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

Road	No./County:	State Route (S	SR) 13 and SR 128	, Hamilton, Madisc	n, and Tipton		
Desig	nation Number(s):	2003081					
Project Descr	ct iption/Termini:	Tipton Countie	mprovement project at SR 13 and SR 128, in Hamilton, Madison, and ies, Indiana. The project will extend from approximately 690 feet south orth of the intersection and 83 feet west to 770 feet east of the				
X	Categorical Exclusion	, Level 2 – Requ	uired Signatories:	INDOT DE and/or	NDOT ESD		
	Categorical Exclusion	, <b>Level 3</b> – Req	uired Signatories:	INDOT ESD			
	Categorical Exclusion, Level 4 – Required Signatories: INDOT ESD and FHWA						
	Environmental Assess	sment (EA) – Re	equired Signatorie	s: INDOT ESD and	FHWA		
					nge from the original approve e environmental approval	b	
Approv	val						
	INDOT	DE Signature and	d Date	INDO	T ESD Signature and Date		
	FHV	/A Signature and I	Date				
Release for Public Involvement			INDOT DE Initials	01/10/2025 and Date	N/A INDOT ESD Initials and Dat	е	
Certific	cation of Public Invol	vement	IND	OT Consultant Servic	es Signature and Date		
INDOT D	DE/ESD Reviewer Signature	e and Date:					

Virginia Flynn, Kaskaskia Engineering Group, LLC

Name and Organization of CE/EA Preparer:

		iiiuiaiia Depai	tillelit or Transpo	ıtatıvı	
County	Hamilton, Madison, and Tipton	Route	SR 13 at SR 128	Des. No.	2003081
		Part I – P	ublic Involvem	<u>ent</u>	
	al action requires some leve opment process. <b>The level</b>				
If I	pes the project have a histor No, then: Opportunity for a Public Hea		under the Historic Bridge	Yes PA*?  X	No X
	aring is required for all histor O, and the ACHP.	ic bridges processed	d under the Historic Bridg	ges Programmatic Agi	reement between INDOT,
	t public involvement activitie ecial purpose meetings, nev				(i.e. notice of entry),
the projec		sible for land survey			1, 2023, notifying them about . A sample copy of the Notice
Historic Propublic inpu	operties Affected". A legal a ut on FHWA's Section 106 e	dvertisement was placeffect finding. Comm	aced in the <u>Indianapolis S</u> ents from the public wer	tar, a local publication e accepted for 30 day	nent of FHWA's finding of "No i, on August 1, 2024, soliciting ys following the publication of on area included in Appendix
11.5 miles	from the project site. Public	notices for the mee	eting were advertised in the	ne Greenfield Daily Re	Lapel, Indiana, approximately eporter, the <u>Anderson Herald</u> , (Appendix G, pages 2 to 11).
Developm comments appear in	ent Public Involvement Pro and/or request a public he	cedures Manual whi aring. INDOT has de nt upon the release	ch requires the project secided to hold a public he	ponsor to offer the puearing for this project.	ansportation (INDOT) Project ablic an opportunity to submit Therefore, a legal notice will document will be revised after
	Controversy on Envice controversy concerning conacts.			ncluding what is being	done during the project to
At this tim	e, there is no substantial pu	blic controversy con	cerning impacts to the co	ommunity or to natural	resources.
This is r	page 2 of 27 Project name	e: SR 13 Inters	section Improvement	Date:	December 20, 2024

Version: April 2021

County	Hamilton, Mand Tipton	adison,	Route	SR 13 at SR 128	3 [	Des. No.	2003081	
	and ripton							
<u>Part</u>	II - Gene	<u>ral Project I</u>	dentifica	<u>tion, Descr</u>	<u>iption, and</u>	<u>l Desig</u>	n Infor	<u>mation</u>
Sponsor	of the Project:	India	na Departmer	t of Transportation	(INDOT)	INDO	Γ District:	Greenfield
Local Nar	ne of the Facili	ty: SR 1	3 and SR 128					
Fu	unding Source	(mark all that apply)	): Fede	eral X State	X Local	Other	*	
*If	other is select	ed, please identify t	the funding so	urce:				
PURPO	SE AND NEE	D:						
		the specific transpo project. The solution						hould describe
high frequengineeri of crash f type of ir volumes, Office of depicts a and 23 service, is delay for intersection was meas	uency of crash and safety mode requency (ICF) atersection. The roadway class Traffic Safety, for level of service econd delay dust measured on both unsignalizons, and greate sured in 2017-20se of the proj	2020, Engineering A severity, particularly eling software) of 20 is 1.90 (above averse indices compartications, and control (agging the intersect (LOS) rating of (software) ascale of A throughed and signalized iter than 80 seconds 2019 and the overall ect is to reduce crafts.	right-angle cr 017-2019 crasic erage) and the re the crash of fol type through tion as a safet table flow), ran hour for westly h F, with F beintersections. It of vehicular of II LOS was pre	ashes, at the existing data, the most resided in data, the most resided index of crash costs and crash free frout Indiana. The least concern. Additionally ging from 17.9 section of the worst. LOS and the worst.	ng intersection. P cent data available (ICC) is 2.31. The current for this in CF and ICC exceutally, increased means delay during the cost, which meas a lindicates less the cater than 50 sections. The ting of E in 2046	er RoadHA ble at the tir hese values hetersection ed the thres hotorist dela the AM per sures the qual conds of ve e intersecti if the safety	T 3.0 analy me of this a sare consider to intersect shold of 1.0 ays at the suak hour for uality of moal to ten sect hicular delation's currenty concern is	rsis (INDOT traffic nalysis, the index dered high for this dered high for this distinct with similar to set by INDOT's abject intersection eastbound travel, botor vehicle traffic conds of vehicular ay at unsignalized t LOS rating of C is not addressed.
PROJEC	CT DESCRIP	TION (PREFERR	ED ALTERN	ATIVE):				
County:	Hamilton, Ma	adison, and	Mun	icipality: Greer	ifield			
Limits of F	Proposed Work			intersection of SR section and 83 fee	13 and SR 128,			
Total Wor	k Length:	0.34 M	ile(s)	Total W	ork Area:	4.42	Acre(s)	
If A	yes, when did t cceptability?	access Document (I. the FHWA provide a quired; a copy of the of the IAD.	a Determinatio	n of Engineering a	•	D	es <sup>1</sup> ate:  A with a rec	No X quest for
current defic	iencies, roadw	tincluding township ay description, surr ct will meet the Pur	ounding featur	es, etc. Preferred a	alternatīve should	l include the	e scope of $v$	vork, anticipated
This is	page 3 of 27	Project name:	SR 13, Inters	section Improveme	nt	Date:	Decemb	er 20, 2024

County	Hamilton, Madison,	Route	SR 13 at SR 128	Des. No.	2003081
•	and Tipton				

The INDOT and the Federal Highway Administration (FHWA) intend to proceed with this intersection improvement project.

The project is located at the intersection of SR 13 and SR 128 in Section 32, Township 21 North, Range 6 East in Madison Township in Tipton County, Indiana; Section 5, Township 20 North, Range 6 East in White River Township in Hamilton County, Indiana; and Section 4, Township 20 North, Range 6 East, and Section 33, Township 21 North, Range 6 East of Pipe Creek Township in Madison County, Indiana (Appendix B, page 1).

SR 13 is a two-lane rural Minor Arterial and SR 128 is a two-lane rural Major Collector. The existing SR 13 and SR 128 cross sections consist of one 12-foot lane in each direction with two-foot paved shoulders. The project is located in a rural area consisting of predominantly forested acreage and agricultural land. The northwest and southwest quadrants of the intersection consist of forested acreage. The southeast quadrant of the intersection includes agricultural land. The northeast quadrant on the intersection includes forested acreage with a further-adjacent residential dwelling. Per the September 25, 2020, Engineering Assessment Report, the intersection experiences elevated crash rates with a pattern of severe right-angle crashes. Crash data from 2017 to 2019 was analyzed at this intersection. During this time period, there were 18 crashes, of which, seven were right angle crashes, five rear end crashes, four ran-off-road crashes, and two sideswipe crashes. Seven of these crashes resulted in injury, and of those six were incapacitating, and one as non-incapacitating (Appendix I, page 7). The remaining 11 crashes resulted in property damage only. This resulted in the RoadHAT analysis and the aforementioned ICF value of 1.90 and ICC value of 2.31, as discussed in the purpose and need section.

The preferred alternative for this project will convert the existing intersection with two-way stop control into a single lane roundabout. Proposed roadway elements include 12-foot travel lanes with a mix of open and curbed shoulders. A central concrete island and truck apron will be provided, as well as exterior truck aprons in the northwest and southwest to facilitate turning movements. Additionally, drainage improvements will include installation of curb and gutter turnouts, a stormwater system, including an approximately 0.45 acre stormwater detention pond, and new roadside ditches. An existing culvert, CLV-013-048-20.9 (CLV-43727), will be replaced as part of this project. CLV-43727 is comprised of 54 feet of single barrel, 36-inch Corrugated Metal Pipe (CMP), tied into 54 feet of 63-inch by 36-inch Reinforced Concrete Culvert Pipe (RCP). This existing structure will be replaced with 121 feet of single barrel, 48-inch RCP. The center of the intersection will shift approximately 100-feet to the east to avoid impacts to the historical bridge over Duck Creek located approximately 100-feet west of the center of the existing intersection. Utility relocations will be required at the existing intersection, as well as new lighting. The project will require approximately 3.26 acres of permanent right-of-way (ROW), and approximately 0.55 acre of temporary ROW. Anticipated impacts include tree removal affecting terrestrial habitat and impacts to streams and non-jurisdictional wetlands. Since the project will disturb at least one acre of soil, a Construction Stormwater General Permit (CSGP) will be required. Every effort to avoid, minimize, and/or mitigate project impacts will be made. Preliminary project plans are included in Appendix B (pages 22 to 47).

The proposed maintenance of traffic (MOT) is anticipated to include lane shifts, lane closures, and detours (Appendix B, pages 26 to 29). The MOT for the project is discussed in further detail in the MOT During Construction section of this document.

The project will reduce crash potential, improve the ICF and ICC to below 1.00, and provide safe operation of the intersection.. This improves overall safety in the area and meets the purpose and need.

The construction limits extend from approximately 690 feet south to 800 feet north of the intersection and 83 feet west to 770 feet east of the intersection, which are the logical termini for the project since these are the rational end points of the transportation improvement and subsequent review of its environmental impacts. This project demonstrates independent utility because it will improve the intersection as an independent project and does not depend on any other planned projects.

#### 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.

**Realignment and Left Turn Lanes:** An intersection realignment and 100-foot left turn lanes were considered. This alternative would allow turning traffic to be bypassed by through movement traffic through the intersection. This alternative improves safety by alleviating rear end crashes but does not improve safety for the right angle crashes. This alternative will not address the purpose and need. Therefore, this alternative was discarded from further consideration.

This is page 4 of 27 Project name: SR 13, Intersection Improvement Date: December 20, 2024

County	Hamilton, Madisor and Tipton	n, 	Route	SR 13 a	at SR 128	-	Des. N	o. 20	03081	
at all appr Traffic Co and the p	ent and Traffic Signoaches; however, the ntrol Devices (MUTC redominant pattern constants was discarded from	e volumes at this D). This alternati f right angle cras	intersection ve is anticion shes rema	on do not n ipated to re	neet any of teduce total of	the traffic si rashes, but	gnal warra results in	ants from an incre	n the Man ase in rea	ual on Uniforn ar end crashes
making th design sp	ent and 4-Way Stope intersection an alleeds along SR 13. Thisideration.	way stop. This v	vould not i	mprove sa	fety for the	rear end ci	rashes an	d right a	ngle cras	hes due to the
safety issu	The no build alternates will persist. The sets the purpose and n	severe right angl	le and left	turn crash	es will not b	e addresse	ed with the	no build		
t	e No Build Alternate would not correct exist would not correct exist would not correct the would not correct exist would result in serious her (Describe):	sting capacity de sting safety haza existing roadway sting deteriorated	ficiencies; irds; y geometri d condition	c deficienc s and mair	sies; ntenance pro	oblems; or			X	
ROADW	AY CHARACTER:									
the propos	ed action includes m	ultiple roadways,	complete	and duplic	ate for each	roadway.				
Name of F		SR 13								
	l Classification:	Minor Arterial	(0000)			DT 40	000	(00.40		
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		Existing			Propose	d				
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	pe of Lanes: vement Width:	12	through la	nes	12	through la	ines			
	oulder Width:		ft.		Variable	ft.				
		2			up to 3					
	edian Width:	N/A	ft.		N/A	ft.				
Sic	dewalk Width:	N/A	ft.		N/A	ft.				
	etting: pography:	Urban X Level			Suburban Rolling		X Ru Hil	ıral Iy		
Name of F	•	SR 128								•
	l Classification:	Major Collecto			i	DT: 4 =	70.5	(00.40)		
Current Al	DT: our Volume (DHV):	1,452 192 Tr	(2026) uck Percei		esign Year <i>A</i> 4.6	וטו: <u>1,7</u>	'25	(2046)	)	
	Speed (mph):		uck Percer gal Speed		55					
	-1 (١٣٠٠),		J 27004	( <b>p</b> ).						

Date: December 20, 2024

SR 13, Intersection Improvement

This is page 5 of 27 Project name:

County	Hamilton, Madison, and Tipton	,	Route	SR 13 at	SR 128	_	Des. No.	2003081
		Existing			Propose	ed		
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	ype of Lanes:	2	through lai	nes		2 through lan	es	
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S	Shoulder Width:	2	ft.		Variable	ft.		
					up to 3			
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S	idewalk Width:	N/A	ft.		N/A	ft.		
c	otting.	Lirbon			b.urban		V Dural	
	Setting:	X Level			Suburban Rolling		X Rural	
10	opography:	X Level			Colling		Hilly	
BRIDGE	ES AND/OR SMALL	STRUCTURE	(S):					
	sed action includes mu		<u> </u>	and duplic	ate for eac	h bridge and/	or small stru	cture. Include both
	d proposed bridge(s) ar					J		
<b>.</b>	(NIDIAL L. ()	"00 00000 D / 0			0 "	5	04.0.51	101
Structura	/NBI Number(s):	#80-00093 B / 8	3000092		Sufficie	ency Rating:		AS Inspection 11/10/22
Structure							(Ratin	g, Source of Information)
Structure							(I Cathri	9,,
Structure,		Fxisting	ı		Propose	d	(I Cathri	g,,
	ridae/Structure Type:	<b>Existing</b> Continu		concrete	Propose		(reality	<b>_</b>
В	ridge/Structure Type:		l uous slab d 3	concrete	Propose	d N/A N/A	(ream)	
B	ridge/Structure Type: lumber of Spans: Veight Restrictions:		lous slab c	concrete	Propose N/A	N/A	(rtain)	
B N W	lumber of Spans:	Continu	uous slab o	concrete		N/A N/A	(roam)	
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		indiana Depai	rtment of Transp	ortation	
County	Hamilton, Madison, and Tipton	Route	SR 13 at SR 128	Des. No.	2003081
structure nun	pacts and work involving bro nber, type, size (length and table exceeds a complete p	dia.), location and ir	npacts to water. Use a	table if the number of s	mall structures becomes
length, wit		.6 feet, built in 2011			8000092 that is 105.5 feet in nventory, this structure is not
No work a	ssociated with the bridge is	anticipated as part	of this project.		
SR 128. T that will be	he existing structure is a 5 a 21 feet in length and a b	4-foot CMP tied into a arrel width of 48 inch	a 54-foot RCP. This RC		he intersection of SR 13 and aced with a single barrel RCP
No other s	structures are involved in th	is project.			
MAINTE	NANCE OF TRAFFIC (N	OT) DURING CO	NSTRUCTION:		
Discuss close measures she wetlands. An The MOT 13, and closure of of SR 13 to 213, addir and lastly, the west a	osure of SR 128 during come detour includes the use of the intersection of SR 13 autilizing SR 28, SR 213, and nearly 22 miles of travel closure of 296th Street, utilipproach of the roundabout	psed? e of a detour or require access by local traffer through-traffic dependentially change the easy associated with the walk, curb ramp, and access by pedestrially that will be provided that will	fic and so posted. Endent businesses. Cocal special events or for novironmental conseque e proposed method for lor bicycle lane closure ans and/or bicyclist and and for maintenance of travel and and SR 128. Phases and a majority of the SR 9, adding nearly 27 ruction of the north and lory 33 miles of travel; closuth) utilizing SR 9, Street, adding nearly of detention pond. Phases and a majority of the street, adding nearly a of detention pond.	estivals. Ances of the action? MOT? (describe below) so posted (describe below) ffic. Any known impactoperties such as Sectionell.  See one of the MOT will report and south legs miles of travel. Phase south tie-ins. Phase two sure of SR 128 (north) SR 28, and SR 213, add and SR 214, and SR 215, and SR 216, and SR 216, and SR 217, add and SR 218, and SR 218, and SR 218, and SR 218, add and SR 218, an	s from these temporary
all phases months to	s. Total length of time the datal. MOT plans are included	detour will be in plac d in Appendix B, pag ose a temporary inc	e will be determined by es 26 to 29. onvenience to traveling	the contractor but it is motorists (including s	truction season combined for anticipated to be less than 6 chool buses and emergency
Services),	nowever, no significant del	ayo are armorpateu,		and delays will dease u	pon project completion.

Version: April 2021

Date: December 20, 2024

SR 13, Intersection Improvement

This is page 7 of 27 Project name:

County	Hamilton, Madison, and Tipton	Route	SR 13 at SR 128	Des. No. 2003081
ESTIMAT	TED PROJECT COST AN	ID SCHEDULE:		
Engineerir	\$ 1,143,486 (FY 2022-2025)	Right-of-Way:	\$ 350,000 (FY 2025)	Construction: \$ 4,293,000 (FY 2026 under DES 2003082)
Anticipated	d Start Date of Construction:	Spring 2026		_
DIGUE	E 14/43/			

#### **RIGHT OF WAY:**

	Amount (acres)			
Land Use Impacts	Permanent	Temporary		
Residential	0.601	0		
Commercial	0	0		
Agricultural	1.019	0		
Forest	1.102	0		
Wetlands	0	0		
Other:	0	0		
Other:	0	0		
Other:	0	0		
Other:	0	0		
TOTAL	2.72	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 ROW is approximately 12 feet on each side of centerline on SR 13 and varies from 12 feet to 40 feet on SR 128 on each side of centerline and consists of mowed grasses and scrub shrub typical of being adjacent to a rural roadway. Areas of proposed ROW include maintained vegetation associated with residential acreage at the northeast quadrant of the intersection, forested acreage at the northwest and southwest quadrant of the intersection.

The project requires approximately 2.72 acres of permanent ROW consisting of roadside vegetation and residential maintained vegetated land in the northeast quadrant of SR 13 and SR 128, roadside vegetation and forested land in the northwest and southwest quadrant of SR 13 and SR 128, and roadside vegetation and agricultural land in the southeast quadrant of SR 13 and SR 128. The project will not require the acquisition of temporary ROW. Proposed ROW widths along SR 13 are 60 feet from centerline and 45 feet from centerline along SR 128. ROW locations are denoted in the project plans in Appendix B (pages 34 to 38).

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.

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County Hamilton, Madison, Route SR 13 at SR 128 Des. No. 2003081 and Tipton

### Part III - Identification and Evaluation of Impacts of the Proposed Action

#### **SECTION A - EARLY COORDINATION:**

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

Early coordination letters were sent on July 10 and November 10, 2023 (Appendix C, pages 1 to 2).

Agency	Date Sent	Response Date	<u>Appendix</u>
Federal Highway Administration (FHWA)	July 10, 2023	No response received	N/A
Indiana Geological and Water Survey (IGWS) –	July 10, 2023	July 10, 2023	Appendix C, pages 3 to 4
Online Form.		(automated response)	
U.S. Department of Housing and Urban Development (HUD)	July 10, 2023	No response received	N/A
Natural Resources Conservation Service (NRCS)	July 10, 2023	July 20, 2023	Appendix C, page 5
Indiana Department of Environmental Management (IDEM) – Wetlands and Stormwater Programs	July 10, 2023	No response received	N/A
IDEM - Groundwater Section	July 10, 2023	July 25, 2023	Appendix C, pages 9 to 10
Indiana Department of Natural Resources, Division of Fish and Wildlife (IDNR-DFW)	July 10, 2023	August 9, 2023	Appendix C, pages 11 to 15
National Park Service (NPS)	July 10, 2023	No response received	N/A
Indiana Department of Transportation (INDOT) – Office of Aviation	July 10, 2023	July 11, 2023	Appendix C, page 16
INDOT Greenfield Environmental Section Manager	July 10, 2023	No response received	N/A
(Supervisor)		·	
INDOT Project Manager	July 10, 2023	No response received	N/A
U.S. Army Corps of Engineers (USACE)	July 10, 2023	No response received	N/A
U.S. Coast Guard – Eight District Commander	July 10, 2023	July 20, 2023	Appendix C, page 26
Henry County Planning Commission - Floodplain and Zoning Administrator	July 10, 2023	No response received	N/A
Hamilton County Sheriff's Department	July 10, 2023	No response received	N/A
Hamilton County Council – District 3 Council Member	July 10, 2023	No response received	N/A
Hamilton County Commissioners - President	July 10, 2023	No response received	N/A
Hamilton County Highway Department	July 10, 2023	No response received	N/A
Hamilton County Surveyor	July 10, 2023	July 13, 2023	Appendix C, pages 17 to 25
Hamilton County Plan Commission Director –	July 10, 2023	No response received	N/A
Floodplain Administrator			
Madison County Sheriff's Department	July 10, 2023	No response received	N/A
Madison County Council – District 3 Council Member	July 10, 2023	No response received	N/A
Madison County Commissioners – North District	July 10, 2023	No response received	N/A
Madison County Highway Department – Highway Superintendent	July 10, 2023	No response received	N/A
Madison County Surveyor	July 10, 2023	No response received	N/A
Tipton County Surveyor	July 10, 2023	No response received	N/A
Tipton County Plan Commission - President	July 10, 2023	No response received	N/A
Tipton County Highway Department – Highway Superintendent	July 10, 2023	No response received	N/A
Tipton County Council - Councilman	July 10, 2023	No response received	N/A
Tipton County Sheriff's Department	July 10, 2023	No response received	N/A
City of Elwood - Mayor	July 10, 2023	No response received	N/A
City of Elwood City Council - President	July 10, 2023	No response received	N/A
City of Elwood Police Department - Chief	July 10, 2023	No response received	N/A
City of Elwood Fire Department - Chief	July 10, 2023	No response received	N/A
City of Elwood Street Department – Street Commissioner	July 10, 2023	No response received	N/A
Indianapolis Metropolitan Planning Organization –	July 10, 2023	No response received	N/A

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County	Hamilton, Madison, and Tipton	Route	SR 13 at SR	28 Des	. No.	2003081	
Indianap	e Director olis Metropolitan Planning	Organization –	July 10, 2023	No response received	d N/A		
	of Transportation Planning Heights School Corporation Andert	n –	July 10, 2023	No response received	d N/A		
	Lapel Community Schools	– Superintendent	July 10, 2023	No response received	l N/A		
	Community Schools Corpor		November	No response received			
Superinte			10, 2023	The responde received			
All applica	ble recommendations are i	ncluded in the Envir	onmental Commi	tments section of this C	E docur	ment.	
SECTION	I B – ECOLOGICAL RE	SOURCES:					
	reams, Rivers, Watercour Federal Wild and Scenic R State Natural, Scenic or R Nationwide Rivers Invento Outstanding Rivers List for Navigable Waterways	tivers ecreational Rivers ry (NRI) listed	ictional Feature	s X		Yes X	<u>s</u> No
Total strea	m(s) in project area:	714.66 Line	ear feet Total	impacted stream(s):		6	Linear feet
impacts (both or state lists i	streams, rivers, watercours n permanent and temporary for Indiana. Include if featul pacts will occur.	y) will occur to the fe	atures identified.	Include if the streams	or rivers	are listed or	n any federal
five stream	the desktop review, the aens, rivers, watercourses, oses, or other jurisdictional for 9, 2023, by Kaskaskia Er	r other jurisdictional eatures within or ad	features within lipid jacent to the pro	the 0.5-mile search rac	lius. The	ere are four	streams, rivers
	al, Wild and Scenic Rivers or National Rivers Invento					ivers for Indi	iana; navigable
Stormwate Determination jurisdiction determination	of the U.S. Determination of the U.S. Determination of Control of the U.S. Determination of the	November 29. 2023 Report. It was de meral jurisdictional USACE on March 6	<ol> <li>Please refer termined that o stream is locate</li> </ol>	to Appendix F, pag ne likely perennial jur d within the investigate	e 1 for isdiction ed area.	r the <i>Water</i> al stream, t . An approve	rs of the U.S two intermitten ed jurisdictiona
which ther river, maki 30 feet wid structures. reach due	ek is a perennial stream that a flows into the Wabash Riving Duck Creek a likely Wated and approximately 5 fe. Approximately 298.88 line to channeling and an <i>E. could</i> take care to wear approxime.	rer, and eventually to ers of the US. A define et deep. Upstream of ar feet (LF) of the strand of impairment, accompairment, accompairment.	o the Ohio River.  ned ordinary high  drainage consists  ream is within the  rding to Indiana's	The West Fork of the W water mark (OHWM) was of agricultural fields, investigated area. Du 303(d) list. Workers w	Vhite Riv as obse forested ck Creek ho are w	ver is a section of the control of t	on 10 navigable s approximately rural residentia uality within this near water with
	Duck Creek is an epheme from flow-off from a busine						
This is p	age 10 of 27 Project na	me: SR 13, Inter	section Improver	nent	Date:	December	20, 2024

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	County	Hamilton, Madison, and Tipton	Route	SR 13 at SR 128	Des. No	2003081	
	making UI approxima	Creek flows 30 feet southwes NT 1 to Duck Creek a likely tately 0.25 feet deep. Upstream am is within the investigated a	Waters of the US. n drainage consists	An observed OHWM of forested tracts and	was measured at app a row crop agricultura	oroximately 2.16 feet wide al field. Approximately 42.54	and
	or flow pre previously measured agricultura	Duck Creek is likely to be con esent during hydrological cor described flow pattern of Du at approximately three feet al field. Approximately 126 LF to and channeling.	nditions. UNT 2 to ck Creek, making wide and 0.42 fe	Duck Creek flows 35 UNT 2 to Duck Creek et deep. Upstream dra	if feet northwest into a likely Waters of the ainage consists of a	Duck Creek, then follows US. An observed OHWM forested tract and a row	the was crop
	during nor	Duck Creek is likely to be cor mal hydrological conditions. Loximately 247.24 LF of the strueling.	JNT 3 to Duck Cree	ek was determined by tl	he USACE to be non-j	urisdictional (Appendix F, p	age
	pond outfa practicable 1 to Duck	ately 4 LF (0.0003 acre) of pe all pipe. Approximately 5 LF ( e, as project limits have been Creek or UNT 3 to Duck Cre ek outside of construction limit	0.0003 acre) of ter constrained to the ek or Duck Creek.	mporary impacts will or smallest possible to co UNT 1 to Duck Creek	ccur due to constructi omplete the project. T , UNT 3 to Duck Cree	on access. Avoidance was here will be no impacts to l	not UNT
		ination with INDOT EWPO on WP) and an IDEM Section 40 rmit.					
	excavation	V responded on August 9, n, and erosion control stand ental Commitments section of	ards (Appendix C	, pages 11 to 15). A			
	On	pen Water Feature(s)		<u>Prese</u>	<u>ence</u> <u>Impa</u> Yes	<u>cts</u> No	
	- 1	Reservoirs					
		Lakes					
		Farm Ponds					
		Retention/Detention Basin Storm Water Management Fa	acilities				
		Other:					
te	emporary) w	open water feature(s) identifie vill occur to the features identi ize, and mitigate if impacts wi	fied. Include if feat				d
	within the	the desktop review, the aeria 0.5-mile search radius. There n May 10, and August 9, 2023	are no open water				
	•	water features are not within d. Therefore, no impacts are e	•	project area. No direc	ct or indirect impacts	to the open water features	are
	anticipated						
	anticipated	a. Therefore, no impuets are c					
	anticipated	a. Therefore, no impacts are c					
	аппстрацес	a. Therefore, the impacts are c					
	аппстранес	a. Therefore, the impacts are c					

County	Hamilton, Madison, and Tipton	R0	oute SR 13 at SF	R 128	Des. No. 2003081
We	etlands			<u>Presenc</u>	Yes No
Total wetla	and area:	0.17	_ Acre(s) Total w	etland area impacte	0.15 permanent/ ed: 0 temporary Acre(s)
(If a deterr	mination has not been m	ade for non-isola	ted/isolated wetlands	s, fill in the total wetla	and area impacted above.)
Wetland	No. Classification	Total Size (Acres)	Impacted Acres	reference)	ocation, Water of the US, appendix
1	PEM	0.02	0	North side of SR jurisdictional (App	128, east of SR 13, non- pendix F)
2	PEM	0.12	0.12 permanent / 0 temporary		ant of SR 13 and SR 128, non-
3	PEM	0.03	0.03 permanent / 0 temporary		ant of SR 13 and SR 128, non-
W	etlands (Mark all that ap	nnlv)	<u>Documenta</u>	<u>ition</u>	ESD Approval Dates
vv	Wetland Determination Wetland Delineation USACE Isolated Waters		X		November 29, 2023
wo Describe all v vill occur to t	Substantial adverse in Substantial adverse in Substantially increase Unique engineering, tr Substantial adverse so The project not meetin wetlands identified adjact	hat apply and expanders to adjacend project costs; affic, maintenance ocial, economic, on the identified nent or within the proclude if features	olain): It homes, business or Ite, or safety problems Ite environmental impreeds. Include	r other improved pro s; acts, or whether or not impa	ecause such avoidance sperties;  X  acts (both permanent and temporary) n. Discuss measures to avoid,
0.5-mile so					dix E), there are eight wetlands within the ch was confirmed by the site visit on May
refer to Ap jurisdiction determina	ppendix F, page 1 for the nal wetlands are located	e <i>Water</i> s of the U	J.S. Determination/Westigated area and v	etland Delineation F will be impacted by	EWPSO on November 29, 2023. Please Report. It was determined that three likely the project. An approved jurisdictional Wetlands 1, 2, and 3 are non-jurisdictional
	is an approximately 0.02 ast side of SR 13. Hydrol				that is located on the north side of SR 128 n.
	is an approximately 0.12 lydrology within Wetland				quadrant of the intersection of SR 13 and
	is an approximately 0.03 lydrology within Wetland				quadrant of the intersection of SR 13 and
					to roadway installation, stormwater pipes, orary impacts to wetlands. Avoidance was

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	icable, as project limits have been o Disturb" on the project plans.	constrained to	the smallest pos	ssible to complete t	he project.	Wetland 1 v	vill be marked as
	dination with INDOT EWPO on May uality Certification (WQC) NWP 33			104 Nationwide Pe	rmit (NWP)	and an IDEI	M Section 401
	W responded on August 9, 2023, was able recommendations are included						pages 11 to 15).
				Presence	Impac		
Т	errestrial Habitat			X	Yes	No	
Total terr	estrial habitat in project area:	1.76	Acre(s)	Total tree clearing	ng:	0.96	Acre(s)
or not impac	oes of terrestrial habitat (i.e. foreste cts will occur to habitat identified. It avoid, minimize, and mitigate if imp	nclude total te	rrestrial habitat i				
page 1), dominant Canary G lane rour condition trees to b Avoidanc project. M The IDNF and erosi	n a desktop review, a site visit on Mathere are forested tracts, agricultude to species include false Japanese Marass ( <i>Phalaris arundinacea</i> ). Apprendabout. Disturbed areas will be use. An estimated 0.96 acre of trees be removed include black walnut (Lea alternatives would not be practical Mitigation is not anticipated.  R-DFW responded on August 9, 20 ion control (Appendix C, pages 11 fthis CE document.	ral fields, shrudoneysuckle ( boximately 1.76 re-seeded poswill be remove fuglans nigra) at as the project	ubs, and trees, to (Lonicera japonio) acre of terrestrict-construction to ed from the north, sugar maple (Act limits have been tree removal date	rpical of a rural seca), Canada Golde al habitat will be di to return the site a neast quadrant of the licer saccharum), a en constrained to the tes, tree removal w	etting, surrouserrod (Solid sturbed due s close as ne intersecti nd Eastern ne smallest a	anding the p lago canade to construct possible to on. The don redbud (Ce area possible	roject area. The ensis), and Reed tion of the single pre-construction ninate species of rcis canadensis). The to complete the ay, revegetation,
F	rotected Species ederally Listed Bats Information for Planning and Con Section 7 informal consultation co Section 7 formal consultation Bio etermination Received for Listed B	ompleted (IPa logical Assess	C cannot be com sment (BA) requi	ppleted) red	Yes X	] ]	No
	ther Species not included in IPa Additional federal species found i State species (not bird) found in p	<b>C</b> n project area	(based on IPaC	species list)	Yes		No X
M	ligratory Birds Known usage or presence of bird State bird species based upon co		h IDNR		Yes		No X X
	IR coordination and species identifithern long-eared bat impacts. Disc						
This is	nage 13 of 27 Project name:	SD 13 Intere	section Improven	nent	Date:	Decembe	ar 20 2024

		ındıana Depai	tment of Trans	portation		
County	Hamilton, Madison, and Tipton	Route	SR 13 at SR 128	Des. No.	2003081	
occurred and	I the determination that wa	s received. Discuss it	f migratory birds have	been observed and any	impacts.	
Tipton Co coordination checked a of the proj is not antion	a desktop review and the unty Endangered, Threaton response letter dated And the Little Spectaclecase ect site. Because work is not cipated as a result of this tof sediment into nearby wat review occurred on March	ened and Rare (ETI ugust 9, 2023 (Apper e ( <i>Villosa lienosa</i> ), a S not proposed in or nea project so long as ap vaterways (Appendix	R) Species List has ladix C, pages 11 to 15 pecies of Special Concar Duck Creek, signific propriate erosion and C, page 11). No further	peen checked. Accord to the Natural Heritage P pern in Indiana, has been ant or detrimental impact sediment control measu er coordination is require	ing to the IDNR-DFW e rogram's Database has be documented within 0.5 m ts to the Little Spectaclecures are in place to minin d for this species. An IND	early een niles ase nize OOT
list was ge	ormation was submitted thr enerated (Appendix C, pag- nal listed species were ger	es 27 to 38). The pro	ject is within range of t	he federally endangered		
dated May (FTA), and project wat INDOT reverseeived for tree remove	ct qualifies for the <i>Rangew</i> 2016 (revised February 2 d USFWS. An effect deterns found to "May Affect – I viewed and verified the efferom USFWS within the 14-wal, and lighting Avoidance and as firm commitments in	018), between the Fh mination key was co Not Likely to Adverse ect finding on Octobe day review period; the e and Minimization M	HWA, Federal Railroad impleted on October 3 ely Affect" the Indiana r 31, 2024, and reques erefore, it was conclude easures (AMMs) are a	Administration (FRA), F 81, 2024, and based on bat and/or the NLEB (A ted USFWS's review of ed they concur with the applicable to this project	ederal Transit Administra the responses provided, ppendix C, pages 39 to the finding. No response inding. General construct	the 53). was tion,
any structor August 9, presence of bats or	nspection occurred on Augure (Appendix C, page 54). 2025, an inspection of the of bats/bat indicators and/obirds are documented durenmitment is included in the	USFWS Bridge/Structure by a qualified or presence of birds. ing this inspection, the	cture Assessments are ed individual must be p The results of the insp ne INDOT District Env	only valid for two years. erformed. Inspection of t ection must indicate no s ironmental Manager mu	If construction will begin a he structure should check signs of bats or birds. If si	after k for igns
protected birds or s implement during the eggs or you be screen	CLV-013-048-20.9 (CLV-4 under the Migratory Bird Trigns of birds. If birds or sted prior to the start of and non-nesting season (Septoung cannot be removed oved or buffered from active Recurring Special Provision	reaty Act (MBTA). Pri igns of birds are fou during the nesting se tember 8 – April 30) r disturbed during the construction. Detail	or to the start of nestir and during the inspect eason. Nests without e and during the nesting e nesting season (May	ng season (May 1) the st tion avoidance and min ggs or young should be g season if no eggs or yo y 1 – September 7). Nes	ructure must be inspected mization measures must removed prior to construction are present. Nests to with eggs or young sho	d for t be tion with ould
amended.	udes the need for further If new information on end for consultation.					
	Project located within the Project located within the Karst features identified w Oil/gas or exploration/aba	Potential Karst Featu ithin or adjacent to th ndoned wells identifie	e project area	Yes	No X X X	
Da	te Karst Study/Report revi	ewed by INDOT EWF	PO (if applicable):			
area (from R	pject is located in Potential FI). Discuss response rece ed and if impacts will occur.	eived from IGWS coo	rdination. Discuss if a	ny mines, oil/gas, or exp	loration/abandoned wells	
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County	Hamilton, Madison, and Tipton	Route	SR 13 at SR 128	Des. No.	2003081
study/report by INDOT E	was completed and results. WPO)	(Karst investigation	must comply with the	e current Karst MOU and	coordinated and reviewed
outlined in the project project ar (Appendix bedrock in identified the project	n the most current <i>Protection</i> that area (Appendix B, page 1) ea. In the early coordination of C, pages 3 to 4). IGWS dictesource, low potential sandfour petroleum wells located	n of Karst Features of and the RFI report response on July 10 I indicate moderate lid and gravel resourd within 0.5 mile of the	furing Project Develop (Appendix E), there a , 2023, the IGWS did quefaction potential, ce, and active or abo project area (Append	oment and Construction. re no karst features iden not indicate that karst feature one percent annual chan andoned petroleum expl lix E, page 3). The feature	ated Indiana Karst Region as According to the topo map of tified within or adjacent to the atures exist in the project area ce flood hazard, high potential oration wells. The RFI report as will not be affected because h the designer on October 8,
SECTIO	N C – OTHER RESOUR	CES			
Di	rinking Water Resources Wellhead Protection Area(s Source Water Protection A Water Well(s) Urbanized Area Boundary Public Water System(s)	•	<u>Pre</u>	sence Im Yes X	No X
Check the a	the project located in the St If Yes, is the FHWA/EPA S If Yes, is a Groundwater As oppropriate boxes and discus	SA MOU Applicable ssessment Required as each topic below.	? ? Provide details abou		No X e resource-specific
coordination	responses and any mitigation	on commitments. Re	eference responses in	the Appendix.	
Aquifer, the Memoran impacts and In an earlies located 9 to 10). response The IDNF KEG. No Based or (https://inc	ne only legally designated so dum of Understanding (MO are expected.  y coordination letter dated J within a Source Water Asse A subsequent early coording from Citizens Water – India Water Well Record Databate wells are located near this para desktop review of the	ole source aquifer in to U) is not applicable uly 25, 2023, IDEM sessment area for a Punation letter was senapolis was not recease website (https://woroject. Therefore, not indicate the i	the state of Indiana. To this project, a detectated the project is not blic Water Supply Synt to the PWSS, Citizived within the 30 days www.in.gov/dnr/water or impacts are expected ventory and Functio	Therefore, the FHWA/EP ailed groundwater assess to located within a wellhestem (PWSS) surface waters Water – Indianapoly timeframe. No impacts (3595.htm) was accessed.	of the St. Joseph Sole Source A/INDOT Sole Source Aquifer sment is not needed, and no ead area; however, the project ster intake (Appendix C, pages is on November 10, 2023. A are expected.  Ed on November 10, 2023, by EEG on November 10, 2023, by this project is not located
Based on		it on May 10, and Au			the project area (Appendix B,

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lf ap	Project located within a regular Longitudinal encroachment Transverse encroachment Homes located in floodplain was pplicable, indicate the Floodplate evel 1 Level 2	rithin 1000' up/dow		X	
according to	R Floodway Information Portal the classification system. If er n to insure consistency with the	croachment on a f	lood plain will occur, o		
KEG on N floodplain The Flood CE Manua will have a be no sub	a desktop review of The IDNR lovember 20, 2023, and the RI maps (Appendix F, page 18). Iplain Administrator did not respal, which states, one homestean effective capacity such that lostantial adverse impacts on nabe no substantial increase in pit has been determined that the	FI report, this proje An early coordinat cond within the 30- d is located within cackwater surface atural and benefician otential for interrup	ct is located in a regu- ion letter was sent or day time frame. This the base floodplain welevations are not expal floodplain values; the	platory floodplain as det July 10, 2023, to the lo project qualifies as Cate ithin 1,000 feet downstro pected to substantially in here will be no substan	ermined from approved IDNR ocal Floodplain Administrator. egory 4 per the current INDOT ream. The proposed structure ncrease. As a result, there will tial change in flood risks; and
				_	
Fa	<b>irmland</b> Agricultural Lands Prime Farmland (per NRCS)			Presence X X	Yes No X X
	Agricultural Lands	of CPA-106/AD-100	06*) Hamilton County (114)/Tipton County (111)/Madiso	<b>X X</b>	Yes No X
	Agricultural Lands Prime Farmland (per NRCS)		06*) Hamilton County (114)/Tipton County	<b>X X</b>	Yes No X
*I1	Agricultural Lands Prime Farmland (per NRCS) Total Points (from Section VII o	r guidance.	06*) Hamilton County (114)/Tipton County (111)/Madiso County (129)	X X	Yes No X X X
Discuss exis considered.  Based on project will letter was scores of NRCS's the score is letter was score in letter was score	Agricultural Lands Prime Farmland (per NRCS)  Total Points (from Section VII of 160 or greater, see CE Manual for 160 or greater)	or guidance.  oroject area, impaction May 10, 2023, d in Madison Cour Natural Resource ipton County), and impacts to farmlanticant loss of prime	D6*) Hamilton County (114)/Tipton County (111)/Madiso County (129)  ets that will occur to factors by KEG, and the aering as defined by the Fis Conservation Servi 129 (Madison County of that result in the conty of the property of the prop	x x x x x x x x x x x x x x x x x x x	rea (Appendix B, page 1) the licy Act. An early coordination with the NRCS resulted in its (Appendix C, pages 6 to 8). Wes is 160. Since this project and will result from this project.
Discuss exis considered.  Based on project will letter was scores of NRCS's the score is letter the notation of the score is letter the notation.	Agricultural Lands Prime Farmland (per NRCS) Total Points (from Section VII of 160 or greater, see CE Manual for ting farmland resources in the great a desktop review, a site visit of 160 convert 0.72 acres of farmland sent on July 10, 2023, to the 114 (Hamilton County), 111 (Threshold score for significant itess than the threshold, no significant items.	or guidance.  oroject area, impaction May 10, 2023, d in Madison Cour Natural Resource ipton County), and impacts to farmlanticant loss of prime	D6*) Hamilton County (114)/Tipton County (111)/Madiso County (129)  ets that will occur to factors by KEG, and the aering as defined by the Fis Conservation Servi 129 (Madison County of that result in the conty of the property of the prop	x x x x x x x x x x x x x x x x x x x	rea (Appendix B, page 1) the licy Act. An early coordination with the NRCS resulted in its (Appendix C, pages 6 to 8). Wes is 160. Since this project and will result from this project.

County	Hamilton, Madison, and Tipton	Route	SR 13 at SR 128	Des. No.	2003081
SECTIO	N D – CULTURAL RESOURC	ES			
Mi	Category inor Projects PA	(ies) and Type	e(s)	INDOT Approva	I Date(s) N/A
Full	I 106 Effect Finding No Historic Properties Affected	X No	o Adverse Effect	Adverse Effect	
Elig	gible and/or Listed Resources P NRHP Building/Site/District(s)		rchaeology X	NRHP Bridge(	s)
, 8 1 1 1 1	cumentation Prepared (mark all APE, Eligibility and Effect Determi 800.11 Documentation Historic Properties Report or Shor Archaeological Records Check an Archaeological Phase Ia Survey Rachaeological Phase Ic Survey Rother:	nation t Report d Assessment	X Approving April 28, 2022 X July 23, 2022 X January 3, 20 X June 3, 2024	May 3 Augus 924 Febru	D Approval Date(s) 50, 2023 (ECL/APE) 5t 19, 2024 ary 1, 2024 , 2024
Ŋ	Memorandum of Agreement (MOA	A)	MOA Signat	ture Dates (List all s	signatories)
full Section 1 local newspa	t falls under the MPPA, describe th 106, use the headings provided. T apers. Please indicate the publicat work which must be completed at	he completion tion date, name	of the Section 106 proces o of the paper(s) and the c	s requires that a Leg omment period dead	nal Notice be published in Idline. Include any further
federal proce	06 of the National Historic Preservojects, programs, and actions on ess was managed by Michael Bogy's Roster of Qualified Profession	historic resourd aker Internatio	ces. This includes projects	that are supported I	by federal funds. The Section
	Potential Effects (APE): Pursuant thin view of the project (Appendix 1).				
and indivi-	ation with Consulting Parties: Enduals to become consulting partie R Division of Historic Preservation become a consulting party (those	es (Appendix D (DHPA) is a de	), pages 18 to 20). The Insignated consulting party.	diana State Historic The following is a lis	Preservation Officer (SHPO)
• E	Beth McCord, State Historic Pre Darlene Likens, Commissioner, Ma John Richwine, Commissioner, Ma Dlivia Pratt, Commissioner, Madis Fracey Powell, Commissioner, Tip Dennis Henderson, Commissioner Nancy Cline, Commissioner, Tipto Mark Heirbrandt, Commissioner, H Christine Altman, Commissioner, H Steve Dillinger, Commissioner, Ha	adison County adison County on County ton County r, Tipton County n County damilton Count	y y	g party)	

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County Hamilton, Madison, Route SR 13 at SR 128 Des. No. 2003081

and Tipton

- Jerrold Bridges, Regional Director, Madison County Council of Governments (MCCOG)
- Dave Benefiel, ACIP, Principal Transportation Planner, Anderson MPO
- Brittany Miller, Eastern Regional Office, Director, Indiana Landmarks
- Alex Brooks, Community Preservation Specialist, Indiana Landmarks
- Stephen T. Jackson, Madison County Historian
- David Heighway, Hamilton County Historian
- Richard E. Kreeger, President, Madison County Historical Society
- Tipon County Historical Society
- Hamilton County Historical Society
- Scott Harless, Highway Superintendent, Madison County
- Bret Morris, Highway Superintendent, Tipton County
- Bradley Davis, Highway Director, Hamilton County
- Absentee Shawnee Tribe of Oklahoma
- Delaware Nation of Oklahoma
- Delaware Tribe of Indians
- Eastern Shawnee Tribe of Oklahoma
- Miami Tribe of Oklahoma
- Peoria Tribe of Indians of Oklahoma
- Pokagon Band of Potawatomi Indians
- Shawnee Tribe

The following is a summary of the comments of the consulting parties following the distribution of the early coordination materials:

- May 1, 2023: An email from Brittany Miller, Indiana Landmarks Eastern Regional Office Director, accepting the invite for consultation, and included individuals who represent Hamilton and Tipton Counties (Appendix D, page 21).
- May 1, 2023: An email from Alex Brooks, Indiana Landmarks Community Preservation Specialist, accepting the invite for consultation (Appendix D, page 22).
- May 5, 2023: An email from the Tribal Historic Preservation Officer (THPO) of the Miami Tribe of Oklahoma stating no objection to the project, as the tribe is not currently aware of existing documentation directly linking a specific Miami cultural or historic site to the project site. However, given the Miami Tribe's deep and enduring relationship to its historic lands and cultural property within present-day Indiana, if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Ace (NAGPRA) or archaeological evidence is discovered during any phase of the project, the Miami Tribe requests immediate consultation with the entity of jurisdiction for the location of the discovery (Appendix D, page 23).
- May 30, 2023: An email from the Historic Preservation Director of the Delaware Nation of Oklahoma was received accepting the invitation for consultation regarding the project. The Preservation Director indicated the location of the project does not endanger any known cultural or religious sites of interest to the Delaware Nation; however, there is always the potential for discovery of archaeological resources. The Preservation Director also requested that ground disturbing activities and construction be halted if human remains or any Native American archaeological resources inadvertently be uncovered and notify appropriate state agencies and Delaware nation within 24 hours (Appendix D page 24).
- May 30, 2023: A letter from SHPO stated that they were unaware of any additional consulting parties that should be invited
  to participate in the Section 106 process beyond those who already invited. If ROW is to be taken from a potentially historic
  property, owners of the property should be invited as soon as possible (Appendix D, pages 25 to 26).
- June 7, 2023: An email from the THPO of the Shawnee Tribe accepting the invitation for consultation and stated there are no issues or concerns at this time. The THPO added that in the event archaeological materials are encountered during construction, use, or maintenance of this location, that the THPO be notified (Appendix D, page 27).
- June 16, 2023: An email from the THPO of the Eastern Shawnee Tribe of Oklahoma stating the project proposes no adverse effect or endangerment to known sites of interest to the Eastern Shawnee Tribe. THPO added, though should this project inadvertently discover an archaeological site or object(s), that the Eastern Shawnee Tribe and appropriate state agencies be contacted within 24 hours (Appendix D, page 28.

