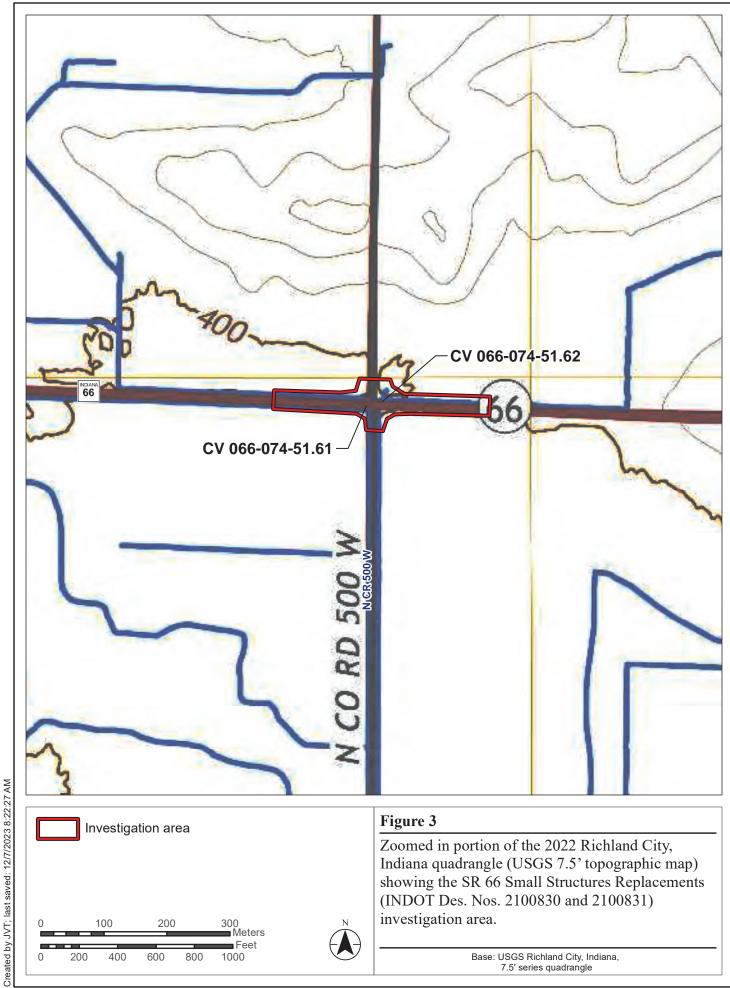


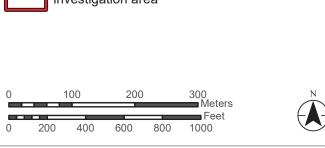
Figure 1

Portion of the ESRI World Street Map showing the vicinity of the SR 66 Small Structures Replacements (INDOT Des. Nos. 2100830 and 2100831) investigation area.