**Historic Properties:** Micheal Baker International (MBI) prepared a *Historic Property Short Report (HPSR)* (January 3, 2024), that determined there are no properties listed in the NRHP, and no resources were recommended eligible for listing in the NRHP for the purpose of this project (Appendix D, pages 54 to 55).

On January 5, 2024, the Historic Property Short Report (HPSR) was made available to the consulting parties via INDOT's online document portal INSCOPE. The following is a summary of the comments following the distribution of the HPSR:

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		= ори			
County	Hamilton, Madison, and Tipton	Route	SR 13 at SR 128	Des. No.	2003081
•	geographic area in which di with the conclusions of the H	rect and indirect effe IPSR that there are thin the APE, and the	ects of a project of this r no previously recorded N	nature should occur. Ac National Register of His	quate size to encompass the dditionally, the SHPO agreed storic Places (NRHP) listed or ed within he APE for inclusion
•	again that the project propos	ses no adverse effect I this project inadver	ct or endangerment to kn tently discover an archae	lown sites of interest to eological site or object(	esponse to the HPSR, stating the Eastern Shawnee Tribe. s), that the Eastern Shawnee
June 4, 12M088 was four and was	2024. An <i>Archaeology Phase</i> 0, through subsurface samplind to lack information potentia	e <i>Ia Reconnaissance</i> ng, consisting of a si I and, therefore, is u	e Report (AR) was prepa ngle, isolated, pre-Conta nlikely to yield informatio	ared, which identified o act lithic flake (Appendi n important to the interp	naissance on June 1 through ne new archaeological site – x D, pages 56 to 58). The site pretation of Indiana prehistory archeological investigations
AR with produce the SHP	concurrence of the finding the additional important information	nat further archaeolo tion and no further w ny prehistoric or arc	ogical investigation of sit vork in these areas is wa haeological artifacts or h	e 12M0880 surveyed arranted (Appendix D, p numan remains are un	the SHPO responded to the for the project are unlikely to pages 36 to 37). Additionally, covered during construction, DNR-DHPA.
	lix D, pages 1 to 2). SHPO co tts were				ed" finding on July 18, 2024 9). No other consulting party
FHWA's soliciting following	finding of "No Historic Prope public input on FHWA's Sec	erties Affected". A le tion 106 effect findir	egal advertisement was ng on August 1, 2024. Co	placed in the <u>Indianap</u> omments from the publ	an opportunity to comment of olis Star, a local publication, ic were accepted for 30 days notice, affidavit of publication
This con	npletes the Section 106 proce	ess and the responsi	bilities of the FHWA und	ler Section 106 have b	een fulfilled.
SECTIO	ON E – SECTION 4(f) RES	SOURCES/ SECT	ON 6(f) RESOURCES	 S	
	()		- (,		
Public Public Other Wildlife Natio Natio State State	nd Other Recreational Land cly owned park cly owned recreation area r (school, state/national forest and Waterfowl Refuges nal Wildlife Refuge nal Natural Landmark Wildlife Area Nature Preserve Properties	·	Yes  X	No X	

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Evaluations Prepared

Site eligible and/or listed on the NRHP

Programmatic Section 4(f)

County	Hamilton, Madison, and Tipton	Route	SR 13 at SR 12	B Des	s. No.	2003081	
Individu Any ex Discuss Prog	nimis" Impact ual Section 4(f) ception included in 23 CFR 774 grammatic Section 4(f) and "de inded in the appendix and summ	minimis" Section 4					
	dentified various exceptions to the						
funded tra recreation	(f) of the U.S. Department of Transportation facilities unless ther areas, wildlife/waterfowl refuge to considered Section 4(f) resource.	re is no feasible a es, and NRHP elig	nd prudent alterna	ative. The law applie	es to sig	nificant publicly owned pa	rks,
potential 4 August 9, within the letter was will not us	a desktop review, the aerial mate(f) resource located within the 0 2023, by KEG, there is one Secproject area. Publicly owned recisent to the Hamilton County Place this resource by taking permateatures, or attributes that qualicected.	0.5 mile search ra ction 4(f) resource reational trails are anning Commissi anent right of wa	dius. According to located within or e subject to Section ion. A response way and will not indi	o additional research adjacent to the proje n 4(f) applicability. O as not received with rectly use the resou	n and by ect area n July 10 in the 3 irce in s	the site visit on May 10, a. One trail segment is loca 0, 2023, an early coordina 0-day timeframe. The prouch a way that the protect	and ited tion ject cted
						••	
56	ction 6(f) Involvement			<u>Presence</u>		Yes No	
Se	ection 6(f) Property						
will occur, dis	tion 6(f) resources present or no scuss the conversion approval.	•	-				
created to	Land and Water Conservation preserve, develop, and assure urchased with LWCF monies to	accessibility to ou	ıtdoor recreation r				
County, a	of 6(f) properties on the INDOT nd two properties in Tipton Cou t area. Therefore, there will be	nty (Appendix I, p	pages 14 to 16). I				
SECTION	N F – Air Quality						
ls : ls : ls :	TIP/TIP and Conformity Status the project in the most current S the project located in an MPO A the project in an air quality non- Yes, then: Is the project in the most currer Is the project exempt from conf If No, then: Is the project in the Transport Is a hot spot analysis requir	STIP/TIP? Area? attainment or ma nt MPO TIP? formity? ortation Plan (TP)		Yes No X X X X			
	io a not oper analysis requir	53 (55/1 W):	F	Y 2024-2028,	_		
Lo	cation in STIP:		<u></u>	nitial, September 1, 2		No commonts	
Na	ame of MPO (if applicable):			Madison County Cou MCCOG)	ncii of G	overnments	
This is p	page 20 of 27 Project name:	SR 13, Interse	ection Improveme	nt	_ Date:	December 20, 2024	

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County	and Tipton	adison,	Route	SR 13 at SR	128 	Des. No.	2003081	
Lo	ocation in TIP (i	if applicable):			MCCOG TIP FY	2022-2026		
Le	evel of MSAT A	nalysis required?						
	evel 1a	Level 1b	Level 2	Level 3	Level 4	Level 5		
ocated. Indi	icate whether th		t from a confor	mity determinat	tion. If the project is		es) where the project is include information about	
Improven Statewide documen on the lea	nent Program ( Transportation t. The rural port ad DES numbe	TIP) through Resol n Improvement Pro tion of the Fiscal Ye	lution 17 (Appe ogram (STIP) b ear (FY) 2024-2 he lead DES n	endix H, page 5 by Amendment 2028 Statewide umber for this o	), which will be dir 24-MPO32. This v Transportation Imp	ectly incorpor vill be update provement Pr	ts (MCCOG) Transportation rated into the FY 2024-2028 of in the final environmental ogram (STIP) is listed base 24-2028 STIP includes DE	8 al d
the 1997 South Co as being	Ozone 8-Hour ast Air Quality exempt from ai	Standard, which wa Management Distri	as revoked in 2 ct V. Environm accordance w	015 but is being ental Protection ith 40 CFR Part	g evaluated for cor n Agency, Et. Al. Do t 93.126 and this p	nformity due to ecision. This project is not a	ntly a maintenance area for the February 16, 2018, project has been identified project of air quality	•
		y in attainment for a significant impact o		tants. Therefore	e, the conformity pr	ocedures of 4	10 CFR Part 93 do not apply	/.
		qualifying as a cate CFR 93.126, and a					empt under the Clean Air A	t
								_
SECTIO	N G - NOISE							
N	oise						Yes No	
ls	a noise analys	is required in accor	rdance with FH	WA regulations	and INDOT's traff	ic noise polic	y? X	
D	ate Noise Analy	ysis was approved/	technically suff	icient by INDO	ΓESD:			
							to date and if noise impacts le a statement of likelihood.	
	ect is a Type III e a formal nois		ance with 23 Cl	FR 772 and the	INDOT Traffic No	ise Analysis I	Procedure, this action does	
SECTIO	N H – COMM	UNITY IMPACTS	<u> </u>					
W W	fill the proposed fill the proposed	nunity & Neighbord action comply with discription result in suit action result action result in suit action re	h the local/regionstantial impac	onal developme ets to communit	y cohesion?		Yes No X X X X	
This is	page 21 of 27	Project name:	SR 13, Inters	ection Improve	ment	Date:	December 20, 2024	

County	Hamilton, Madison, and Tipton	Route	SR 13 at SR 128	Des. No.	2003081	
Do	Il construction activities impares the community have an application of the street of the street of the street of the project comply with the street of th	oproved transition potential to advance the co	olan? mmunity's transition plan?		X	X

Discuss how the project complies with the area's local/regional development patterns; whether the project will impact community cohesion; and impact community events. Discuss how the project conforms with the ADA Transition Plan.

The Hamilton County 2020 Comprehensive Plan (<a href="https://www.hamiltoncounty.in.gov/593/Comprehensive-Plan">https://www.hamiltoncounty.in.gov/593/Comprehensive-Plan</a>), the Madison County 2035 Comprehensive Plan (<a href="https://www.madisoncounty.in.gov/files/ugd/33570c">https://www.madisoncounty.in.gov/files/ugd/33570c</a> daf99c6ff7ee4096a4ef0f33c643fa3a.pdf), and the 2013 Comprehensive Plan for Tipton County (<a href="https://www.tiptongov.com/egov/documents/1448920787">https://www.tiptongov.com/egov/documents/1448920787</a> 67444.pdf) were reviewed by KEG on November 21, 2023. The Plans have adopted a strategy to assist with ensuring the built environment contributes to the safety of the community. The project is not anticipated to negatively affect community cohesion, the local tax base, or property values, since transportation within the community and connectivity to community resources will not be permanently affected.

On October 8, 2024, KEG reviewed <a href="www.indianafestivals.org">www.indianafestivals.org</a> for any special events or festivals in Hamilton County, Madison County, and Tipton County during the construction season (April – October). Nineteen special events or festivals were noted for Hamilton County, twelve special events or festivals were noted for Madison County, and two were noted for Tipton County that occurred in 2024 between April and October that may occur again in 2026. If these events are held during the proposed construction activities, the commute times to events may be impacted causing a short-term impact. Announcements regarding construction activities will be published on the INDOT social media pages and coordination with the community will occur to minimize disruption to the extent possible.

SR 13 will close for approximately 2-3 months. Delays shall occur during construction but will cease with project completion. Temporary community and economic impacts will occur due to increased travel time and expense; therefore, no long-term negative impacts to the community or its economy are expected.

In April 2022, Hamilton County adopted the 2010 ADA Standards for Accessible Design <a href="https://www.hamiltoncounty.in.gov/804/ADA-Transition-Plan-2022">https://www.hamiltoncounty.in.gov/804/ADA-Transition-Plan-2022</a>. The Hamilton County ADA Self-Evaluation and Transition Plan includes Title II ADA and Title VI assurances with INDOT and FHWA standards.

In April 2013, the Madison County Council of Governments adopted the 2010 ADA Standards for Accessible Design for the City of Elwood (nearest to the project site) <a href="https://www.heartlandmpo.org/ADATitleVI">https://www.heartlandmpo.org/ADATitleVI</a>. The City of Elwood ADA Transition Plan includes Title II ADA and Title VI assurances with INDOT and FHWA standards.

In September 2022, Tipton County adopted the 2010 ADA Standards for Accessible Design <a href="https://www.tiptongov.com/county/department/index.php?structureid=164">https://www.tiptongov.com/county/department/index.php?structureid=164</a>. The Tipton ADA Transition Plan for Public Facilities is currently in draft and includes Title II ADA and Title VI assurances with INDOT and FHWA standards.

There is no existing ADA infrastructure within the project limits and no ADA infrastructure will be incorporated into the project.

#### **Public Facilities and Services**

Discuss what public facilities and services are present in the project area and impacts (such as MOT) that will occur to them. Include how the impacts have been minimized and what coordination has occurred. Some examples of public facilities and services include health facilities, educational facilities, public and private utilities, emergency services, religious institutions, airports, transportation or public pedestrian and bicycle facilities.

Based on a desktop review, the aerial map of the project area (Appendix B, page 1), and the RFI report (Appendix E) there is one public facility within the 0.5-mile search radius. There is one trail segment within or adjacent to the project area. No trail segment was observed during the site visit on May 10, and August 9, 2023, by KEG. Coordination with Hamilton County Planning Commission occurred on July 10, 2023. No response was received. Therefore, no impacts are expected. Access to all properties will be maintained during construction.

Although not located within the 0.5-mile search radius, a public use airport, Elwood Airport, is located within 3.8 miles (20,000 feet) of the project area. An early coordination response from INDOT Aviation was received on July 11, 2023, stating that no tall structure

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County	Hamilton, Madiso and Tipton	n, Rou	ute	SR 13 at SR 128		es. No.	2003081	
permit is r	required for the proje	ect as long as all equipr	nent b	eing used is under 200 fe	eet in heigl	ht (Append	lix C, page	16).
				e project. No responses vices at least two weeks				
access.								
Er	wironmontal lustic	ce (EJ) (Presidential E0	<b>128</b> 0	38)			Yes	No
		nt of the project were E					163	X
Do	oes the project requi						X	
If `	YES, then:							
		lations located within the esult in adversely high		ject area? sproportionate impacts to	EJ popula	ations?	X	X
Indicate if EJ	l issues were identifi	ied during project devel	lopme	nt. If an EJ analysis was	not requir	ed, discuss	s why. If an	EJ analysis
was required	l, describe how the E	EJ population was iden	tified.	Include if the project has	a disprop	ortionately	high and a	
on EJ popula	ations and explain yo	our reasoning. It yes, de	escrib	e actions to avoid, minimi	ize and mi	tigate these	e effects.	
Under FH	WA Order 6640.23A	A, FHWA and the proje	ct spo	nsor, as a recipient of fu	nding from	FHWA, aı	re responsi	ble to ensure that
their progr	rams, policies, and a	ctivities do not have a	dispro	portionately high and adv	erse effect	on minorit	y or low-inc	ome populations.
				EJ Analysis is required for Juire 3.26 acres of perma				
	•			•				
				I low-income populations				
				be disproportionately hi community of compariso				
				nity that overlaps the proj				
this project	ct, the AC-1 is Cens	sus Tract 1101.02, Han	nilton	County, the AC-2 is Cen	sus Tract	104, Madis	son County	, and the AC-3 is
				of concern for EJ if the po				
				COC. Data from the 20 ovember 21, 2023, by KE				
		summarized in the belo			.o. me da	ita conecte		y and low-income
Table: Mir	nority and Low-Incor	ne Data (2021: US Cer	isus B	ureau, ACS 5-Year Estin	nates)			
Table: Will	ionly and Low moor	COC – Hamilton		C-1 – Census Tract 1101				
		County		Hamilton County				
	Minority	18		8				
125% of		22		AC < 125% COC				
	ulation of Concern	4		<u>No</u> 1				
125% of	Low-Income	<u>4</u> 5		AC < 125% COC				
	ulation of Concern	3		No				
Table: Mir	nority and Low-Incor		isus B	ureau, ACS 5-Year Estin				
		COC – Madison		AC-2 – Census Tract 10	)4,			
Doroont	Minority	County 16		Madison County 5				
125% of		20		AC < 125% COC				
	ulation of Concern	20		No				
	Low-Income	15		7				
125% of		19		AC < 125% COC				
EJ Popu	ulation of Concern			No	-			
Table: Mir	nority and Low-Incor	ne Data (2021: US Cer	nsus B	sureau, ACS 5-Year Estin	nates)			
		COC – Tipton		AC-3 – Census Tract 20				
		County		Tipton County				
Percent	Minority	5		10				

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County	Hamilton, Madison,	Route	SR 13 at SR 128	Des. No.	2003081
	and Tipton				

125% of COC	7	AC > 125% COC
EJ Population of Concern		Yes
Percent Low-Income	11	14
125% of COC	13	AC > 125% COC
EJ Population of Concern		Yes

- AC-1, Census Tract 1101.02, Hamilton County has a percent minority of 8% which is below 50% and is below the 125% COC threshold. Therefore, AC-1 does not contain a minority population of EJ concern.
- AC-1, Census Tract 1101.02, Hamilton County has a percent low-income of 1% which is below 50% and is below the 125% COC threshold. Therefore, AC-1 does not contain a low-income population of EJ concern.
- AC-2, Census Tract 104, Madison County has a percent minority of 5% which is below 50% and is below the 125% COC threshold. Therefore, AC-2 does not contain a minority population of EJ concern.
- AC-2, Census Tract 104, Madison County has a percent low-income of 7% which is below 50% and is below the 125% COC threshold. Therefore, AC-2 does not contain a low-income population of EJ concern.
- AC-3 Census Tract 201, Tipton County has a percent minority of 10% which is below 50% but is above the 125% COC threshold. Therefore, AC-3 has a minority population of EJ concern.
- AC-3 Census Tract 201, Tipton County has a percent low-income of 14%, which is below 50% but is above the 125% COC threshold. Therefore, AC-3 has a low-income population of EJ concern.

The identified EJ populations in Tipton County will benefit from the project by having an improved intersection at the project location. Overall, the negative impacts to the identified EJ population of concern will consist of short-term construction impacts resulting from the temporary closures of SR 13 and SR 128. In relationship to the project, the nearest urbanized areas likely servicing the affected community are the City of Elwood, which is approximately four miles to the north on SR 13 and the Town of Frankton, which is approximately four miles to the east on SR 128. During the closures, which are anticipated to last for approximately one construction season and occur in phases, the affected community will be able to use the signed detour via SR 13, SR 28, SR 9, SR 213, and SR 37 to navigate around the closures. Once construction is complete, access along SR 13 and SR 128 at this location will be restored.

The proposed detour of phase one will add approximately 27 miles to vehicle travel. The proposed detour of phase two will add approximately 95 total miles to vehicle travel. The proposed detour of phase three will add approximately 11 miles to vehicle travel. The availability of several local county roads, adding approximately 12 to 15 miles to vehicle travel, offers additional unofficial detours to navigate around the closure area.

The prepared EJ Analysis was sent to INDOT ESD on April 4, 2024. INDOT ESD concurred on April 26, 2024 (Appendix I, page 29). Although the project may cause a temporary adverse impact to the community, impacts have been reduced as much as possible via project design. In addition, the project's detour will be experienced by both EJ and non-EJ populations. Several unofficial detours, offering a slightly shorter route concerning vehicle miles, are also available. The positive impacts of the project will equally benefit the EJ and the non-EJ populations. Therefore, the identified population of EJ concern is not expected to experience a disproportionately high and adverse impact from the project.

The completed analysis, census data sheets, map, and calculations can be found in Appendix I, pages 17 to 28 No further environmental justice analysis is warranted.

					Yes	No
Will t	=		f people, businesses or	farms?		X
Numl	ber of relocations:	Residences:	Businesses:	Farms:	Other:	
Discuss any rel	ocations that will occ	ur due to the project. If	a BIS or CSRS is requir	red, discuss the result	s in the discuss	sion below.
This is pag	ge 24 of 27 Project	t name: SR 13, Inte	rsection Improvement	Dat	e: Decembe	er 20, 2024

County Hamilton, Madison, Route and Tipton	SR 13 at SR 128	Des. No.	2003081
No relocations of people, businesses, or farms will take	place as a result of this proje	ct.	
SECTION I – HAZARDOUS MATERIALS & REG	ULATED SUBSTANCES		
Hazardous Materials & Regulated Substance	s (Mark all that apply)	<u>Document</u>	<u>tation</u>
Red Flag Investigation (RFI)	(Mark an trial apply)	X	
Phase I Environmental Site Assessment (Phase			
Phase II Environmental Site Assessment (Phase			
Design/Specifications for Remediation required?	?		
Date RFI concurrence by INDOT SAM (if applica	able): June 8, 2023		
Include a summary of the potential hazardous madirectly adjacent to, or ones that could impact the documentation (special provisions, pay quantities commitments.	project area. Refer to curren	nt INDOT SAM guid	ance. If additional
Based on a review of GIS and available public records, their concurrence on June 8, 2023 (Appendix E). One S the GIS again on November 19, 2024 and no additiona Further investigation for hazardous material concerns of	State Cleanup Site is located values are stated in the state of the st	within 0.5 mile of the ne hazmat sites ide	e project area. KEG reviewed ntified will impact the project
<u>Part IV – Per</u>	mits and Commit	<u>ments</u>	
PERMITS CHECKLIST			
Permits (mark all that apply)	Likely Required		
Army Corps of Engineers (404/Section10 Per	mit)		
Nationwide Permit (NWP)	X		
Regional General Permit (RGP)			
Individual Permit (IP)			
Other			
IN Department of Environmental Managemen (401/Rule 5)	ιτ		
Nationwide Permit (NWP)	X		
Regional General Permit (RGP)			
Individual Permit (IP)			
Isolated Wetlands			
Rule 5	X		
Other			
IN Department of Natural Resources			
Construction in a Floodway			
Navigable Waterway Permit Other			
Other  Mitigation Required			
US Coast Guard Section 9 Bridge Permit			
Others (Please discuss in the discussion bel	ow)		
ist the permits likely required for the project and summari			

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County Hamilton, Madison, Route SR 13 at SR 128 Des. No. 2003081 and Tipton

Per coordination with INDOT EWPO on May 20, 2024, and INDOT Stormwater Specialists on June 5, 2024, a Construction Stormwater General Permit (CSGP), formerly Rule 5, is anticipated for this project due to at least 1 acre of soil disturbance. Additionally, a 401/404 NWP 14 permit is anticipated for this project. No IDNR Construction in a Floodway (CIF) permit is required because the scope of work falls under the INDOT IDNR Memorandum of Understanding (MOU).

Applicable recommendations provided by resource agencies are included in the Environmental Commitments section of this document. If permits are found to be necessary, the conditions of the permit will be requirements of the project and will supersede these recommendations.

It is the responsibility of the project sponsor to identify and obtain all required permits.

#### **ENVIRONMENTAL COMMITMENTS**

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

#### Firm:

- 1. 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. (INDOT ESD and INDOT Greenfield District)
- It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access (INDOT ESD)
- 3. Any work in a wetland area within right-of-way or in borrow/waste areas is prohibited unless specifically allowed in the U.S. Army Corps of Engineers permit. (INDOT ESD)
- 4. Announcements regarding construction activities will be published on the INDOT social media pages and coordination with the community will occur to minimize disruption to the extent possible. (INDOT ESD)
- 5. Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 6. Lighting AMM 2: When installing new or replacing existing permanent lights, use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting); or for those transportation agencies using the BUG system developed by the Illuminating Engineering Society, be as close to 0 for all three ratings with a priority of "uplight" of 0 and "backlight" as low as practicable. (USFWS)
- 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)
- 8. Tree Removal AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 9. Tree Removal AMM 2: Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/rail surface and outside of documented roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed. (USFWS and IDNR DFW)
- 10. Tree Removal AMM 3: Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits). (USFWS)
- 11. Tree Removal AMM 4: Do not remove documented Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or documented foraging habitat any time of year. (USFWS)

  Duck Creek is listed for *E. coli*. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure. (INDOT SAM)
- 12. Wetland 1, UNT 1 to Duck Creek, UNT 3 to Duck Creek, and the portion of UNT 2 to Duck Creek outside of construction limits will be marked "Do Not Disturb" on project plans. (INDOT ESD)
- 13. In the event any prehistoric or archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, must be reported under state law within two (2) business days to IDNR-DHPA (IN SHPO).
- 14. USFWS Bridge/Structure Assessments are only valid for two years. If construction will begin after August 9, 2025, an inspection of the structure by a qualified individual must be performed. Inspection of the structure should check for presence of bats/bat indicators and/or presence of birds. The results of the inspection must indicate no signs of bats or birds are documented during this inspection, the INDOT District Environmental Manager must be contacted immediately. (INDOT ESD)

This is page 26 of 27	Proiect name:	SR 13. Intersection Improvement	Date: December 20, 2024

County Hamilton, Madison, Route SR 13 at SR 128 Des. No. 2003081 and Tipton

- 15. Structure CLV-013-048-20.9 (CLV-43727) and the project's surrounding habitat is conducive for use (i.e., nests) by a bird species protected under the Migratory Bird Treaty Act (MBTA). Prior to the start of nesting season (May 1) the structure must be inspected for birds or signs of birds. If birds or signs of birds are found during the inspection avoidance and minimization measures must be implemented prior to the start of and during the nesting season. Nests without eggs or young should be removed prior to construction during the non-nesting season (September 8 April 30) and during the nesting season if no eggs or young are present. Nests with eggs or young cannot be removed or disturbed during the nesting season (May 1 September 7). Nests with eggs or young should be screened or buffered from active construction. Details of the required procedures are outlined in the 107-C-273 Migratory Bird Protection Recurring Special Provision (RSP). (INDOT ESD)
- 16. Duck Creek is a regulated drain, and the Hamilton County section is under a maintenance program. Any outlets into Duck Creek must be approved by the Hamilton County Surveyor's Office per IC26-9-27-17. In addition, Hamilton County requires runoff from additional impervious surfaces be detained prior to release. (Hamilton County Surveyor)
- 17. Coordination with Hamilton County Surveyor regarding section corners and benchmarks will occur prior to Final Tracings. (Hamilton County Surveyor)

#### **Further Consideration:**

- 18. Do not cut any trees suitable for Indiana Bat or Northern Long-eared Bat roosting (greater that 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30. (IDNR-DFW)
- 19. Plant five trees, one inch to two inches in diameter-at-breast height, for each tree which is removed that is 10 inches or greater in diameter-at-breast height. (IDNR-DFW)
- 20. Ensure that all repairs are completed with the least toxic epoxy product available, both now and during future maintenance. (IDNR-DFW)
- 21. 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)
- 22. The international Dark-Sky Association has developed recommendations (<a href="https://darksky.org/resources/what-is-light-pollution/light-pollution-solutions/lighting/">https://darksky.org/resources/what-is-light-pollution/light-pollution-solutions/lighting/</a>) for communities choosing LED lighting systems that will aid in the selection of lighting that is energy and cost efficient, yet ensures safety and security, protects wildlife, and promotes the goal of reducing light pollution: Always choose fully shielded fixtures that emit no light upward. Use "warm-white" or filtered LEDs (CCT < 3,000 K; S/P ratio < 1.2) to minimize harmful blue light emission. Look for products with adaptive controls like dimmers, timers, and motion sensors. Consider dimming or turning off lights during non-peak overnight hours. Avoid the temptation to over-light because of the higher luminous efficiency of LEDs. Only light the exact space and in the amount required for particular tasks. (IDNR-DFW)
- 23. The use of sealants that are free of petroleum and coal tar based products is encouraged whenever possible. Where possible, road runoff should be directed to riprap turnouts and sediment filtration prior to entering a stream to reduce impacts to aquatic species. We recommend the use of pollutant trapping technology such as storm drain inserts to reduce the runoff of roadside pollutants. (IDNR-DFW)
- 24. The Division of Fish and Wildlife recommends considering a more sustainable approach to stormwater management. A more sustainable approach should aim to rebuild the natural water cycle by using storage techniques (retention basins, constructed wetlands, raingardens, etc.) and recharging groundwater using infiltration techniques (infiltration basins or trenches, pervious pavement, etc.). (IDNR-DFW)

This is page 27 of 27 Project name: SR 13, Intersection Improvement Date: December 20, 2024

### Categorical Exclusion Level 2 SR 13 - DES 2003081, Intersection Improvement Hamilton, Madison, and Tipton Counties, Indiana

### **APPENDICES**

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Project Photo Log	
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C: Early Coordination	0.4
Early Coordination Sample Letter	
Indiana Geological and Water Survey Report	
Natural Resources Conservation Service	
AD 1006 Forms	
IDEM Wellhead Proximity Response	
Indiana Department of Natural Resources, Division of Fish and Wildlife	
INDOT Aviation	
Hamilton County Surveyor	
United States Coast Guard, Division 8	
USFWS Official IPaC Species List	
USFWS Concurrence Letter	
USFWS Bridge/Structure Bat Assessment Form	U-54
D: Section 106 of the NHPA	
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### APPENDIX A

**INDOT Supporting Documents** 

#### **Categorical Exclusion Level Thresholds**

	PCE	Level 1	Level 2	Level 3	Level 4 <sup>1</sup>
Section 106	Falls within guidelines of Minor Projects PA	"No Historic Properties Affected"	"No Adverse Effect"	-	"Adverse Effect" Or Historic Bridge involvement <sup>2</sup>
Stream Impacts <sup>3</sup>	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	USACE Individual 404 Permit <sup>4</sup>
Wetland Impacts <sup>3</sup>	No adverse impacts to wetlands	< 0.1 acre	-	< 1.0 acre	≥ 1.0 acre
Right-of-way <sup>5</sup>	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations <sup>6</sup>	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 <sup>7</sup> )	"Not likely to Adversely Affect" (With any AMMs or commitments)	-	"Likely to Adversely Affect"	Project does not fall under Species Specific Programmatic <sup>8</sup>
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 <sup>9</sup>
Sole Source Aquifer	No Detailed Groundwater Assessment	1	-	-	Detailed Groundwater Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Section 4(f) Impacts	None	=	-	-	Any <sup>10</sup>
Section 6(f) Impacts	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Noise Analysis Required	No	-	-	-	Yes
Air Quality Analysis Required	No	-	-	-	Yes <sup>11</sup>
<ul> <li>Approval Level</li> <li>District Env. (DE)</li> <li>Env. Serv. Div. (ESD)</li> <li>FHWA</li> </ul>	Concurrence by DE or ESD	DE or ESD	DE or ESD	DE and/or ESD	DE and/or ESD; and FHWA

<sup>&</sup>lt;sup>1</sup> Coordinate with INDOT Environmental Services Division. INDOT will then coordinate with the appropriate FHWA Environmental Specialist.

<sup>&</sup>lt;sup>2</sup> Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement.

<sup>&</sup>lt;sup>3</sup> Total permanent impacts to streams (linear feet) and wetlands (acres).

<sup>&</sup>lt;sup>4</sup>US Army Corps of Engineers Individual 404 Permit

<sup>&</sup>lt;sup>5</sup> Total permanent and temporary right-of-way. This does not include reacquisition of existing apparent right-of-way.

<sup>&</sup>lt;sup>6</sup> 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.

<sup>&</sup>lt;sup>8</sup> 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.

<sup>&</sup>lt;sup>9</sup> Potential for causing a disproportionately high and adverse impact.

<sup>&</sup>lt;sup>10</sup> 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.

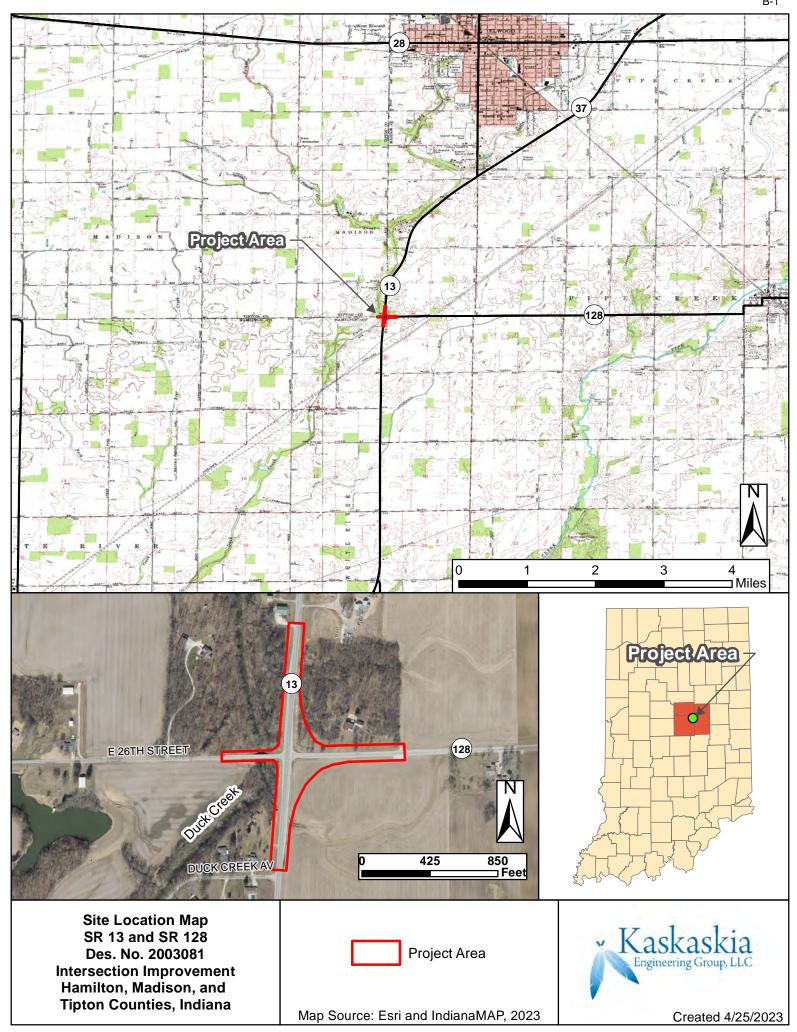
<sup>&</sup>lt;sup>11</sup> Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

<sup>\*</sup> Includes the threatened/endangered species critical habitat

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

### APPENDIX B

Graphics



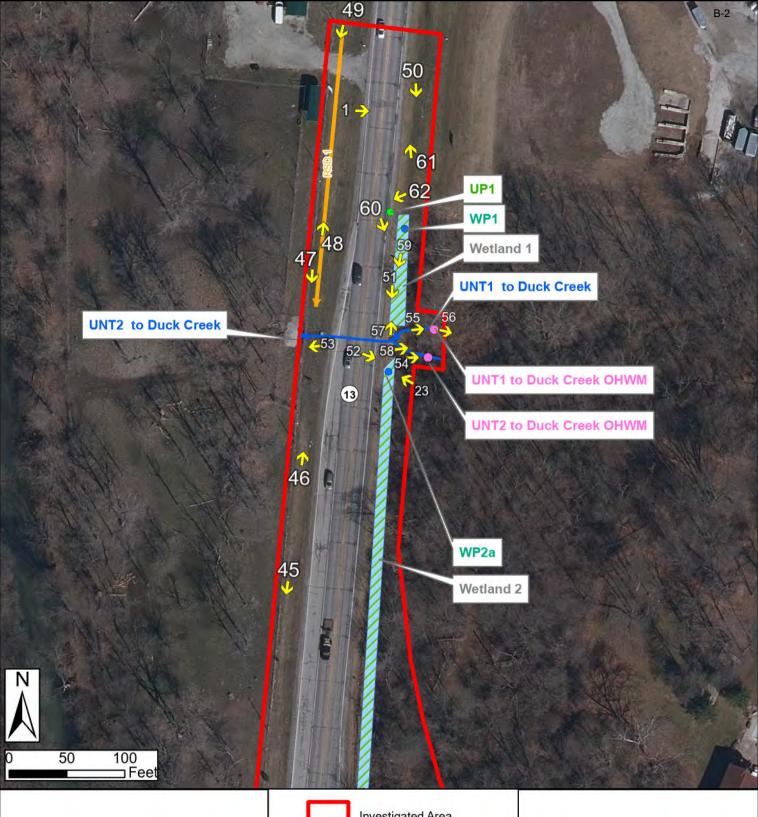


Figure 10 Photo Map SR 13 and SR 128 Intersection Improvement Hamilton, Madison, and Tipton Counties, Indiana Des. No. 2003081







Figure 10 Photo Map SR 13 and SR 128 Intersection Improvement Hamilton, Madison, and Tipton Counties, Indiana Des. No. 2003081







Figure 10 Photo Map SR 13 and SR 128 Intersection Improvement Hamilton, Madison, and Tipton Counties, Indiana Des. No. 2003081





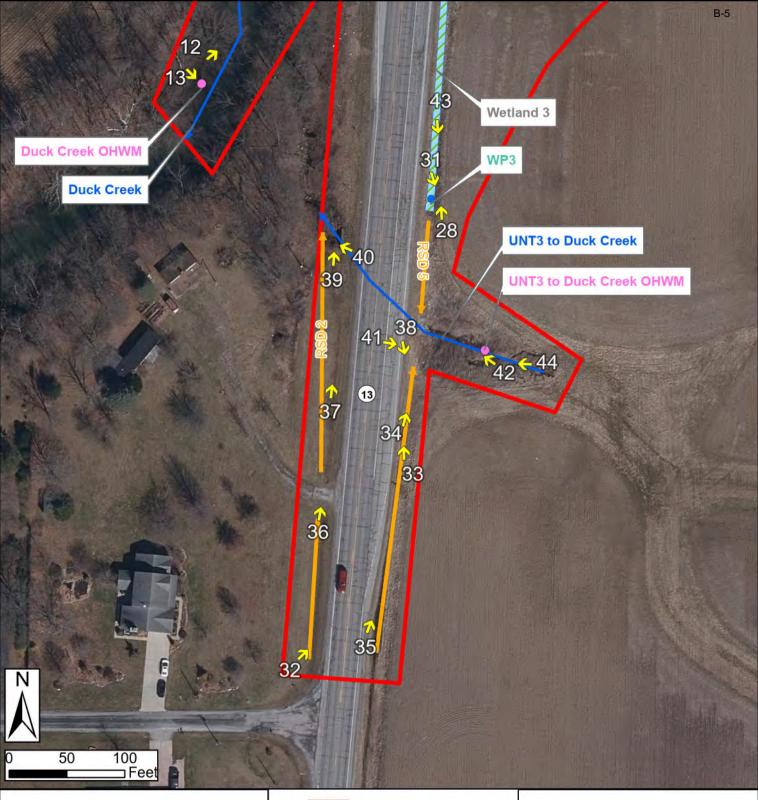
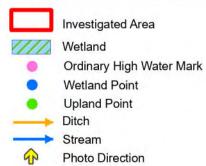


Figure 10 Photo Map SR 13 and SR 128 Intersection Improvement Hamilton, Madison, and Tipton Counties, Indiana Des. No. 2003081







1. Looking east across SR 13 towards the northeast quadrant.

2. Looking north on SR 13 with the northwest quadrant to the left.



3. Looking west down SR 128 towards Str. #80-00093B/NBI #8000092 over Duck Creek.

4. Looking north from SR 120 towards the northeast quadrant, with SR 13 to the right in the background.



5. Looking west towards Str. #80-00093B/NBI #8000092 and the southwest quadrant from SR 128.

6. Looking northeast towards the northwest quadrant from SR 128, downstream of towards Str. #80-00093B/NBI #8000092.



7. Looking east towards Duck Creek from the southwest quadrant.

8. Looking west towards the southwest quadrant, with SR 128 to the right.



9. Looking east towards Duck Creek from the north side of Str. #80-00093B/NBI #8000092 on SR 128

10. Looking west towards the northwest quadrant, north of SR 128.



11. Looking south, downstream, towards Duck Creek from the south deck of Str. #80-00093B/NBI #8000092.

12. Looking northeast from the west bank of Duck Creek, downstream of Str. #80-00093B/NBI #8000092.



13. Looking southeast on Duck Creek. The OWH was measured approximately 204 feet downstream of Str. #80-00093B/NBI #8000092. The OWHM was observed to be approximately 30-feet wide and 3-feet deep.

14. Looking northwest towards the western backwall of Str. #80-00093B/NBI #8000092.



15. Looking northwest towards the pylon of Str. #80-00093B/NBI #8000092 on the west bank of Duck Creek.

16. Looking north towards Duck Creek from the deck of Str. #80-00093B/NBI #8000092 on SR 128.



17. Looking north through the eastern backwall of Str. #80-00093B/NBI #8000092.

18. Looking west on SR 128 from the southeast quadrant towards RSD 6 and the SR 13 intersection.



19. Looking west towards RSD 7 from the northeast quadrant towards the SR 13 intersection.

20. The sampled soil profile for Wetland Point 2. The soil was determined to be hydric.



21. Looking east towards the edge of Wetland 2 north of SR 128. Dominant hydrophytic vegetation included Meadow Foxtail (Alopecurus pratensis FACW) and Foxtail Barley (Hordeum jubatum, FAC).

22. Looking north towards Wetland 2 in the northwest quadrant. Dominant hydrophytic vegetation included Meadow Foxtail (Alopecurus pratensis FACW) and Foxtail Barley (Hordeum jubatum, FAC).



23. The sampled soil profile for Wetland Point 2a. The soil was determined to be hydric.

24. The observed soil profile for the sampled point Upland Point 2. The soil was determined to be non-hydric.



25. Looking northwest towards Wetland 2 on the edge of the northeast quadrant. Dominant hydrophytic vegetation included Meadow Foxtail (Alopecurus pratensis FACW) and Foxtail Barley (Hordeum jubatum, FAC).



26. Looking east towards RSD 6 in the southeast quadrant.



 $\,$  27. Looking east towards RSD 6 in the southeast quadrant.



28. Looking north towards Wetland 3 from RSD 5 in the southeast quadrant.



29. The observed soil profile for the sampled point Upland 3. The soil was determined to be non-hydric.

30. Looking south towards Wetland 3 in the southeast quadrant.



31. The observed soil profile for the sampled point Wetland 3. The soil was determined to be hydric.

32. Looking northeast towards RSD 3 in the southwest quadrant.



33. Looking northeast towards RSD 4 in the southeast quadrant.



34. Looking northeast towards RSD 4 in the southeast quadrant.



35. Looking north towards the edge of RSD 4 in the southeast quadrant.

36. Looking north towards the edge of RSD 3 in the southwest quadrant.



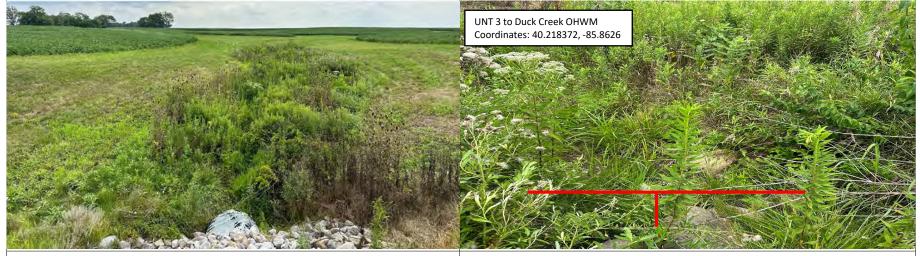
37. Looking north towards the start of RSD 2 in the southwest quadrant.

38. Looking southeast towards RSD 4 in the southeast quadrant.



39. Looking north towards UNT3 to Duck Creek in the southwest quadrant.

40. Looking northwest downstream towards UNT3 to Duck Creek in the southwest quadrant.



41. Looking east upstream towards UNT 3 to Duck Creek in the southeast quadrant.

42. Looking northwest upstream of UNT 3 to Duck Creek. The OHWM was measured 70 feet upstream of SR 13. The OHWM was observed to be 6.25 feet wide and 2.41 feet high.



43. Looking south towards Wetland 3 and RSD 5 in the southeast quadrant.

44. Looking west downstream of UNT 3 to Duck Creek towards SR 13.



45. Looking south towards the northwest quadrant.

46. Looking north towards the northwest quadrant.



47. Looking south towards UNT 2 to Duck Creek in the northwest quadrant.

48. Looking north towards RSD 1 the northwest quadrant.



49. Looking southwest towards RSD 1 in the northwest quadrant.

50. Looking south towards the northeast quadrant, east of SR 13.



51. Looking south towards Wetland 1 in the northeast quadrant.

52. Looking southeast towards upstream UNT 2 to Duck Creek.



53. Looking west downstream of UNT 2 to Duck Creek in the northwest quadrant.

54. Looking east upstream of UNT 2 to Duck Creek. The OHWM was measured 38.47 feet from SR 13 and was observed to be 3 feet wide and 0.42 feet high measured from the stream bed.



55. Looking east upstream of UNT 1 to Duck Creek. The OHWM was measured 34.86 feet from SR 13 and was observed to be 2.16 feet wide and 0.25 feet high measured from the stream bed.

56. Looking southeast upstream of UNT 1 to Duck Creek.



57. Looking north across UNT 2 to Duck Creek in the northeast quadrant.

58. Looking east upstream of UNT 2 to Duck Creek in the northeast quadrant.



 $59. \ Looking$  south towards Wetland 1 in the northeast quadrant.

60. The sampled soil profile for Wetland Point 1. The soil was determined to be hydric.



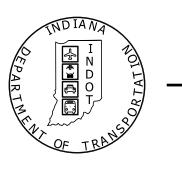
61. Looking north towards UP1 in the northeast quadrant, east of SR 13.

62. The observed soil profile for the sampled point Upland Point 1. The soil was determined to be non-hydric.

PROJECT	DESIGNATION
2003082	2003081
CONTRACT	BRIDGE FILE
R-44024	

KIN PROJECT INFORMATION TABLE						
DES. NO.	WORK TYPE	LOCATION				
2003082	INTERSECTION IMPROVEMENT	SR13 & STRAWTOWN AVE. (LEAD)				
2003081	ROUNDABOUT CONSTRUCTION	SR13 & SR 128/ 296TH STREET				

## INDIANA DEPARTMENT OF TRANSPORTATION

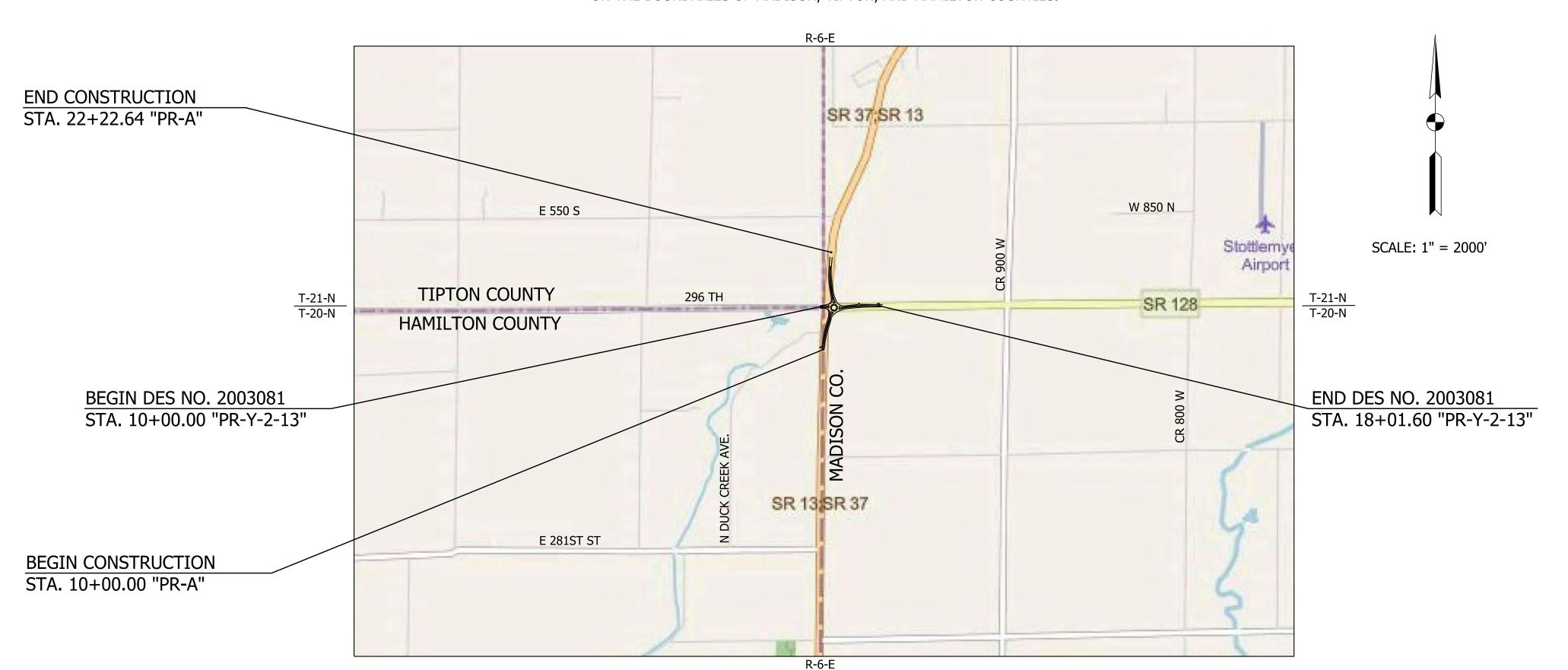


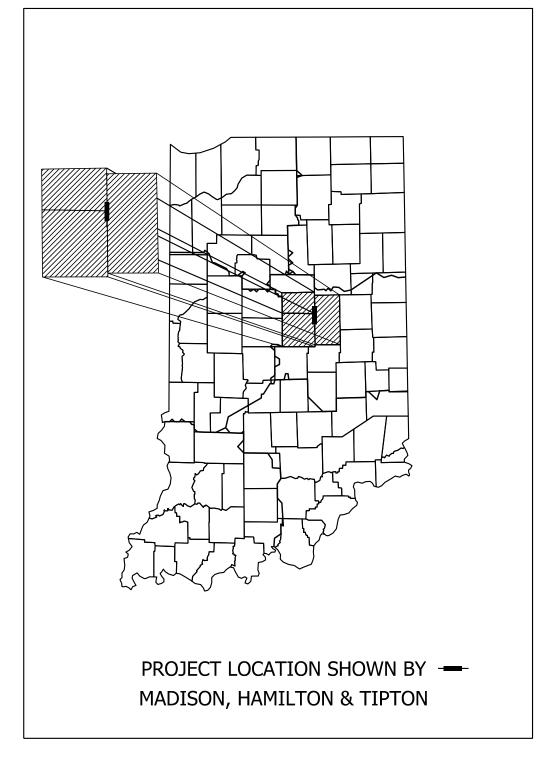
## ROAD PLANS

TRAFFIC DATA SR13 SR 128 296TH ST AADT (2026) 1,452VPD 8,636 VPD 1,545VPD AADT (2046) 10,266 VPD 1,725 VPD 1,842 VPD 1,011 VPH 192 VPH 174 VPH 50.3% (NB) 50.1% (EB) Directional Distribution 51.2% (EB) Trucks (% DHV) 3.9% DHV 4.6% DHV 5.7% DHV Trucks (% ADT) 6.9% ADT 3.6% ADT 6.1% ADT **55 MPH** 55 MPH 55 MPH Project Design Criteria Reconstruction (Non-Freeway) Reconstruction (Non-Freeway) Reconstruction (Non-Freeway) Functional Classification Minor Arterial Major Collector Major Collector Rural Rural/Urban Rural Rural Leve Level Level Access Control None None

ROUTE: SR 13 FROM: RP 20+75 TO: RP 21+25 PROJECT NO. 2003082 P.E. 2003082 R/W 2003082 CONST.

ROUNDABOUT CONSTRUCTION AT THE INTERSECTION OF SR 13/37 WITH SR 128 TO THE EAST, AND WITH E 296TH ST TO THE WEST, ON THE BOUNDARIES OF MADISON, TIPTON, AND HAMILTON COUNTIES.





LATITUDE: 40° 13' 8.13" N, LONGITUDE: 85° 51' 43" W

HUC 12-051202010505

BRIDGE LENGTH:	N/A	_ MI.
ROADWAY LENGTH:	0.34	_ MI.
TOTAL LENGTH:	0.34	_ MI.
MAX. GRADE:	3.80	_ %

LOCATION MAP

MADISON, HAMILTON & TIPTON

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

Michael Baker
INTERNATIONAL

lichael Baker International, Inc.
815 River Crossing Parkway, Suite 20
ndianapolis, IN 46240
el: 317-663-8430 Fax: 317-663-8410
vww.mbakerintl.com

PLANS PREPARED BY:	Michael Baker International, Inc.	317-663-8430 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:		
	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

	DRIDGETIEL		ILL
	DESIGNATION		
	2003081		
SURVEY BOOK	SHEETS		
	1	of	60
CONTRACT	PROJECT		
R-44024	2003082		

**LEGEND** 

K FULL DEPTH HMA PAVEMENT

O COMPACTED AGGREGATE, NO. 53

① CURB & GUTTER, B, CONCRETE, MODIDFIED I

20 CURB & GUTTER, B, CONCRETE, MODIFIED II

R HMA, MILL AND OVERLAY

F SIDEWALK, CONCRETE

U UNDERDRAIN, TYPE 4, 6"

(15) CURB & GUTTER, CONCRETE

(19) CURB, INTEGRAL, CONCRETE

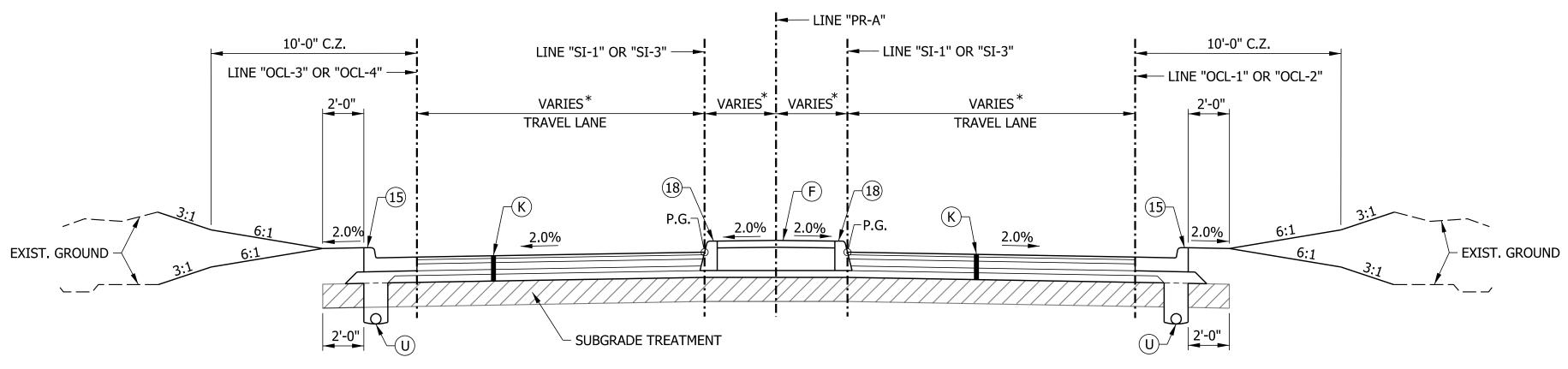
(TBD)

(18) CURB, CONCRETE

26 MULCHED SEEDING, R

#### TYPICAL SECTION - COMBINED CURB & GUTTER, ROUNDABOUT APPROACH

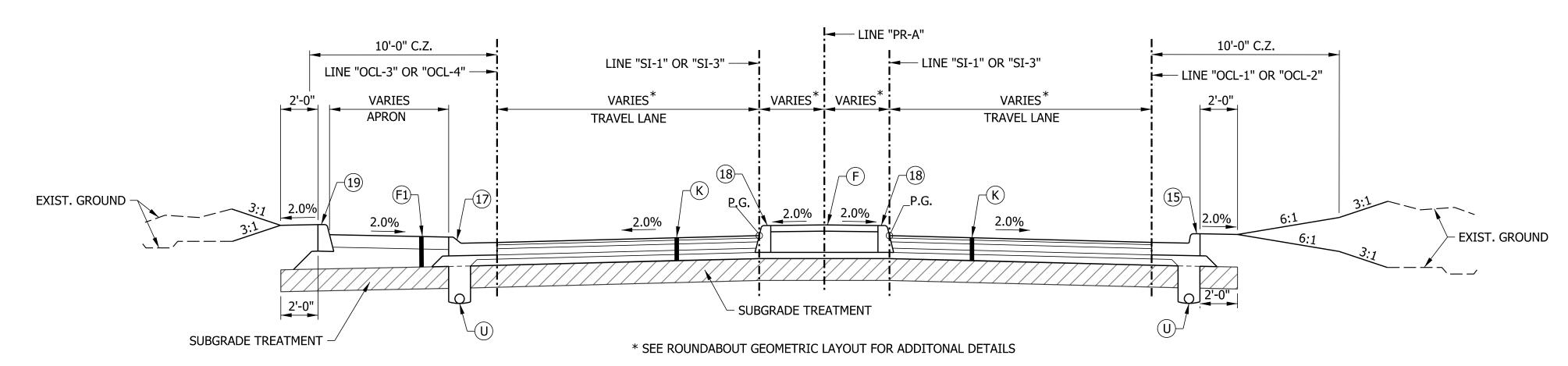
STA. 11+50.00 TO STA. 13+26.80 LINE "PR-A" STA. 19+65.77 TO STA. 21+10.00 LINE "PR-A"



\* SEE ROUNDABOUT GEOMETRIC LAYOUT FOR ADDITONAL DETAILS

#### TYPICAL SECTION - COMBINED CURB & GUTTER, MEDIAN CONCRETE ISLAND

STA. 13+26.80 TO STA. 14+83.65 LINE "PR-A" STA. 17+44.24 TO STA. 19+65.77 LINE "PR-A"



## TYPICAL SECTION - COMBINED CURB & GUTTER, MEDIAN CONCRETE ISLAND, LEFT APRON STA. 14+83.65 TO STA. 15+76.20 LINE "PR-A" STA. 17+17.81 TO STA. 17+44.24 LINE "PR-A"

RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE  1/4" = 1'-0"  VERTICAL SCALE	BRIDGE FILE  DESIGNATION	
-	DESIGN ENGINEER DATE		1/4" = 1'-0"	2003081	
DESIGNED: AGO	DRAWN: JEC	TYPICAL CROSS SECTIONS	SURVEY BOOK	SHEETS	
	DRAWN.JEC	TYPICAL CROSS SECTIONS		3 of 60	
CHECKED: WRC	CHECKED: WRC	LINE "PR-A"	CONTRACT	PROJECT	
	CHECKED. WKC		R <b>-4402</b> 4	2003082	

<u>LEGEND</u>

K FULL DEPTH HMA PAVEMENT

O COMPACTED AGGREGATE, NO. 53

(17) CURB & GUTTER, B, CONCRETE, MODIDFIED I

20 CURB & GUTTER, B, CONCRETE, MODIFIED II

R HMA, MILL AND OVERLAY

F SIDEWALK, CONCRETE

U UNDERDRAIN, TYPE 4, 6"

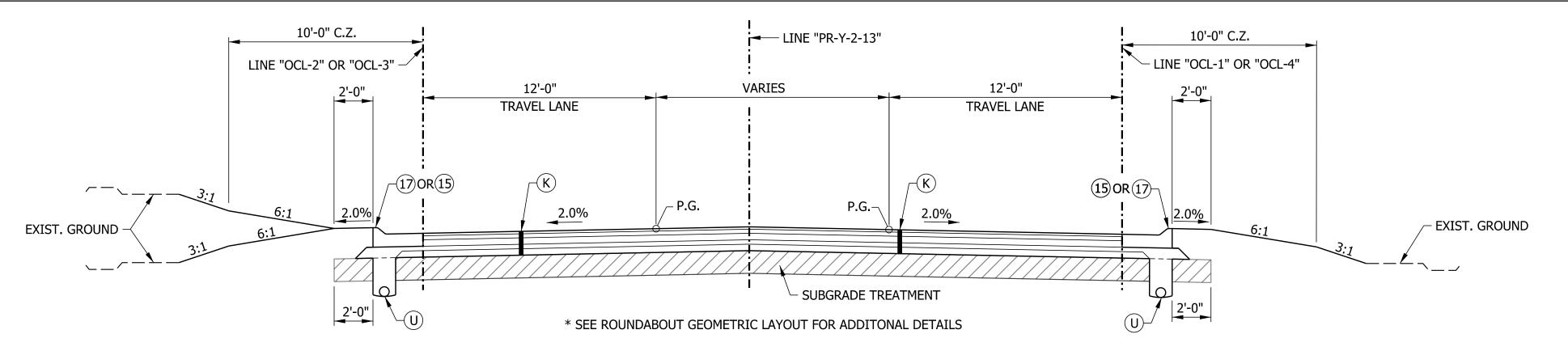
(18) CURB, CONCRETE

26 SODDING, NURSERY

(15) CURB & GUTTER, CONCRETE

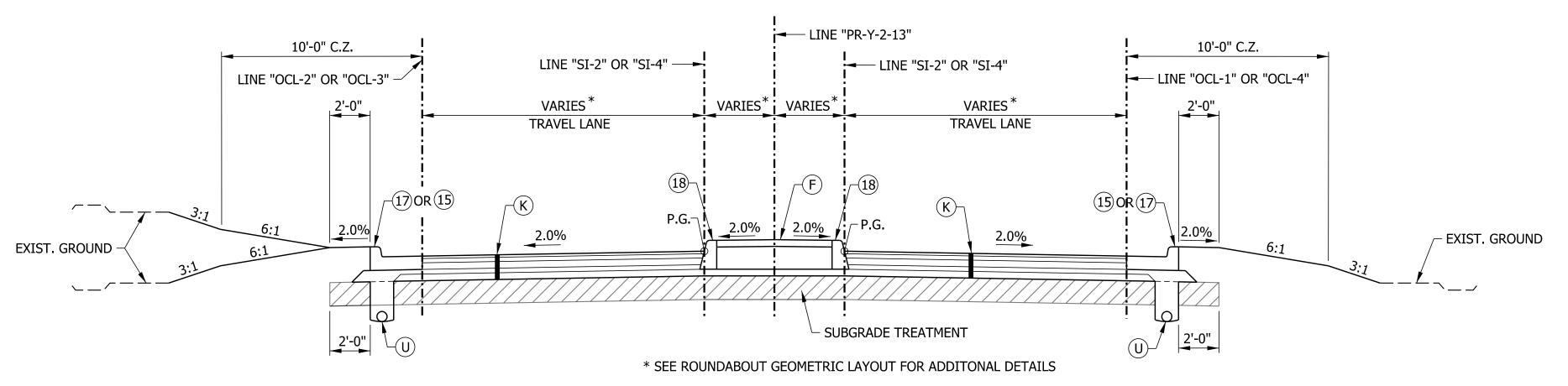
(19) CURB, INTEGRAL, CONCRETE

F1 TRUCK APRON



#### TYPICAL SECTION - COMBINED CURB & GUTTER, ROUNDABOUT APPROACH

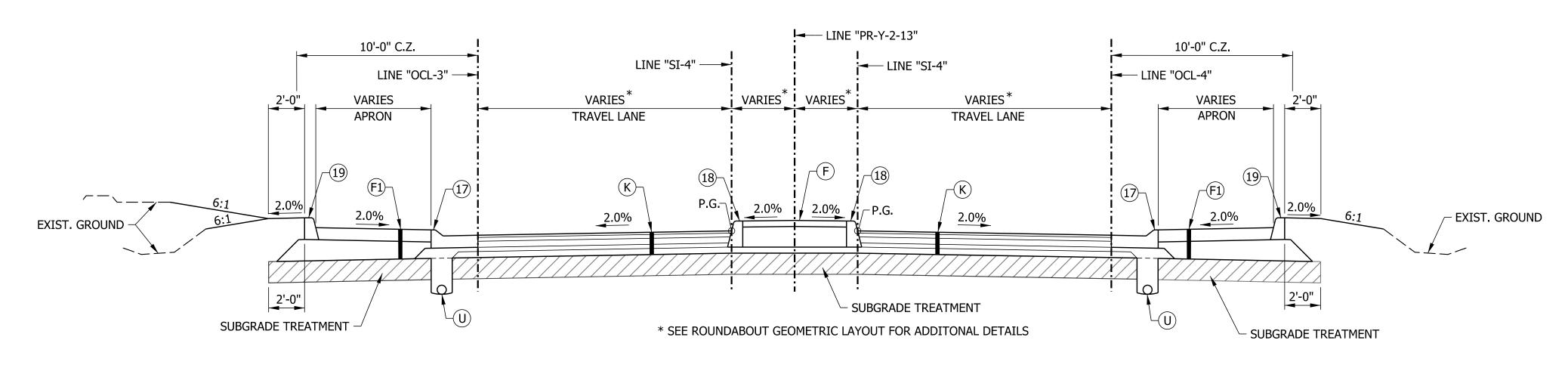
STA. 10+00.00 TO STA. 10+51.65 LINE "PR-Y-2-13" STA. 15+02.22 TO STA. 18+01.58 LINE "PR-Y-2-13"



TYPICAL SECTION - COMBINED CURB & GUTTER, MEDIAN CONCRETE ISLAND

STA. 10+51.65 TO STA. 10+72.90 LINE "PR-Y-2-13"

STA. 12+53.91 TO STA. 15+04.42 LINE "PR-Y-2-13"



TYPICAL SECTION - COMBINED CURB & GUTTER, MEDIAN CONCRETE ISLAND, LEFT AND RIGHT TRUCK APRONS

STA. 10+72.90 TO STA. 11+10.12 LINE "PR-Y-2-13"

			TNIDTANIA	HORIZONTAL SCALE		BRIDGE FI	LE
	RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION	1/4" = 1'-0"			
				VERTICAL SCALE	DESIGNATION		ON
		DESIGN ENGINEER DATE		1/4" = 1'-0"		2003081	
			SURVEY BOOK		SHEETS		
	DESIGNED: AGO	DRAWN: JEC	TYPICAL CROSS SECTIONS		4	of	60
	CUECKED MIDG	LINE "PR-Y-2-13"	CONTRACT	PROJECT		•	
	CHECKED: WRC	CHECKED: WRC		R-44024		2003082	

### TYPICAL SECTION - ROUNDABOUT

STA. 15+48.51 TO STA. 16+45.94 LINE "PR-A" STA. 11+32.17 TO STA. 12+31.90 LINE "PR-Y-2-13"

#### **LEGEND**

- K FULL DEPTH HMA PAVEMENT
- R HMA, MILL AND OVERLAY
- F SIDEWALK, CONCRETE
- (F1) TRUCK APRON

(TBD)

- © COMPACTED AGGREGATE, NO. 53
- (U) UNDERDRAIN, TYPE 4, 6"
- (15) CURB & GUTTER, CONCRETE
- (17) CURB & GUTTER, B, CONCRETE, MODIDFIED I
- (18) CURB, CONCRETE
- (19) CURB, INTEGRAL, CONCRETE
- 20 CURB & GUTTER, B, CONCRETE, MODIFIED II

1/4" = 1'-0"

SURVEY BOOK

CONTRACT

R-44024

TYPICAL CROSS SECTIONS

LINE "PR-A" AND LINE "PR-Y-2-13"

2003081

SHEETS

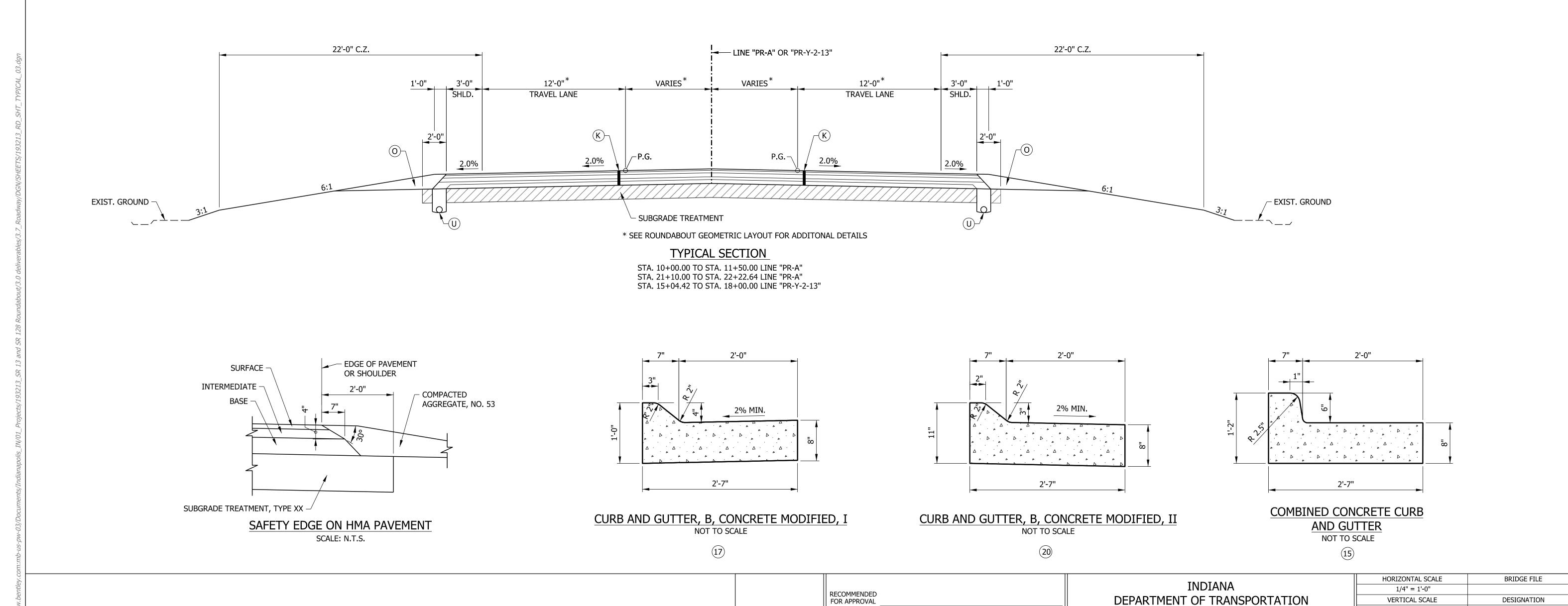
of

PROJECT

2003082

5

26 SODDING, NURSERY



FOR APPROVAL

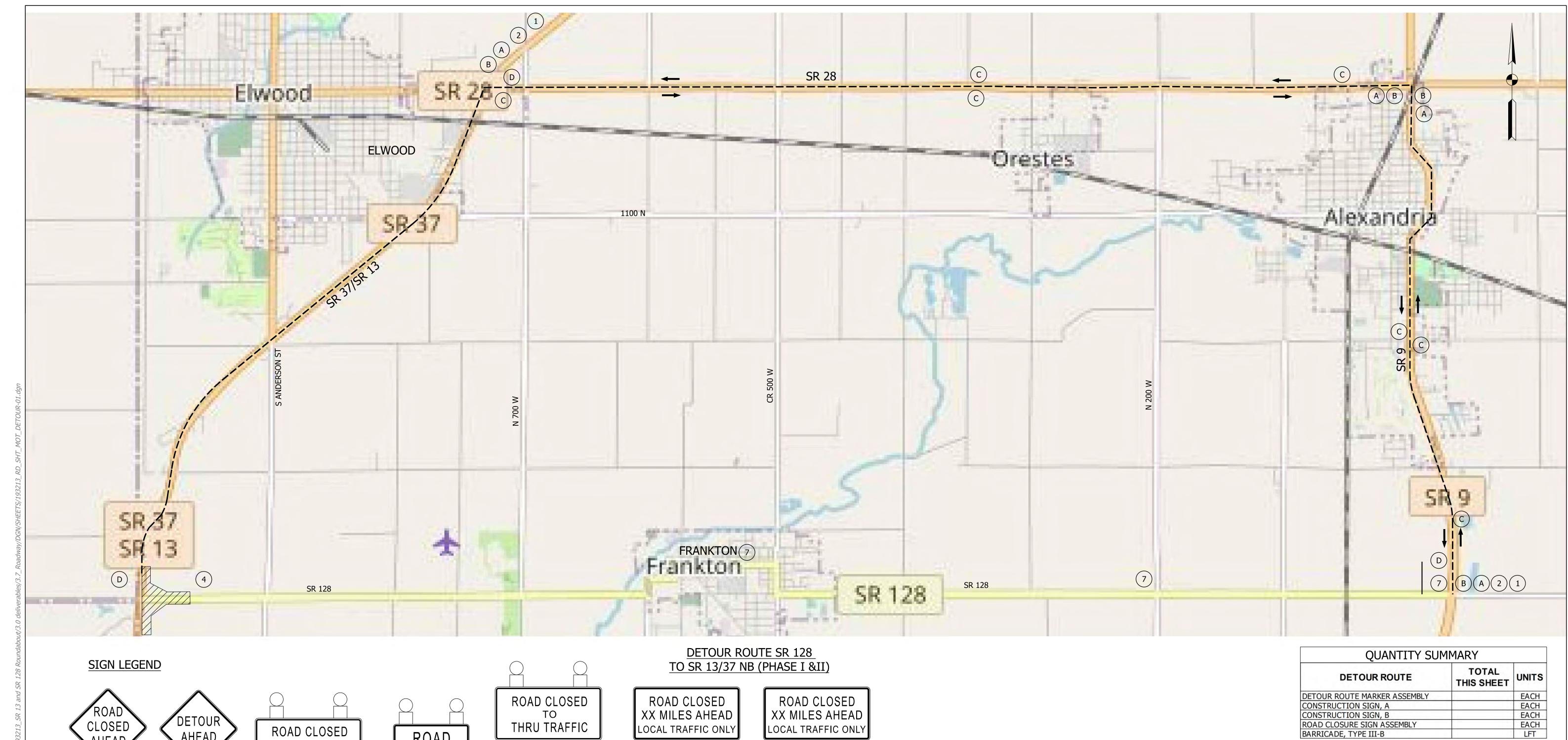
DESIGNED: AGO

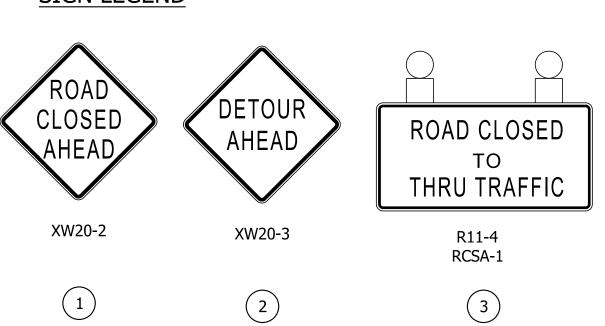
CHECKED: WRC

DESIGN ENGINEER

CHECKED: WRC

DRAWN: JEC





TO THRU TRAFFIC ROAD CLOSED R11-2 RCSA-2

DETOUR R11-4 XM4-10 (L or R) RCSA-3 5

XX MILES AHEAD LOCAL TRAFFIC ONLY

R11-3A

RCSA-4

6

XX MILES AHEAD LOCAL TRAFFIC ONLY

DETOUR

R11-3A XM4-10 (L or R) RCSA-5

**LEGEND** 

CONSTRUCTION SIGN, TYPE A

CONSTRUCTION WARNING LIGHT, TYPE "A" DETOUR ROUTE MARKER ASSEMBLY

DIRECTION OF TRAFFIC FLOW

 BARRICADE, TYPE III-B CONSTRUCTION AREA **---** DETOUR ROUTE

NOTES: ADVANCE TURN D.R.M.A. 1. FOR DETOUR ROUTE MARKER ASSEMBLIES A, B, C, AND D,

DIRECTIONAL D.R.M.A.

CONFIRMING D.R.M.A. END D.R.M.A.

3. POSTED SPEED LIMIT ON SR 9 IS XX MPH IN RURAL SECTION AND XX MILES PER HOUR IN URBAN SECTION. POSTED SPEED LIMIT ON SR 28 IS XX MPH IN RURAL SECTION AND XX MILES PER HOUR IN URBAN SECTION.

E801-TCLG AND E801-TCSN FOR FURTHER DETAILS OF

SEE STANDARD DRAWING E801-TCDT-03.

2. ALSO SEE INDOT STANDARD DRAWINGS E801-TCDV,

TRAFFIC CONTROL SIGNS AND PLACEMENT.

EACH

LFT

4. ADJACENT DRIVEWAY ACCESS TO REMAIN OPEN AT ALL TIMES.

		TALESTANIA	HORIZONTAL SCALE	BRIDGE FILE
RECOMMENDED		INDIANA	1" = 2000'	
FOR APPROVAL		DEPARTMENT OF TRANSPORTATION	VERTICAL SCALE	DESIGNATION
	DESIGN ENGINEER DATE	DATE	N/A	2003081
DEGLENER WIRE	DRAWN: JEC		SURVEY BOOK	SHEETS
DESIGNED: WRC		MAINTENANCE OF TRAFFIC		10 of 60
CHECKED. ACO	CHECKED: WRC	NORTH DETOUR ROUTE SR 128 (PHASE I & II)	CONTRACT	PROJECT
CHECKED: <u>AGO</u>			R-44024	2003082

#### **SUMMARY OF MOT PHASES**

PHASE I:

CONSTRUCT CIRCULATORY ROADWAY, EAST APPROACH, AND NORTH/SOUTH APPROACHES TO A POINT JUST OUTSIDE OF SR 13.

1. CLOSE AND DETOUR SR 128 (EAST LEG).

2. 296TH STREET ACCESS TO SR 13 WILL REMAIN OPEN DURING THIS PHASE.

PHASE II:

4

CONSTRUCT THE NORTH AND SOUTH TIE-IN ALONG SR 13.

SR 128 (EAST LEG) WILL REMAIN CLOSED.
 CLOSE AND DETOUR SR 13 AT SR 128 (SHORT TERM CLOSURE).

PHASE III:

CONSTRUCT 296TH STREET APPROACH.

1. CLOSE AND DETOUR 296TH STREET (WEST LEG).

DESIGNATION

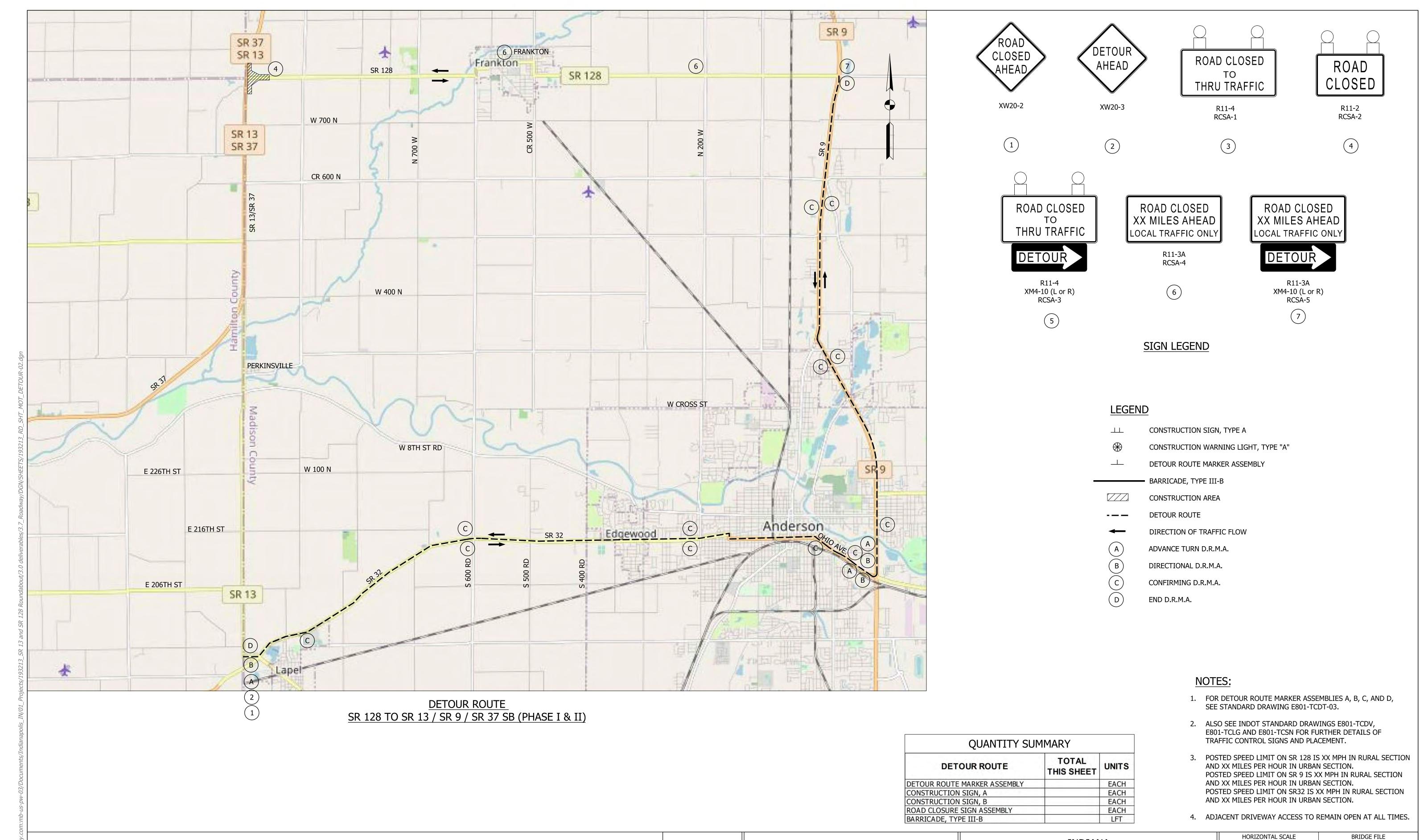
2003081 SHEETS

PROJECT

2003082

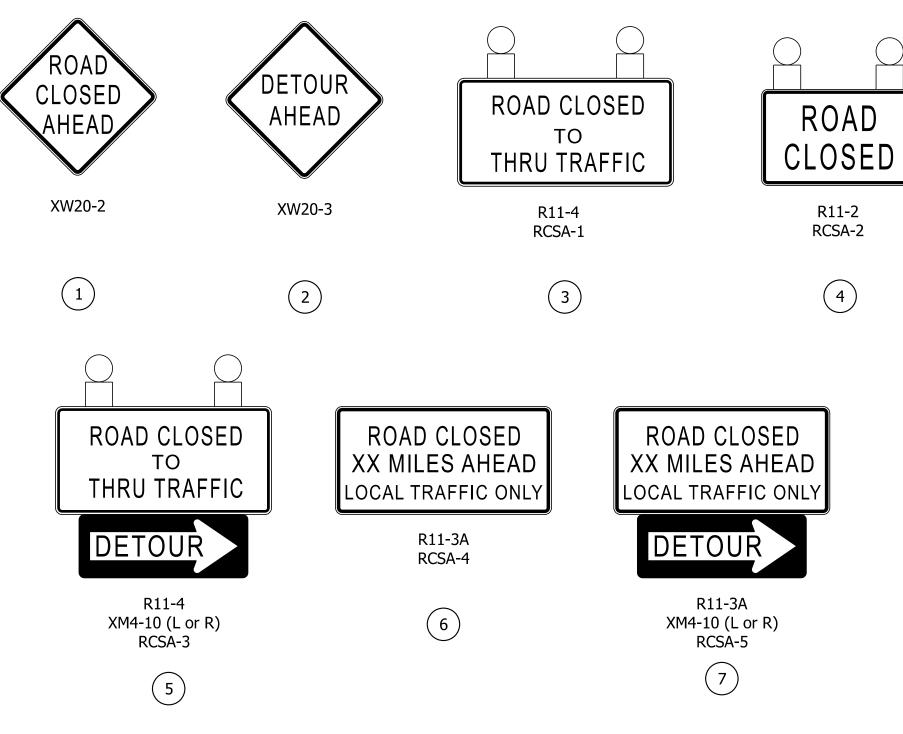
11 of

R-44024



INDIANA 1" = 4000' RECOMMENDED DEPARTMENT OF TRANSPORTATION VERTICAL SCALE FOR APPROVAL DESIGN ENGINEER DATE N/A SURVEY BOOK DRAWN:JEC MAINTENANCE OF TRAFFIC DESIGNED: WRC SOUTH DETOUR ROUTE SR 128 (PHASE I & II) CONTRACT CHECKED: AGO CHECKED: WRC





#### SIGN LEGEND

#### <u>LEGEND</u>

DETOUR ROUTE MARKER ASSEMBLY

BARRICADE, TYPE III-B

— — DETOUR ROUTE

DIRECTION OF TRAFFIC FLOW

CONSTRUCTION AREA

A ADVANCE TURN D.R.M.A.

) DIRECTIONAL D.R.M.A.

CONFIRMING D.R.M.A.

END D.R.M.A.

# QUANTITY SUMMARYDETOUR ROUTETOTAL<br/>THIS SHEETUNITSDETOUR ROUTE MARKER ASSEMBLYEACHCONSTRUCTION SIGN, AEACHCONSTRUCTION SIGN, BEACHROAD CLOSURE SIGN ASSEMBLYEACHBARRICADE, TYPE III-BLFT

#### NOTES:

- 1. FOR DETOUR ROUTE MARKER ASSEMBLIES A, B, C, AND D, SEE STANDARD DRAWING E801-TCDT-03.
- ALSO SEE INDOT STANDARD DRAWINGS E801-TCDV, E801-TCLG AND E801-TCSN FOR FURTHER DETAILS OF TRAFFIC CONTROL SIGNS AND PLACEMENT.
- 3. POSTED SPEED LIMIT ON SR XX IS XX MPH IN RURAL SECTION AND XX MILES PER HOUR IN URBAN SECTION.
- 4. ADJACENT DRIVEWAY ACCESS TO REMAIN OPEN AT ALL TIMES.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER DAT	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE  1" = 5000'  VERTICAL SCALE  N/A	DESIGNATION 2003081
DESIGNED: AGO	DRAWN: JEC	MAINTENANCE OF TRAFFIC	SURVEY BOOK	SHEETS 12 of 60
CHECKED: WRC	CHECKED: WRC	DETOUR ROUTE SR 13 (PHASE II)	CONTRACT R-44024	PROJECT 2003082

Iohn.Miller 12/8/2023 model: Default

<u>DETOUR ROUTE</u> E 296TH STREET (PHASE II & III)

Note to Reviewer:

Detour route for East 296th St to NB SR13 will be developed and added to the plans at the next submission.

SIGN LEGEND



ROAD

CLOSED

R11-2 RCSA-2

4





R11-4 RCSA-1



R11-4 XM4-10 (L or R) RCSA-3 ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY R11-3A RCSA-4

6

ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY

DETC

R11-3A XM4-10 (L or R) RCSA-5

QUANTITY SUMMARY					
DETOUR ROUTE	TOTAL THIS SHEET	UNITS			
DETOUR ROUTE MARKER ASSEMBLY		EACH			
CONSTRUCTION SIGN, A		EACH			
CONSTRUCTION SIGN, B		EACH			
ROAD CLOSURE SIGN ASSEMBLY	1112	EACH			
BARRICADE, TYPE III-B		LFT			

#### **LEGEND**

CONSTRUCTION SIGN, TYPE A

**⊕** CONSTRUCTION WARNING LIGHT, TYPE "A"

\_\_\_ DETOUR ROUTE MARKER ASSEMBLY

BARRICADE, TYPE III-B

CONSTRUCTION AREA

DETOUR ROUTE

DIRECTION OF TRAFFIC FLOW

A ADVANCE TURN D.R.M.A.

B DIRECTIONAL D.R.M.A.

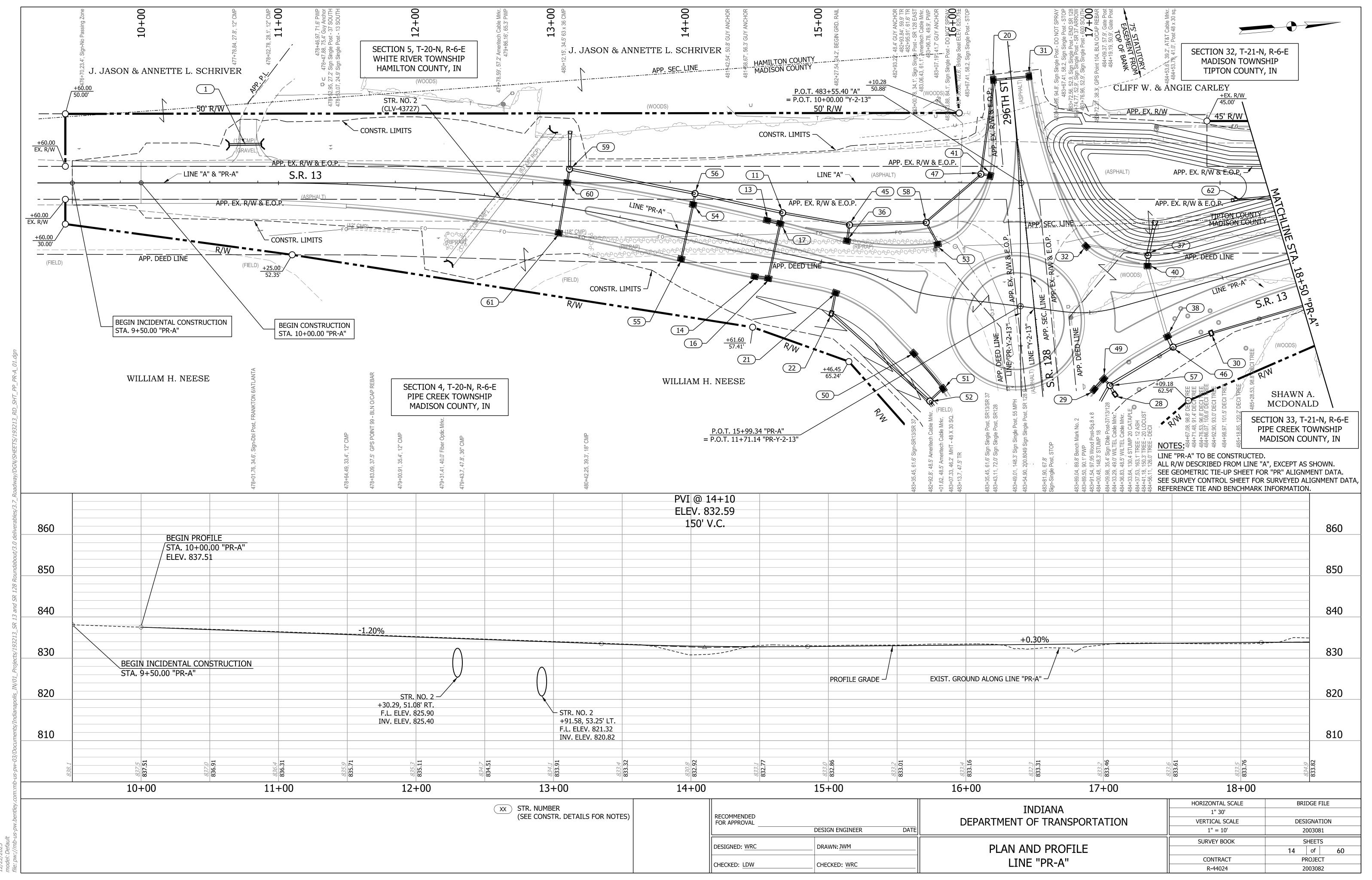
C CONFIRMING D.R.M.A.

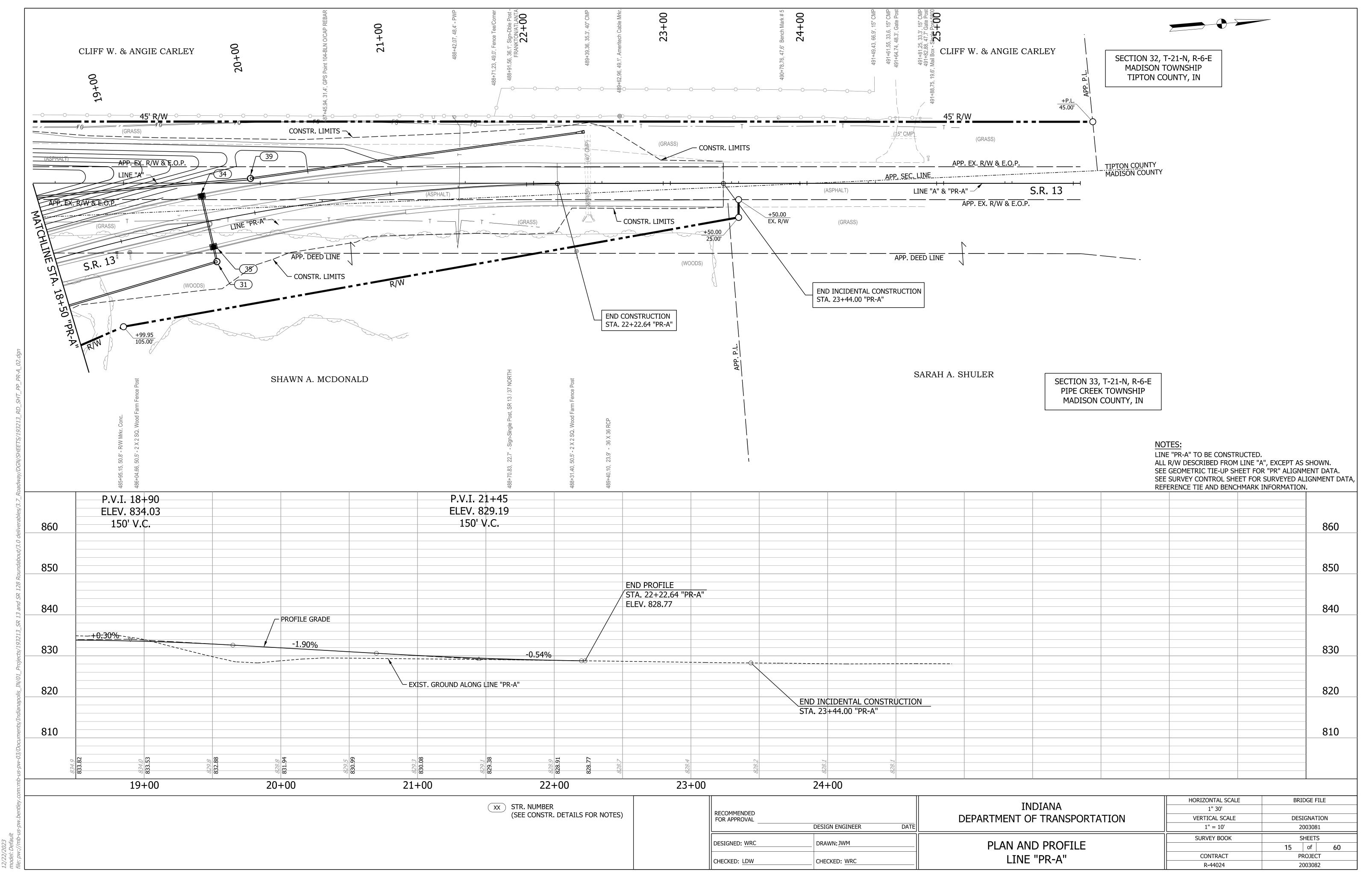
) END D.R.M.A.