Base: ESRI World Street Map

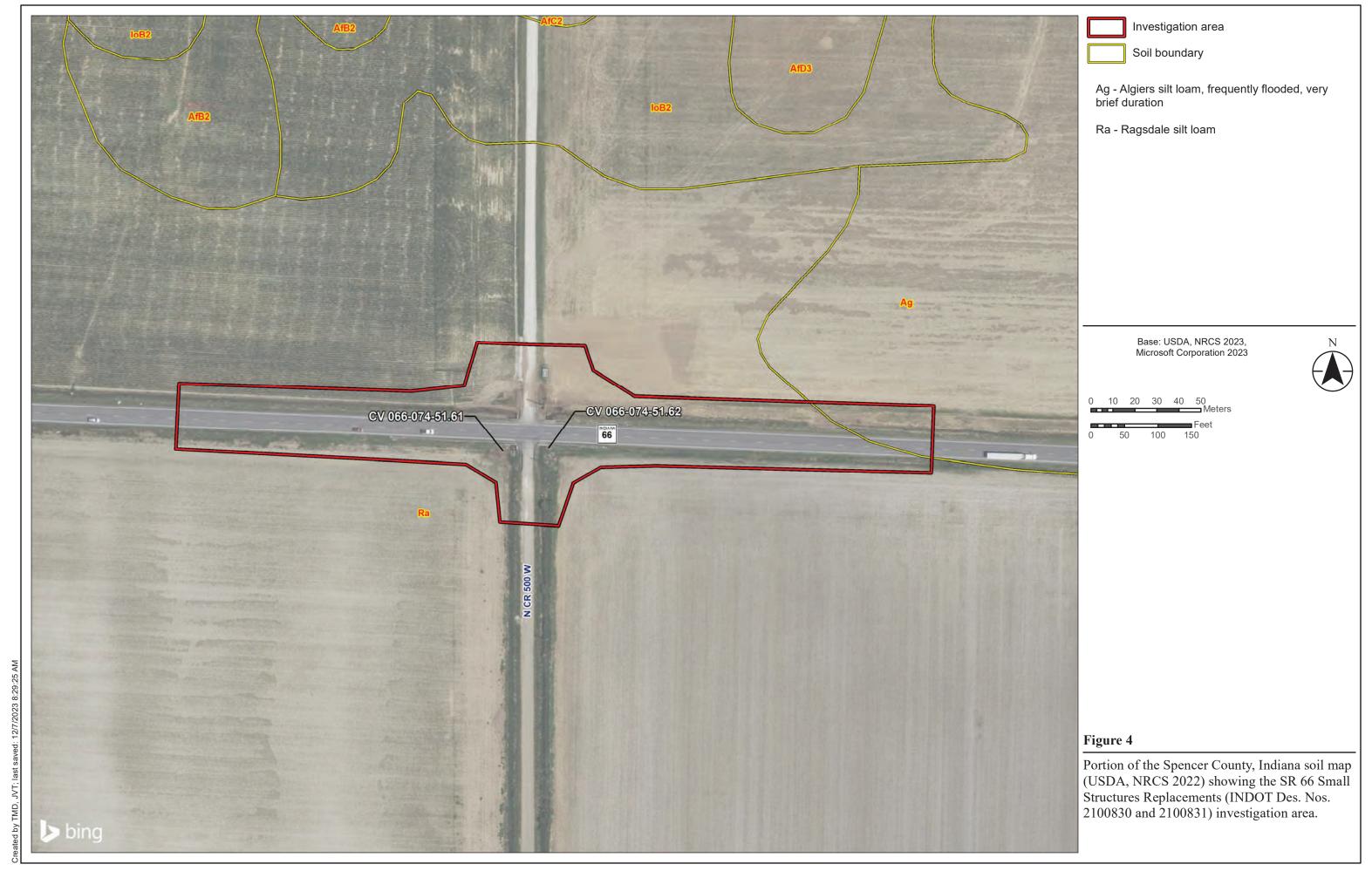


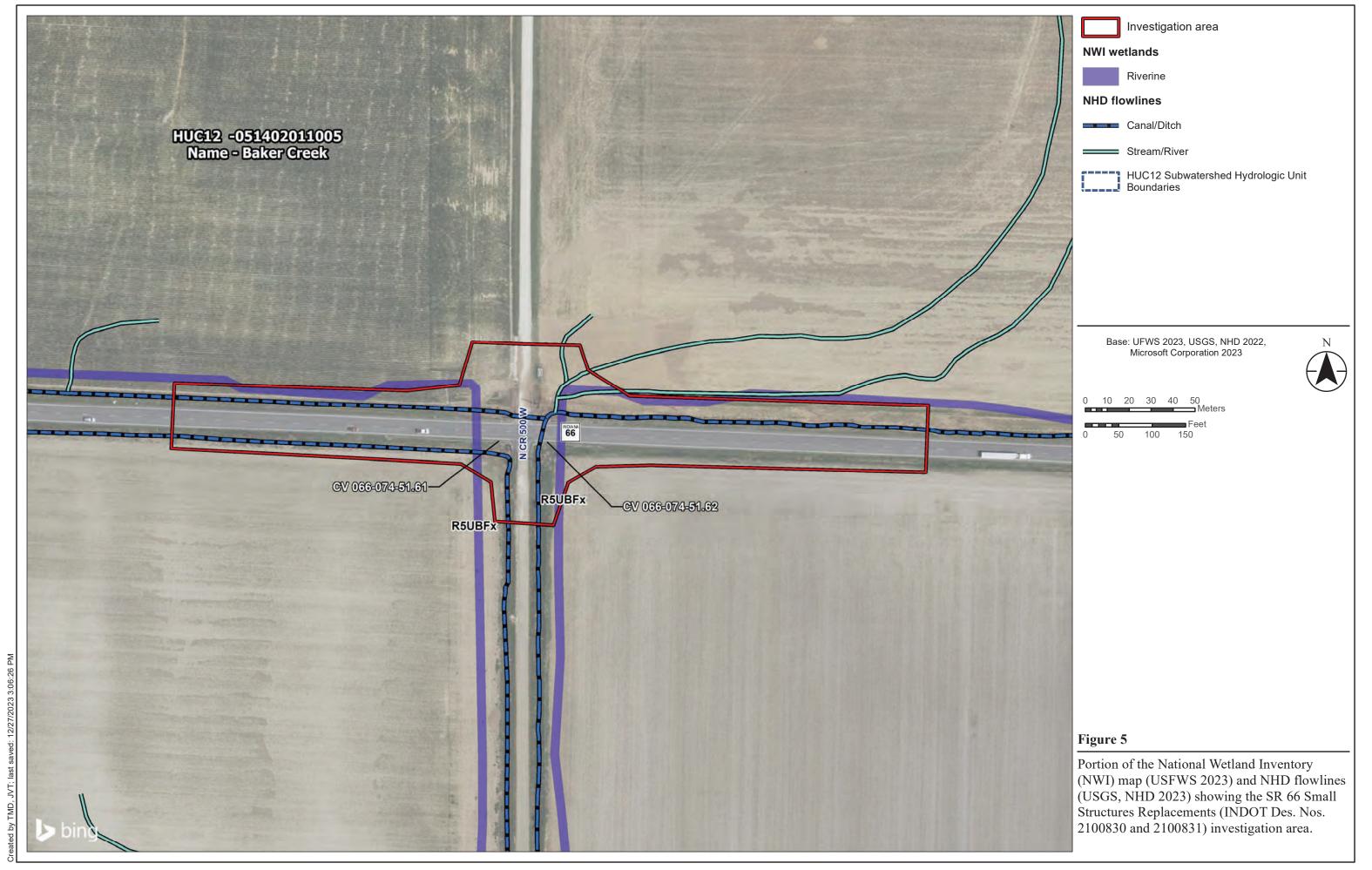




Zoomed in portion of the 2022 Richland City, Indiana quadrangle (USGS 7.5' topographic map) showing the SR 66 Small Structures Replacements (INDOT Des. Nos. 2100830 and 2100831) investigation area.

Base: USGS Richland City, Indiana, 7.5' series quadrangle







Floodplain Analysis & Regulatory Assessment (FARA)



Point of Interest

Base Flood Elevation Point

VERSION

1.5

FLD_ZONE, SOURCE_DNR, ZONE_SUBTY

Not Mapped

.ong: -87.15075138244264 Lat: 37.90212797661016

The information provided below is based on the point of interest shown in the map above.

County: Spencer

Approximate Ground Elevation: 398.2 feet (NAVD88)

Stream Name:

Base Flood Elevation: Not Available

Willow Pond Ditch

Drainage Area: Not Available

Best Available Flood Hazard Zone: Not Mapped National Flood Hazard Zone: Not Mapped

Is a Flood Control Act permit from the DNR needed for this location? See following pages

Is a local floodplain permit needed for this location? Contact your local Floodplain Administrator-

Floodplain Administrator: Kay Irwin, Floodplain Administrator

Community Jurisdiction: Spencer County, County proper

Phone: (812) 649-6010

Email: spencerplan@psci.net

US Army Corps of Engineers District: Louisville

Date Generated: 11/3/2023



Figure 6

Portion of the IDNR Best Available Floodplain map for the SR 66 Small Structures Replacements (INDOT Des. Nos. 2100830 and 2100831) investigation area.





Base: https://www.in.gov/dnr (accessed 11-3-2023)