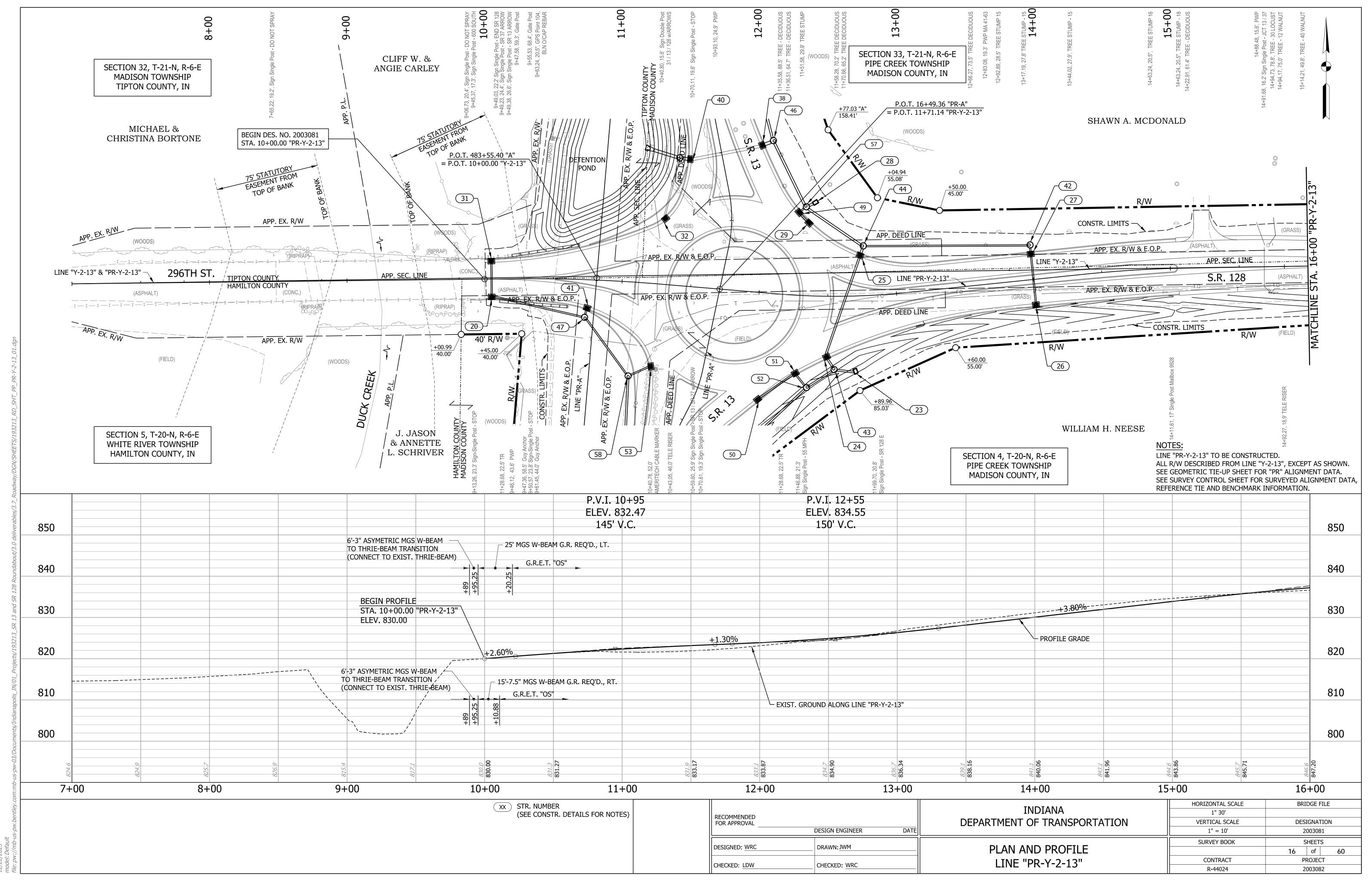
#### NOTES:

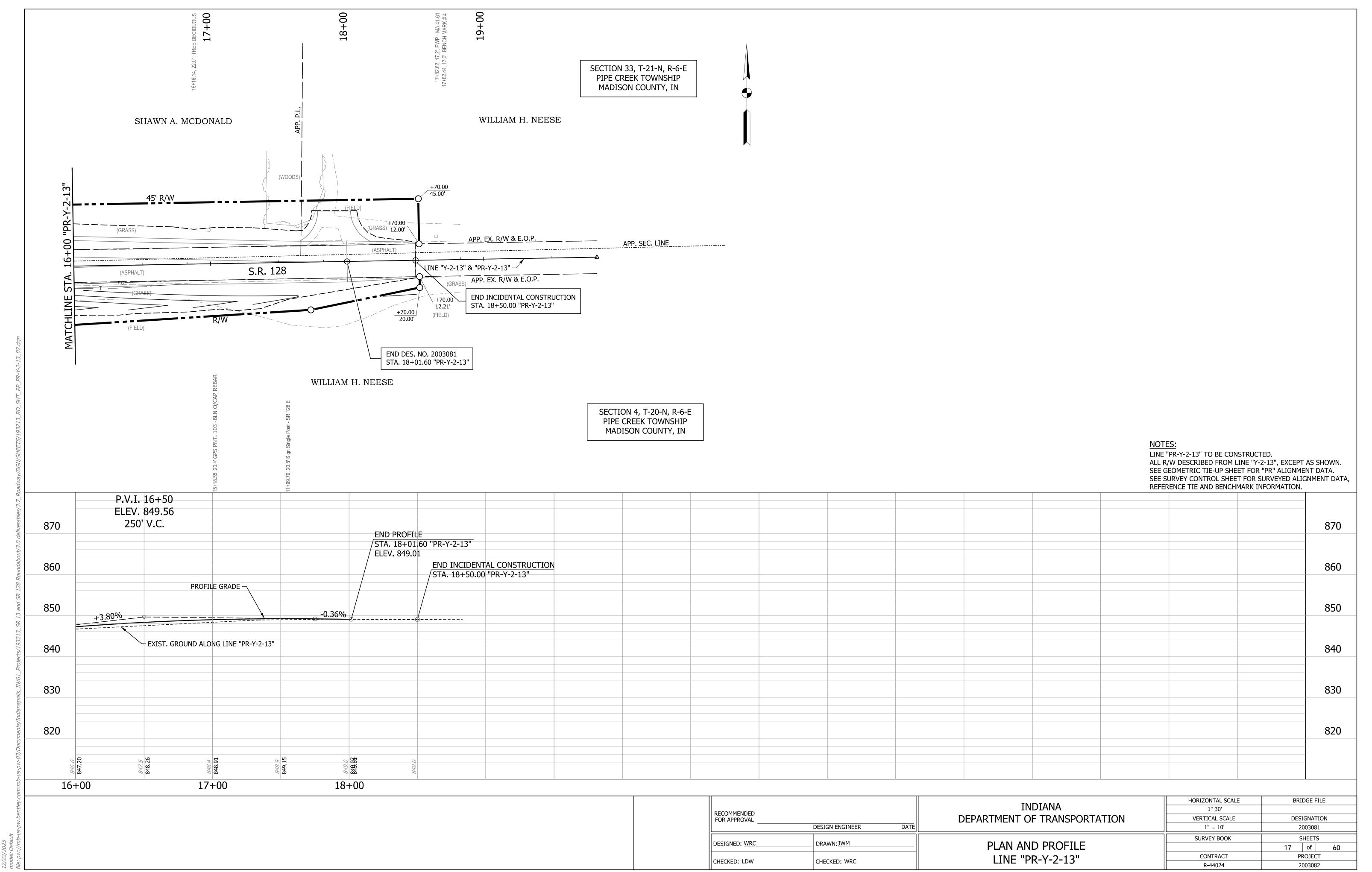
- FOR DETOUR ROUTE MARKER ASSEMBLIES A, B, C, AND D, SEE STANDARD DRAWING E801-TCDT-03.
- 2. ALSO SEE INDOT STANDARD DRAWINGS E801-TCDV, E801-TCLG AND E801-TCSN FOR FURTHER DETAILS OF TRAFFIC CONTROL SIGNS AND PLACEMENT.
- 3. POSTED SPEED LIMIT ON SR 213 IS 55 MPH IN RURAL SECTION AND 45 MILES PER HOUR IN URBAN SECTION.
  POSTED SPEED LIMIT ON E 281ST ST IS 45 MPH.
  POSTED SPEED LIMIT ON SR13/37 IS XX MPH.
- 4. ADJACENT DRIVEWAY ACCESS TO REMAIN OPEN AT ALL TIMES.

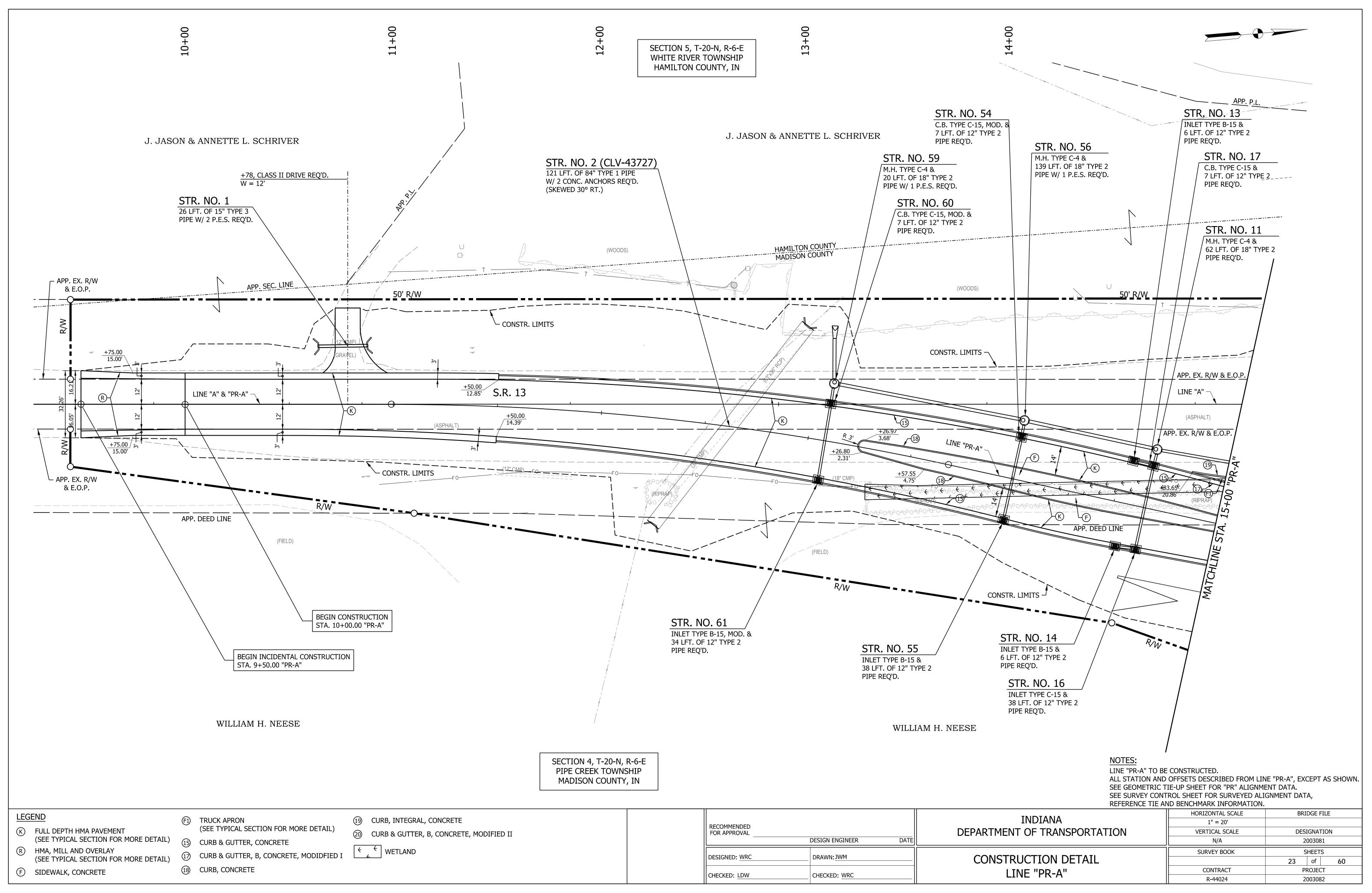
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION  MAINTENANCE OF TRAFFIC DETOUR ROUTE E 296TH ST. (PHASE II & III)	HORIZONTAL SCALE  1"=2000'  VERTICAL SCALE  N/A	BRIDGE FILE  DESIGNATION  2003081
DESIGNED: AGO	DRAWN: JEC		SURVEY BOOK	SHEETS 13 of 60
CHECKED: WRC	CHECKED: WRC		CONTRACT R-44024	PROJECT 2003082

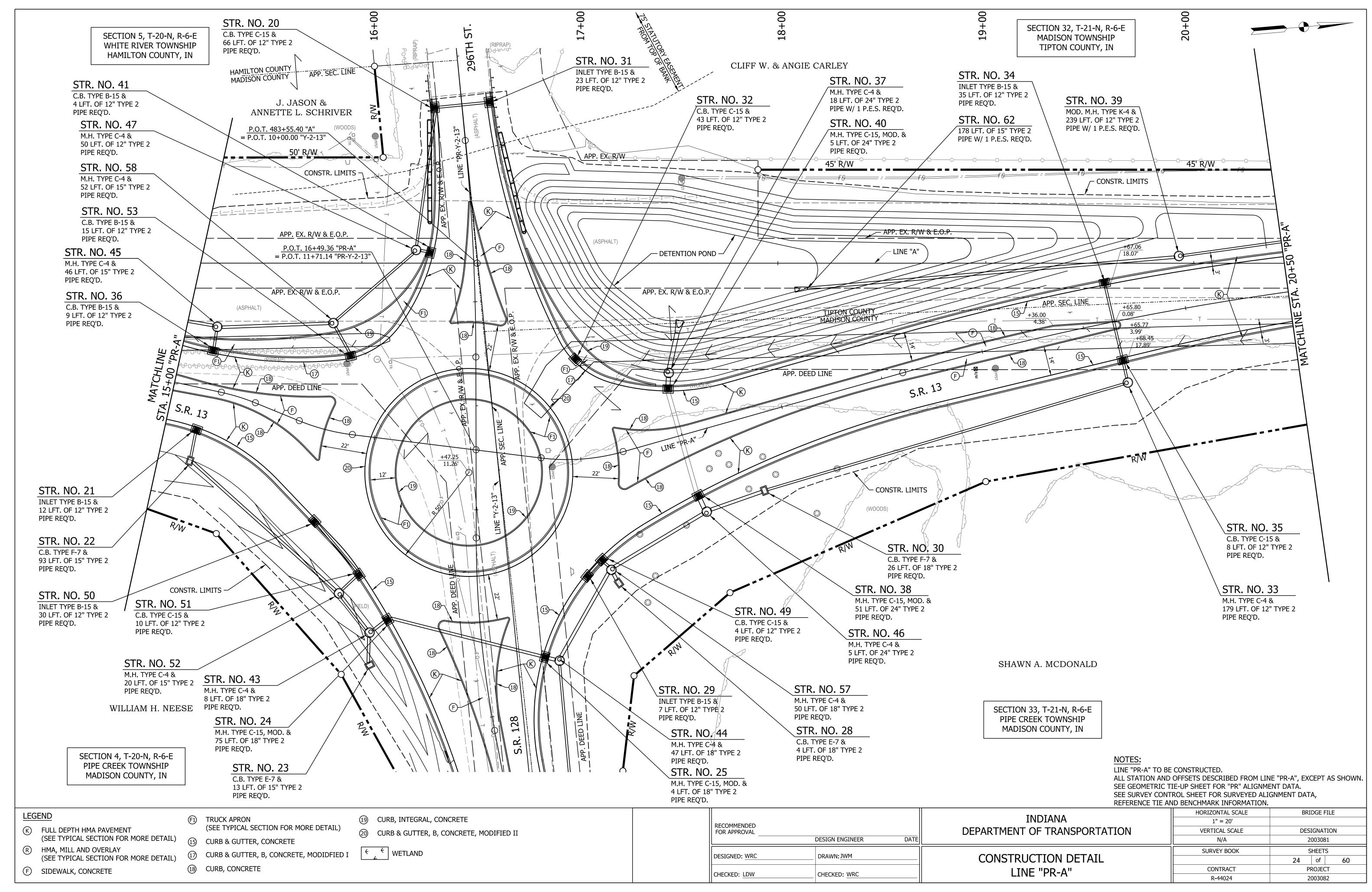


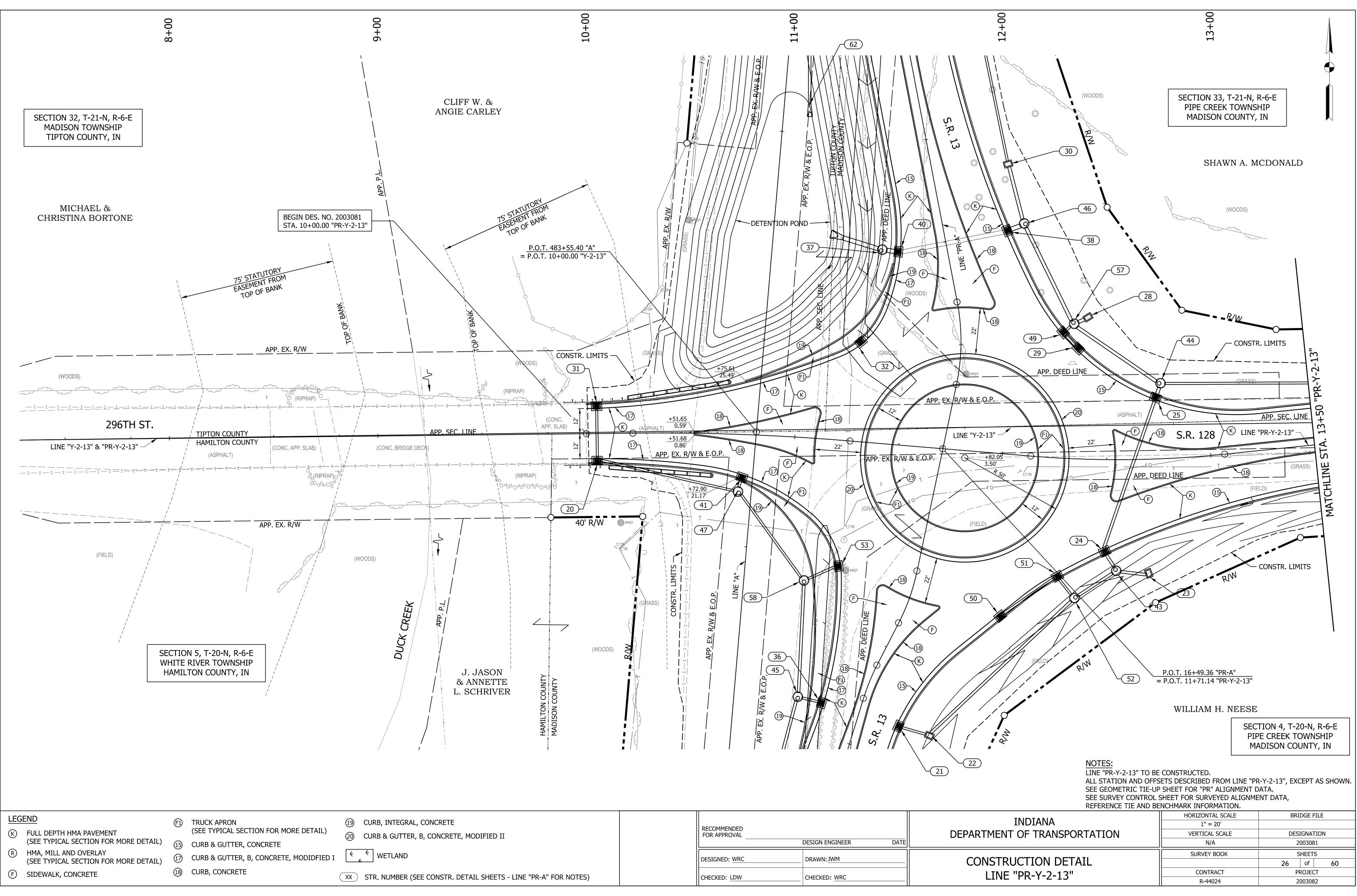


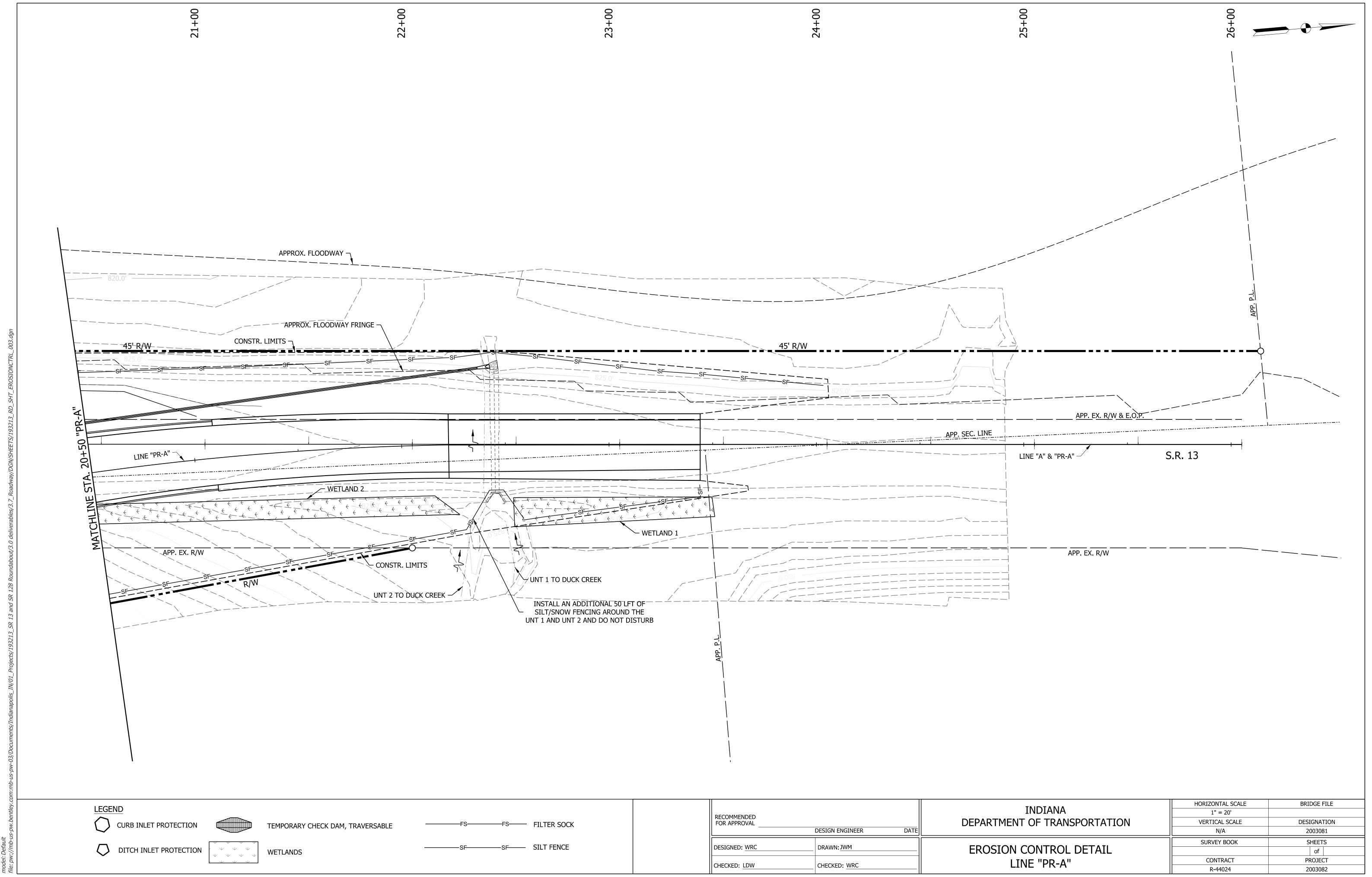


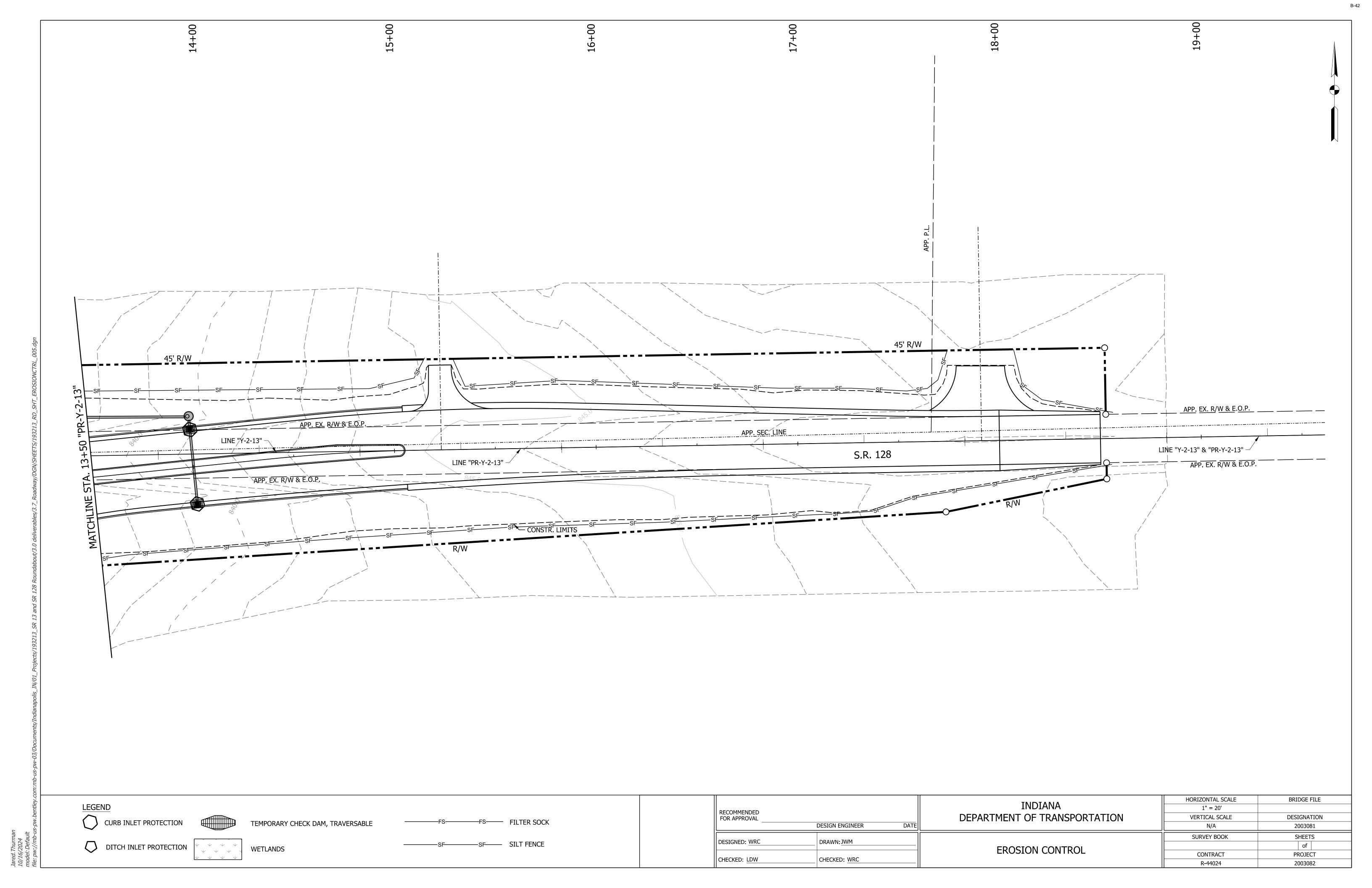












**BRIDGE FILE** 

DESIGNATION

2003081

SHEETS

of

PROJECT

2003082

SURVEY BOOK

CONTRACT

R-44024

PAVEMENT MARKINGS AND SIGNAGE

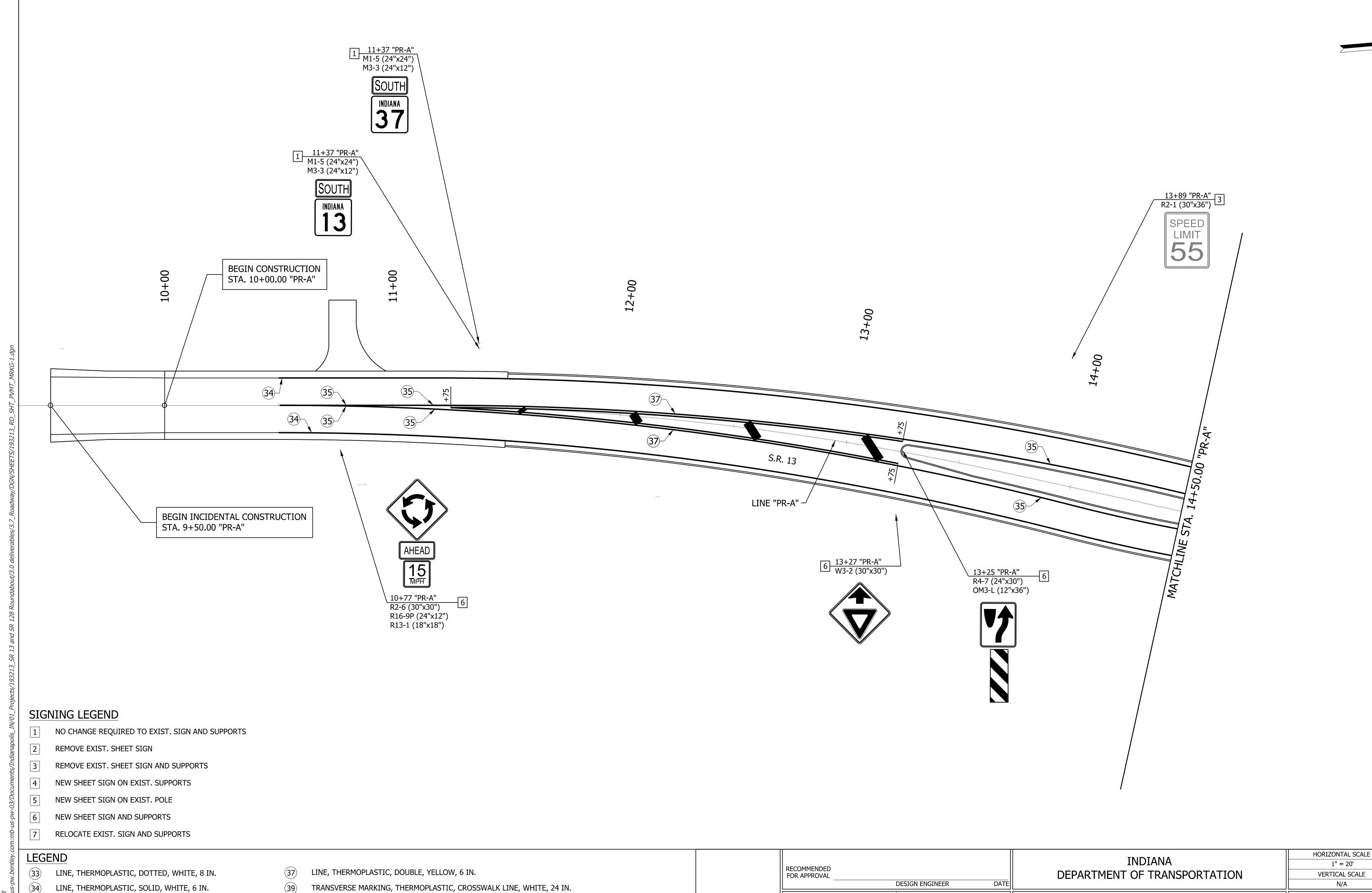
LINE "PR-A"

DRAWN: JEC

CHECKED: WRC

DESIGNED: WRC

CHECKED: AGO



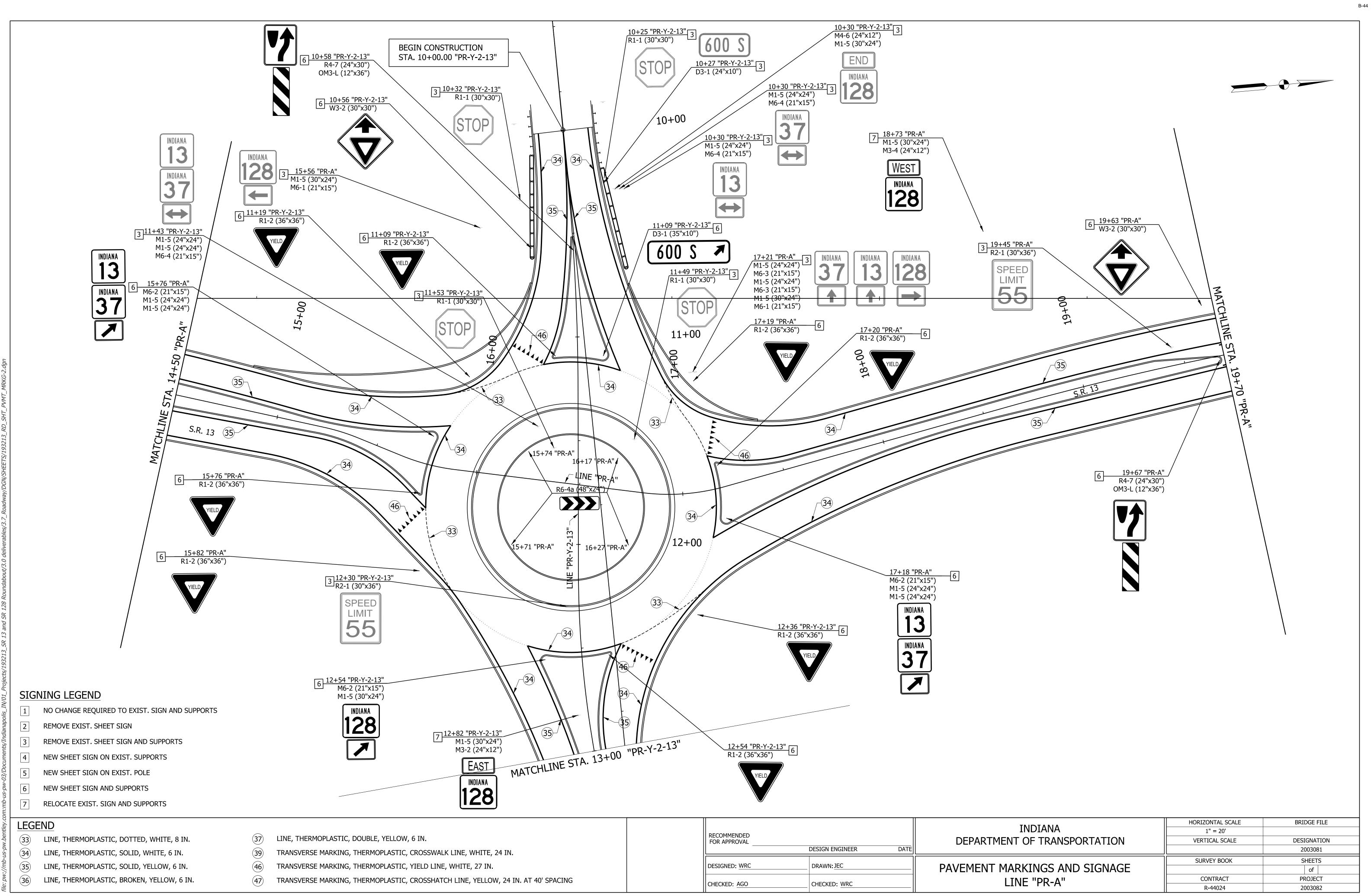
Jared.Thurman 10/15/2024 model: Default

LINE, THERMOPLASTIC, SOLID, YELLOW, 6 IN.

LINE, THERMOPLASTIC, BROKEN, YELLOW, 6 IN.

TRANSVERSE MARKING, THERMOPLASTIC, YIELD LINE, WHITE, 27 IN.

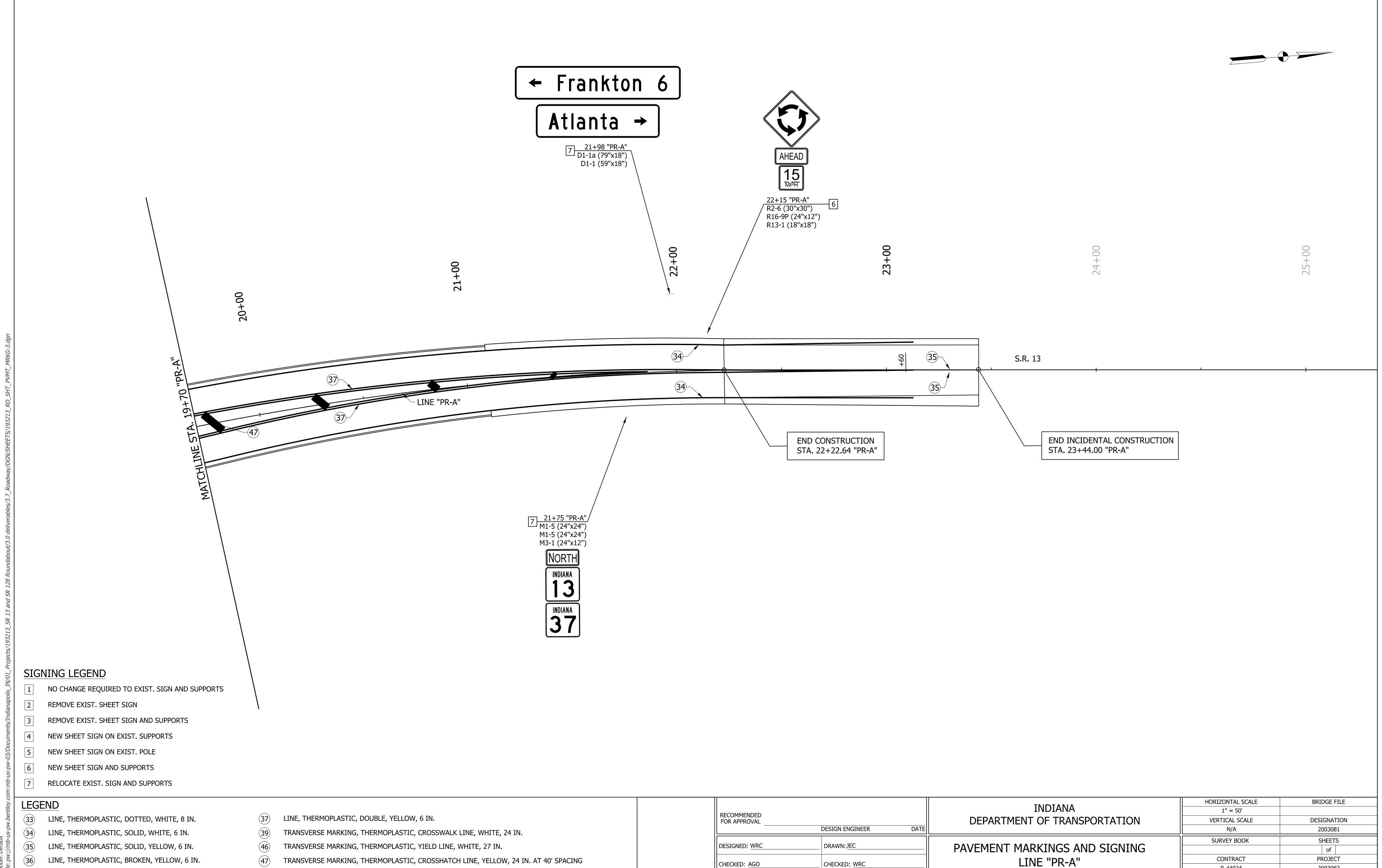
TRANSVERSE MARKING, THERMOPLASTIC, CROSSHATCH LINE, YELLOW, 24 IN. AT 40' SPACING

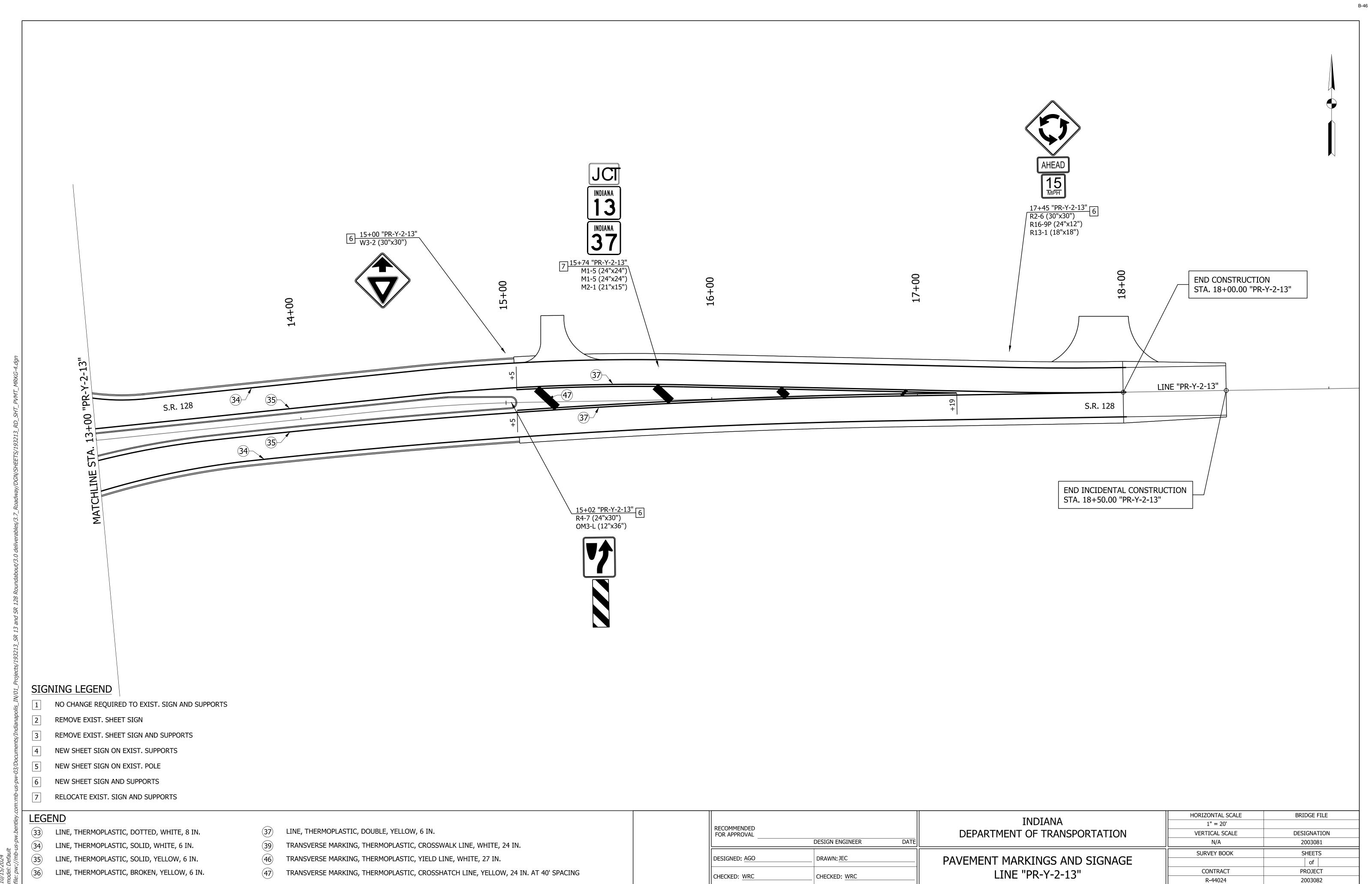


Jared.Thurman 10/15/2024 model: Default

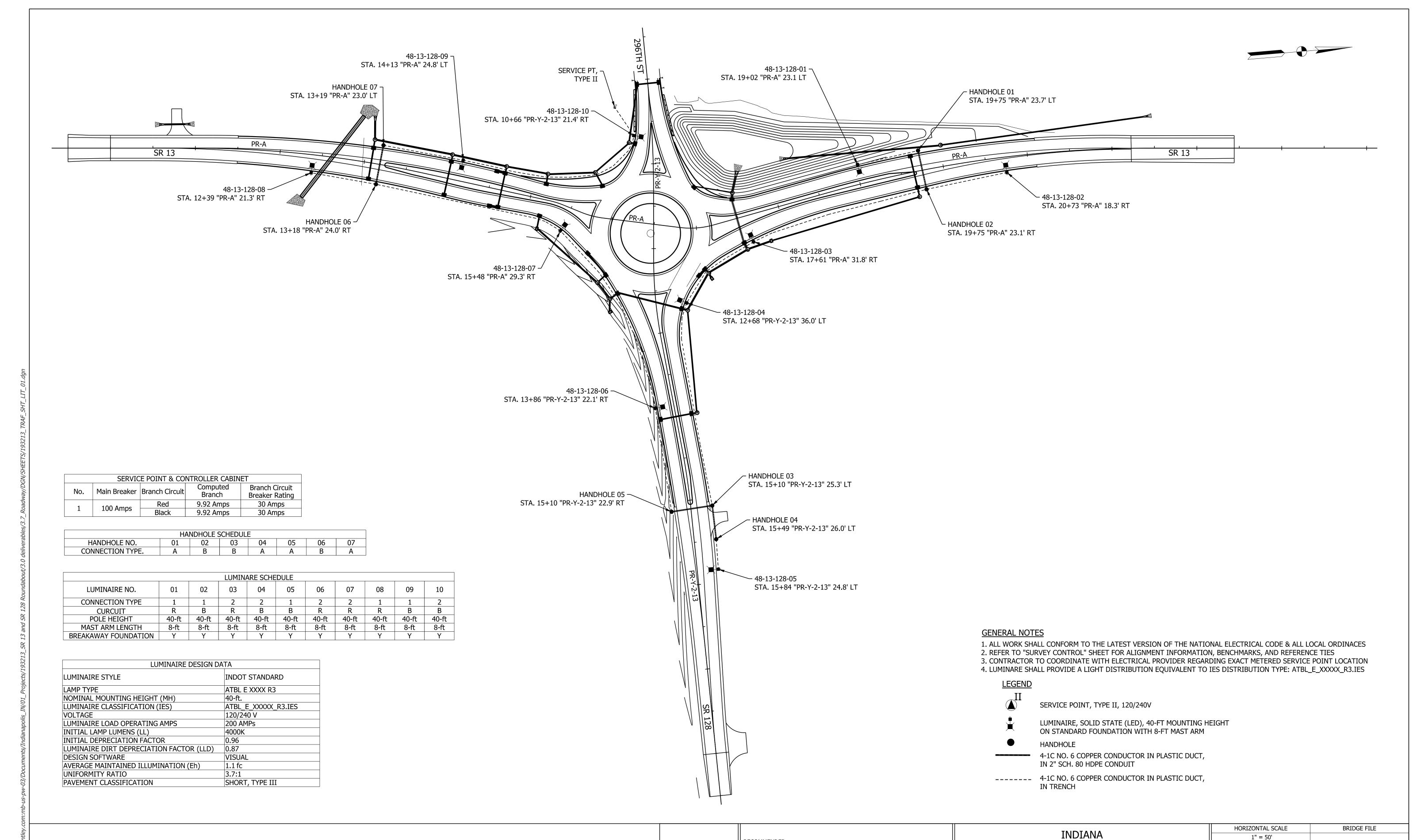
R-44024

2003082





Jared.Thurman 10/15/2024 model:Default



RECOMMENDED

DEPARTMENT OF TRANSPORTATION VERTICAL SCALE DESIGNATION FOR APPROVAL DESIGN ENGINEER DATE N/A 2003081 SURVEY BOOK SHEETS DESIGNED: WRC DRAWN: JWM LIGHTING DETAILS of CONTRACT PROJECT S.R. 13 CHECKED: LDW CHECKED: WRC R-44024 2003082

## **APPENDIX C**

Early Coordination

### INDIANA DEPARTMENT OF TRANSPORTATION



100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (317) 694-8283

**Eric Holcomb, Governor Michael Smith, Commissioner** 

### **SAMPLE**

July 10, 2023

Re: Early Coordination Letter, Des. No.: 2003081, Intersection Improvement Project, SR 13 at

SR 128

Hamilton, Madison, and Tipton Counties, Indiana

KEG No. 21-1155.03

Dear Interested Party,

The Indiana Department of Transportation (INDOT), with federal funding, intends to proceed with a project involving the aforementioned roadway in Hamilton, Madison, and Tipton Counties. 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 number and description in your reply**. We will incorporate your comments into a study of the project's environmental impacts.

This project is located at the intersection of SR 13 and SR 128 and with E 296<sup>th</sup> Street to the west, in Hamilton, Madison, and Tipton Counties. This section of SR 13 and SR 128 is a two-lane *Rural-Minor-Arterial*. The existing SR 13 and SR 128 approaches consist of two 12' travel lanes bordered by 2' paved shoulders. The existing intersection is a two-way stop-controlled intersection. The draft need is due to the above average crash severity at the intersection. Per RoadHAT analysis (INDOT traffic engineering safety modeling software) of 2017-2019 crash data, the index of crash frequency (ICF) is 1.90 (well above average) and the index of crash cost (ICC) is 2.31 (well above average). These indices compare the crash cost and crash frequency for this intersection to intersections with similar volumes, roadway classifications, and control type throughout Indiana. The ICC and ICF exceed the threshold of 1.00 set by INDOT's Office of Traffic Safety, flagging the intersection as a safety concern. The draft purpose is to reduce crash potential at the intersection, improve the ICC and ICF to below 1.00, and provide a long-term solution to ensure safe and efficient operation of the intersection. The approximate existing right-of-way (ROW) from each side of centerline is 12' for SR 128, 40' for E 296<sup>th</sup> Street, and 12' for SR 13.

The proposed project is anticipated to include replacing the existing two-way stop with a single-lane roundabout (RAB). The RAB will include raised concrete islands, a center truck apron, and outside truck aprons in the northwest and southwest quadrants, new curb and gutters, a stormwater system, new roadside ditches, and lighting. The center of the RAB will shift approximately 100' to the east to avoid impacts to the historical bridge over Duck Creek located 100' west of the center of the current intersection. The project requires the acquisition of approximately 3.26 acres of permanent ROW. Proposed ROW widths from centerline along SR 13 are 60' and along SR 128 are 45'. The project will be approximately 1,360' in length along SR 13 and 800' in length along 296<sup>th</sup> Street/SR 128. The proposed method of traffic maintenance is anticipated to include lane shifts, lane closures, and detours. Approximately 0.96 acre of trees will be cleared as part of this project. The project is anticipated to begin construction in Spring 2026.

Land use in the vicinity of the project is primarily forested and agricultural, with residence in relative proximity to the northwest, northeast, and southwest quadrants of the project. Kaskaskia Engineering Group, LLC will perform waters and wetlands determinations to identify water resources that may be present. The project is anticipated to qualify for the Rangewide 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 me, at 217-213-3046 or jstern@kaskaskiaeng.com, or Kim Szewczak, INDOT Project Manager at 317-289-3193 or kszewczak@indot.in.gov. Thank you in advance for your input.

Sincerely,

Jessica Stern

**Environmental Scientist** 

Kaskaskia Engineering Group, LLC

#### Attachment -

- Early Coordination Letter Recipient List
- Maps (Location, Aerial, Topographic)
- Photo Log

cc: Tom Heustis, Kimley-Horn Kate Williams, Kimley-Horn Curtis William, Michael Baker International



## **Organization and Project Information**

21-1155.03 **Project ID:** Des. ID: DES 2003081

**Project Title: Intersection Improvement Project** Name of Organization: Kaskaskia Engineering Group

Requested by: JESSICA STERN

# **Environmental Assessment Report**

- 1. Geological Hazards:
  - Moderate liquefaction potential
  - Floodway
- 2. Mineral Resources:
  - Bedrock Resource: High Potential
  - Sand and Gravel Resource: Low Potential
- 3. Active or abandoned mineral resources extraction sites:
  - Petroleum Exploration Wells

#### **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

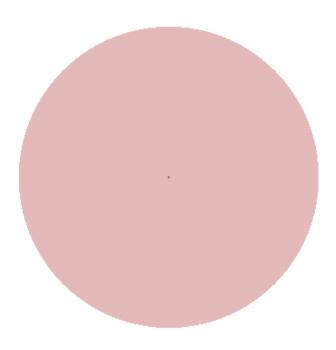
Address: 1001 E. 10th St., Bloomington, IN 47405

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428 Date: July 10, 2023

<sup>\*</sup>All map layers from Indiana Map (maps.indiana.edu)







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

July 20, 2023

Jessica Stern Environmental Scientist 301 N Neil St STE 400 Champaign, Illinois 61820

Dear Ms. Stern:

The proposed Intersection Improvement Project, SR 13 at SR 128 in Hamilton, Madison and Tipton Counties, Indiana (Des. No. 2003081), as referred to in your letter received July 10, 2023, 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: 2023.07.20 13:18:12 -04'00'

JOHN ALLEN
State Soil Scientist

**Enclosers** 

FAR	U.S. Department	ŭ		ATING			
PART I (To be completed by Federal Agency)		Date Of La	and Evaluation	Request			
Name of Project DES2003081_SR13 I	ntersec Improv (Hai	Federal A	gency Involved				
Proposed Land Use	, , , , , , , , , , , , , , , , , , ,		d State Hami	ton County	, IN		
PART II (To be completed by NRCS)		Date Requ	uest Received	Ву	Person C JRA	ompleting Fo	rm:
Does the site contain Prime, Unique, Statewide	or Local Important Farmland	? Y	ES NO	Acres I	rrigated	_	Farm Size
(If no, the FPPA does not apply - do not comple	te additional parts of this form	n)	✓ 📙			218 ac	
Major Crop(s)	Farmable Land In Govt.					Defined in FI	PPA
Corn	Acres: 175655 % 68		a a mat. Ou santa ma		94 <u>1</u> % 6		D00
Name of Land Evaluation System Used LESA	Name of State or Local S	oite Assessn	nent System	7/20/23		eturned by N	KUS
PART III (To be completed by Federal Agency)	·			Cito A	Alternative Site B	Site Rating	Cito D
A. Total Acres To Be Converted Directly				Site A	Site B	Site C	Site D
B. Total Acres To Be Converted Indirectly				0			
C. Total Acres In Site				0			
PART IV (To be completed by NRCS) Land Ev	valuation Information						
A. Total Acres Prime And Unique Farmland				0.12			
B. Total Acres Statewide Important or Local Imp	oortant Farmland			0.00			
C. Percentage Of Farmland in County Or Local	Govt. Unit To Be Converted			<0.001			
D. Percentage Of Farmland in Govt. Jurisdiction	With Same Or Higher Relati	ve Value		137			
PART V (To be completed by NRCS) Land Ev. Relative Value of Farmland To Be Conve		3)		67			
PART VI (To be completed by Federal Agency, (Criteria are explained in 7 CFR 658.5 b. For Cort		CPA-106)	Maximum Points	Site A	Site B	Site C	Site D
Area In Non-urban Use			(15)	10			
2. Perimeter In Non-urban Use			(10)	8			
Percent Of Site Being Farmed			(20)	5			
Protection Provided By State and Local Gov	ernment		(20)	0			
5. Distance From Urban Built-up Area			(15)	7			
6. Distance To Urban Support Services			(15)	4			
7. Size Of Present Farm Unit Compared To Av	erage		(10)	1			
8. Creation Of Non-farmable Farmland			(5)	1			
Availability Of Farm Support Services			(20)	1			
10. On-Farm Investments			(10)	1			
11. Effects Of Conversion On Farm Support Se	rvices		(10)	8			
12. Compatibility With Existing Agricultural Use TOTAL SITE ASSESSMENT POINTS			160	47	0	0	0
PART VII (To be completed by Federal Ager	ncv)			47	U	0	0
Relative Value Of Farmland (From Part V)	cyj		100	67	0	0	0
Total Site Assessment (From Part VI above or I	ocal site assessment)		160	47	0	0	0
TOTAL POINTS (Total of above 2 lines)			260	114	0	0	0
,						sment Used?	_
	te Of Selection			YE	s	NO	
Reason For Selection:  Name of Federal agency representative completing	no this form: Jessica St	ern			n	ate: 8/29/2	23

F.	U.S. Departmen	-		TING			
PART I (To be completed by Federal Agend	cy)	Date Of L	and Evaluation	Request			
Name of Project DES2003081_SR1	3 Intersec Improv (Tip	Federal A	gency Involved				
Proposed Land Use			nd State Tiptor	County, IN	1		
PART II (To be completed by NRCS)		Date Requ	uest Received B	Зу	Person Co	ompleting For	m:
Does the site contain Prime, Unique, Statev	vide or Local Important Farmland	? Y	ES NO	Acres Ir	rigated	_	Farm Size
(If no, the FPPA does not apply - do not cor	•		$\checkmark$			399 ac	
Major Crop(s)  Corn	Farmable Land In Govt. J					Defined in FF	PPA
Name of Land Evaluation System Used	Acres: 166,225% 10  Name of State or Local S		nont System		588% 1	eturned by NF	200
LESA	Name of State of Local S	ile Assessi	nent System	7/20/23	valuation R	elumed by Ni	<b>303</b>
PART III (To be completed by Federal Age	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				0		1	
C. Total Acres In Site				0			
PART IV (To be completed by NRCS) Lan	d Evaluation Information			0			
A. Total Acres Prime And Unique Farmland				0.44			
B. Total Acres Statewide Important or Local	Important Farmland			0.14			
C. Percentage Of Farmland in County Or Lo	·			0.00		+	
D. Percentage Of Farmland in Govt. Jurisdie		ve Value		<0.001			
PART V (To be completed by NRCS) Land		ve value		60			
Relative Value of Farmland To Be Co	onverted (Scale of 0 to 100 Points	s)		75			
PART VI (To be completed by Federal Age (Criteria are explained in 7 CFR 658.5 b. For		CPA-106)	Maximum Points	Site A	Site B	Site C	Site D
Area In Non-urban Use			(15)	7			
2. Perimeter In Non-urban Use			(10)	8			
3. Percent Of Site Being Farmed			(20)	1			
4. Protection Provided By State and Local	Government		(20)	0			
5. Distance From Urban Built-up Area			(15)	7			
6. Distance To Urban Support Services			(15)	7			
7. Size Of Present Farm Unit Compared To	Average		(10)	1			
8. Creation Of Non-farmable Farmland			(10)	1			
9. Availability Of Farm Support Services			(5)	1			
10. On-Farm Investments			(20)	1			
11. Effects Of Conversion On Farm Support	Services		(10)	1			
12. Compatibility With Existing Agricultural I	Jse		(10)	1			
TOTAL SITE ASSESSMENT POINTS			160	36	0	0	0
PART VII (To be completed by Federal A	gency)						
Relative Value Of Farmland (From Part V)			100	75	0	0	0
Total Site Assessment (From Part VI above	or local site assessment)		160	36	0	0	0
TOTAL POINTS (Total of above 2 lines)			260	111	O L Sita Assas	0 sment Used?	0
Site Selected:	Date Of Selection			YES		NO NO	
Reason For Selection:							
Name of Federal agency representative comp	eleting this form: Jessica St	ern			Da	ate: 8/29/2	23

F	U.S. Departme	ū		ATING			
PART I (To be completed by Federal Agen	су)	Date Of L	and Evaluation	Request			
Name of Project DES2003081_SR1	3 Intersec Improv (Ma	Federal A	gency Involved				
Proposed Land Use			nd State Madis	son County,	, IN		
PART II (To be completed by NRCS)		Date Requ	uest Received	Ву	Person C	ompleting Fo	rm:
Does the site contain Prime, Unique, State	vide or Local Important Farmland	? Y	ES NO	Acres II	rigated	_	Farm Size
(If no, the FPPA does not apply - do not co	mplete additional parts of this form	n)   [	$\checkmark$			312 ac	
Major Crop(s)	Farmable Land In Govt.					Defined in FF	PPA
Corn	Acres:281875 % 9			Acres: 27	0,12%	13	
Name of Land Evaluation System Used LESA	Name of State or Local S	Site Assessn	nent System	7/20/23	Evaluation R	eturned by N	RCS
PART III (To be completed by Federal Age	ncy)			0:4- 4		Site Rating	0:4 - D
A. Total Acres To Be Converted Directly				Site A 0.72	Site B	Site C	Site D
B. Total Acres To Be Converted Indirectly				0.72		1	
C. Total Acres In Site				0.72			
PART IV (To be completed by NRCS) Lan	d Evaluation Information			0.12			
A. Total Acres Prime And Unique Farmland				1.60			
B. Total Acres Statewide Important or Loca				0.00			
C. Percentage Of Farmland in County Or Lo	ocal Govt. Unit To Be Converted			<0.001			
D. Percentage Of Farmland in Govt. Jurisdi	ction With Same Or Higher Relati	ive Value		80			
PART V (To be completed by NRCS) Land Relative Value of Farmland To Be C		s)		73			
PART VI (To be completed by Federal Age (Criteria are explained in 7 CFR 658.5 b. For	ncy) Site Assessment Criteria		Maximum Points	Site A	Site B	Site C	Site D
Area In Non-urban Use			(15)	7			
Perimeter In Non-urban Use			(10)	8			
3. Percent Of Site Being Farmed			(20)	10			
4. Protection Provided By State and Local	Government		(15)	0			
5. Distance From Urban Built-up Area			(15)	7			
6. Distance To Urban Support Services			(10)	/		-	
7. Size Of Present Farm Unit Compared To	Average		(10)	8			
8. Creation Of Non-farmable Farmland			(5)	1			
9. Availability Of Farm Support Services			(20)	1			
<ul><li>10. On-Farm Investments</li><li>11. Effects Of Conversion On Farm Suppor</li></ul>	t Sorvices		(10)	1		+	
12. Compatibility With Existing Agricultural			(10)	5		1	
TOTAL SITE ASSESSMENT POINTS			160	56	0	0	0
PART VII (To be completed by Federal A	gency)			30	0	0	
Relative Value Of Farmland (From Part V)	gonoy		100	73	0	0	0
Total Site Assessment (From Part VI above	or local site assessment)		160	56	0	0	0
TOTAL POINTS (Total of above 2 lines)	·		260	129	0	0	0
Site Selected:	Date Of Selection		1	Was A Loca		sment Used?	•
Reason For Selection:				1 =	<u> </u>		
Name of Federal agency representative comp	pleting this form: Jessica St	ern			Da	ate: 8/29/2	23

# IDEM 1556

#### 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

July 25, 2023

Kaskaskia Engineering Group, LLC Attention: Jessica Stern 301 North Neil Street, Suite 400 Champaign, IL 61820

Dear Jessica Stern:

Re: Wellhead Protection Area
Proximity Determination
Des No 2003081
Intersection Improvement Project,
SR 13 at SR 128
Hamilton, Madison, and Tipton Counties, 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 Citizens Water – Indianapolis. A contact person for Citizens Water – Indianapolis is John Havard, and he could be reached via e-mail and/or phone at: JHavard@citizensenergygroup.com and 317-693-8716. 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 <a href="https://www.in.gov/idem/cleanwater/pages/wellhead/">https://www.in.gov/idem/cleanwater/pages/wellhead/</a> and use the instructions at the bottom of the page.



Jessica Stern 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: John Havard, Citizens Water – Indianapolis

#### THIS IS NOT A PERMIT

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

Early Coordination/Environmental Assessment

**DNR#:** ER-25750

Request Received: July 10, 2023

#### Requestor:

Jessica Stern Kaskaskia Engineering Group, LLC 301 North Neil Street, Suite 400 Champaign, IL 61820

#### **Project:**

SR 13 & SR 128 roundabout construction; KEG #21-1155.03, Des #2003081

County/Site Info: Hamilton 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:**

If any work is in the floodway of Duck Creek, the proposal will require the formal approval for construction in a floodway under the Flood Control Act, IC 14-28-1. Please submit a copy of this letter with the permit application.

#### Natural Heritage Database:

The Natural Heritage Program's data have been checked. The Little Spectaclecase (*Villosa lienosa*), a Species of Special Concern in Indiana, has been documented within 0.5 miles of the project site.

#### **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) Heritage Species:

Direct impacts to Little Spectaclecase should be minimal due to this project. Ensure appropriate erosion and sediment control measures are in place to prevent sediment from entering nearby waterways.

#### B) Lighting:

Most transportation corridor designers and municipalities are trending toward LED lighting. Certain types of LED lighting can have negative impacts on both human and wildlife health and safety. Scientific evidence suggests that artificial light at night has negative and deadly effects on many organisms including amphibians, birds, mammals, insects and plants (https://www.darksky.org/light-pollution/wildlife/). A June 2016 American Medical Association (AMA) report, "Human and Environmental Effects of Light Emitting Diode Community Lighting," concluded that "white LED street lighting patterns may contribute to the risk of chronic disease in the populations of cities in which they have been installed."

The International Dark-Sky Association has developed recommendations (https://www.darksky.org/our-work/lighting/lighting-for-citizens/led-guide/) for communities choosing LED lighting systems that will aid in the selection of lighting that is energy and cost efficient, yet ensures safety and security, protects wildlife, and promotes the goal of reducing light pollution:

- Always choose fully shielded fixtures that emit no light upward.
- Use "warm-white" or filtered LEDs (CCT < 3,000 K; S/P ratio < 1.2) to minimize harmful blue light emission.
- Look for products with adaptive controls like dimmers, timers, and motion sensors.
- Consider dimming or turning off lights during non-peak overnight hours.
- Avoid the temptation to over-light because of the higher luminous efficiency of LEDs.
- Only light the exact space and in the amount required for particular tasks.

#### C) Pavement Rehabilitation:

Pavement rehabilitation projects typically do not have a significant impact on fish, wildlife, and botanical resources as long as best management practices (BMPs) are in place to limit the migration of Polycyclic aromatic hydrocarbons (PAHs) into local waterways. PAHs are a byproduct of asphalt and coal tar based sealants and negatively impact aquatic systems. The use of sealants that are free of petroleum and coal tar based products is encouraged whenever possible. Contaminated road runoff can significantly impact the aquatic environment through increased turbidity and release of sediment into the stream which can be harmful to fish and other aquatic organisms, their eggs, and their food supply. Where possible, road runoff should be directed to riprap turnouts and sediment filtration prior to entering a stream to reduce impacts to aquatic species. We recommend the use of pollutant trapping technology such as storm drain inserts to reduce the runoff of roadside pollutants.

#### D) Drainage and Stormwater Management:

The Division of Fish and Wildlife recommends considering a more sustainable approach to stormwater management. The traditional model of stormwater management aims to drain runoff as quickly as possible with the help of channels and pipes, which increases peak flows and costs of stormwater management. This type of solution only transfers drainage problems from one section of a basin to another. A more sustainable approach should aim to rebuild the natural water cycle by using storage techniques (retention basins, constructed wetlands, raingardens, etc.) and recharging groundwater using infiltration techniques (infiltration basins or trenches, pervious pavement, etc.). The following links give a good overview of traditional and sustainable stormwater management systems and their pros and cons for consideration during the design of the proposed project: https://www.epa.gov/greeningepa/epa-facility-stormwater-management; https://www.epa.gov/greeningepa/stormwater-management-practices-epa-facilities

#### E) Duck Creek Stream Crossing:

The submittal indicates that the roundabout will be shifted to the east to avoid impacts to the existing structure carrying SR 128 over Duck Creek. Following are general guidelines for any work that might be proposed at the existing structure location if plans change over time.

Bridges are preferred over culverts, and three-sided culverts are preferred over box or pipe culverts. Multiple culverts or culverts with multiple openings are not recommended for approval. These types of structures are often problematic for fish and wildlife passage as they tend to accumulate debris and become blocked. If box and pipe culverts are used, the culvert bottoms should be sumped a minimum of 6" (or 20% of the culvert height or diameter, whichever is greater up to a maximum of 2") below the stream bed elevation. Sumping is not required for bridges or three-sided culverts. Crossings must span the entire channel width (a minimum of 1.2 times the ordinary high water mark width). Crossings must maintain the natural stream substrate within the structure (natural stream substrate must be replaced in sumped box and pipe culverts up to the existing flowline). Scour protection at the inlet and outlet must not extend above the existing flowline elevation. Stream depth, channel width and water velocities in the crossing structure during low-flow conditions must approximate those in the natural stream channel.

The new/replacement/rehabilitated crossing structure, and any bank stabilization under or around the structure, must not create conditions that are less favorable for wildlife passage when compared to existing conditions. Upgrading wildlife passage for replacement/rehabilitated structures is recommended whenever possible to

improve wildlife/vehicle safety. White-tailed deer passage must be incorporated into all new structures where no structure previously existed. Minimum structure dimensions for white-tailed deer passage are 20 feet of width clearance (overall span of the structure) and 8 feet of height clearance measured from the OHWM. Bank lines must be maintained or restored within structures to allow for wildlife passage above the ordinary high water mark. All wildlife passage designs must include a smooth level pathway a minimum of 1-3 feet in width composed of natural substrate (soil, sand, gravel, etc.) or compacted aggregate fill over riprap (#2, #53, #73, etc.) tied into existing elevations both upstream and downstream. The width and location of the wildlife pathway is dependent on the wildlife species using the area. There are a number of techniques and materials for incorporating wildlife passage into the design of a crossing structure if maintaining or restoring banklines is not possible. Coordination with a Regional Environmental Biologist to address wildlife passage issues before submitting a permit application (if required) is encouraged to avoid delays in the permitting process. The following links are good resources to consider in the design of stream crossing structures to maintain fish and wildlife passage: https://www.fs.usda.gov/wildlifecrossings/library/index.php,

https://www.fhwa.dot.gov/clas/ctip/wildlife\_crossing\_structures/,

https://www.fhwa.dot.gov/engineering/hydraulics/pubs/11008/hif11008.pdf,

https://www.fs.usda.gov/ccrc/tool/fishxing-fish-passage-learning-systems.

#### F) Bank Stabilization:

Some form of bank stabilization is almost always needed with the construction, repair, replacement, or modification of a stream channel or crossing structure. For streambank stabilization and erosion control, regrading to a stable slope (2:1 or shallower) and establishing native vegetation along the banks are typically the most effective techniques. A variety of methods to accomplish this include: planting plugs, whips, container stock, seeding, and live stakes. In addition to vegetation establishment, some additional level of bioengineered bank stabilization may be needed under certain circumstances (inability to regrade to a stable slope, flow velocities that exceed the limits of vegetation alone, etc.). Combining vegetation with any of the following bank stabilization methods can provide additional bank protection while not compromising benefits to fish, wildlife, and botanical resources: geotextiles (erosion control blankets and/or turf reinforcement mats that are heavyduty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles), vegetated geogrids or soil lifts, fiber rolls, glacial stone, or riprap, Riprap or other hard bank stabilization materials should be used only at the toe of the sideslopes up to the ordinary high water mark (OHWM) with the exception of areas directly under bridges for instance. The banks above the OHWM should be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to Central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. Information about bioengineering techniques can be found at the following link to a USDA/NRCS document that outlines many different bioengineering techniques for streambank stabilization:

https://efotg.sc.egov.usda.gov/references/public/IA/Chapter-16 Streambank and Shoreline Protection.pdf.

#### G) Tree Removal Outside a Regulated Floodway:

The Division of Fish and Wildlife recommends avoiding removing trees along a roadway to the greatest extent possible and replacing trees that must be removed. Street trees are important to fish and wildlife resources in urban and rural areas. Indiana's street trees also provide millions of dollars of tangible benefits to Indiana communities by their presence in the urban environment. Their shade and beauty contribute to the quality of life. They provide significant increases in real estate values, create attractive settings for commercial businesses, and improve community neighborhood appeal. Trees decrease energy consumption by providing shade and acting as windbreaks. They reduce water treatment costs and impede soil erosion by slowing the runoff of stormwater. Trees also cool the air temperature, cleanse pollutants from the air, and produce oxygen while absorbing carbon dioxide. Trees are an integral component of the urban environment. Proactively managing and maintaining a street tree population will ultimately maximize the benefits afforded by their aesthetic and ecological functions. The following links give a good overview of the benefits of a street tree program and how to select the right species to avoid the negative impacts of non-native invasive species such as the common and popular Bradford pear: https://www.in.gov/dnr/forestry/forestry-publications-and-presentations/ (scroll down to the Community & Urban Forestry section).

H) Tree Removal Within a Regulated Floodway:

The Division of Fish and Wildlife recommends a mitigation plan be developed (and submitted with the permit application, if required) for any unavoidable habitat impacts that will occur. The DNR's Habitat Mitigation Guidelines (and plant lists) can be found online at: https://www.in.gov/nrc/files/IB-17.pdf.

Impacts to non-wetland forest of one (1) acre or more in a rural or urban area should be mitigated at a minimum 2:1 ratio based on area of impact. Impacts to non-wetland forest under one (1) acre but at least 0.10 acre in a rural or urban area should be mitigated at a minimum 1:1 ratio based on area of impact. Impacts under 0.10 acre in a rural area typically do not require mitigation or additional plantings beyond seeding and stabilizing disturbed areas, though there are exceptions for high quality habitat sites. Impacts under 0.10 acre in an urban area should be mitigated by replacing trees that are 10" diameter-at-breast height (dbh) or greater by planting five trees, 1" to 2" in dbh, for each tree which is removed that is 10" dbh or greater. Seeding and stabilizing disturbed areas is required regardless of the impact amount and location. If floodway impacts to forested wetland and non-wetland habitat areas combine to be 0.10 acres or more, mitigation should be done and coordinated with the biologist, as needed.

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

- 1. Revegetate all bare and disturbed areas that are not currently mowed and maintained with a mixture of grasses, sedges, and wildflowers native to Central Indiana 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 cut any trees suitable for Indiana Bat or Northern Long-eared Bat roosting (3 inches or greater diameter-at-breast height, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
- 5. Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds.
- 6. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
- 7. Do not use broken concrete as riprap.
- 8. Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.
- 9. Minimize the movement of resuspended bottom sediment from the immediate project area.
- 10. Do not deposit or allow 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.
- 11. 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.
- 12. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.
- 13. Plant five trees, 1 inch to 2 inches in diameter-at-breast height, for each tree which is removed that is 10 inches or greater in diameter-at-breast height.

#### **Contact Staff:**

Our agency appreciates this opportunity to be of service. Please contact me at mbuffington@dnr.in.gov or (317) 233-4666 if we can be of further assistance.

<u>Matt Buffington</u> Matt Buffington

Environmental Unit Supervisor Division of Fish and Wildlife

Date: August 9, 2023

#### **Chad Kelly**

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

**Sent:** Tuesday, July 11, 2023 6:32 AM

**To:** Jessica Stern

**Subject:** RE: Early Coordination Letter - INDOT Project, Des. No. 2003081, Intersection

Improvement, Hamilton, Madison, and Tipton Counties, Indiana [21-1155.03]

#### 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: Jessica Stern < JStern@kaskaskiaeng.com>

Sent: Monday, July 10, 2023 4:31 PM

To: Jessica Stern < JStern@kaskaskiaeng.com>

**Cc:** Molly Barletta <MBarletta@kaskaskiaeng.com>; Heustis, Tom <tom.heustis@kimley-horn.com>; Williams, Kate <Kate.Williams@kimley-horn.com>; Curtis, William <William.Curtis@mbakerintl.com>; Szewczak, Kimberly <KSzewczak@indot.IN.gov>

**Subject:** Early Coordination Letter - INDOT Project, Des. No. 2003081, Intersection Improvement, Hamilton, Madison, and Tipton Counties, Indiana [21-1155.03]

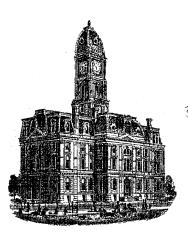
\*\*\*\* This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*\*

Dear Interested Party,

Please find attached an early coordination letter and supporting exhibits for the above referenced project.

Thank you, Jessica Stern







Kenton C. Ward, CFM Surveyor of Hamilton County Phone (317) 776-8495 Fax (317) 776-9628 Suite 188 One Hamilton County Square Noblesville, Indiana 46060-2230

July 13, 2023

Kaskaskia Engineering Group, LLC Jessica Stern 208 East Main Street, Suite 100 Belleville, IL 62220

RE: Intersection Improvement Project, S.R. 13 at S.R. 128 Des No. 2003081

I have received your Early Coordination letter dated July 10, 2023 regarding the above referenced project. I have the following comments regarding this project.

#### REGULATED DRAINS -

Please be aware that Duck Creek, located west of the intersection is a regulated drain and the Hamilton County section is under a maintenance program. It is noted that a storm water system will be included in the improvements. Any outlets into Duck Creek must be approved by the Hamilton County Surveyor's Office per IC 26-9-27-17. In addition, Hamilton County requires runoff from additional impervious surfaces be detained prior to release. The Hamilton County Stormwater Management Technical Standards Manual can be found at this link — <a href="https://www.hamiltoncounty.in.gov/documentcenter/view/1373/Hamilton-County-Stormwater-Manual-PDF">www.hamiltoncounty.in.gov/documentcenter/view/1373/Hamilton-County-Stormwater-Manual-PDF</a>.

#### FLOODPLAINS -

There are FEMA mapped floodway and floodplain associated with Duck Creek. Please be aware that Hamilton County has a prohibition against fill within the floodplain.

#### SECTION CORNERS -

There is one (1) section corner within the project limits. This section corner is one of the HARN corners established by the county. This is known as Corner Number 20060503 and a copy of the corner record is attached.

Please coordinate with Mr. Brian Rayl, P.S. in my office regarding this section corner.

#### **BENCH MARKS** –

There is one (1) benchmark within the project limits. This benchmark is located in the northwest corner of the 296<sup>th</sup> Street Bridge over Duck Creek, Tipton County Bridge No. 93. This benchmark is known as TCBR 93 and a copy of the record is attached.

Please coordinate with Mr. Brian Rayl, P.S. in my office regarding this benchmark.

Please note that the Hamilton County GIS is available online at <a href="https://www.hamiltoncounty.in.gov">www.hamiltoncounty.in.gov</a>. The online mapping may be of help to you as you develop this project.

Sincerely,

Kenton C. Ward, CFM Hamilton County Surveyor

Cc: Brian Rayl, PS John Campbell, PS

Tom Shepherd, Madison County Surveyor

KCW/pll

# HAMILTON COUNTY SURVEYOR'S OFFICE CORNER RECORD



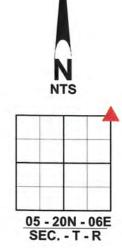


#### HARRISON FOUND AT SURFACE

Ref.	Distance				W	itness	N	Monument Ties
1.	14.41'	Mag	nail	&	washer	found	in	bridge deck in front of guardrail.
1. 2.	25.10'							SE corner of quardrail post.
3.	34.89'							NE corner of guardrail post.
4.	14.20'							bridge deck in front of guardrail.
4. 5. 6.	19.22'							bridge deck in front of guardrail.
6.	22.77							bridge deck in front of guardrail.

#### HISTORY

4-4-1990 Bernsten monument set in PVC. 6-19-2000 Bernsten monument found in PVC 6" below surface. 7-6-2007 Aluminum monument found, 0.55' below surface. 2-7-2008 Bernsten monument found in PVC casting. 6-6-2011 Harrison set at surface.



FIELD CREW:

Bob King, CST2 Scott Dykes

DATE: <u>5-18-2020</u> FB: <u>20-06</u> PG: 24-25

GEODETIC CONTROL Bob King, CST2

DATE: <u>5-18-2020</u>

SPC Indiana East 1301 NAD 83 US Survey ft.

N: \_\_\_1810512.585

E: 273461.119

NAVD 88 (GEOID12A)

ELEV: 829.44

NOTE: The Orthometric Height was determined by RTK GPS observation & Geoid model GEOID 12A

DRAWN BY:

Todd Whisman, CST1

DATE: 6-9-2020

Sheet	Indiana Tie Card References:
1	IN02_T20NE06E05_08
of	

Hamilton County Surveyor's Office
One Hamilton County Square, Suite 188 Noblesville, IN 46060
Surveyor@HamiltonCounty.IN.gov
317-776-8495

20060503

# HAMILTON COUNTY SURVEYOR'S OFFICE VERTICAL CONTROL

**STATION NAME: TCBR 93** 

Type of Monument: Hamilton County Geodetic Control Disk

Organization:

**Hamilton County Surveyor's Office** 

Section: 5 Township: 20 North Range: 6 East

Civil Township: White River USGS Quad: FRANKTON

**DESCRIPTIVE LOCATION:** 

4" Ø Brass Disk stamped Hamilton County Geodetic Control. Set in concrete at the North edge of bridge deck over Duck Creek. Located +/- 212' West of centerline of S.R. 37, and +/- 14' North of centerline of 296th Street. Year Established 2011.

**Current Field Verification** 

**DATE: 6-10-2020** 

FIELD CREW: Steve Fesmire CST

**Alex Jamieson** 

SPC Indiana East 1301

NAD 83 US Survey ft.

N: <u>1810525.246</u> E: <u>273347.734</u>

NAVD 88 (GEOID12A)

ELEV: 826.72

NOTE:

The Orthometric Height was determined by GPS (RTK) observation

& Geoid model GEOID 12A

Reported / Published

DATE: 5-18-2011

FIELD CREW: Lyle D. Branson

SPC Indiana East 1301

**NAD 83** 

N: E:

NAVD 88

ELEV: 826.85

NOTE: The Orthometric Height was established by Differential Leveling, Aerial Engineering Job B-32318-A / see attachments





#### FINAL DESCRIPTION AND ELEVATION OF BENCH MARKS State Form 52785 (8-06)

Indiana Department of Transportation Attention: Survey Operations Manager Greenfield District 32 South Broadway Street Greenfield, IN 46140 Telephone: (317) 467-3425

INSTRUCTIONS:

- 1. Familiarize yourself with the requirements on the back side of this form.

- Complete all sections and make sure that all entries are either typed, or written legibly using black ink.
   Make a rubbing and or a photograph of the bench mark.
   Submit all required materials (i.e. this form, photograph/rubbing and field notes) to the Survey Operations Manager within 30 days of establishing the elevation.

#### INDIANA DEPARTMENT OF TRANSPORTATION **GREENFIELD DISTRICT**

Bench Mark Name:	Unknown	Elevation In Feet	(International Feet)	
Date Elevation Established	05/18/2011	Contract Number	B-32318-A	
Level Datum, Check One:				
☐ NGVD 1929	☑ NAVD 1988	Other		
Elevation Established From	Which Agency, Bench N	flark Tablet Name:		
☑ NGS □	usgs 🗆 usc&d	GS Other		
Method Of Establishing Ele	evation: GPS	☑ Differential Leveling		
Does This Bench Mark Rep	olace A Bench Mark?	Yes 🗹 No		
If Yes, List The Previous B	ench Mark Name:			
Located In The NE (NW,NE,SW,SI	Quadrant Of Section	5 , Township(1-36)	, Range,	
2nd Principal Me	eridian, Whi	te River	Hamilton	
Other Description As Nece			CD 9005	
0 Miles (North)	South/East/West)	CR 600S (Major Cross Road)	OnCR 800E (Route)	_
	milton/Madison counties.	Brass disc stamped "Hamilton /- east of the edge of the approx		flush in
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#### The NGS Data Sheet

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See file dsdata.txt for more information about the datasheet.
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From: Washburn, Eric A CIV USCG D8 (USA)

To: <u>Jessica Stern</u>

Subject: RE: Early Coordination Letter - INDOT Project, Des. No. 2003081, Intersection Improvement, Hamilton, Madison,

and Tipton Counties, Indiana [21-1155.03]

**Date:** Thursday, July 20, 2023 10:41:28 AM

Attachments: image001.gif

No role for us. Tks.

Respectfully,

Eric Washburn
USCG D8 Bridge Supervisor, Western Rivers
STL
314-269-2378

From: Jessica Stern < JStern@kaskaskiaeng.com>

Sent: Monday, July 10, 2023 3:31 PM

To: Jessica Stern < JStern@kaskaskiaeng.com>

**Cc:** Molly Barletta <MBarletta@kaskaskiaeng.com>; Heustis, Tom <Tom.Heustis@kimley-horn.com>; Williams, Kate <Kate.Williams@kimley-horn.com>; Curtis, William <william.curtis@mbakerintl.com>; kszewczak@indot.in.gov

**Subject:** [Non-DoD Source] Early Coordination Letter - INDOT Project, Des. No. 2003081, Intersection Improvement, Hamilton, Madison, and Tipton Counties, Indiana [21-1155.03]

Dear Interested Party,

Please find attached an early coordination letter and supporting exhibits for the above referenced project.

Thank you, Jessica Stern



Jessica Stern (she/her)
Environmental Scientist

Certified: WBE/DBE/WOSB/EDWOSB

217.213.3046 office

JStern@kaskaskiaeng.com



# 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: 10/31/2024 15:14:50 UTC

Project Code: 2024-0009245

Project Name: SR 13 and SR 128, Intersection Improvement, DES 2003081

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 - <a href="http://www.fws.gov/midwest/endangered/section7/s7process/index.html">http://www.fws.gov/midwest/endangered/section7/s7process/index.html</a>. 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: 2024-0009245

Project Name: SR 13 and SR 128, Intersection Improvement, DES 2003081

Project Type: Road/Hwy - Maintenance/Modification

Project Description: This project is located at the intersection of SR 13 and SR 128 in

Hamilton, Madison, and Tipton Counties, Indiana. The proposed project is anticipated to include replacing the existing two-way stop control with a single-lane roundabout (RAB). The RAB will include raised concrete islands, a center truck apron, and outside truck aprons in the northwest and southwest quadrants. The project also includes new curb and gutters, a stormwater system, including a stormwater detention pond, and lighting. The center of the RAB will shift approximately 100' to the east to avoid impacts to the historical bridge over Duck Creek located 100' west of the center of the current intersection. An existing small culvert, CLV-013-048-20.9 (CLV-43727), will be replaced as part of this project. CLV-43727 is comprised of 54 feet of single barrel, 36-inch Corrugated Metal Pipe (CMP), tied into 54 feet of 63-inch by 36-inch Reinforced Concrete Culvert Pipe (RCP). This existing structure will be replaced with 121 feet of single barrel, 48-inch RCP. There is suitable summer habitat within or adjacent to the project action area. Approximately 0.96 acre of trees will be cleared within 100 feet of the existing roadway in the northeast quadrant during the inactive season. The dominant species of trees to be removed include: black walnut (Juglans nigra), sugar maple (Acer saccharum), and eastern redbud (Cercis canadensis). INDOT personnel from the Greenfield District stated on March 27, 2023, that a review of the USFWS database did not indicate the presence of any endangered bat species in or within 0.5 miles of the project area. According to a culvert inspection by Kaskaskia Engineering Group, LLC staff on August 9, 2023, no evidence of bats was seen or heard under the structure. Permanent lighting changes are anticipated; temporary lighting changes are possible due to the potential for nighttime construction.

### **Project Location:**

The approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@40.219123350000004">https://www.google.com/maps/@40.219123350000004</a>,-85.86162867624522,14z

Construction is anticipated to begin in Spring 2026.



Counties: Hamilton, Madison, and Tipton counties, Indiana

### **ENDANGERED SPECIES ACT SPECIES**

There is a total of 3 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 Fisheries<sup>1</sup>, 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** 

Indiana Bat *Myotis sodalis* 

**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

### **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,

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/758">https://ecos.fws.gov/ecp/species/758</a>

Non-Essential

**INSECTS** 

NAME

Monarch Butterfly *Danaus plexippus* 

**STATUS** 

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 Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, 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 likely bald eagles present in your project area. For additional information on bald eagles, refer to <u>Bald Eagle Nesting and Sensitivity to Human Activity</u>

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

### Bald Eagle Haliaeetus leucocephalus

Breeds Oct 15 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1626

### 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** (

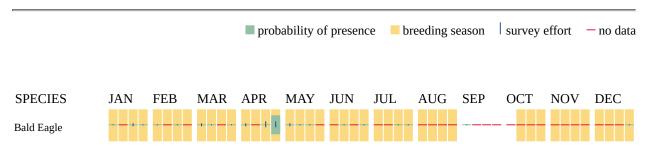
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

### 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.



Non-BCC Vulnerable

Additional information can be found using the following links:

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

### MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> 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
Bald Eagle Haliaeetus leucocephalus	Breeds Oct 15 to
This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention	Aug 31
because of the Eagle Act or for potential susceptibilities in offshore areas from certain types	O

because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1626

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. <a href="https://ecos.fws.gov/ecp/species/9406">https://ecos.fws.gov/ecp/species/9406</a>	Breeds Mar 15 to Aug 25
Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9679">https://ecos.fws.gov/ecp/species/9679</a>	Breeds elsewhere
Pectoral Sandpiper <i>Calidris melanotos</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere

### 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 (**■**)**

https://ecos.fws.gov/ecp/species/9561

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** (**•**)

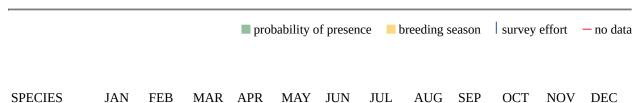
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

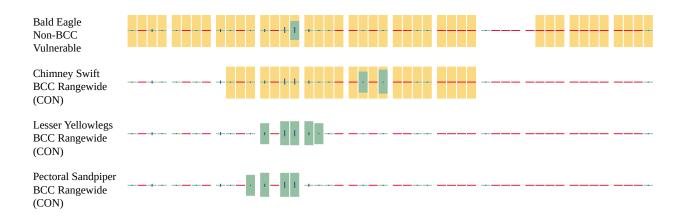
### Survey Effort (|)

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

# **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.

FRESHWATER FORESTED/SHRUB WETLAND

PFO1A

### **RIVERINE**

R2UBH

### **IPAC USER CONTACT INFORMATION**

Agency: Kaskaskia Engineering Group, LLC

Name: Virginia Flynn Address: 208 E. Main St.

Address Line 2: Suite 100 City: Belleville

State: IL Zip: 62220

Email vflynn@kaskaskiaeng.com

Phone: 6182335877

### LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

• BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)



# 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: 10/31/2024 16:32:32 UTC

Project code: 2024-0009245

Project Name: SR 13 and SR 128, Intersection Improvement, DES 2003081

Subject: Concurrence verification letter for the 'SR 13 and SR 128, Intersection Improvement,

DES 2003081' 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 31, 2024 to verify that the **SR 13 and SR 128, Intersection Improvement, DES 2003081** (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 Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures. At least one of the qualification interview questions indicated an activity or portion of your project is consistent with a not likely to adversely affect determination therefore, the overall determination for your project is, may affect, and is not likely to adversely affect (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:

- Monarch Butterfly Danaus plexippus Candidate
- 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.

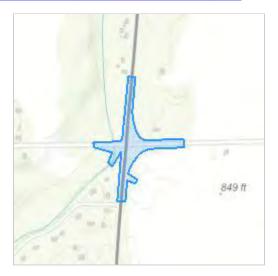
### NAME

SR 13 and SR 128, Intersection Improvement, DES 2003081

### DESCRIPTION

This project is located at the intersection of SR 13 and SR 128 in Hamilton, Madison, and Tipton Counties, Indiana. The proposed project is anticipated to include replacing the existing two-way stop control with a single-lane roundabout (RAB). The RAB will include raised concrete islands, a center truck apron, and outside truck aprons in the northwest and southwest quadrants. The project also includes new curb and gutters, a stormwater system, including a stormwater detention pond, and lighting. The center of the RAB will shift approximately 100' to the east to avoid impacts to the historical bridge over Duck Creek located 100' west of the center of the current intersection. An existing small culvert, CLV-013-048-20.9 (CLV-43727), will be replaced as part of this project. CLV-43727 is comprised of 54 feet of single barrel, 36-inch Corrugated Metal Pipe (CMP), tied into 54 feet of 63-inch by 36-inch Reinforced Concrete Culvert Pipe (RCP). This existing structure will be replaced with 121 feet of single barrel, 48-inch RCP. There is suitable summer habitat within or adjacent to the project action area. Approximately 0.96 acre of trees will be cleared within 100 feet of the existing roadway in the northeast quadrant during the inactive season. The dominant species of trees to be removed include: black walnut (Juglans nigra), sugar maple (Acer saccharum), and eastern redbud (Cercis canadensis). INDOT personnel from the Greenfield District stated on March 27, 2023, that a review of the USFWS database did not indicate the presence of any endangered bat species in or within 0.5 miles of the project area. According to a culvert inspection by Kaskaskia Engineering Group, LLC staff on August 9, 2023, no evidence of bats was seen or heard under the structure. Permanent lighting changes are anticipated; temporary lighting changes are possible due to the potential for nighttime construction. Construction is anticipated to begin in Spring 2026.

The approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@40.2191289,-85.86163335076387,14z">https://www.google.com/maps/@40.2191289,-85.86163335076387,14z</a>



# **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<sup>[1]</sup>?
  - [1] See Indiana bat species profile

Automatically answered

Yes

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

Automatically answered

No

- 3. Which Federal Agency is the lead for the action?
  - A) Federal Highway Administration (FHWA)
- 4. Are *all* project activities limited to non-construction<sup>[1]</sup> 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<sup>[1]</sup>?
  - [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<sup>[1]</sup>?
  - [1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

No

- 7. Is the project located **within** a karst area? *No*
- 8. Is there *any* suitable<sup>[1]</sup> summer habitat for Indiana Bat or NLEB **within** the project action area<sup>[2]</sup>? (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<sup>[1]</sup> and/or remove/trim any existing trees **within** suitable summer habitat?
  - [1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*
- 10. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail?
- 11. Have presence/probable absence (P/A) summer surveys<sup>[1][2]</sup> been conducted<sup>[3][4]</sup> **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.

No

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

No

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

Yes

- 14. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors occur<sup>[1]</sup>?
  - [1] Coordinate with the local Service Field Office for appropriate dates.
  - *B) During the inactive season*
- 15. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces? *Yes*
- 16. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

No

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

Yes

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

Yes

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

No

20. Does the project include slash pile burning?

No

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

- 22. Is there *any* suitable habitat<sup>[1]</sup> 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*
- 23. Has a bridge assessment<sup>[1]</sup> been conducted **within** the last 24 months<sup>[2]</sup> 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

- Structure Bat Assessment Form 2003081.pdf <a href="https://ipac.ecosphere.fws.gov/project/BF3QNTOI7RBH3L7KS3B3NNLB54/">https://ipac.ecosphere.fws.gov/project/BF3QNTOI7RBH3L7KS3B3NNLB54/</a>
   projectDocuments/151948023
- 24. Did the bridge assessment detect *any* signs of Indiana bats and/or NLEBs roosting in/under the bridge (bats, guano, etc.)<sup>[1]</sup>?
  - [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

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

No

26. 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

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

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

Yes

29. Will the project install *any* new or replace any existing **permanent** lighting in addition to the lighting already indicated for habitat removal (including the removal or trimming of trees) or bridge/structure removal, replacement or maintenance activities?

Yes

30. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **permanent** lighting (other than the lighting already indicated for habitat removal (including the removal or trimming of trees) or bridge/structure removal, replacement or maintenance activities) will be installed or replaced?

Yes

31. 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

- 32. 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<sup>[1]</sup>?
  - [1] Coordinate with the local Service Field Office for appropriate dates.

Yes

- 33. 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<sup>[1]</sup>?
  - [1] Coordinate with the local Service Field Office for appropriate dates.

Yes

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

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

Yes

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

No

36. 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.

37. 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* 

38. Is the habitat removal portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

### Automatically answered

Yes, because the tree removal/trimming that occurs outside of the Indiana bat's active season occurs greater than 0.5 miles from the nearest hibernaculum, is less than 100 feet from the existing road/rail surface, includes clear demarcation of the trees that are to be removed, and does not alter documented roosts and/or surrounding summer habitat within 0.25 miles of a documented roost.

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

### Automatically answered

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

### 40. General AMM 1

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

Yes

### 41. Tree Removal AMM 1

Can *all* phases/aspects of the project (e.g., temporary work areas, alignments) be modified, to the extent practicable, to avoid tree removal<sup>[1]</sup> in excess of what is required to implement the project safely?

Note: Tree Removal AMM 1 is a minimization measure, the full implementation of which may not always be practicable. Projects may still be NLAA as long as Tree Removal AMMs 2, 3, and 4 are implemented and LAA as long as Tree Removal AMMs 3, 5, 6, and 7 are implemented.

[1] The word "trees" as used in the AMMs refers to trees that are suitable habitat for each species within their range. See the USFWS' current summer survey guidance for our latest definitions of suitable habitat.

Yes

### 42. Tree Removal AMM 3

Can tree removal be limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits)?

Yes

### 43. Tree Removal AMM 4

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

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

Yes

### 44. Lighting AMM 2

Does the lead agency use the BUG (Backlight, Uplight, and Glare) system developed by the Illuminating Engineering Society<sup>[1]</sup> to rate the amount of light emitted in unwanted directions?

[1] Refer to The BUG System—A New Way To Control Stray Light

Yes

### 45. Lighting AMM 2

Will the **permanent** lighting used during removal of suitable habitat and/or the removal/ trimming of trees within suitable habitat be designed to be as close to 0 for all three BUG ratings as possible, with a priority of "uplight" of 0 and "backlight" as low as practicable? *Yes* 

### 46. Lighting AMM 1

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

Yes

### 47. Lighting AMM 2

Does the lead agency use the BUG (Backlight, Uplight, and Glare) system developed by the Illuminating Engineering Society<sup>[1]</sup> to rate the amount of light emitted in unwanted directions?

[1] Refer to The BUG System—A New Way To Control Stray Light

Yes

### 48. Lighting AMM 2

Will the **permanent** lighting (other than any lighting already indicated for tree clearing or bridge/structure removal, replacement or maintenance activities) be designed to be as close to 0 for all three BUG ratings as possible, with a priority of "uplight" of 0 and "backlight" as low as practicable?

Yes

# **PROJECT QUESTIONNAIRE**

1. Please describe the proposed bridge work:

An existing small culvert, CLV-013-048-20.9 (CLV-43727), will be replaced as part of this project. CLV-43727 is comprised of 54 feet of single barrel, 36-inch Corrugated Metal Pipe (CMP), tied into 54 feet of 63-inch by 36-inch Reinforced Concrete Culvert Pipe (RCP). This existing structure will be replaced with 121 feet of single barrel, 48-inch RCP.

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

Spring 2026

3. Please enter the date of the bridge assessment:

08/09/2023

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

N/A

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

N/A

6. How many acres<sup>[1]</sup> of trees are proposed for removal between 0-100 feet of the existing road/rail surface?

[1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number. 0.96

# **AVOIDANCE AND MINIMIZATION MEASURES (AMMS)**

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

### **TREE REMOVAL AMM 1**

Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal.

### **LIGHTING AMM 1**

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

### **TREE REMOVAL AMM 2**

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

### **LIGHTING AMM 2**

When installing new or replacing existing permanent lights, use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting); or for those transportation agencies using the BUG system developed by the Illuminating Engineering Society, be as close to 0 for all three ratings with a priority of "uplight" of 0 and "backlight" as low as practicable.

### **TREE REMOVAL AMM 3**

Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits).

### **TREE REMOVAL AMM 4**

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

**documented** foraging habitat any time of year.

### **GENERAL AMM 1**

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

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

This key was last updated in IPaC on October 30, 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, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) 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.

### **IPAC USER CONTACT INFORMATION**

Agency: Department of Transportation

Name: Ron Bales

Address: 32 South Broadway Street

City: Greenfield

State: IN Zip: 46140

Email rbales@indot.in.gov

Phone: 3175157908

### LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

You have indicated that your project falls under or receives funding through the following special project authorities:

• BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)

# **Bridge/Structure Bat Assessment Form**

Da of	nte & Time Assessment 08/09/2023	DOT Project Number 2003081	Route/Facility Carried SR 13			County Madison	
<u>Fe</u> Str	deral ructure ID CLV 43727	Structure Coordinates (latitude and longitude) 40.2178, -85.8618	Structure Height (approximate) 36 in Structure Length				
St	ructure Type (check one)		Structure Ma	aterial (check a	all that apply)		
Br	idge Construction Style		Deck Material	Beam Materia	I End/Back Wal	ll Material	
$\cap$	Cast-in-place	Pre-stressed Girder	Metal	None	Concrete		
			Concrete Timber	Concrete Steel	Timber Stone/Masonry	,	
O	Flat Slab/Box	Steel I-beam	Open grid	Timber	Other:	<u>'</u>	
0	Truss Side View	Covered	Other:	Other:	Creosote Evia		
0	Parallel Box Beam	Other:	Culvert Materi	ial	Yes Unknown	Yes No No Unknown	
	ulvert Type	Other Structure	X Metal X Concrete		Notes:		
0	Вох	54 feet of single barrel, 36-inch Corrugated Metal Pipe	Plastic		<b>-</b>		
	Pipe/Round Other:	(CMP), tied into 54 feet of 63-inch by 36-inch Reinforced Concrete Culvert Pipe (RCP)	Stone/Masonry Other:		_		
	rossings Traversed (check all th	nat apply)	- 1	g Habitat (chec	k all that apply		
Ë	Bare ground	X Open vegetation	X Agricultural	g Habitat (onco	Grassland	<u>'</u>	
	Rip-rap	Closed vegetation	Commercial		Ranching		
X	Flowing water	Railroad	Residential-urb		X Riparian/wetla	nd	
$\vdash$	Standing water Seasonal water	Road/trail - Type: Other:	Residential-rur  X Woodland/fore		Mixed use Other:		
\ \ \	reas Assessed (check all that ap	<del></del>	VV oodiand/lore	sieu	Other.		
		present in the structure, check the "not pres	sent" hox				
		g the assessment. Include the species prese		I provide photo doc	cumentation as indi	cated.	
_	rea (check if assessed)	Assessment Notes		Bats (include p			
	All crevices and cracks:	Not present		( )	Audible	Species	
	Bridges/culverts: rough surfaces or	No. 2 Lancas ( Data as	Visual - live #	dead #	Odor		
$\times$	imperfections in concrete	No evidence of Bats or	Guano Staining		Photos	_	
	Other structures: soffits, rafters, attic	Birds present	Stalling				
	areas	Not present			Audible	Species	
$\times$	Concrete surfaces (open roosting on	No evidence of Bats or Birds present	Visual - live #	dead #	Odor	<b></b>	
	concrete)	TNO evidence of bals of birds present					
	concrete)		Guano		Photos		
_		·	Staining			Species	
L	Spaces between concrete end walls	Not present		dead#	Audible Odor	Species	
	<u>'</u>	·	Staining  Visual - live #  Guano	dead #	Audible	Species	
	Spaces between concrete end walls and the bridge deck	Not present	Staining  Visual - live #	dead #	Audible Odor Photos		
	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top	Not present	Staining Visual - live # Guano Staining		Audible Odor Photos Audible	Species	
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	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams	X   Not present   X   Not present	Staining  Visual - live # Guano Staining	dead #	Audible Odor Photos  Audible Odor Photos  Audible Odor Photos  Audible Audible Audible Audible Audible	Species	
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	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams	X   Not present   X   Not pr	Staining  Visual - live # Guano Staining	dead #	Audible Odor Photos	Species Species Species	
	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams  Spaces between walls, ceiling joists	X   Not present   X   Not pr	Staining  Visual - live # Guano Staining	dead # dead # dead #	Audible Odor Photos  Audible Audible Audible Audible Audible Audible Audible Audible	Species	
	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams  Spaces between walls, ceiling joists  Weep holes, scupper drains, and	X   Not present   X   Not pr	Staining  Visual - live # Guano Staining	dead #	Audible Odor Photos  Audible Odor Audible Odor Odor Odor Odor Odor Odor Odor	Species Species Species	
	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams  Spaces between walls, ceiling joists	X Not present	Staining  Visual - live # Guano Staining	dead # dead # dead #	Audible Odor Photos	Species Species Species Species	
	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams  Spaces between walls, ceiling joists  Weep holes, scupper drains, and	X   Not present   X   Not pr	Staining  Visual - live # Guano Staining	dead #  dead #  dead #	Audible Odor Photos  Audible	Species Species Species	
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	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams  Spaces between walls, ceiling joists  Weep holes, scupper drains, and inlets/pipes	X Not present	Staining  Visual - live # Guano Staining	dead #  dead #  dead #	Audible Odor Photos  Audible	Species Species Species Species Species	
	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams  Spaces between walls, ceiling joists  Weep holes, scupper drains, and inlets/pipes	X Not present	Staining  Visual - live # Guano Staining	dead #  dead #  dead #  dead #	Audible Odor Photos  Audible Audible Odor Photos	Species Species Species Species	
	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams  Spaces between walls, ceiling joists  Weep holes, scupper drains, and inlets/pipes	X   Not present   X   Not pr	Staining  Visual - live # Guano Staining	dead #  dead #  dead #	Audible Odor Photos	Species Species Species Species Species	
	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams  Spaces between walls, ceiling joists  Weep holes, scupper drains, and inlets/pipes  All guiderails	X   Not present   X   Not pr	Staining  Visual - live # Guano Staining	dead #  dead #  dead #  dead #	Audible Odor Photos  Audible Audible Odor Photos	Species Species Species Species Species	
	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams  Spaces between walls, ceiling joists  Weep holes, scupper drains, and inlets/pipes  All guiderails  All expansion joints	X   Not present   X   Not pr	Staining  Visual - live # Guano Staining	dead #  dead #  dead #  dead #  dead #  dead #	Audible Odor Photos	Species Species Species Species Species Species	
	Spaces between concrete end walls and the bridge deck  Crack between concrete railings on top of the bridge deck  Railing  Vertical surfaces on concrete I-beams  Spaces between walls, ceiling joists  Weep holes, scupper drains, and inlets/pipes  All guiderails	X   Not present   X   Not pr	Staining  Visual - live # Guano Staining	dead #  dead #  dead #  dead #  dead #  dead #	Audible Odor Photos	Species Species Species Species Species Species	

# APPENDIX D

Section 106 of the NHPA

# 800.11 (d)

# SR 13 at SR 128 Intersection Improvement Project

Intersection of State Route 13 and State Route 128, Pipe Creek (Madison County), Madison (Tipton County), and White River (Hamilton County) Townships

# Madison, Tipton, and Hamilton counties, Indiana

Des. No. 2003081 DHPA No. 30736

# **July 2024**

Prepared For: **Kimley-Horn and Associates, Inc.** Indianapolis, Indiana

Prepared By:

Michael Baker International, Inc.

100 Airside Drive Moon Township, Pennsylvania 15108

Author: Katherine Molnar, MS

Contact: Timothy G. Zinn tzinn@mbakerintl.com 412-269-4619



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# FEDERAL HIGHWAY ADMINISTRATION'S SECTION 4(F) COMPLIANCE REQUIREMENTS (for historic properties) AND SECTION 106 FINDINGS AND DETERMINATIONS AREA OF POTENTIAL EFFECT ELIGIBILITY DETERMINATIONS 106 EFFECT FINDING SR 13 AT SR 128 INTERSECTION IMPROVEMENT PROJECT

DES. NO. 2003081

# AREA OF POTENTIAL EFFECTS (Pursuant to 36 CFR Section 800.4(a)(1))

The area of potential effects (APE) is the "geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist. The APE is influenced by the scale and nature of the undertaking..." (36 CFR 800.16[d]).

The above-ground resources APE complies with INDOT's directive regarding APEs for streetscape improvements and roundabout projects. Per the INDOT Cultural Resources Manual, the suggested APE for streetscape improvements, roundabouts, and trail projects includes adjacent properties and properties within the project viewshed (Part II, Chapter 5, Page 4). The resultant APE is one parcel deep on all sides surrounding the immediate project footprint, with consideration given to broadened areas as appropriate for potential auditory or visual impacts. The proposed APE generally follows parcel lines except where prudent to truncate or expand the survey area in consideration of potential visual impacts, thus resulting in an irregularly shaped polygon. It includes 63 acres (0.1 square mile) and is a mixture of agricultural and residential uses.

The archaeological APE for this project includes all areas with the potential for direct impact, including the project area, utility easement, existing right-of-way, and proposed right-of-way.

# ELIGIBILITY DETERMINATIONS (Pursuant to 36 CFR 800.4(c)(2))

There are no historic properties present within the APE.

### **EFFECT FINDING**

INDOT, acting on FHWA's behalf, has determined a "No Historic Properties Affected" finding is appropriate for this undertaking. INDOT respectfully requests the Indiana State Historic Preservation Officer provide written concurrence with the Section 106 determination of effect.

### **SECTION 4(F) COMPLIANCE REQUIREMENTS (for historic properties)**

This undertaking will not convert property from any Section 4(f) historic property to a transportation use; the INDOT, acting on FHWA's behalf, has determined the appropriate Section 106 finding is "No Historic Properties Affected"; therefore no Section 4(f) evaluation is required.

Matthew S. Coon, for FHWA

Manager

INDOT Cultural Resources

July 18, 2024

Approved Date

# FEDERAL HIGHWAY ADMINISTRATION DOCUMENTATION OF SECTION 106 FINDING OF NO HISTORIC PROPERTIES AFFECTED SUBMITTED TO THE STATE HISTORIC PRESERVATION OFFICER PURSUANT TO 36 CFR SECTION 800.4(D)(1) SR 13 at SR 128 Intersection Improvement Project Des. No. 2003081

### 1. DESCRIPTION OF THE UNDERTAKING

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with the SR 13 at SR 128 Intersection Improvement Project (Des. No. 2003081). The undertaking is located along SR 13 and SR 128 (E 296th Street) in Madison County, Indiana. A small portion of the project lies within the adjacent counties of Tipton and Hamilton. The project is located at the intersection of Pipe Creek Township (Madison County), Madison Township (Tipton County), and White River Township (Hamilton County) and appears on the Frankton, IN, USGS quadrangle in Sections 4 and 5, Township 20N, Range 6E; and Sections 32 and 33, Township 21N, Range 6E.

### Purpose and Need

The purpose of the project is to reduce the high number of severe crashes relative to traffic volume while maintaining good intersection mobility. Specifically, the high frequency of right-angle crashes at the intersection may be attributed to deficient sightlines, high speeds along SR 13, and a large risk exposure window for vehicles on the minor approach.

The identified need at this location stems from safety issues for motorists. According to the project's Engineering Assessment Report (INDOT, Greenfield District, September 25, 2020), the most significant crash pattern in a review of crash data from 2017-2019 was right-angle crashes (39 percent), followed by rear-end crashes (28 percent), run-off-the-road crashes (22 percent), and sideswipe crashes (11 percent). Almost 40 percent of crashes at this intersection resulted in injuries, with 33 percent being incapacitating. The ICF (Index of Crash Frequency) compares the crash rate of this intersection to other similar intersections throughout the state. An ICF of 0 indicates that an intersection is performing as expected. An ICF of 2 or higher may be considered a high crash location. The ICF for this intersection is 1.9.

### Project Description/ Preferred Alternative

INDOT and the FHWA propose to proceed with the preferred alternative, which includes replacing the existing two-way stop control with a single-lane roundabout (RAB). The RAB will include raised concrete islands, a center truck apron, and outside truck aprons in the northwest and southwest quadrants. The preferred alternative includes new curb and gutters, a stormwater system, and lighting. The center of the RAB was shifted approximately 100 feet to the east of the existing intersection to avoid impacts to the bridge over Duck Creek.

The project will require the acquisition of approximately 3.26 acres of permanent right-of-way (ROW). Portions of the project area contain undisturbed soils.

Proposed excavation along the project corridor includes the removal of the existing roadway and roadbed to a depth of approximately 2.5 feet, a drainage system with pipes and structure depths ranging from 4 to 6 feet deep, and excavation to install lighting foundations at a depth of 8 feet.

### Area of Potential Effects

The area of potential effects (APE) is the "geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist. The APE is influenced by the scale and nature of the undertaking..." (36 CFR 800.16[d]).

The above-ground resources APE complies with INDOT's directive regarding APEs for streetscape improvements and roundabout projects. Per the INDOT Cultural Resources Manual, the suggested APE for streetscape improvements, roundabouts, and trail projects includes adjacent properties and properties within the project viewshed (Part II, Chapter 5, Page 4). The proposed APE is one parcel deep on all sides surrounding the immediate project footprint, with consideration given to broadened areas as appropriate for potential auditory or visual impacts. The proposed APE generally follows parcel lines except where prudent to truncate or expand the survey area in consideration of potential visual impacts, thus resulting in an irregularly shaped polygon. It includes 63 acres (0.1 square mile) and is a mixture of agricultural and residential uses.

The archaeological APE for this project includes all areas with the potential for direct impact, including the project area, utility easement, existing right-of-way, and proposed right-of-way. Please see Appendix A for a map illustrating the APE and Appendix C for project area photographs.

### 2. EFFORTS TO IDENTIFY HISTORIC PROPERTIES

### Consulting Party Input

An Early Coordination Letter (ECL) was sent to potential non-tribal consulting parties on April 27, 2023, and to potential tribal consulting parties on April 28, 2023. Identified consulting parties and copies of correspondence are located in Appendix B.

On May 1, 2023, in response to the ECL, Brittany Miller, Director of Indiana Landmark's Eastern Regional Office, sent an email requesting to be included as a consulting party.

On May 1, 2023, Alex Brooks, Community Preservation Specialist for Indiana Landmarks, sent an email requesting to be added as a representative of Tipton and Hamilton counties, along with Mark Dollase.

On May 5, 2023, Diane Hunter, Tribal Historic Preservation Officer for the Miami Tribe of Oklahoma, sent a letter to INDOT CRO stating that the Tribe has "no objection" to the proposed project at this time.

On May 30, 2023, Carissa Speck, Historic Preservation Director for the Delaware Nation, responded to the ECL, stating that the Tribe should be alerted "should any human remains and/or any Native American archaeological resources inadvertently be uncovered."

On May 30, 2023, Beth McCord, Deputy Indiana State Historic Preservation Officer, accepted consulting party status and affirmed the list of identified consulting parties was accurate.

On June 7, 2023, Erin Paden, Tribal Historic Preservation Specialist for the Shawnee Tribe, sent an email accepting consulting party status.

On June 16, 2023, Paul Barton, Tribal Historic Preservation Officer for the Eastern Shawnee Tribe of Oklahoma, sent a letter to INDOT CRO stating that the project poses "no adverse effect" to known sites of interest to the Eastern Shawnee Tribe.

On January 3, 2024, the Historic Property Short Report (HPSR) was transmitted to non-tribal consulting parties. On January 5, 2024, the HPSR was transmitted to tribal consulting parties.

On February 1, 2024, Beth McCord, Deputy Indiana State Historic Preservation Officer, sent a letter concurring with the findings of the HPSR.

On February 28, 2024, Lora Nuckolls, Tribal Historic Preservation Officer for the Eastern Shawnee Tribe of Oklahoma, sent a letter indicating that the project poses No Adverse Effect or endangerment to known sites and interest to the tribe.

On June 4, 2024, KayLee Blum (archaeologists for INDOT CRO) emailed tribal consulting parties alerting them that an archaeological short report (ASR) was ready for review and comment.

On July 7, 2024, Beth McCord, Deputy Indiana State Historic Preservation Officer, sent a letter concurring with the findings of the ASR.

Copies of all consulting party coordination letters are included in Appendix B.

### **Identification of Historic Properties**

Project historians used historical maps and aerial photographs to determine the historic development of the project area/APE. In this way, historians were able to locate above-ground resources not previously surveyed that will be 50 years of age or older by the time of project letting. Cartographic resources used for this purpose include USGS topographic quadrangle maps and historic aerial photographs. Coupled with field work, the project historians identified four above-ground resources that are 50 years of age or older within the APE: a farm (8172 N SR 37, Elwood, IN) and three houses (9928 W SR 128, Elwood, IN; 29540 State Road 37, Atlanta, IN; and 29441 Duck Creek Avenue, Atlanta, IN). One previously recorded bridge (Tipton County Bridge Number 93) was since demolished.

After project historians identified the above-ground resources, they conducted research to determine whether any previously recorded or newly identified above-ground resources might merit a Notable or Outstanding rating in the Indiana Historic Sites and Structures Inventory (IHSSI). The farm resource was recommended Non-Contributing due to low historic integrity. The three houses were recommended Contributing but did not rise to the level of Notable or Outstanding.

A field survey, consisting of a vehicular and pedestrian examination of the APE was conducted May 8-11, 2023, to verify the condition of any previously recorded resources [there were none] and to identify and evaluate previously unrecorded resources within the APE that are at least 50 years of age by the time of project letting, meaning they were constructed in or before 1974. Documentation of each resource included, where appropriate, the completion of historic resource field forms, field notes, sketches, site plans, and digital photography.

The Historic Property Short Report (HPSR) was first distributed to consulting parties on January 3, 2024. The Indiana SHPO concurred with the findings of the HPSR in a letter dated February 1, 2024.

The Archaeology Short Report (ASR) was first distributed to consulting parties on June 4, 2024. The Indiana SHPO concurred with the findings of the ASR in a letter dated July 8, 2024.

Copies of the abstracts and summary/conclusion pages from the HPSR and ASR are included in Appendix D.

### 3. BASIS FOR FINDING

No historic properties are present within the APE.

Michael Baker

Appendix A. Map

Documentation of Section 106 Finding of No Historic Properties Affected SR 13 at SR 128 Intersection Improvement Project THIS PAGE INTENTIONALLY LEFT BLANK

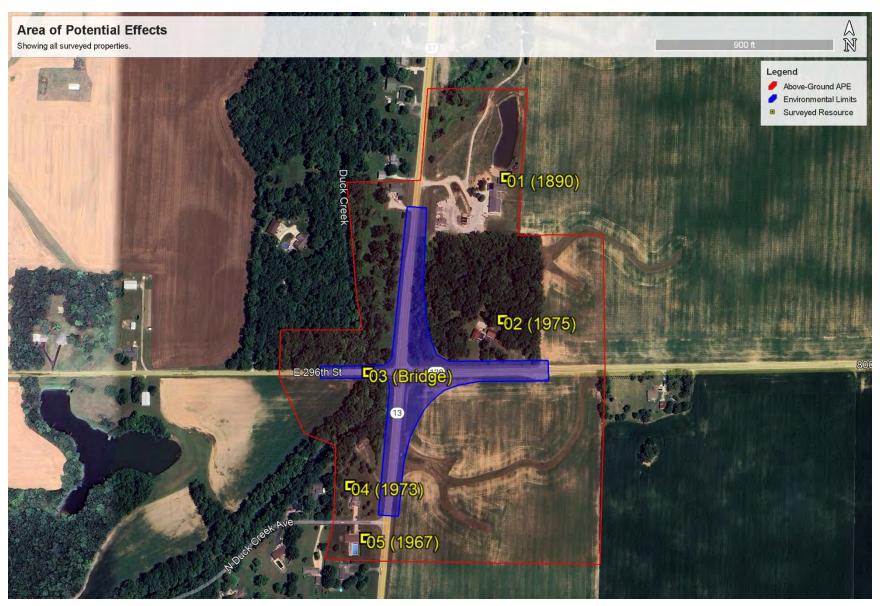


Figure 1. Detail map of the APE showing the locations of all surveyed resources (properties 50 years of age or older).

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Michael Baker

Appendix B. Consulting Party Correspondence

Documentation of Section 106 Finding of No Historic Properties Affected SR 13 at SR 128 Intersection Improvement Project Identified consulting parties included the following (entities who accepted consulting party status are highlighted in **bold** font):

- Beth McCord, Director and Deptuy State Historic Preservation Officer, Indiana Division of Historic Preservation and Archaeology (DHPA-SHPO)
- Darlene Likens, Commissioner, Madison County
- John Richwine, Commissioner, Madison County
- Olivia Pratt, Commissioner, Madison County
- Tracey Powell, Commissioner, Tipton County
- Dennis Henderson, Commissioner, Tipton County
- Nancy Cline, Commissioner, Tipton County
- Mark Heirbrandt, Commissioner, Hamilton County
- Christine Altman, Commissioner, Hamilton County
- Steve Dillinger, Commissioner, Hamilton County
- Jerrold Bridges, Regional Director, Madison County Council of Governments (MCCOG)
- Dave Benefiel, ACIP, Principal Transportation Planner, Anderson MPO
- Brittany Miller, Eastern Regional Office, Director, Indiana Landmarks
- Alex Brooks, Community Preservation Specialist, Indiana Landmarks
- Stephen T. Jackson, Madison County Historian
- David Heighway, Hamilton County Historian
- Richard E. Kreegar, President, Madison County Historical Society
- Tipon County Historical Society
- Hamilton County Historical Society
- Scott Harless, Highway Superintendent, Madison County
- Bret Morris, Highway Superintendent, Tipton County
- Bradley Davis, Highway Director, Hamilton County
- Absentee Shawnee Tribe of Oklahoma
- Delaware Nation of Oklahoma
- Delaware Tribe of Indians
- Eastern Shawnee Tribe of Oklahoma
- Forest County Potawatomi Community
- Miami Tribe of Oklahoma
- Peoria Tribe of Indians of Oklahoma
- Pokagon Band of Potawatomi Indians
- Shawnee Tribe

# Correspondence 1. April 27, 2023

### Molnar, Katherine J

From: Molnar, Katherine J

Sent: Thursday, April 27, 2023 3;23 PM

To: McCord, Beth K, Brittany Miller; heighwayd@earthlink.net, madisonCHS@sbcglobal.net;

hamiltoncomuseum@att.net; sharless@madisoncounty.in.gov; bdavis@hamiltoncounty.in.gov;

county.highway@hamiltoncounty.in.gov; dlikens@madisoncounty.in.gov; jrichwine@madisoncounty.in.gov; opratt@madisoncounty.in.gov; Mheirbrandt@Hamiltoncounty.in.gov, caltman@hamiltoncounty.in.gov;

Sdillinger@hamiltoncounty.in.gov; jerry@heartlandmpo.org; Dave@heartlandmpo.org;

madison county historian@comcast.net; tpowell@tipton county in .gov; dhenders on @tipton county .in .gov; ncline@tipton county .in .gov; tchs@tds.net;

bmorris@tiptoncounty.in.gov

Cc: Curtis, William; Zinn, Timothy; Bodor, Thomas; Heustis, Tom; Molly Barletta; Szewczak, Kimberly
Subject: FHWA Project: Des. No. 2003081; SR 13 at SR 128 Intersection Improvement Project, Madison,

Hamilton, and Tipton counties, Indiana

Attachments: SR 13-SR 128 RAB\_Des2003081\_ECL\_20230327.pdf

Categories: SUBMISSION DATE

Des. No.: 2003081

Project Description: SR 13 at SR 128 Intersection Improvement Project

Location: Madison, Hamilton, and Tipton counties, Indiana

#### Dear Consulting Party:

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the SR 13 at SR 128 Intersection Improvement Project (Des. No. 2003081).

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. The following agencies/individuals are being invited to become consulting parties;

- Beth McCord, Director and Deptuy State Historic Preservation Officer, Indiana Division of Historic Preservation and Archaeology (DHPA-SHPO)
- · Darlene Likens, Commissioner, Madison County
- John Richwine, Commissioner, Madison County
- Olívia Pratt, Commissioner, Madison County
- Tracey Powell, Commissioner, Tipton County
- Dennis Henderson, Commissioner, Tipton County
- · Nancy Cline, Commissioner, Tipton County

- Mark Heirbrandt, Commissioner, Hamilton County
- · Christine Altman, Commissioner, Hamilton County
- · Steve Dillinger, Commissioner, Hamilton County
- Jerrold Bridges, Regional Director, Madison County Council of Governments (MCCOG)
- · Dave Benefiel, ACIP, Principal Transportation Planner, Anderson MPO
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- Delaware Tribe of Indians
- Eastern Shawnee Tribe of Oklahoma
- Forest County Potawatomi Community
- · Miami Tribe of Oklahoma
- Peoria Tribe of Indians of Oklahoma
- Pokagon Band of Potawatomi Indians
- Shawnee Tribe

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

Please review the attached letter, which is also located in IN SCOPE at <a href="http://erms12c.indot.in.gov/Section106Documents/">http://erms12c.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with your comments on any historic property impacts incurred as a result of this project so that an

environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from the receipt of this information to review and provide comment. If we do not receive a response from an invited consulting party within the time allotted, the project will proceed consistent with the proposed design. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

Tribal Contacts please respond to INDOT's Tribal Liaison, Matt Coon at <a href="mailto:mcoon@indot.in.gov">mcoon@indot.in.gov</a> (317-697-9752) with any responses pertaining to this project including to provide INDOT/Indiana FHWA additional information about Tribal resources/concerns and questions/comments regarding cultural resources. The FHWA point of contact is Kari Carmany-George at <a href="mailto:k.CarmanyGeorge@dot.gov">k.CarmanyGeorge@dot.gov</a> (317-226-5629).

Thank you in advance for your input,

Katie



We Make a Difference

# Molnar, Katherine J

From: Branigin, Susan <SBranigin@indot.IN.gov>

Sent: Friday, April 28, 2023 6:45 AM

To: snease@astribe.com; cspeck@delawarenation-nsn.gov; lheady@delawaretribe.org;

sbachor@delawaretribe.org; thpo@estoo.net; benjamin.rhodd@fcp-nsn.gov; THPO;

Matthew.Bussler@pokagonband-nsn.gov; Section106

Cc: Carmany George, Karstin (FHWA); Coon, Matthew; Branigin, Susan; Molnar, Katherine J; Zinn,

Timothy

Subject: EXTERNAL; FHWA Project: Des. No. 2003081; SR 13 at 5R 128 Intersection Improvement Project,

Madison, Hamilton, and Tipton counties, Indiana

Attachments: SR 13-SR 128 RAB\_Des2003081\_ECL\_20230327.pdf

Categories: SUBMISSION DATE

Des. No.: 2003081

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Location: Madison, Hamilton, and Tipton counties, Indiana

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- Christine Altman, Commissioner, Hamilton County
- Steve Dillinger, Commissioner, Hamilton County

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- · Jerrold Bridges, Regional Director, Madison County Council of Governments (MCCOG)
- Dave Benefiel, ACIP, Principal Transportation Planner, Anderson MPO
- · Brittany Miller, Eastern Regional Office, Director, Indiana Landmarks
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This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

Please review the attached letter, which is also located in IN SCOPE at <a href="http://erms12c.indot.in.gov/Section106Documents/">http://erms12c.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with your comments on any historic property impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from the receipt of this information to review and provide comment. If we do not receive a response from an invited consulting party within the time allotted, the project will proceed consistent with the proposed design. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

Tribal Contacts please respond to INDOT's Interim Tribal Liaison, Matt Coon at <a href="mailto:mccon@indot.in.gov">mccon@indot.in.gov</a> (317-697-9752) with any responses pertaining to this project including to provide INDOT/Indiana FHWA additional information about Tribal resources/concerns and questions/comments regarding cultural resources. The FHWA point of contact is Kari Carmany-George at <a href="mailto:k.CarmanyGeorge@dot.gov">k.CarmanyGeorge@dot.gov</a> (317-226-5629).

Thank you in advance for your input,

## Susan R. Branigin, MS

Team Lead/Supervisor. History Unit Cultural Resources Office (CRO) Environmental Services Division Indiana Department of Transportation 100 N. Senate Ave., Rm. N758-ES Indianapolis IN 46204 Phone: 317.417.1622

Email: sbranigin@indot.in.gov Work Hours: M-F\_7:30 a.m.-3:30 p.m.



\*\*For the latest updates from INDOT's Cultural Resources Office, subscribe to the Environmental Services listsery: https://www.in.gov/indot/3217.htm

\*\*Link to the CRO-Public Web Map App can be found here

# Correspondence 3. May 1, 2023

From: Brittany Miller <br/>
<br/>
Smiller@indianalandmarks.org>

Sent: Monday, May 1, 2023 8:57 AM

To: Molnar, Katherine J; Carmany-George, Karstin (FHWA)

Cc: Alex Brooks; Mark Dollase; Haley Swindle

Subject: EXTERNAL: RE: FHWA Project: Des. No. 2003081; SR 13 at SR 128 Intersection Improvement Project,

Madison, Hamilton, and Tipton counties, Indiana

Attachments: SR 13-SR 128 RAB\_Des2003081\_ECL\_20230327.pdf

Categories: CP COMMENT

# Hi Katherine,

Thank you for including Indiana Landmarks. I am including Alex Brooks and Mark Dollase in this email, as they represent Hamilton and Tipton Counties. I know you mentioned shifting the intersection to avoid a bridge, and they might be interested in the impact since it's in Tipton County.

Would you continue to include the Eastern Office as a consulting party, as we'd like to review the cultural resources report when it's available? Please send future communications to east@indianalandmarks.org. That is our preferred email for these notifications.

#### Best.

Brittany Miller (she/her) Director, Eastern Regional Office

Indiana Landmarks Ph. 765-231-6429, 800-450-453-1 Cell 765-593-1218 Indianalandmarks.org

# Correspondence 4. May 1, 2023

From: Alex Brooks <abrooks@indianalandmarks.org>

Sent: Monday, May 1, 2023 2:54 PM

To: Molnar, Katherine J

Subject: EXTERNAL: FHWA Project; Des. No. 2003081

Categories: CP COMMENT

# Katherine,

Since we at the Indiana Landmarks Central Regional Office represent Tipton and Hamilton counties, we (myself at this email address and my boss Mark Dollase at mdollase@indianalandmarks.org) would like to be a consulting party on FHWA Project: Des. No. 2003081; SR 13 at SR 128 Intersection Improvement Project.

# Best,

### Alex Brooks

Community Preservation Specialist

Indiana Landmarks
1201 Central Avenue
Indianapolis IN 46202

Ph. 317-822-7908, 800-450-453/4 Fax. 317-639-6734 www.indianalandmarks.org

Indiana Landmarks revitalizes communities, strengthens connections to our diverse heritage, and saves meaningful places

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# Miami Tribe of Oklahoma

3410 P.St. NW, Miami, OK 74354 • P.O. Box 1326, Miami, OK 74355 Ph; (918) 541-1300 • Fax; (918) 542-7260 www.miamioation.com



Via email: mcoon@indot.in.gov

May 5, 2023

Matt Coon, Tribal Liaison INDOT, Cultural Resources Office 100 North Senate Avenue, N758-ES Indianapolis, Indiana 46204

Re: Des. No. 2003081, SR 13 at SR 128 Intersection Improvement, Madison, Hamilton, & Tipton Counties, Indiana – Comments of the Miami Tribe of Oklahoma

Dear Mr. Coon:

Aya, kweehsitoolaani- I show you respect. The Miami Tribe of Oklahoma, a federally recognized Indian tribe with a Constitution ratified in 1939 under the Oklahoma Indian Welfare Act of 1936, respectfully submits the following comments regarding Des. No. 2003081, SR 13 at SR 128 Intersection Improvement in Madison, Hamilton, & Tipton Counties, Indiana.

The Miami Tribe offers no objection to the above-referenced project at this time, as we are not currently aware of existing documentation directly linking a specific Miami cultural or historic site to the project site. However, given the Miami Tribe's deep and enduring relationship to its historic lands and cultural property within present-day Indiana, if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) or archaeological evidence is discovered during any phase of this project, the Miami Tribe requests immediate consultation with the entity of jurisdiction for the location of discovery. In such a case, please contact me at 918-541-8966 or by email at THPO@miamination.com to initiate consultation.

The Miami Tribe accepts the invitation to serve as a consulting party to the proposed project. In my capacity as Tribal Historic Preservation Officer I am the point of contact for consultation.

Respectfully,

Diane Hunter

Diane Hunter Tribal Historic Preservation Officer



May 30, 2023

To Whom It May Concern:

The Delaware Nation Historic Preservation Department received correspondence regarding the following referenced project(s):

Project: INDOT Des No 2003081, SR 13 at SR 128 Intersection Improvement, Madison, Hamilton and Tipton Counties, IN

In accordance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. 470f), and implementing regulation 36 CFR 800, "Protection of Historic Properties," Delaware Nation accepts your invitation for consultation on this project.

Our office is committed to protecting tribal heritage, culture and religion with particular concern for archaeological sites potentially containing burials and associated funerary objects. The Lenape people occupied the area indicated in your letter during and prior to European contact until their eventual removal to our present locations. According to our files, there are no known cultural or religious sites of interest to the Delaware Nation within or near the project location. If there are plans for a cultural resource survey, please provide a copy of the report upon completion.

Continue with the project as planned keeping in mind, should human remains and/or any Native American archaeological resources inadvertently be uncovered, all construction and ground disturbing activities should immediately be halted until the appropriate state agencies, as well as this office, are notified (within 24 hours), and a proper archaeological assessment can be made.

Please note that Delaware Nation, the Delaware Tribe of Indians, and the Stockbridge Munsee Community are the only Federally Recognized Delaware/Lenape entities in the United States and consultation for Lenape homelands must be made with only the designated staff of these three Nations (and/or other federally recognized tribal nations who may have overlapping areas of interest). We appreciate your cooperation in contacting the Delaware Nation Historic Preservation Office to conduct proper Section 106 consultation. Should you have any questions, feel free to contact our offices at 405-247-2448 ext. 1403.

Carissa Speck

Carissa Speck

Historic Preservation Director Delaware Nation 405-247-2448 ext. 1403 cspeck@delawarenation-nsn.gov



Eric Holcomb, Governor Daniel W. Bortner, Director

Division of Historic Preservation & Archaeology · 402 W. Washington Street, W274 · Indianapolis, IN 46204-2739 Phone 317-232-1646 · Fax 317-232-0693 · dhpa@dnr.IN.gov ·



May 30, 2023

Molly Barletta Environmental Scientist Kaskaskia Engineering, Inc. 208 E. Main Street, Ste. 100 Belleville, Illinois 62220

> Federal Agency: Indiana Department of Transportation ("TNDOT"), on behalf of Federal Highway Administration, Indiana Division ("FHWA")

Re: Early coordination for the SR 13 at SR 128 Intersection Improvement Project (Des. No. 2003081; DHPA No. 30736)

#### Dear Ms. Barletta:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the "Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana," the staff of the Indiana State Historic Preservation Officer ("Indiana SHPO") has reviewed your April 27, 2023, review request submittal form, received by our office April 27, 2023, for the submission which enclosed INDOT's early coordination letter that was received on May 3, 2023; for this project in Hamilton County, Madison County, and Tipton County, Indiana.

We are not aware of any parties who should be invited to participate in the Section 106 consultation on this federal undertaking, beyond those whom INDOT already has invited. However, if right-of-way is likely to be taken from a potentially historic property, it might be advisable to invite the owner of that property as soon as possible. In your next regular correspondence on this project, please advise us as to which of the invited consulting parties has accepted the invitation.

We look forward to reviewing the proposed area of potential effects and the reports on investigations of aboveground cultural resources and archaeological resources that the early coordination letter indicated will be forthcoming.

The Indiana SHPO staff's archaeological reviewer for this project is Wade T. Tharp, and the structures reviewer is Toni Lynn Giffin. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

The DNR mission: Protect, enhance, preserve and wisely use natural, cultural and recreational resources for the benefit of Indiano's citizens through professional leadership, management and education.

www.IN.gov/DNR An Equal Opportunity Employer Molly Barletta May 30, 2023 Page 2

In all future correspondence about the SR 13 at SR 128 intersection improvement project in Hamilton, Madison, and Tipton Counties (Des. No. 2003081), please refer to DHPA No. 30736.

Very truly yours,

Beth K. McCord

Deputy State Historic Preservation Officer

B. V. Michal

BKM:TLG:WTT:wtt

eme: Matt Coon, Ph.D., Indiana Department of Transportation Susan Branigin, Indiana Department of Transportation Toni Lynn Giffin, Indiana DNR-DHPA Wade T. Tharp, Indiana DNR-DHPA Molly Barletta, Kaskaskia Engineering Katherine J. Molnar, Michael Baker International

# Correspondence 8. June 7, 2023

From: Laserfiche Notification <donotreply@laserfiche.com>

Sent: Wednesday, June 7, 2023 4:11 PM
To: Branigin, Susan <SBranigin@indot.IN.gov>

Subject: Section 106 Consultation - INDOT Des. No. 2003081; SR 13 at SR 128 Intersection Improvement Project,

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

This email is in response to INDOT Des. No. 2003081; SR 13 at SR 128 Intersection Improvement Project,. The Shawnee Tribe's Tribal Historic Preservation Department concurs that no known historic properties will be negatively impacted by this project. However, there is still potential for the discovery of unknown resources. We would like to accept your invitation for consultation.

We have no issues or concerns at this time, but in the event archaeological materials are encountered during construction, use, or maintenance of this location, please re-notify us at that time as we would like to resume immediate consultation under such a circumstance.

If you have any questions, you may contact me via email at <a href="Section106@shawnee-tribe.com">Section106@shawnee-tribe.com</a>



Erin Paden
TRIBAL HISTORIC PRESERVATION
SPECIALIST
Office: (918) 542-2441, x140
Email: <a href="mailto:paden@shawnee-tribe.com">paden@shawnee-tribe.com</a>
29 S Hwy 69A
Miami, OK 74354
shawnee-tribe.com



# EASTERN SHAWNEE CULTURAL PRESERVATION DEPARTMENT

70500 East 128 Road, Wyandotte, OK 74370

June 16, 2023 INDOT - Indiana Department of Transportation 100 N. Senate Ave. IGCN642 Indianapolis, IN 46201

RE: Des No. 2003081, Madison, Hamilton, and Tipton County, Indiana

Dear Mr. Coon,

The Eastern Shawnee Tribe has received your letter regarding the above referenced project(s) within Madison, Hamilton, and Tipton County, Indiana. The Eastern Shawnee Tribe is committed to protecting sites important to Tribal Heritage, Culture and Religion. Furthermore, the Tribe is particularly concerned with historical sites that may contain but not limited to the burial(s) of human remains and associated funerary objects.

As described in your correspondence, and upon research of our database(s) and files, we find our people occupied these areas historically and/or prehistorically. However, the project proposes **NO Adverse Effect** or endangerment to known sites of interest to the Eastern Shawnee Tribe. Please continue project as planned. However, should this project inadvertently discover an archeological site or object(s) we request that you immediately contact the Eastern Shawnee Tribe, as well as the appropriate state agencies (within 24 hours). We also ask that all ground disturbing activity stop until the Tribe and State agencies are consulted. Please note that any future changes to this project will require additional consultation.

In accordance with the NHPA of 1966 (16 U.S.C. § 470-470w-6), federally funded, licensed, or permitted undertakings that are subject to the Section 106 review process must determine effects to significant historic properties. As clarified in Section 101(d)(6)(A-B), historic properties may have religious and/or cultural significance to Indian Tribes. Section 106 of NHPA requires Federal agencies to consider the effects of their actions on all significant historic properties (36 CFR Part 800) as does the National Environmental Policy Act of 1969 (43 U.S.C. § 4321-4347 and 40 CFR § 1501.7(a). This letter evidences NHPA and NEPA historic properties compliance pertaining to consultation with this Tribe regarding the referenced proposed projects.

Thank you, for contacting the Eastern Shawnee Tribe, we appreciate your cooperation. Should you have any further questions or comments please contact our Office.

Sincerely,

Paul Barton, Tribal Historic Preservation Officer (THPO) Eastern Shawnee Tribe of Oklahoma

(918) 666-5151 Ext:1833

# Correspondence 10. January 3, 2024

From: Molnar, Katherine J

Sent: Wednesday, January 3, 2024 11:10 AM

To: McCord, Beth K; DHPA@dnr.IN.gov; Brittany Miller; abrooks@indianalandmarks.org; Mark Dollase;

Eastern Regional Office

Cc: Curtis, William; Zinn, Timothy; Heustis, Tom, Molly Barletta; Szewczak, Kimberly

Subject: FHWA Project: Des. No. 2003081; SR 13 at SR 128 Intersection Improvement Project, Madison,

Hamilton, and Tipton counties, Indiana

Attachments: SR 13-SR 128 RAB\_Des2003081\_RDL for HPSR\_20240103.pdf

Categories: SUBMISSION DATE

Des. No.: 2003081

Project Description: SR 13 at SR 128 Intersection Improvement Project

Location: Madison, Hamilton, and Tipton counties, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the SR 13 at SR 128 Intersection Improvement Project (Des. No. 2003081).

The Section 106 Early Coordination Letter for this project was originally distributed on April 27, 2023.

As part of Section 106 of the National Historic Preservation Act, a Historic Property Short Report has been prepared and is ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <a href="http://erms12c.indot.in.gov/Section106Documents/">http://erms12c.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon <a href="mailto:mcoon@indot.in.gov">mcoon@indot.in.gov</a>; (317-697-9752) with any responses pertaining to this project including to provide INDOT/Indiana FHWA additional information about Tribal resources/concerns and questions/comments regarding cultural resources. The FHWA point of contact is Kari Carmany-George at <a href="mailto:K.CarmanyGeorge@dot.gov">K.CarmanyGeorge@dot.gov</a> (317-226-5629).

Thank you in advance for your input,

Katie

# Correspondence 11. January 5, 2024

From: Branigin, Susan <SBranigin@indot.IN.gov>

Sent: Friday, January 5, 2024 11:19 AM

To: cspeck@delawarenation-nsn.gov; thpo@estoo.net; THPO; Section106

Cc: Carmany-George, Karstin (FHWA); Coon, Matthew, Branigin, Susan; Molnar, Katherine J; Zinn,

Timothy

Subject: EXTERNAL: FHWA Project: Des. No. 2003081; SR 13 at SR 128 Intersection Improvement Project,

Madison, Hamilton, and Tipton counties, Indiana

Attachments: SR 13-SR 128 RAB\_Des2003081\_RDL for HPSR\_20240103.pdf

Categories: SUBMISSION DATE

#### **EXTERNAL EMAIL**

Des. No.: 2003081

Project Description: SR 13 at SR 128 Intersection Improvement Project

Location: Madison, Hamilton, and Tipton counties, Indiana

#### **Dear Consulting Parties:**

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the SR 13 at SR 128 Intersection Improvement Project (Des. No. 2003081). The Section 106 Early Coordination Letter for this project was originally distributed on April 27, 2023.

As part of Section 106 of the National Historic Preservation Act, a Historic Property Short Report has been prepared and is ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <a href="http://erms12c.indot.in.gov/Section106Documents/">http://erms12c.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon <a href="mailto:mcoon@indot.in.gov">mcoon@indot.in.gov</a>; (317-697-9752) with any responses pertaining to this project including to provide INDOT/Indiana FHWA additional information about Tribal resources/concerns and questions/comments regarding cultural resources. The FHWA point of contact is Kari Carmany-George at K.Carmany-George@dot.gov (317-226-5629).

Thank you in advance for your input,

Susan R. Branigin, MS History Unit Team Lead/Supervisor

Cultural Resources Office (CRO)
Indiana Department of Transportation
100 North Senate Ave., N758 —Environmental Services
Indianapolis, IN 46204

Cell: 317.417.1622 Email: sbranigin@indot.in.gov Find us on social medial



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<sup>™</sup>Link to the CRO-Public Web Map App can be found <u>here</u>



Eric Holcomb, Governor Daniel W. Bortner, Director

Division of Historic Preservation & Archaeology · 402 W: Washington Street, W274 · Indianapolis, IN 46204-2739 Phone 317-232-1646 · Fax 317-232-0693 · dhpa@dnr.IN.gov ·



February 1, 2024

Molly Barletta Environmental Scientist Kaskaskia Engineering Inc. 208 E Main Street, Ste 100 Belleville, Illinois 62220

> Federal Agency: Indiana Department of Transportation ("INDOT"), on behalf of Federal Highway Administration, Indiana Division ("FHWA")

Re: Historic property short report (Molnar, 1/2024) for the SR 13 at SR 128 Intersection Improvement Project (Des. No. 2003081; DHPA No. 30736)

### Dear Ms. Barletta:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the "Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana," the staff of the Indiana State Historic Preservation Officer ("Indiana SHPO") has reviewed your January 3, 2024, submission which enclosed the historic property short report ("HPSR"; Molnar, 1/2024), received by our office January 3, 2024, for this project proposed for locations in Pipe Creek Township, Madison County; in Madison Township, Tipton County; and in White River Township, Hamilton County; Indiana.

The area of potential effects ("APE") proposed in the HPSR appears to be of adequate size to encompass the geographic area in which direct and indirect effects of a project of this nature could occur.

For the purposes of the Section 106 review of this federal undertaking, we agree with the conclusions in the HPSR that there are no previously recorded National Register of Historic Places ("NRHP")-listed or -eligible resources located within the APE. Furthermore, we also agree with the conclusions in the HPSR of the other historic-aged resources documented during survey and that there are no resources listed or eligible for the NRHP within the APE.

As your letter indicates, a report of archaeological investigations is forthcoming. We look forward to reviewing and commenting on that report.

The Indiana SHPO staff's archaeological reviewer for this project is Wade T. Tharp, and the structures reviewer is Toni Lynn Giffin. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

The DNR mission: Protect, enhance preserve and wisely use natural, cultural and recreational resources for the benefit of Indiana's citizens through professional leadership, management and education. www.IN.gov/DNR An Equal Opportunity Employer Molly Barletta February 1, 2024 Page 2

In all future correspondence about the SR 13 at SR 128 Intersection Improvement Project (Des. No. 2003081), which is proposed for locations in Pipe Creek Township, Madison County; in Madison Township, Tipton County; and in White River Township, Hamilton County; Indiana; please refer to DHPA No. 30736.

Very truly yours,

Beth K. McCord

Deputy State Historic Preservation Officer

BKM:TLG:WTT:wtt

emc: Matt Coon, Ph.D., Indiana Department of Transportation Susan Branigin, Indiana Department of Transportation Molly Barletta, Kaskaskia Engineering, Inc. Katherine J. Molnar, Michael Baker International Toni Lynn Giffin, Indiana DNR-DHPA Wade T. Tharp, Indiana DNR-DHPA



# EASTERN SHAWNEE CULTURAL PRESERVATION DEPARTMENT

70500 East 128 Road, Wyandotte, OK 74370

February 28, 2024
INDOT - Indiana Department of Transportation
100 N. Senate Ave. IGCN642
Indianapolis, IN 46201

RE: Des No. 2003081, Madison, Hamilton, and Tipton County, Indiana

Dear Mr. Coon,

The Eastern Shawnee Tribe has received your letter regarding the above referenced project(s) within Madison, Hamilton, and Tipton County, Indiana. The Eastern Shawnee Tribe is committed to protecting sites important to Tribal Heritage, Culture and Religion. Furthermore, the Tribe is particularly concerned with historical sites that may contain but not limited to the burial(s) of human remains and associated funerary objects.

As described in your correspondence, and upon research of our database(s) and files, we find our people occupied these areas historically and/or prehistorically. However, the project proposes **NO Adverse Effect** or endangerment to known sites of interest to the Eastern Shawnee Tribe. Please continue project as planned. However, should this project inadvertently discover an archeological site or object(s) we request that you immediately contact the Eastern Shawnee Tribe, as well as the appropriate state agencies (within 24 hours). We also ask that all ground disturbing activity stop until the Tribe and State agencies are consulted. Please note that any future changes to this project will require additional consultation.

In accordance with the NHPA of 1966 (16 U.S.C. § 470-470w-6), federally funded, licensed, or permitted undertakings that are subject to the Section 106 review process must determine effects to significant historic properties. As clarified in Section 101(d)(6)(A-B), historic properties may have religious and/or cultural significance to Indian Tribes. Section 106 of NHPA requires Federal agencies to consider the effects of their actions on all significant historic properties (36 CFR Part 800) as does the National Environmental Policy Act of 1969 (43 U.S.C. § 4321-4347 and 40 CFR § 1501.7(a). This letter evidences NHPA and NEPA historic properties compliance pertaining to consultation with this Tribe regarding the referenced proposed projects.

Thank you, for contacting the Eastern Shawnee Tribe, we appreciate your cooperation. Should you have any further questions or comments please contact our Office.

Sincerely, Yora Muckelle

Lora Nuckolls, Tribal Historic Preservation Officer (THPO) Eastern Shawnee Tribe of Oklahoma (918) 238-5151 Ext:1840

# Correspondence 14. June 4, 2024

From: Blum, Kaylee

To: thpo@estoo.net; thpo@miamination.com; bfletcher@peoriatribe.com; Matthew Bussler; Section106@shawnee-

tribe.com; cspeck@delawarenation-nsn.gov; sbachor@delawaretribe.org; Martina Thomas

Cc: Coon, Matthew; Blum, Kaylee; Molnar, Katherine J; Bodor, Thomas

Subject: EXTERNAL: Notification for FHWA Project: Des. No. 2003081, SR 13 at SR 128 Intersection Improvement,

Hamilton County, Indiana

Date: Tuesday, June 4, 2024 12:34:12 PM

Attachments: image004.png image008.png

#### **EXTERNAL EMAIL**

Notification for FHWA Project: Des. No. 2003081, SR 13 at SR 128 Intersection Improvement, Hamilton County, Indiana

Des. No.: 2003081

Project Description: SR 13 at SR 128 Intersection Improvement

Location: Hamilton County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the SR 13 at SR 128 Intersection Improvement Project (INDOT Des. No. 2003081). The Section 106 Early Coordination Letter for this project was originally distributed in a letter on April 28, 2023.

As part of Section 106 of the National Historic Preservation Act, an Archaeology report has been prepared and is ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at

https://erms12c.indot.in.gov/Section106Documents (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days. Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment.

Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon mcoon@indot.in.gov (317-697-9752) with any responses pertaining to this project including to provide INDOT/Indiana FHWA additional information about Tribal resources/concerns and questions/comments regarding cultural resources. The FHWA point of contact is Kari Carmany-George at K.CarmanyGeorge@dot.gov (317-226-5629).

Thank you,

# KayLee A. Blum, M.S.

# Archaeologist

Indiana Department of Transportation, Cultural Resources Office 100 North Senate Ave., N758 — Environmental Services Indianapolis, IN 46204

Office: (317) 439-3337 Email: kblum@indot.in.gov





Eric Hölcomb, Governor Daniel W. Bortner, Director

Division of Historic Preservation & Archaeology · 402 W. Washington Street, W274 · Indianapolis, IN 46204-2739 Phone 317-232-1646 · Fax 317-232-0693 · dhpa@dnr.IN.gov ·



July 8, 2024

Thomas Bodor Department Manager, Archaeology Michael Baker International, Inc. 100 Airside Drive Airside Business Park Moon Township, Pennsylvania 15108

Federal Agency: Indiana Department of Transportation ("INDOT"),

on behalf of Federal Highway Administration, Indiana Division ("FHWA")

Re: Phase Ia archaeological field reconnaissance survey report (Robinson et al., 05/24/2024) for the State Road 13 at State Road 128 Intersection Improvement Project (Des. No. 2003081; DHPA No. 30736)

#### Dear Mr. Bodor:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the "Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana," the staff of the Indiana State Historic Preservation Officer ("Indiana SHPO") has reviewed your submission, which consisted of the Phase Ia archaeological field recomnaissance survey report (Robinson et al., 05/24/2024). It was received by our office June 6, 2024, for the above-referenced project, which is proposed for locations in Pipe Creek Township, Madison County; in Madison Township, Tipton County; and in White River Township, Hamilton County; Indiana.

Please be reminded that all materials submitted to our office for environmental review purposes must be accompanied by a completed Review Request Submittal Form <a href="https://forms.in.gov/Download.aspx?id=10733">https://forms.in.gov/Download.aspx?id=10733</a>. Additionally, all archaeological reports and archaeological site survey/resurvey record forms submitted to our office for environmental review purposes must have been entered into the Indiana DNR-DHPA SHAARD system database at the time of submission.

In terms of archaeological resources, based on the submitted information and the documentation available to the staff of the Indiana SHPO, we have not identified any currently known archaeological resources listed in or eligible for inclusion in the National Register of Historic Places ("NRHP") within the proposed project area. We concur with the opinions of the archaeologist, as expressed in the Phase Ia archaeological field reconnaissance survey report (Robinson et al., 05/24/2024), that archaeological site 12-M-00880 (which was identified during archaeological investigations) does not appear to be eligible for inclusion in the NRHP, and that no further archaeological investigations appear necessary at the proposed project area.

Thank you for uploading the Phase Ia archaeological field reconnaissance survey report (Robinson et al., 05/24/2024) to the Indiana DNR-DHPA SHAARD system database; the report has been assigned the identifier AR-48-00407. Additionally, thank you for uploading the archaeological site survey record forms for archaeological site 12-M-00880. The archaeological report and the archaeological site survey record form have been reviewed and approved.

If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29) requires that the discovery be

The DNR mission: Protect, enhance, preserve and wisely use natural, cultural and recreational resources for the benefit of Indiana's citizens through professional leadership, management and education.

www.IN.gov/DNR An Equal Opportunity Employer Thomas Bodor July 8, 2024 Page 2

reported to the Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. Part 800.

The Indiana SHPO staff's archaeological reviewer for this project is Wade T. Tharp, and the structures reviewer is Toni Lynn Giffin. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the State Road 13 at State Road 128 Intersection Improvement Project (Des. No. 2003081), which is proposed for locations in Pipe Creek Township, Madison County; in Madison Township, Tipton County; and in White River Township, Hamilton County; Indiana; please refer to DHPA No. 30736.

Very truly yours,

Beth K. McCord

Deputy State Historic Preservation Officer

BKM:WTT:wtt

emc: Matt Coon, Ph.D., Indiana Department of Transportation Susan Branigin, Indiana Department of Transportation Molly Barletta, Kaskaskia Engineering, Inc. Katherine J. Molnar, Michael Baker International Thomas Bodor, Michael Baker International, Inc. Toni Lynn Giffin, Indiana DNR-DHPA Wade T. Tharp, Indiana DNR-DHPA THIS PAGE INTENTIONALLY LEFT BLANK

Michael Baker

# Appendix C. Project Area Photographs

Documentation of Section 106 Finding of No Historic Properties Affected SR 13 at SR 128 Intersection Improvement Project THIS PAGE INTENTIONALLY LEFT BLANK



Figure 2. Photo key on an aerial background.



Figure 3. Photo key on an aerial background.



Photo 1. Streetscape along SR 13 from a location approximately 650 feet north of the project intersection, facing south.



Photo 2. MB-01, Farmhouse (IHSSI: 095-223-15033) located at 8172 N SR 37, showing the east (rear) and north (side) façades, facing southwest.



Photo 3. MB-01, Farmhouse (IHSSI: 095-223-15033) located at 8172 N SR 37, showing the east (rear) façade, facing west.

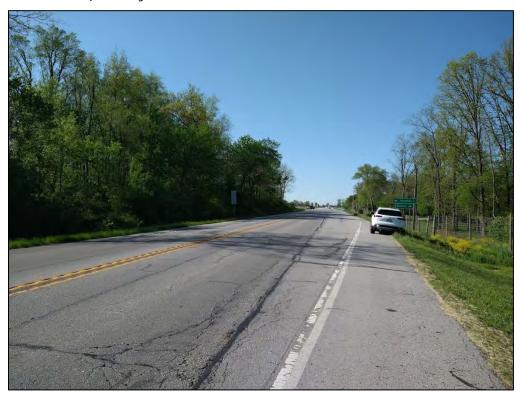


Photo 4. Streetscape along SR 13 from a location approximately 500 feet north of the project intersection, facing south.



Photo 5. Streetscape along SR 13 from a location approximately 450 feet north of the project intersection, facing south.



Photo 6. Streetscape along SR 13 from a location approximately 350 feet north of the project intersection, facing north.



Photo 7. Streetscape along SR 13, from a location approximately 350 feet north of the project intersection, facing south.



Photo 8. Streetscape along SR 13 from a location approximately 50 feet north of the project intersection, facing south.



Photo 9. MB-03, view of the replacement bridge carrying SR 128 over Duck Creek showing north elevation, facing southeast.



Photo 10. MB-03, view of the replacement bridge carrying SR 128 over Duck Creek showing south elevation, facing northeast.



Photo 11. Streetscape along SR 13 from a location approximately 50 feet south of the project intersection, facing north.



Photo 12. Streetscape along SR 13 from a location approximately 75 feet south of the project intersection, facing north.



Photo 13. Streetscape along SR 13 from the project intersection, facing south.



Photo 14. Streetscape along SR 128 from a location approximately 100 feet east of the project intersection, facing west.



Photo 15. MB-02, McDonald House, 9928 W SR 128, showing the southwest (front) and southeast (side) façades, facing north.



Photo 16. MB-02, McDonald House, 9928 W SR 128, showing the front lawn, facing south.



Photo 17. MB-04, Schriver House, 29540 State Road 37, showing the southwest (front) and southeast (side) façades, facing north.



Photo 18. MB-05, Orr House, 29441 Duck Creek Avenue, showing the north (front) and west (side) façades, facing southeast.

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Michael Baker

Appendix D. Report Abstracts

Documentation of Section 106 Finding of No Historic Properties Affected SR 13 at SR 128 Intersection Improvement Project

# Historic Property Short Report

# SR 13 at SR 128 Intersection Improvement Project

Intersection of State Route 13 and State Route 128, Pipe Creek (Madison County), Madison (Tipton County), and White River (Hamilton County) Townships

# Madison, Tipton, and Hamilton counties, Indiana

Des. No. 2003081 DHPA No. 30736

# January 2024

Prepared For: Kimley-Horn and Associates, Inc. Indianapolis, Indiana

Prepared By: Michael Baker International, Inc. 100 Airside Drive Moon Township, Pennsylvania 15108

Principal Investigator: Katherine Molnar, MS

Contact: Timothy G. Zinn, MA Tzinn@mbakerintl.com 412-269-4619



# **ABSTRACT**

This report documents the identification and evaluation efforts for properties included in the area of potential effects (APE) for the SR 13 at SR 128 Intersection Improvement Project in Madison, Hamilton, and Tipton counties, Indiana (Des. No. 2003081). Above-ground resources located within the project APE were identified and evaluated in accordance with Section 106, National Historic Preservation Act (NHPA) of 1966, as amended, and the regulations implementing Section 106 (36 CFR Part 800).

As a result of the NHPA, as amended, and CFR Part 800, federal agencies are required to take into account the impact of federal undertakings on historic properties in the area of the undertaking. Historic properties include buildings, structures, sites, objects, and/or districts that are eligible for or listed in the National Register of Historic Places (NRHP). As this project is receiving funding from the Federal Highway Administration (FHWA), it is subject to a Section 106 review.

The APE contains no properties listed in the NRHP.

The APE contains no properties that are recommended eligible for listing in the NRHP.

# **5.0 Conclusions**

The APE contains no properties listed in the NRHP.

As a result of identification and evaluation efforts for this project, no properties are recommended eligible for listing in the NRHP.

\*\*Please note that the report in its entirety is available for review in IN SCOPE at <a href="http://erms12c.indot.in.gov/Section106Documents/">http://erms12c.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE).

# PHASE IA ARCHAEOLOGICAL RECONNAISSANCE FOR THE SR 13 at SR 128 INTERSECTION IMPROVEMENT PROJECT, MADISON, TIPTON, AND HAMILTON COUNTIES, INDIANA

INDOT Des No. 2003081

Prepared for:

Federal Highway Administration and Indiana Department of Transportation

Prepared by:

Ryan Robinson Thomas Bodor Martin Fuess

Principal Investigator:

Thomas W. Bodor, MA, RPA

Michael Baker International, Inc. 100 Airside Drive Moon Township, PA 15108

May 24, 2024

# ABSTRACT

This report presents the results of the Phase Ia archaeological reconnaissance for the SR 13 at SR 128 Intersection Improvement Project in Madison, Hamilton, and Tipton counties, Indiana (Des. No. 2003081). The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA) proposes the undertaking located along SR 13 and SR 128 (E 296th Street) in Madison County, Indiana, at the intersection of Pipe Creek (Madison County), Madison (Tipton County), and White River (Hamilton County) Townships, on the *Frankton, IN*, USGS quadrangle, in Sections 4 and 5, Township 20N, Range 6E; and Sections 32 and 33, Township 21N, Range 6E. The project area can be viewed online at <a href="https://arcg.is/jqueP">https://arcg.is/jqueP</a> (the Des. No. is the most efficient search term once in the CRO - Public Web Map App).

The purpose of the project is to reduce the high number of severe crashes relative to traffic volume, while maintaining good intersection mobility. Specifically, the high frequency of right-angle crashes at the intersection may be attributed to suboptimal sightlines, high speeds along SR 13, and a large risk exposure window for vehicles on the minor approach. INDOT and the FHWA intend to proceed with the preferred alternative, which includes replacing the existing two-way stop control with a single-lane roundabout (RAB). The RAB will include raised concrete islands, a center truck apron, and outside truck aprons in the northwest and southwest quadrants. The preferred alternative includes new curb and gutters, a stormwater system, and lighting. The center of the RAB was shifted approximately 100 feet to the east of the existing intersection to avoid impacts to the bridge over Duck Creek.

The project will require the acquisition of approximately 3.26 acres of permanent right-of-way (ROW), which constitutes the archaeological survey area. Proposed excavation along the project corridor includes the removal of the existing roadway and roadbed to a depth of approximately 2.5 feet; a drainage system with pipes and structure depths ranging from 4 to 6 feet deep; and excavation to install lighting foundations at a depth of 8 feet.

While there are no previously identified archaeological sites within a one-mile (1.6 km) radius of the project area, the environmental setting suggests a moderate to high potential for encountering pre-Contact archaeological sites.

The field investigations, which were conducted on June 1 through June 4, 2023, consisted of pedestrian reconnaissance, surface collection and the excavation of shovel test probes.

Phase Ia survey resulted in the identification of one archaeological site, 12M0880, consisting of a single, isolated, pre-Contact lithic flake. The site is recommended as not eligible for inclusion in the National Register of Historic Places (NRHP).

# CONCLUSIONS AND RECOMMENDATIONS

# Summary

Michael Baker completed a Phase Ia archaeological reconnaissance for proposed improvements to the SR 13 intersection with SR 128 and E 296<sup>th</sup> St. in Hamilton, Madison, and Tipton Counties, Indiana on behalf of the INDOT and FHWA. The study area for the proposed undertaking measures 2.9 ha (7.1 ac) and consists of permanent and temporary ROW. Field investigations were conducted between June 1-4, 2023, and consisted of pedestrian reconnaissance, surface survey, and subsurface sampling through excavation of 31 STPs.

One precontact archaeological site, 12M0880, was identified within the northeast quadrant of the SR 13 and SR 128 intersection. The site consists of a single lithic flake recovered from within 10 cm of the ground surface in plowzone context from STP NE 17. Radial STPs excavated at five and 10 meters to the north, south, and east were all negative for archaeological materials. A cut slope along the SR 13 right-of-way within five meters west of the positive STP prevented the excavation of radial STPs to the west of NE 17. No other archaeological materials were identified through subsurface sampling or other methods within the survey area.

# Recommendations

Phase Ia archaeological reconnaissance resulted in the identification of one archaeological site within the survey area. Site 12M0880 consists of a single lithic flake recovered from plowzone context. Neither the artifact nor the site occupation is attributable to a specific cultural group or temporal affiliation. It is the

opinion of Michael Baker that 12M0880 lacks information potential and, therefore, is unlikely to yield information important to the interpretation of Indiana prehistory. Michael Baker recommends that 12M0880 is not eligible for the NRHP. No additional investigations are recommended at 12M0880. In addition, based on the results of the Phase Ia reconnaissance, Michael Baker recommends that the study area is unlikely to contain archaeological resources that are eligible for the NRHP and that no additional archaeological investigations are warranted within the study area based on the current design.

Should any human remains, burial objects, or features be uncovered during construction, work must immediately cease in the location of the discovery and INDOT-CRO and INDR, DHPA notified immediately.

\*\*Please note that the report in its entirety is available for review in IN SCOPE at <a href="http://erms12c.indot.in.gov/Section106Documents/">http://erms12c.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE).



Eric Holcomb, Governor Daniel W. Bortner, Director

Division of Historic Preservation & Archaeology  $\cdot$  402 W. Washington Street, W274  $\cdot$  Indianapolis, IN 46204-2739 Phone 317-232-1646  $\cdot$  Fax 317-232-0693  $\cdot$  dhpa@dnr.IN.gov  $\cdot$ 

August 19, 2024

Katherine Molnar Architectural Historian Michael Baker International, Inc. 3815 River Crossing Parkway, Suite 20 Indianapolis, Indiana 46240

Federal Agency: Indiana Department of Transportation ("INDOT"),

on behalf of Federal Highway Administration, Indiana Division ("FHWA")

Re: Indiana Department of Transportation's finding of "no historic properties affected," on behalf of

the Federal Highway Administration, for the State Road 13 at SR 128 Intersection Improvement

Project (Des. No. 2003081; DHPA No. 30736)

### Dear Ms. Molnar:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the "Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana," the staff of the Indiana State Historic Preservation Officer ("Indiana SHPO") has reviewed your July 23, 2024, submission, which enclosed INDOT's finding and supporting documentation, received by our office July 23, 2024, for this project, which is proposed for locations at Pipe Creek Township, in Madison County; and at Madison Township, in Tipton County; and at White River Township, in Hamilton County; Indiana.

As we previously stated, the area of potential effects ("APE") proposed in the HPSR appears to be of adequate size to encompass the geographic area in which direct and indirect effects of a project of this nature could occur. For the purposes of the Section 106 review of this federal undertaking, we agreed with the conclusions in the HPSR that there are no previously recorded National Register of Historic Places ("NRHP")-listed or -eligible resources located within the APE. Furthermore, we also agreed with the conclusions in the HPSR of the other historic-aged resources documented during survey and that there are no resources listed or eligible for the NRHP within the APE.

In terms of archaeological resources, as previously indicated, based on the submitted information and the documentation available to the staff of the Indiana SHPO, we have not identified any currently known archaeological resources listed in or eligible for inclusion in the National Register of Historic Places ("NRHP") within the proposed project area. We concur with the opinions of the archaeologist, as expressed in the Phase Ia archaeological field reconnaissance survey report (Robinson et al., 05/24/2024), that archaeological site 12-M-00880 (which was identified during archaeological investigations) does not appear to be eligible for inclusion in the NRHP, and that no further archaeological investigations appear necessary at the proposed project area.

If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29) requires that the discovery be reported to the Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. Part 800.

Katherine Molnar August 19, 2024 Page 2

Accordingly, we concur with INDOT's July 18, 2024, Section 106 finding of "No Historic Properties Affected" on behalf of FHWA for this federal undertaking.

The Indiana SHPO staff's archaeological reviewer for this project is Wade T. Tharp, and the structures reviewer is Toni Lynn Giffin. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the State Road 13 at SR 128 Intersection Improvement Project (Des. No. 2003081)

State Road 13 at State Road 128 Intersection Improvement Project (Des. No. 2003081), which is proposed for locations at Pipe Creek Township, in Madison County; and at Madison Township, in Tipton County; and at White River Township, in Hamilton County; Indiana; please refer to DHPA No. 30736.

Very truly yours,

Beth K. McCord

Deputy State Historic Preservation Officer

BKM:TLG:WTT:wtt

emc: Matt Coon, Ph.D., Indiana Department of Transportation Susan Branigin, Indiana Department of Transportation Molly Barletta, Kaskaskia Engineering, Inc. Katherine J. Molnar, Michael Baker International Thomas Bodor, Michael Baker International, Inc. Toni Lynn Giffin, Indiana DNR-DHPA

Wade T. Tharp, Indiana DNR-DHPA



GANNETT

PO Box 630485 Cincinnati, OH 45263-0485

# AFFIDAVIT OF PUBLICATION

DEFAULT Michael Baker International 3815 River Crossing PKWY # 20 Indianapolis IN 46240-7756

# STATE OF WISCONSIN, COUNTY OF BROWN

The Indianapolis Star, a daily newspaper published in the city of Indianapolis, Marion County, State of Indiana, and personal knowledge of the facts herein state and that the notice hereto annexed was Published in said newspapers in the issue:

### 08/01/2024

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**Public Notice** 

Public Notice
Des. No. 2003081

The Indiana Department of Transportation (INDOT), is planning to undertake a intersection improvement project funded in part by the Federal Highway Administration. The project is located along SR 13 and SR 128 in Madison County, Indiana. Under the preferred alternative, the proposed project would involve replacing the existing two-way stop control with a single-lane roundabout (RAB). The RAB will include raised concrete islands, a center truck apron, and outside truck aprons in the northwest and southwest quadrants. The preferred alternative includes new curb and gutters, a stormwater system, and lighting. The project will require the acquisition of approximately 3.26 acres of permanent right-of-way (ROW). Proposed excavation along the project corridor includes the removal of the existing roadway and roadbed to a depth of approximately 2.5 feet, a drainage system with pipes and structure depths ranging from 4 to 6 feet deep, and excavation to install lighting foundations at a to 6 feet deep, and excavation to install lighting foundations at a depth of 8 feet.

depth of 8 feet.
The proposed action does not impact properties listed in or eligible for the National Register of Historic Places. The INDOT, on behalf of the FHWA, has issued a "No Historic Properties Affected" finding for the project due to the fact that no historic properties are present within the Area of Potential Effects (APE). In accordance with the National Historic Preservation Act, the views of the public are being sought regarding the effect of the proposed project on the historic elements as per 36 CFR 800.2(d), 800.3(e) and 800.6(a)(4). Pursuant to 36 CFR 800.4(d)(1), the documentation specified in 36 CFR 800.11(d) is available for inspection in the office of Michael Baker International, Inc. Additionally, this documentation can be viewed electional, Inc. Additionally, this documentation can be viewed electronically by accessing INDOT's Section 106 document posting website

IN SCOPE at

website N SCOPE at http://erms12c.indot.in.gov/Section106Documents. This documentation serves as the basis for the "No Historic Properties Affected" finding. The views of the public on this effect finding are being sought. Please reply with any comments to Katherine Molnar, Michael Baker International, Inc., 3815 River Crossing Parkway, Suite 20, Indianapolis, IN 46240, or at Katherine. Molnar@mbakerintl.com. no later than August 31, 2024. In accordance with the "Americans with Disabilities Act", if you have a disability for which INDOT needs to provide accessibility to the document(s) such as interpreters or readers, please contact Kim Szewczak, 765-745-8291, kszewczak@indot.in.gov. (INI - 8/1/24 - 10426582)

NANCY HEYRMAN Notary Public State of Wisconsin

# APPENDIX E

Red Flag Investigation and Hazardous Materials



# 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: June 8, 2023

To: Site Assessment & Management (SAM)

Environmental Policy Office - Environmental Services Division (ESD)

Indiana Department of Transportation (INDOT)

100 N Senate Avenue, Room N758-ES

Indianapolis, IN 46204

From: Jessica Stern

Kaskaskia Engineering Group, LLC

301 North Neil Street

Suite 400 Champaign, IL

jstern@kaskaskiaeng.com

Re: RED FLAG INVESTIGATION

DES # 2003081, State Project

Intersection Improvement, Roundabout

SR 13 and SR 128

Hamilton, Madison, and Tipton Counties, Indiana

# **PROJECT DESCRIPTION**

The proposed state project is located at the intersection of SR 13 and SR 128, in the Indiana Department of Transportation (INDOT) Greenfield District. The proposed project includes replacing the existing two-way stop control with a single-lane roundabout (RAB). The RAB will include raised concrete islands, a center truck apron, and outside truck aprons in the northwest and southwest quadrants. The project includes new curb and gutters, a stormwater system, and lighting. The center of the RAB was shifted approximately 100 feet to the east to avoid impacts to the bridge over Duck Creek; this bridge is included in the project area, but no work to the bridge is expected.

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 <u>historical</u> bridge, please include the bridge information in the Recommendations
Section of the report).
Culvert Work Included in Project: Yes □ No ⊠ Structure #(s)
Proposed right of way: Temporary □ # Acres Permanent ⊠ # Acres3.26, Not Applicable □
Type and proposed depth of excavation: Removal of existing roadway and excavation of roadbed to 2.5 feet below ground surface (ft-bgs) will be required for the construction of the RAB; installation of a drainage system, with pipes and structure depths ranging from 4 to 6 ft-bgs; excavation to install lighting foundations will be 8 ft-bgs. Maintenance of traffic (MOT): Maintenance of traffic will be phased and include lane shifts, lane closures, and a detour. Work in waterway: Yes $\boxtimes$ No $\square$ Below ordinary high water mark: Yes $\boxtimes$ No $\square$

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	N/A	Recreational Facilities	N/A
Airports <sup>1</sup>	1	Pipelines	1
Cemeteries	1	Railroads	N/A
Hospitals	N/A	Trails	1
Schools	N/A	Managed Lands	N/A

<sup>&</sup>lt;sup>1</sup>In order to complete the required airport review, a review of public-use airports within 3.8 miles (20,000 feet) is required.

# Explanation:

**Airports:** Although not located within the 0.5 mile search radius, one (1) public-use airport, Elwood Airport, is located within 3.8 miles (20,000 feet) of the project area. Elwood Airport is located 2.68 miles northeast of the project area; however, upon further inspection, the airport is no longer in operation. No impact is expected.

**Cemeteries:** One (1) cemetery is located within the 0.5 mile search radius. Mount Pleasant Cemetery is located 0.34 mile northwest of the project area. No impact is expected.

**Pipelines:** One (1) pipeline segment is located within the 0.5 mile search radius. The pipeline segment is located 0.41 mile southeast of the project area. No impact is expected.

**Trails:** One (1) potential trail segment is located within the 0.5 mile search radius. The potential trail segment is located within the project area. Coordination with Hamilton County Planning Commission will occur.

# **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 8								
Canal Structures – Historic N/A Lakes N/A								
NPS NRI Listed	N/A	Floodplain - DFIRM	6					
NWI-Lines	11	Cave Entrance Density	N/A					
IDEM 303d Listed Streams and Lakes (Impaired)  2 Sinkhole Areas  N/A								
Rivers and Streams	5	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:

**NWI-Lines:** Eleven (11) NWI line segments are located within the 0.5 mile search radius. Three (3) NWI line segments are located within the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

**IDEM 303d Listed Streams and Lakes (Impaired):** Two (2) IDEM 303d Listed Streams are located within the 0.5 mile search radius. Duck Creek is located within the project area. Duck Creek is listed as impaired for E. *coli*.

• Duck Creek is listed for E. *coli*. Workers who are working in or near water with E. *coli* should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.

**Rivers and Streams:** Five (5) river and stream segments are located within the 0.5 mile search radius. One (1) stream segment, Duck Creek, is located within the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

**NWI-Wetlands:** Eight (8) wetland polygons are located within the 0.5 mile search radius. Two (2) wetland polygons are located within the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

**Floodplain-DFIRM:** Six (6) floodplain polygons are located within the 0.5 mile search radius. The project area is located within one of the floodplain polygons. Coordination with INDOT ESD Ecology and Waterway Permitting 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 4 Mineral Resources N/A								
Mines – Surface N/A Mines – Underground N/A								

# Explanation:

**Petroleum Wells:** Four (4) petroleum wells are located within the 0.5 mile search radius. The nearest petroleum well is located 0.12 mile southeast of the project area. No impact is expected.

# 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	1	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

Unless otherwise noted, site specific details presented in this section were obtained from documents reviewed on the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC).

### Explanation:

**State Cleanup Sites:** One (1) state cleanup site is located within the 0.5 mile search radius. Former Marathon Station #3491, IN St. Hwy 37 and IN St. Hwy 13, Agency Interest (AI) ID# 45569, is located approximately 0.25 mile north of the project area. A DNR Record of Water Well for abandonment of groundwater monitoring wells was submitted on November 14, 2014. An Environmental Restrictive Covenant was placed on the property on September 19, 2014. No impact is expected.

# **ECOLOGICAL INFORMATION SUMMARY**

The Hamilton, Madison, and Tipton County listings of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities are provided at <a href="https://www.in.gov/dnr/nature-preserves/files/np\_hamilton.pdf">https://www.in.gov/dnr/nature-preserves/files/np\_hamilton.pdf</a>; <a href="https://www.in.gov/dnr/nature-preserves/files/np\_tipton.pdf">https://www.in.gov/dnr/nature-preserves/files/np\_tipton.pdf</a>. A preliminary review of the Indiana Natural Heritage Database by INDOT ESD did indicate the presence of ETR species within the 0.5 mile search radius. Coordination with 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 range-wide programmatic coordination 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:**

Trails: One (1) trail segment is located within the project area. Coordination with Hamilton County Planning Commission will occur.

# WATER RESOURCES:

Duck Creek is listed for E. *coli*. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.

A Waters of the US Report is recommended based on the presence of mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur for the following features:

- Three (3) NWI line segments are located within the project area.
- One (1) stream, Duck Creek, flows through the project area.
- Two (2) NWI wetland polygons are located within the project area.
- The project area is located within a floodplain (coordination only).

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

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

Dariane

Digitally signed by Dariane Davis

INDOT ESD concurrence: Davis

Date: 2023.06.08 10:53:33 -04'00' (Signature)

Prepared by:

Jessica Stern

**Environmental Scientist** 

Kaskaskia Engineering Group, LLC

# **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** 

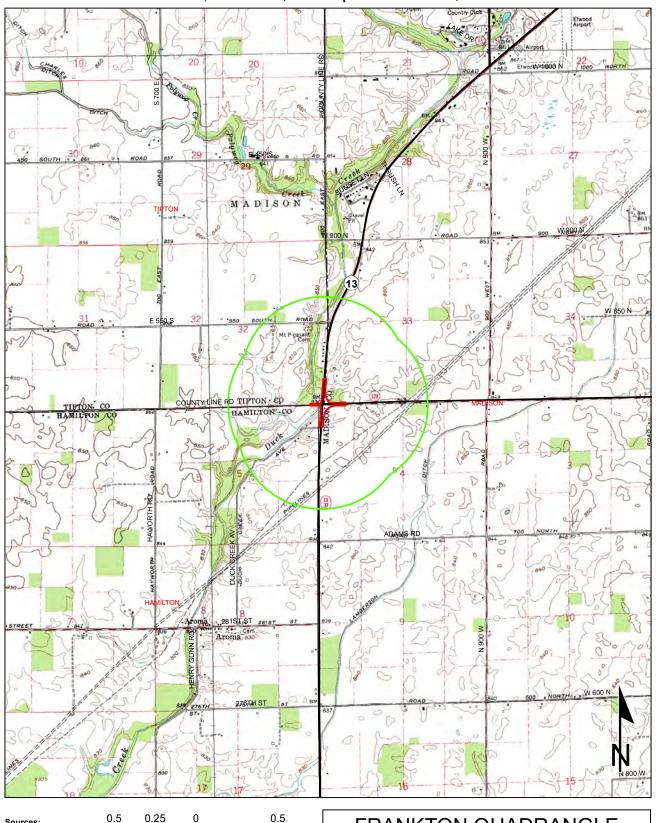
WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: YES

# Red Flag Investigation - Site Location SR 13 and SR 128

Des. No. 2003081, Intersection Improvement, Roundabout Hamilton, Madison, and Tipton Counties, Indiana



0.25 0.5 Miles

Non Orthophotography

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

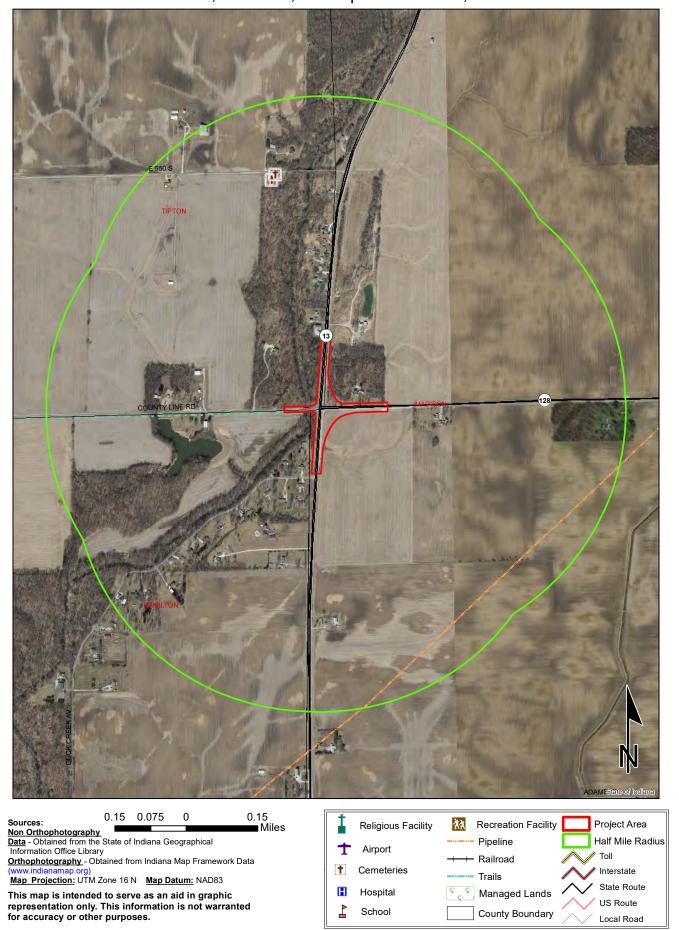
Orthophotography - Obtained from Indiana Map Framework Data Map Projection: UTM Zone 16 N Map Datum: NAD83

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

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

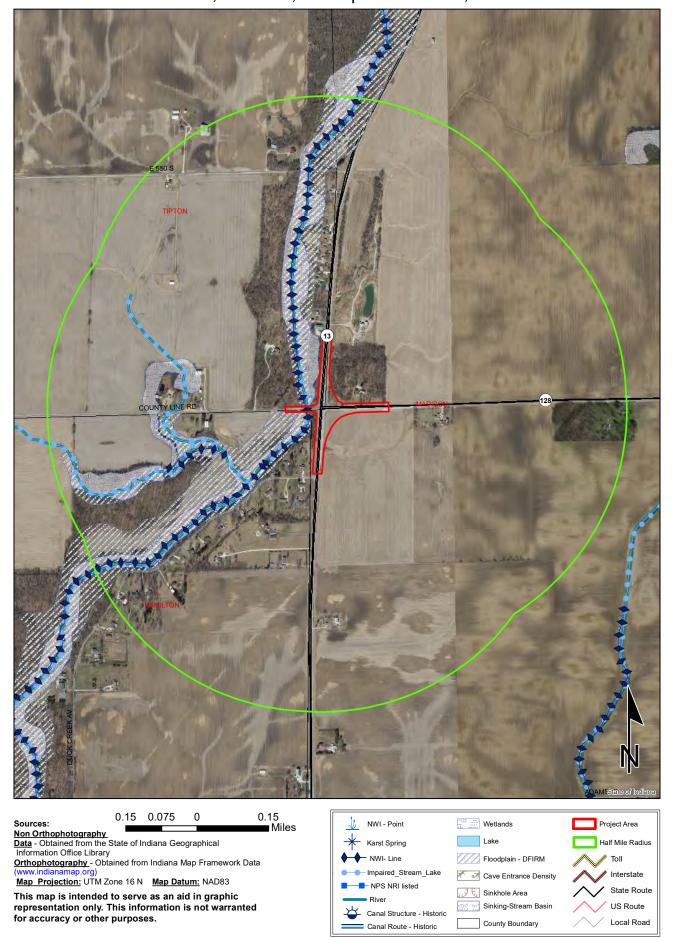
# Red Flag Investigation - Infrastructure SR 13 and SR 128

Des. No. 2003081, Intersection Improvement, Roundabout Hamilton, Madison, and Tipton Counties, Indiana



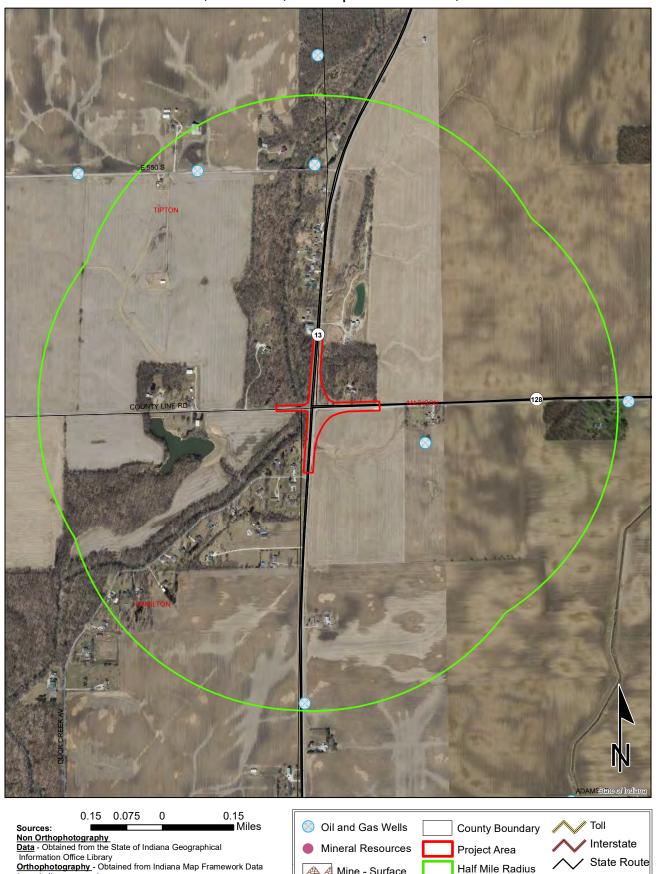
# Red Flag Investigation - Water Resources SR 13 and SR 128

Des. No. 2003081, Intersection Improvement, Roundabout Hamilton, Madison, and Tipton Counties, Indiana



# Red Flag Investigation - Mining and Mineral Exploration SR 13 and SR 128

Des. No. 2003081, Intersection Improvement, Roundabout Hamilton, Madison, and Tipton Counties, Indiana



A Mine - Surface

Underground

Mine -

**US Route** 

Local Road

(www.indianamap.org)

Map Projection: UTM Zone 16 N Map Datum: NAD83

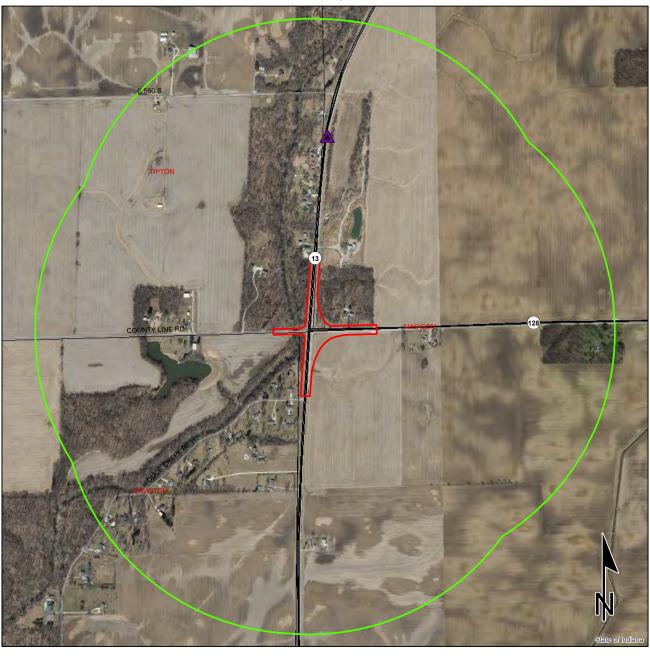
for accuracy or other purposes.

This map is intended to serve as an aid in graphic

representation only. This information is not warranted

# Red Flag Investigation - Hazardous Material Concerns SR 13 and SR 128

Des. No. 2003081, Intersection Improvement, Roundabout Hamilton, Madison, and Tipton Counties, Indiana





0.15 0.075 0 0.15 Miles

This map is intended to serve as an aid in graphic

# **APPENDIX F**

Water Resources

Approved 11.29.23

# WATERS OF THE U.S. DETERMINATION REPORT SR 13 and SR 128 Intersection Hamilton, Madison, and Tipton Counties, Indiana Intersection Improvement Project INDOT DES. NO. 2003081

Asset ID: Str. #80-00093B/NBI #8000092
Prepared by: Brigitte Moneymaker
Contact Information: bmoneymaker@kaskaskiaeng.com, 618-233-5877
Kaskaskia Engineering Group, LLC
Completed Date: November 20, 2023

Photo directional map and photo log omitted to avoid duplication.

# 1.0 PROJECT INFORMATION

### **Date of Field Reconnaissance:**

May 10, 2023 and August 9, 2023

# **Project Location:**

Frankton, Indiana Quadrangle Section 4, Township 20 North, Range 6 East Section 5, Township 20 North, Range 6 East Section 32, Township 21 North, Range 6 East Section 33, Township 21 North, Range 6 East

Coordinates: 40.21892, -85.86193

Hamilton, Madison, and Tipton Counties, Indiana

# **Project Description:**

The proposed state project (Des. No. 2003081) is located at the intersection of SR 13 and SR 128, in Hamilton, Madison, and Tipton counties in the Indiana Department of Transportation (INDOT) Greenfield District (Figure 1). The proposed project includes replacing the existing two-way stop control with a single-lane roundabout (RAB). The RAB will include raised concrete islands, a center truck apron, and outside truck aprons in the northwest and southwest quadrants. The project includes new curb and gutters, a stormwater system, and lighting. The center of the RAB was shifted approximately 100 feet to the east to avoid impacts to the bridge over Duck Creek. The following structure is located in the project area, but no work to the bridge is expected.

**Table 1 – Structure Summary Table** 

Asset ID	Latitude	Longitude	Туре	Condition	Route Carried	Length (ft)
Str. #80-00093B/ NBI #8000092	40.21895	-85.86247	Concrete Cast-in- Place	Excellent	SR 128	40

# 2.0 OFFICE EVALUATION

**Results:** 

# **USGS Mapping**

The United States Geological Survey (USGS) Frankton, Indiana 7.5-minute topographic quadrangle map indicates a perennial stream associated with Duck Creek within the investigated area (Figures 2 and 3).

# **NWI Mapping**

The United States Fish and Wildlife Service National Wetlands Inventory (NWI) map was reviewed for the presence of potential wetlands in, or adjacent to, the investigated area (Figure 4). There were two NWI features mapped within the investigated area. One Palustrine NWI Wetland is located in the northwest quadrant and the southwest quadrant, directly adjacent to SR 128 on the north and south sides. One Riverine NWI wetland crosses from the northwest quadrant, under SR 128, and continues to the southwest quadrant. Both NWI wetland features are associated with Duck Creek. There are no other mapped NWI features within the investigated area.

Table 2 - NWI Wetlands Within/Adjacent the Investigated Area

Wetland Type	Cowardin Classification Code	Location
Palustrine, Forested, Broad-Leaved Deciduous, Temporarily Flooded	PFO1A	Northwest quadrant and southwest quadrant
Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded	R2UBH	Northwest quadrant and southwest quadrant

Source: USFWS NWI, 2023

### Mapped Soil Units

According to the National Resource Conservation Service Web Soil Survey (NRCS WSS) geographic database for Clark County, Indiana, the investigated area contains six soil map units (Figure 5, Table 3).

Table 3 – Soil Units within the Investigated Area

Soil Unit Symbol	Soil Unit	Hydric Rating	Hydric Status
CrA	Crosby silt loam, fine-loamy subsoil, 0 to 2 percent slopes	2	Predominantly Non- Hydric
FsC2	Fox silt loam, till substratum, 6 to 12 percent slopes, moderately eroded	0	Non-Hydric
MnB2	Miami silt loam, 2 to 6 percent slopes, eroded	6	Predominantly Non- Hydric
OcB2	Ockley silt loam, 2 to 6 percent slopes, eroded	5	Predominantly Non- Hydric
Sh	Sloan silt loam, sandy substratum, occasionally flooded	100	Hydric
ThrA	Treaty silty clay loam, 0 to 1 percent slopes	95	Predominantly Hydric

Source: NRCS Web Soil Survey, 2023

### Hydrology

According to the USGS National Hydrography Dataset (NHD), there are three NHD flowlines within the investigated area (Figure 6). One Artificial Path NHD flowline associated with Duck Creek flows through the investigated area from north to south under SR 128. One Stream/River NHD flowline flows within the investigated area from east to west under SR 13 and is associated with Unnamed Tributary (UNT) 1 & 2 to Duck Creek. One drainageway flowline flows within the investigated area from southeast to northwest under SR 13 south of SR 128 and is associated with another UNT 3 to Duck Creek. According to the Indiana Department of Natural Resource (IDNR) Indiana Floodplain Informational Portal (INFIP 2.0), the investigated area is located with the Duck Creek and the Big Duck Creek floodplain (Figure 7.1 & 7.2). This project does not lie within the karst region of Indiana.

# 3.0 FIELD RECONNAISSANCE

### **Results:**

# Bats and Birds:

There was no evidence of the presence of bats or birds found during the site visit.

# Wildlife Evidence and Concerns:

There was no evidence of wildlife found during the visit.

# Streams:

Four streams were identified within the investigated area.

# Duck Creek

Duck Creek would likely be classified as a perennial stream because it was observed to have a consistent base flow and is it mapped as perennial on the USGS topographic map (Figures 1 and 2). Hydrologic conditions were normal based on the previous three months of rainfall data (USACE APT v 1.0.20). The channel flows from north to south under SR 128. According to USGS StreamStats, Duck Creek has an upstream drainage of 61.93 square miles (Figure 9). It is within the USGS 12-digit Hydrological Unit Lamberson Ditch-Duck Creek (HUC12 051202010505). The upstream drainage consists of forested tracts, agricultural fields, and a small number of rural residences.

The observed ordinary high water mark (Coordinates: 40.21831, -85.86260) was approximately 30-feet wide and 5-feet deep. It was measured 204-feet downstream of SR 128, outside the influence of the bridge (Str. #80-00093B/NBI #8000092) and was characterized by the destruction of terrestrial vegetation along the stream bank.

The substrate within the channel was comprised of pebbles, sand, and gravel. There was no riprap present on the banks or at the location of the observed OHWM. There were no riffles or pools present in the channel and in-stream cover from overhanging vegetation was approximately 50%. Duck Creek has a defined bed and bank with severe undercutting and erosion on the east bank, downstream of SR 128. The west bank was approximately 8-feet high, and the east bank was 30-feet high, both measured from the elevation of the stream. Duck Creek appears to have been straightened and channelized for draining the surrounding landscape, including nearby rural residences and row crop fields.

There were no plant species present within the stream channel. The dominant plant species on the stream banks were Japanese Honeysuckle (Lonicera japonica, FACU), Canada Goldenrod (Solidago canadensis,

FACU), and Reed Canary Grass (*Phalaris arundinacea*, FACW). Based on a qualitative assessment, this resource is of poor quality within this reach due to its morphology and an E. coli impairment, according to Indiana's 303(d) list.

The water was flowing from north to south during the site visit. Duck Creek flows approximately 6.65 miles southwest into West Fork White River, which then flows 153.43 miles southwest into Wabash River, and an additional 44.83 miles southwest into the Ohio River. The West Fork of the White River is a section 10 navigable river throughout both Madison and Hamilton counties, Duck Creek would likely be considered a Waters of the US.

### UNT1 to Duck Creek

UNT1 to Duck Creek would likely be considered an ephemeral stream because it was observed to have a bed and bank but, seems to originate a short distance upstream from flow off a business parking area slope. There was no water or flow present during normal hydrological conditions. According to USGS StreamStats, UNT1 to Duck Creek has a combined upstream drainage with UNT 2 to Duck Creek of 0.36 square miles (Figure 9.2). It is within the USGS 12-digit Hydrological Unit Lamberson Ditch-Duck Creek (HUC12 051202010505). The upstream drainage consists of a forested tract and a row crop agricultural field.

The observed ordinary high water mark (Coordinates: 40.22054, -85.86151) was observed to be 2.16-feet wide 0.25-feet deep. It was measured 36-feet upstream of SR 13, outside the influence of the corrugated metal pipe, a residential metal fence prevented measuring any further upstream. The OWHM was characterized by the presence of matted down, bent, or absent vegetation.

The substrate within the channel was silt and detritus. There was no riprap present on the banks or at the location of the observed OHWM. There were no riffles or pools present in the channel and the in-stream cover from the overhanging vegetation was approximately 70 percent. UNT1 to Duck Creek had a defined bed and bank, and both the north and south banks were approximately 3-feet high measured from the streambed.

The dominant plant species within the channel included Spotted Touch-me-not (*Impatiens capensis*, FACW). The dominant species on the banks were Virginia Creeper (*Parthenocissus quinquefolia*, UPL), Japanese Honeysuckle (FACU), and Reed Canary Grass (FACW). Based on a qualitative assessment, this resource is of poor quality within this reach due to its morphology and substrate.

UNT1 to Duck Creek flows 30-feet southwest into UNT2 to Duck Creek, which then flows 351 feet northwest into Duck Creek. Duck Creek flows approximately 6.65 miles southwest into West Fork of the White River, which then flows 153.43 miles southwest into Wabash River, and an additional 44.83 miles southwest into the Ohio River. The West Fork of the White River is a section 10 navigable river throughout both Madison and Hamilton counties, UNT1 to Duck Creek would likely be considered a Waters of the US.

# UNT2 to Duck Creek

UNT2 to Duck Creek would likely be considered an intermittent stream because it was observed to have a bed and bank but there was no water or flow present during normal hydrological conditions. According to USGS StreamStats, UNT2 to Duck Creek has a combined upstream drainage with UNT 1 to Duck Creek of 0.36 square miles (Figure 9.2). It is within the USGS 12-digit Hydrological Unit Lamberson Ditch-Duck Creek (HUC12 051202010505). The upstream drainage consists of a forested tract and a row crop agricultural field.

The observed ordinary high water mark (Coordinates: 40.22048, -85.86151) was observed to be 3-feet wide 0.42-feet deep. It was measured 36-feet upstream of SR 13, outside the influence of the corrugated metal pipe, a residential metal fence prevented measuring any further upstream. The OWHM was characterized by the presence of matted down, bent, or absent vegetation.

The substrate within the channel was silt and detritus. There was no riprap present on the banks or at the location of the observed OHWM. There were no riffles or pools present in the channel and the in-stream cover from the overhanging vegetation was approximately 65 percent. UNT2 to Duck Creek had a defined bed and bank, and both the north and south banks were approximately 3-feet high measured from the streambed. The dominant plant species within the channel included Spotted Touch-me-not (FACW). The dominant species on the banks were Virginia Creeper (UPL), Japanese Honeysuckle (FACU), and Reed Canary Grass (FACW). Based on a qualitative assessment, this resource is of poor quality within this reach due to its morphology and substrate.

UNT2 to Duck Creek flows 351 feet northwest into Duck Creek. Duck Creek flows approximately 6.65 miles southwest into West Fork of the White River, which then flows 153.43 miles southwest into Wabash River, and an additional 44.83 miles southwest into the Ohio River. The West Fork of the White River is a section 10 navigable river throughout both Madison and Hamilton counties, UNT1 to Duck Creek would likely be considered a Waters of the US.

### **UNT3** to Duck Creek

UNT3 to Duck Creek would likely be considered an intermittent stream because it was observed to be holding water but had no flow during normal hydrological conditions. According to USGS StreamStats, Duck Creek has an upstream drainage of 0.06 square miles (Figure 9.3). It is within the USGS 12-digit Hydrological Unit Lamberson Ditch-Duck Creek (HUC12 051202010505). The upstream drainage consists of a row crop agricultural field.

The observed ordinary high water mark (Coordinates: 40.21774, -85.86171) was approximately 6.25-feet wide and 5.40-feet deep. It was measured 60-feet upstream of SR 13, outside the influence of the stone culvert and was characterized by the presence of matted down, bent, or absent vegetation along the stream bank.

The substrate within the channel was comprised of silt and boulders. There was no riprap present on the banks or at the location of the observed OHWM. There were no riffles or pools present in the channel and in-stream cover from overhanging vegetation was approximately 95%. UNT3 to Duck Creek has a defined bed and bank, and both the north and south banks were approximately 3.5-feet high measured from the elevation of the stream. UNT3 to Duck Creek appears to have been straightened and channelized for draining the surrounding agricultural landscape.

The dominant plant species within the channel included hybridized cattail (*Typha X Glauca*, OBL), Late Goldenrod (*Solidago gigantea*, FACW), and Reed Canary Grass (FACW). The dominant plant species on the stream banks were Cutleaf Teasel (*Dipsacus laciniatus*, UPL), Canada Goldenrod (*Solidago canadensis*, FACU) and Common Milkweed (*Asclepias syriaca*, FACU). Based on a qualitative assessment, this resource is of poor quality within this reach due to its morphology and an E. coli impairment, according to Indiana's 303(d) list.

UNT3 to Duck Creek flows 298 feet northwest into Duck Creek. Duck Creek flows approximately 6.65 miles southwest into West Fork of the White River, which then flows 153.43 miles southwest into Wabash River, and an additional 44.83 miles southwest into the Ohio River. The West Fork of the White River is a section 10 navigable river throughout both Madison and Hamilton counties, UNT3 to Duck Creek would likely be considered a Waters of the US.

**Table 4 - Stream Summary Table** 

ID	Latitude		USGS Blue- Line (Y/N)		Riffles/ Pools (Y/N)	Substrate	OHWM Width (ft)		Stream Relative Quality	Estimated Amount of Aquatic Resources within Investigated Area (acres / linear foot)	Photo #s	Likely Water of the U.S.?
Duck Creek	40.21831	-85.86260	Y	Perennial	Y	Sand, Pebbles, Gravel	30	5	Poor	0.205 ac/ 298.88 lf	11, 12, 13, 15, 16	Yes
UNT1 to Duck Creek	40.22054	-85.86151	N	Ephemeral	N	Silt, Detritus	2.16	0.25	Poor	0.002 ac/42.54 lf	55, 56	Yes
UNT2 to Duck Creek	40.22048	-85.86151	N	Intermittent	N	Silt, Detritus	3	0.42	Poor	0.008 ac/126 If	52, 53, 54, 57, 58	Yes
UNT3 to Duck Creek	40.21774	-85.86171	N	Intermittent	N	Silt, Boulders	6.25	5.40	Poor	0.035 ac/247.24 lf	39, 40, 41, 42, 44	Yes

# Wetlands:

Three wetlands were identified within the investigated area in the northeast quadrant (Figure 8).

# Wetland 1

Based on the Classification of Wetlands and Deepwater Habitats of the United States Wetland 1 is a 0.02 acre palustrine emergent wetland (PEM) (Cowardin et al. 1979). Wetland 1 is located north of SR 128 and east of SR 13 in the roadside ditch between the road and the deciduous forest. The quality of the wetland

is poor due to disturbance, habitat quality, and vegetation cover. It functions as roadside drainage retention.

The data point Wetland Point 1 (WP1) was taken in the roadside ditch north of UNT1 and 2 to Duck Creek. The vegetation at this location was dominated by Reed Canary Grass (FACW) and foxtail barley (*Hordeum jubatum*, FAC) which passed the dominance test and prevalence index for hydrophytic vegetation. The sampled area is in a concave ditch between SR 13 and a forest tract, which meets one secondary wetland hydrology indicator, geomorphic position (D2). This location also passed the FAC neutral test (D5), another secondary hydrology indicator, and met the necessary threshold for wetland hydrology. According to a review of the USDA web soil survey, the mapped soil at this data point is Miami silt loam, (MnB2) which is categorized as a predominately non-hydric soil with a hydric rating of 6%. The soil profile was observed to meet the hydric soil indicator for Depleted Matrix (F3), indicating this sampled area contains hydric soil suitable for a wetland. After meeting all three wetland indicators, this location was determined to be a wetland.

The data point Upland Point 1 (UPL1) was taken outside of the ditch on the upland portion of the northeast quadrant. The sampled location had no wetland hydrology indicators present. The vegetation at this location was dominated by Canada thistle (*Cirsium arvense*, FACU) and reed canary grass (FACW). Although there was hydrophytic vegetation present, it was not observed in enough abundance to pass the wetland indicator for vegetation. The mapped soil at this data point is Miami silt loam, (MnB2) which is categorized as a predominately non-hydric soil with a hydric rating of 6%, but the observed soil profile at this sampled location was determined to be non-hydric. Since none of the wetland indicators were observed, this location was determined to not be a wetland.

Wetland 1 is likely jurisdictional due to its connection to Duck Creek.

# Wetland 2

Based on the Classification of Wetlands and Deepwater Habitats of the United States Wetland 2 is a 0.12 acre PEM (Cowardin et al. 1979). Wetland 2 is located in the northeast quadrant of the intersection of SR 124 and SR 13 and continues north along the east side of SR 13 in the roadside ditch between the road and the deciduous forest. The quality of the wetland is poor due to disturbance, habitat quality, and vegetation cover. It functions as roadside drainage retention.

The data point Wetland Point 2 (WP2) was taken in the northeast quadrant of the SR 13 and SR 128 intersection. The vegetation at this location was dominated by Meadow Foxtail (*Alopecurus pratensis* FACW), Foxtail Barley (FAC) and Curly Dock (*Rumex crispus*, FAC), which passed the dominance test and prevalence index for hydrophytic vegetation. The sampled area is located in a concave ditch between SR 13, SR 128, and a forested tract, which meets one secondary wetland hydrology indicator, geomorphic position (D2). This location also passes the FAC neutral test (D5), another secondary hydrology indicator, which meets the threshold for wetland hydrology. According to a review of the USDA web soil survey, the mapped soil at this data point is Ockley silt loam (OcB2) which is categorized as a predominately non-hydric soil with a hydric rating of 5%. The soil profile was observed to meet the hydric soil indicator for Redox Dark Surface (F6), indicating this sampled area contains hydric soil suitable for a wetland. After meeting all three wetland indicators, this location was determined to be a wetland.

The data point Wetland Point 2a (WP2a) was taken in the northeast quadrant, south of UNT1 and UNT 2 to Duck Creek. This point was taken to confirm the extent of the delineation for Wetland 2. The vegetation at this location was dominated by Meadow Foxtail (FACW), and Reed Canary Grass (FACW), which passed

the dominance test and prevalent index for hydrophytic vegetation. The sampled area is in a concave ditch between SR 13 and a forest tract, which meets one secondary wetland hydrology indicator, geomorphic position (D2). This location also passes the FAC neutral test (D5), another secondary hydrology indicator, which meets the threshold for wetland hydrology. According to a review of the USDA web soil survey, the mapped soil at this data point is Ockley silt loam (OcB2) which is categorized as a predominately non-hydric soil with a hydric rating of 5%. The soil profile was observed to meet the hydric soil indicator for Redox Dark Surface (F6) indicating this sampled area contains hydric soil suitable for a wetland. After meeting all three wetland indicators, this location was determined to be a wetland and a continuation of Wetland 2 as sampled by WP2.

The data point Upland Point 2 (UPL2) was taken outside of the ditch on the upland portion of the northeast quadrant. The sampled location had no hydrology wetland indicators present. The vegetation at this location was dominated by Common ragweed (*Ambrosia artemisiifolia*, FACU) Canada Goldenrod (FACU), bush honeysuckle (*Lonicera mackii*, NL), and Tree-of-heaven (*Ailanthus altissima*, FACU). There was no dominant hydrophytic vegetation present. The mapped soil at this data point is also Ockley silt loam (OcB2) which is categorized as a predominately non-hydric soil with a hydric rating of 5%, but the observed soil profile at this sampled location was determined to be non-hydric. Since none of the wetland indicators were observed, this sampled location was determined to not be a wetland.

Wetland 2 is likely jurisdictional due to its connection to Duck Creek.

### Wetland 3

Based on the Classification of Wetlands and Deepwater Habitats of the United States Wetland is a 0.03 acre PEM (Cowardin et al. 1979). Wetland 3 is located in the southeast quadrant of the intersection of SR 124 and SR 13 and continues north along the east side of SR 13 in the roadside ditch between the road and the row crop field. The quality of the wetland is poor due to disturbance, habitat quality, and vegetation cover. It functions as roadside drainage retention.

The data point Wetland 3 was taken in the roadside ditch north of UNT 3 to Duck Creek along the east side of SR 13. The vegetation was dominated by Meadow Foxtail (FACW) and Curly Dock (FAC) which passed the Dominance Test and Prevalence Index for hydrophytic vegetation. There were two secondary hydrology indicators met at this location, Geomorphic Position (D2) and the FAC-Neutral Test (D5). According to a review of the USDA web soil survey, the mapped soil at this data point is Ockley silt loam (OcB2) which is categorized as a predominately non-hydric soil with a hydric rating of 5%. Although the observed soil profile lacked any hydric indicators, this specific location's morphology has been modified through human activity that has led to this area's hydrology becoming more conducive to wetland hydrology. Therefore, this location was determined to meet the soil indicator for problematic hydric soil. The combination of all these indicators determined that this area was a recently developed wetland. The mapped delineation was determined by a combination of topography and the transition from Wetland 3 into RSD 6, a gravel ditch, in the southeast quadrant of the intersection. The change to non-hydric soil at Upland 3 established the boundary, and then further investigation closer to RSD 6 confirmed that both vegetation and hydrology were lost in this area. In the other direction, RSD 5 appeared to be the southern

boundary for Wetland 3, and this was supported with the observed change in drainage towards UNT 3 to Duck Creek at this location and the lack of wetland vegetation.

Wetland 3 is likely jurisdictional due to its connection to Duck Creek.

#### Upland 3

The data point Upland 3 was taken in the southeast quadrant of SR 128 and SR 13 between Roadside (RSD) 6 and RSD 7. The vegetation was dominated by Meadow Foxtail (FACW) which passed the Rapid Test, the Dominance Test, and the Prevalence Index for hydrophytic vegetation. There were two secondary hydrology indicators met at this location, Geomorphic Position (D2) and the FAC-Neutral Test (D5). According to a review of the USDA web soil survey, the mapped soil at this data point is Ockley silt loam (OcB2) which is categorized as a predominately non-hydric soil with a hydric rating of 5%. The observed soil profile did not meet any indicators for hydric soil. Since only two of the three necessary wetland indicators were observed, this sampled location was determined to not be a wetland.

No additional data points were taken in any other quadrants. The northwest quadrant consisted of forested tracts and a privately owned field behind a wire fence. There was no evidence of wetland hydrology or vegetation in this location. The southwest quadrant consisted of a row crop field and a forested buffer, where there was some wetland vegetation present along SR 128, but it was not in sufficient quantities to pass the hydrophytic vegetation indicator. There was also no evidence of wetland hydrology. The northeast and quadrant also consisted of one rural residence with a mowed grass lawn that extended all the way to SR 128 and SR 13 intersection. There was no vegetation or hydrology indicators found in these locations.

**Table 5 – Wetland Data Point Summary Table** 

ID	Latitude	Longitude	Classification	Relative Quality	Estimated Amount of Aquatic Resources in Review Area (acres)	Photo Numbers	Likely Water of the U.S.?
Wetland 1	40.22079	-85.86159	PEM	Poor	0.02	51, 59, 60,	Yes*
Wetland 2	40.21909	-85.86175	PEM	Poor	0.12	21, 22, 23, 25	Yes*
Wetland 3	40.21809	-85.86187	PEM	Poor	0.03	28, 29, 30	Yes*

<sup>\*</sup>INDOT acknowledges that the wetland would likely not meet the definition of a Waters of the US, however, INDOT is requesting that the USACE take jurisdiction of the wetland."

**Table 6 – Wetland Data Point Summary Table** 

ID	Latitude	Longitude	Vegetation	Soils	Hydrology	Upland/ Wetland/ Non- Wetland	Photos
Wetland Point 1 (WP1)	40.22078	-85.86159	Yes	Yes	Yes	Wetland	60
Upland Point 1 (UP1)	40.22082	-85.86163	No	No	No	Upland	62
Wetland Point 2 (WP2)	40.21909	-85.86175	Yes	Yes	Yes	Wetland	20
Wetland Point 2a (WP2a)	40.22044	-85.86164	Yes	Yes	Yes	Wetland	23
Upland Point 2 (UP2)	40.21905	-85.86164	No	No	No	Upland	24
Wetland 3 (WP3)	40.21809	-85.86187	Yes	Yes	Yes	Wetland	31
Upland 3 (UP3)	40.21881	-85.86181	Yes	No	Yes	Upland	29

#### **Roadside Ditch:**

There were seven roadside ditches (RSD) located within the investigated area (Table 7). All seven RSDs did not have a defined OWHM, did not carry a relatively permanent flow of water, and they were all determined to be excavated wholly in and draining only uplands. RSDs 1-7 are likely not jurisdictional, and their locations are highlighted in Figure 8.

**Table 7 – Roadside Ditch Summary Table** 

ID	Latitude	Longitude	Location	Flow Direction	Description	Length in investigated area (ft)	Photo #s
RSD 1	40.220717	-85.861853	NW Quadrant	S	Grassy swale	237.43	48, 49

ID	Latitude	Longitude	Location	Flow Direction	Description	Length in investigated area (ft)	Photo #s
RSD 1	40.220717	-85.861853	NW Quadrant	S Grassy swale		237.43	48, 49
RSD 2	40.217644	-85.862172	SW Quadrant	N Grassy swale		207.26	37
RSD 3	40.217202	-85.862231	SW Quadrant	N	N Grassy swale		32, 36
RSD 4	40.217185	-85.862027	SE Quadrant	N	Grassy swale	249.36	33, 35, 38
RSD 5	40.217997	-85.861898	SE Quadrant	S	Vegetated ditch	80.38	28, 43
RSD 6	40.218899	-85.861472	SE Quadrant	W	Gravel ditch	574.83	18, 26, 27
RSD 7	40.219013	-85.861414	NE Quadrant	W	Grassy swale	333.26	19

#### 4.0 CONCLUSIONS

Field observations revealed one likely perennial jurisdictional stream (Duck Creek) that has the potential to be impacted by the proposed project. Additionally, two intermittent streams, one ephemeral stream, and three emergent wetlands (Wetlands 1-3) were also found to be likely jurisdictional due to their connections to Duck Creek and have the potential to be impacted by the proposed project. Every effort should be taken to avoid and minimize impacts to these wetland and waterways. If impacts are necessary, then mitigation may be required. 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.

#### 5.0 ACKNOWLEDGEMENT

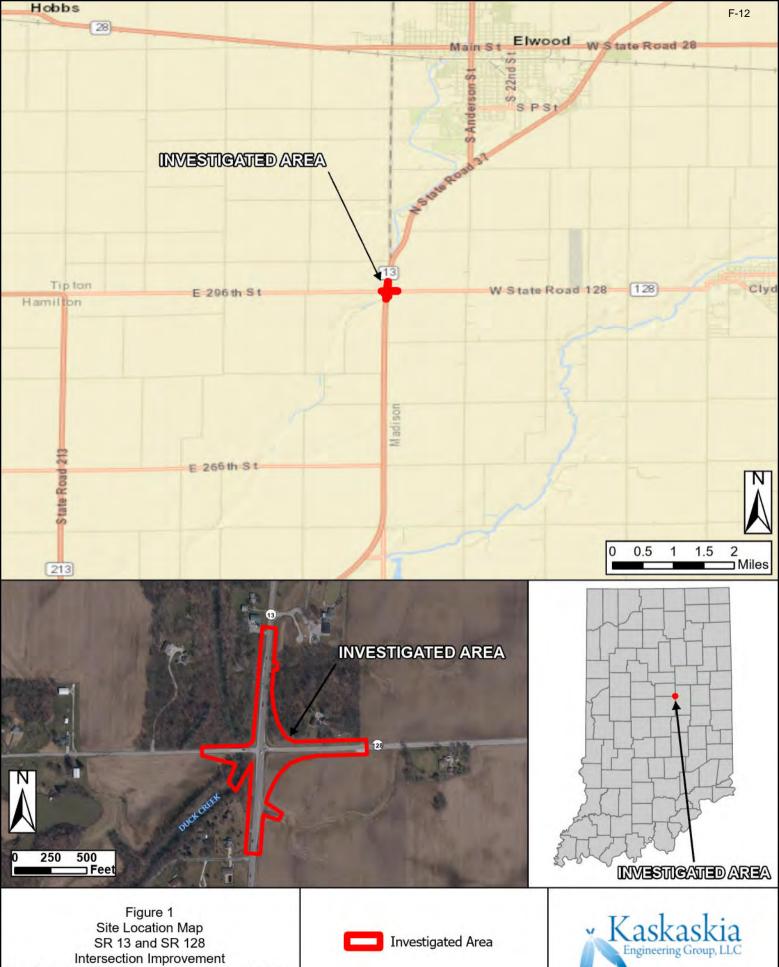
This waters determination report has been prepared based on the best available information, interpreted in the light of the investigator's training, experience, and professional judgement in conformance with the 1987 *Corps of Engineers Wetlands Delineation Manual*, the appropriate regional supplement,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

Date: 11/9/2023

Respectfully,

Kaskaskia Engineering Group, LLC

Brigitte Moneymaker



Hamilton, Madison, and Tipton Counties, Indiana Des. No. 2003081

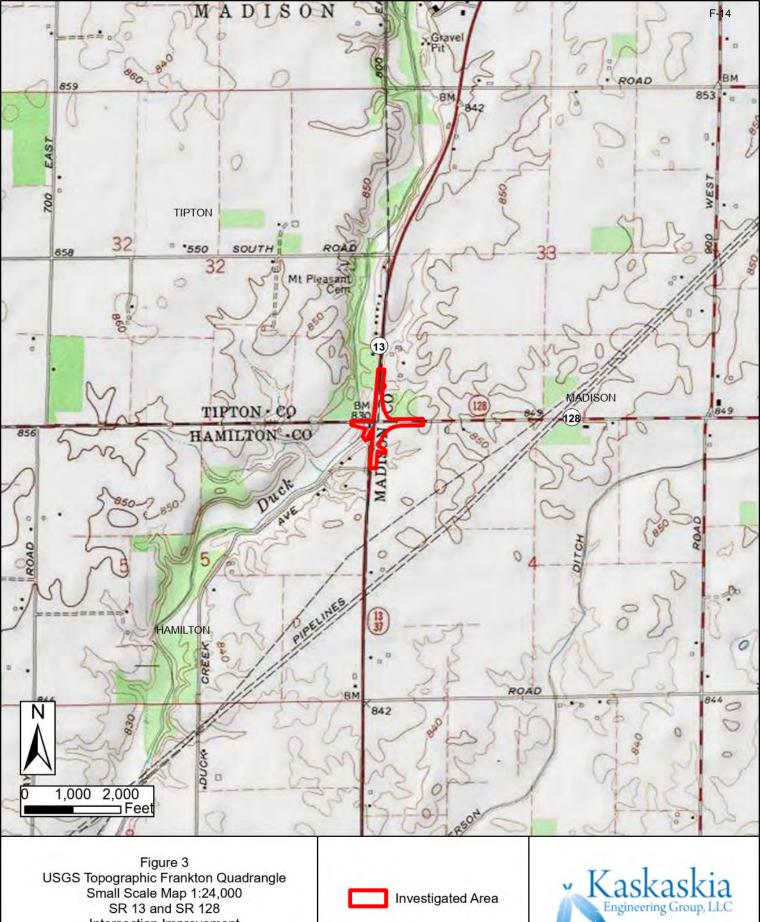




Figure 2
USGS Topographic Frankton Quadrangle
Large Scale Map 1:10,000
SR 13 and SR 128
Intersection Improvement
Hamilton, Madison, and Tipton Counties, Indiana
Des. No. 2003081







Intersection Improvement Hamilton, Madison, and Tipton Counties, Indiana Des. No. 2003081



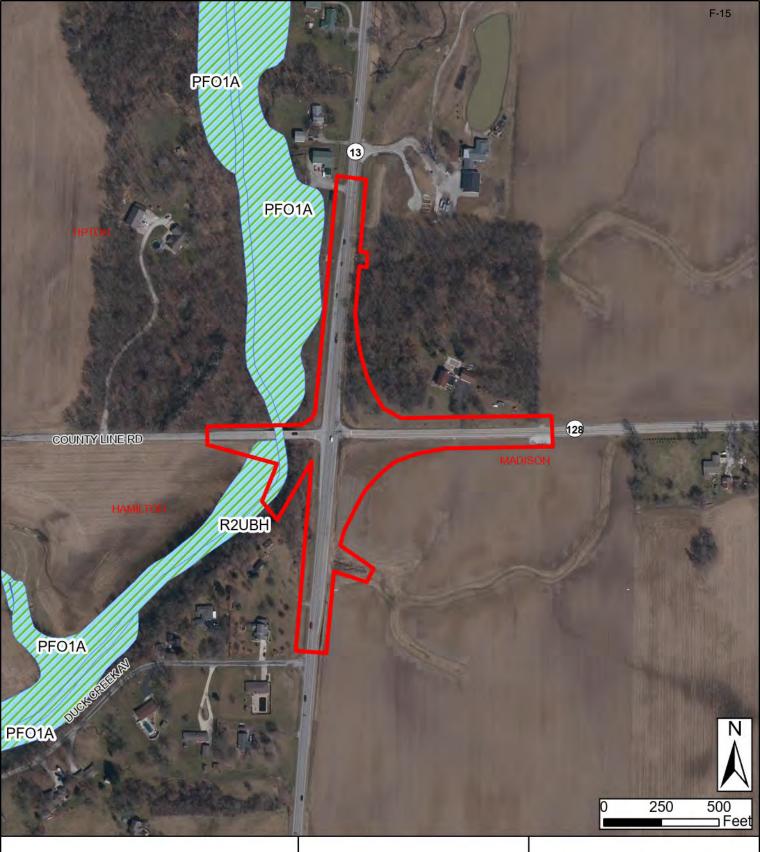
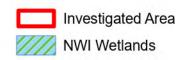
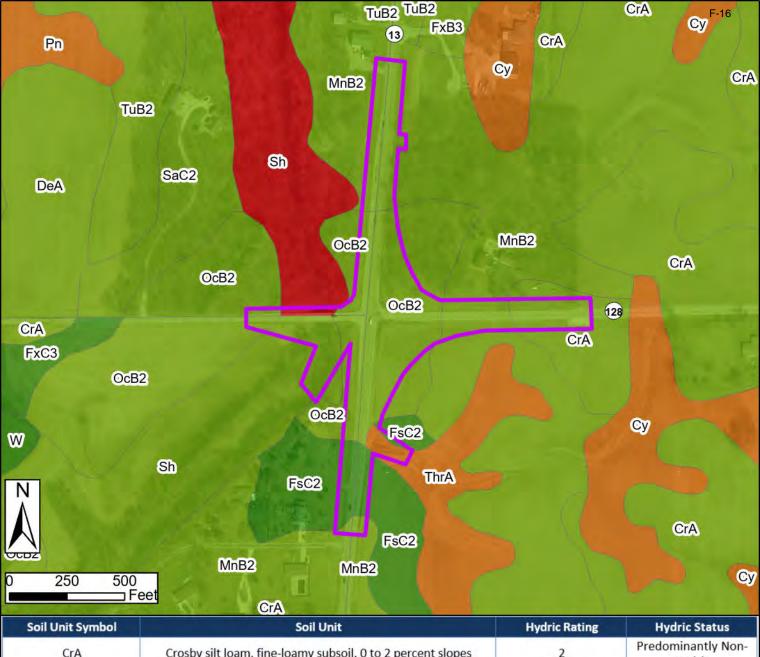


Figure 4
USFWS National Wetland Inventory Map
SR 13 and SR 128
Intersection Improvement
Hamilton, Madison, and Tipton Counties, Indiana
Des. No. 2003081

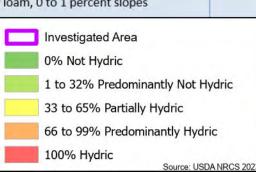






Soil Unit Symbol	CrA Soil Unit	Hydric Rating	Hydric Status
CrA	Crosby silt loam, fine-loamy subsoil, 0 to 2 percent slopes	2	Predominantly Non- Hydric
FsC2	Fox silt loam, till substratum, 6 to 12 percent slopes, moderately eroded	0	Non-Hydric
MnB2	Miami silt loam, 2 to 6 percent slopes, eroded	6	Predominantly Non- Hydric
OcB2	Ockley silt loam, 2 to 6 percent slopes, eroded	5	Predominantly Non- Hydric
Sh	Sloan silt loam, sandy substratum, occasionally flooded	100	Hydric
ThrA	Treaty silty clay loam, 0 to 1 percent slopes	95	Predominantly Hydric

Figure 5 SR 13 and SR 128 Intersection Improvement Hamilton, Madison, and Tipton Counties, Indiana Des. No. 2003081





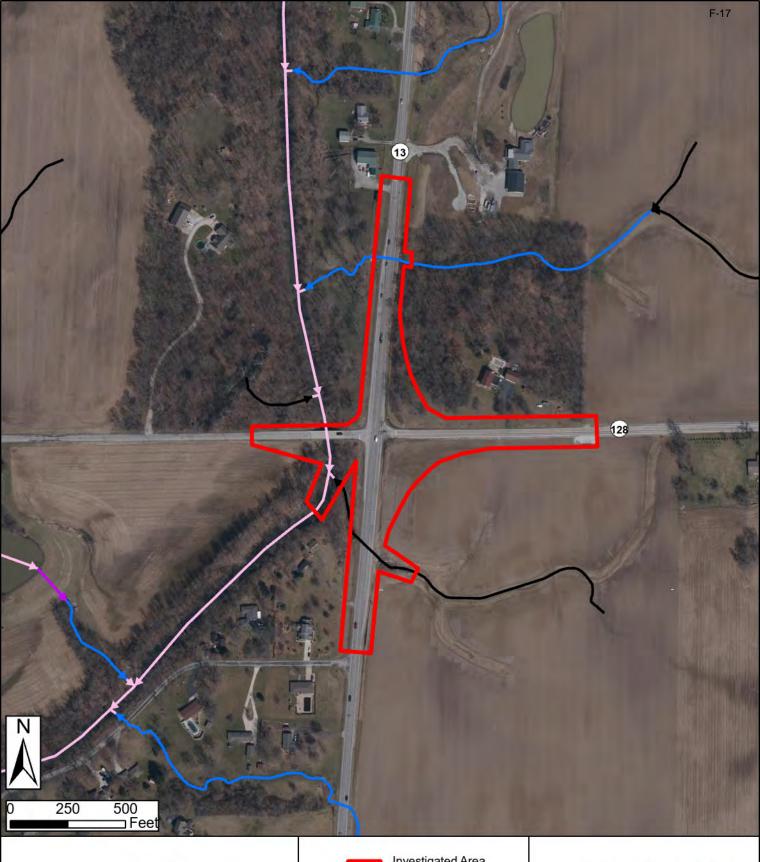
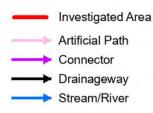


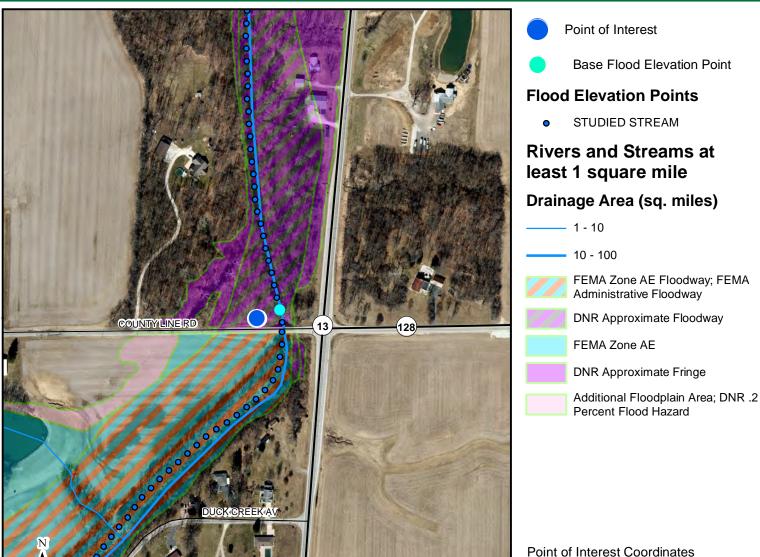
Figure 6
USGS National Hydrography Data Map
SR 13 and SR 128
Intersection Improvement
Hamilton, Madison, and Tipton Counties, Indiana
Des. No. 2003081







## Floodplain Analysis & Regulatory Assessment (FARA)



Point of Interest Coordinates (WGS84)

Long: **-85.8628742379** Lat: **40.2190738882** 

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

County: **Tipton** Approximate Ground Elevation: **822.2 feet (NAVD88)** 

Stream Name: Base Flood Elevation: **824.0 feet (NAVD88) Big Duck Creek** Drainage Area: **Not available** 

Best Available Flood Hazard Zone: DNR Approximate Floodway

National Flood Hazard Zone: Not Mapped

Is a Flood Control Act permit from the DNR needed for this location? yes

Is a local floodplain permit needed for this location? yes-

Floodplain Administrator: Steve Niblick, Floodplain Administrator

Community Jurisdiction: Tipton County, County proper

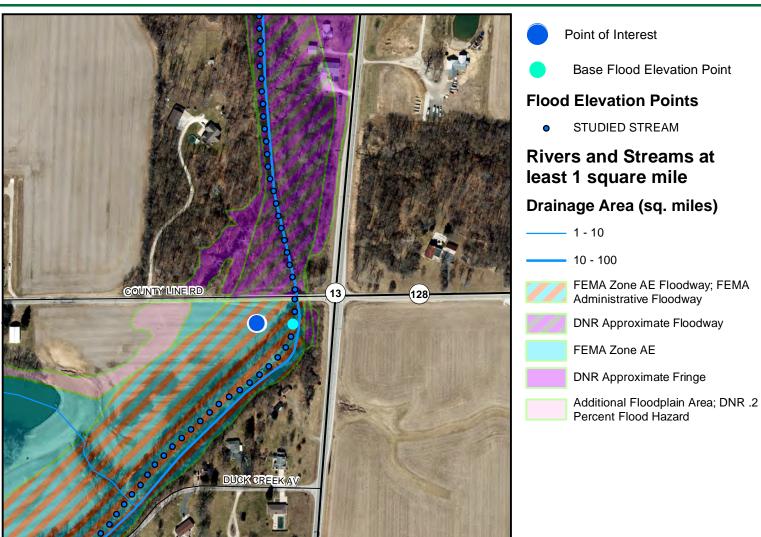
Phone: (765) 675-6063

Email: sniblick@tiptoncounty.in.gov

US Army Corps of Engineers District: Louisville



## Floodplain Analysis & Regulatory Assessment (FARA)



Point of Interest Coordinates (WGS84)

Long: **-85.8630566281** Lat: **40.2186642701** 

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

County: Hamilton Approximate Ground Elevation: 819.7 feet (NAVD88)

Stream Name: Base Flood Elevation: 822.8 feet (NAVD88)

Duck Creek Drainage Area: Not available

Best Available Flood Hazard Zone: FEMA Zone AE Floodway

National Flood Hazard Zone: FEMA Zone AE Floodway

1:6,000

Is a Flood Control Act permit from the DNR needed for this location? yes

Is a local floodplain permit needed for this location? yes-

Floodplain Administrator: CJ Taylor, Plan Commission Director

Community Jurisdiction: Hamilton County, ETJ

Phone: (317) 776-8490

Email: CJ.Taylor@hmiltoncounty.in.gov

US Army Corps of Engineers District: Louisville

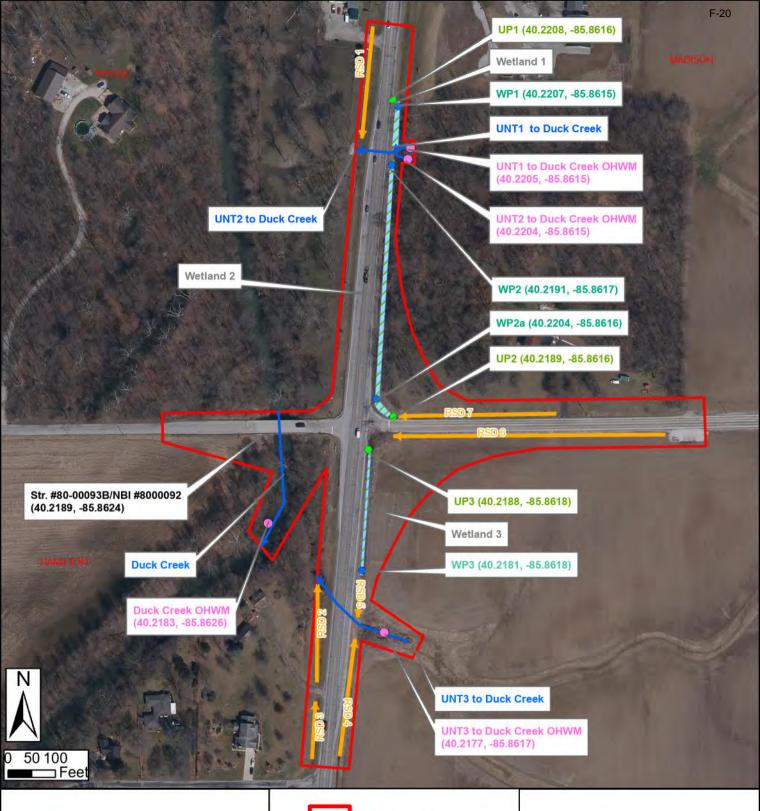


Figure 8 Water Resources SR 13 and SR 128 Intersection Improvement Hamilton, Madison, and Tipton Counties, Indiana Des. No. 2003081





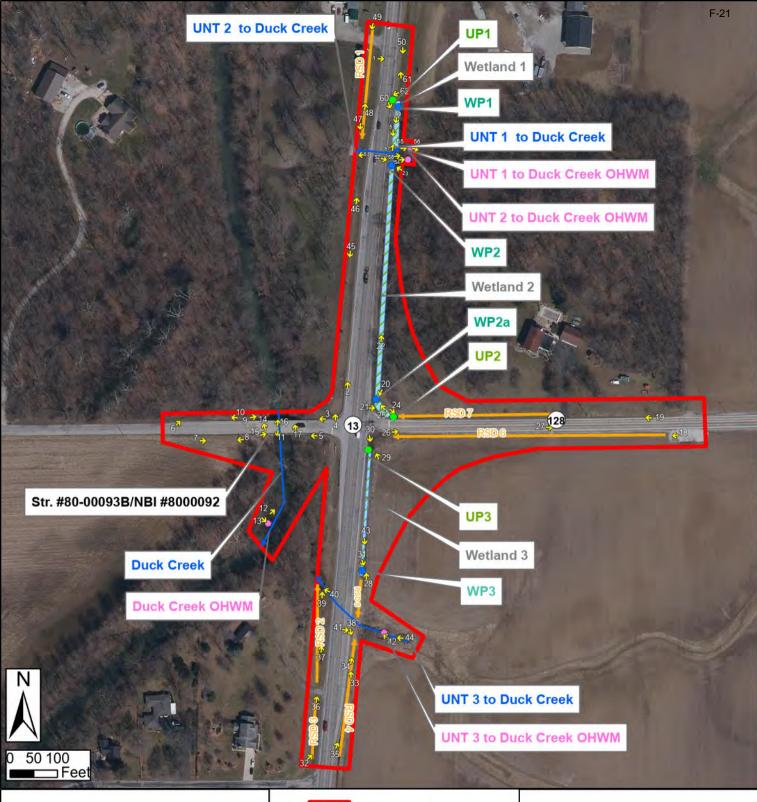


Figure 10 Photo Map SR 13 and SR 128 Intersection Improvement Hamilton, Madison, and Tipton Counties, Indiana Des. No. 2003081





### Figure 9. Duck Creek StreamStats Report

Region ID: IN

Workspace ID: IN20230724193306713000

Clicked Point (Latitude, Longitude): 40.21896, -85.86270

Time: 2023-07-24 14:33:59 -0500



Collapse All

#### > Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BFREGNO	BFREGNO	1566	dimensionless
BSLDEM10M	Mean basin slope computed from 10 m DEM	0.92	percent
CONTDA	Area that contributes flow to a point on a stream	61.93	square miles

#### Figure 9.2 UNT 1 and UNT 2 to Duck Creek StreamStats Report

Region ID: IN

Workspace ID: IN20230911171004905000

Clicked Point (Latitude, Longitude): 40.22239, -85.86150

**Time:** 2023-09-11 12:11:17 -0500



Collapse All

#### > Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
BFREGNO	BFREGNO	1566	dimensionless
BSLDEM10M	Mean basin slope computed from 10 m DEM	1.4	percent
CONTDA	Area that contributes flow to a point on a stream	0.366	square miles
CSL10_85	Change in elevation divided by length between points 10 and 85 percent of distance along main channel to basin divide - main channel method not known	25.5	feet per mi
DRNAREA	Area that drains to a point on a stream	0.366	square miles
DURREG	Flow-Duration Hydrologic Region code	1891	dimensionless
HIGHREG	HIGHREG	1008	dimensionless
INSINKHOLE	Percent Sinkhole drainage area per basin from Indiana Geological Survey.	0	percent
INSINKING	Percent Sinking stream drainage area from Indiana Geological Survey.	0	percent
K1INDNR	Average hydraulic conductivity (ft/d) for the top 70 ft of unconsolidated deposits from InDNR well database.	19	ft per day
K2INDNR	Average hydraulic conductivity (ft/d) for the full depth of unconsolidated deposits from InDNR well database.	21	ft per day
LAT_CENT	Latitude of Basin Centroid	40.228632	decimal degrees
LAT_OUT	Latitude of Basin Outlet	40.222414	degrees
LC01FOREST	Percentage of forest from NLCD 2001 classes 41-43	0.8	percent
LC11DEV	Percentage of developed (urban) land from NLCD 2011 classes 21-24	1.74	percent
LC11IMP	Average percentage of impervious area determined from NLCD 2011 impervious dataset	0.12	percent
LOWREG	Low Flow Region Number	1729	dimensionless
PERMBXTHK	An index of the permeability of surficial Quaternary sediments (including fraction exposed bedrock) multiplied by their thickness. See SIR 2014-5177 page 3 for details.	135.8	dimensionless
PRDECFEB00	Basin average mean precipitation for December to February from PRISM 1971-2000	2.42	inches

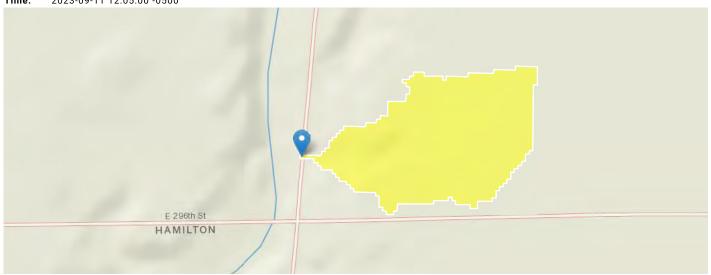
#### Figure 9.3 UNT 3 to Duck Creek StreamStats Report

Region ID: IN

**Workspace ID:** IN20230911170346751000

Clicked Point (Latitude, Longitude): 40.22054, -85.86176

**Time:** 2023-09-11 12:05:00 -0500



Collapse All

#### > Basin Characteristics

Parameter			
Code	Parameter Description	Value	Unit
BFREGNO	BFREGNO	1566	dimensionless
BSLDEM10M	Mean basin slope computed from 10 m DEM	1.5	percent
CONTDA	Area that contributes flow to a point on a stream	0.062	square miles
CSL10_85	Change in elevation divided by length between points 10 and 85 percent of distance along main channel to basin divide - main channel method not known	52.8	feet per mi
DRNAREA	Area that drains to a point on a stream	0.062	square miles
DURREG	Flow-Duration Hydrologic Region code	1891	dimensionless
HIGHREG	HIGHREG	1008	dimensionless
INSINKHOLE	Percent Sinkhole drainage area per basin from Indiana Geological Survey.	0	percent
INSINKING	Percent Sinking stream drainage area from Indiana Geological Survey.	0	percent
K1INDNR	Average hydraulic conductivity (ft/d) for the top 70 ft of unconsolidated deposits from InDNR well database.	19	ft per day
K2INDNR	Average hydraulic conductivity (ft/d) for the full depth of unconsolidated deposits from InDNR well database.	27	ft per day
LAT_CENT	Latitude of Basin Centroid	40.220924	decimal degree
LAT_OUT	Latitude of Basin Outlet	40.220525	degrees
LC01FOREST	Percentage of forest from NLCD 2001 classes 41-43	6.7	percent
LC11DEV	Percentage of developed (urban) land from NLCD 2011 classes 21-24	1.12	percent
LC11IMP	Average percentage of impervious area determined from NLCD 2011 impervious dataset	0.0518	percent
LOWREG	Low Flow Region Number	1729	dimensionless
PERMBXTHK	An index of the permeability of surficial Quaternary sediments (including fraction exposed bedrock) multiplied by their thickness. See SIR 2014-5177 page 3 for details.	150	dimensionless
PRDECFEB00	Basin average mean precipitation for December to February from PRISM 1971-2000	2.42	inches

Project/Site: 21-1155.03 2003081 SR 13 & SR	128 RAB	City/Count	<sub>v:</sub> Madiso	n County, IN	Sampling Date:	2023-08-09
Applicant/Owner: Indiana Department of Transp				State:IN	Sampling Point	: <u>WP1</u>
Investigator(s): Brigitte Moneymaker and April Arroyo-Monroe Section, Township, Range: S-33, T-21 N, R-6 E						
Landform (hillslope, terrace, etc.):ditch			Local relief	(concave, convex, none):	concave	<del>;</del>
Slope (%): 0 Lat: 40.22078	1	Long:	-85.8615	9	Datum: WGS	84
Slope (%): 0 Lat: 40.22078  Soil Map Unit Name: Miami silt loam, MnB2				NWI classific	ation: N/A	
Are climatic / hydrologic conditions on the site typical						
Are Vegetation, Soil, or Hydrology						√ No
Are Vegetation, Soil, or Hydrology				eded, explain any answe		
SUMMARY OF FINDINGS – Attach site r						eatures, etc.
Hydrophytic Vegetation Present? Yes X	No					
	No		he Sampled			
Wetland Hydrology Present? Yes X	No	wit	hin a Wetlan	id? Yes^_	No	_
Remarks:  VEGETATION – Use scientific names of pl	anto					
VEGETATION – Ose scientific flames of pr	Absolute	Dominon	t Indicator	Dominance Test work	rahaati	
<u>Tree Stratum</u> (Plot size:) 1)	% Cover	Species?	Status	Number of Dominant S That Are OBL, FACW,	pecies	1 (A)
2 3				Total Number of Domin Species Across All Stra	1	1 (B)
4.       5.				Percent of Dominant Sp That Are OBL, FACW,		00 (A/B)
Sapling/Shrub Stratum (Plot size:	, —	= Total Co	over	Prevalence Index wor	ksheet:	
1				Total % Cover of:	Multi	ply by:
2.				OBL species0	x 1 =	0
3				FACW species40	x 2 =	80
4				FAC species10_		
5				FACU species		
Harb Chartura (District)		= Total Co	over	UPL species		
Herb Stratum (Plot size:)  1 Phalaris arundinacea	40	Υ	FACW	Column Totals:50	(A)	<u>110</u> (B)
2. Hordeum jubatum	10	N	FAC	Prevalence Index	= B/A =2.2	-
3.				Hydrophytic Vegetation		
4.				1 - Rapid Test for H	Hydrophytic Vege	etation
5				X 2 - Dominance Tes	st is >50%	
6				X 3 - Prevalence Inde		
7				4 - Morphological A	Adaptations¹ (Pro s or on a separat	vide supporting
8				Problematic Hydro		,
9				Froblematic riguro	priytic vegetation	(Explain)
10				<sup>1</sup> Indicators of hydric soi	il and wetland hy	drology must
Woody Vine Stratum (Plot size:		= Total Co	over	be present, unless distu		
1				Hydrophytic		
2				Vegetation Present? Yes	s_XNo_	
		= Total Co	over	riesentr re	NU	
Remarks: (Include photo numbers here or on a separation of the sep	arate sheet.)					

SOIL Sampling Point: WP1

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confire	n the absence of in	idicators.)
Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 3/2	100					Clay Loam	
6-12	10YR 4/1	50	7.5YR 5/8	40	С	M	Clay Loam	
6-12	10YR 3/1	10						
-								
1 <sub>Tuno:</sub> C=C	neentration D=Don	lotion DM:			d Sand Cr		2l continu DI	=Pere Lining M=Metrix
Hydric Soil I		letion, Rivi-	=Reduced Matrix, MS	5=Maske	a Sana Gr	апѕ.		=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
•			Sandy (	Sloved M	otriv (CA)			ie Redox (A16)
Histosol	pipedon (A2)			Redox (S	atrix (S4)		Dark Surface	
Black His				Matrix (				nese Masses (F12)
_	n Sulfide (A4)				neral (F1)			ow Dark Surface (TF12)
	Layers (A5)				atrix (F2)			ain in Remarks)
2 cm Mu				d Matrix (				,
Depleted	d Below Dark Surface	e (A11)	Redox [	Dark Surf	ace (F6)			
Thick Da	ark Surface (A12)		Deplete	d Dark S	urface (F7	)	<sup>3</sup> Indicators of h	ydrophytic vegetation and
	lucky Mineral (S1)		Redox [	Depressio	ons (F8)		-	frology must be present,
	icky Peat or Peat (S	-					unless distu	urbed or problematic.
Restrictive L	_ayer (if observed):							
Type:							Hydric Soil Proc	sent? Yes X No
Depth (inc	ches):						Hydric 30ii Fres	sent: TesNO
Remarks:							•	
We could n	ot dig past 12 inc	hes anyw	here within the su	spected	d wetland	l bounda	ry due to compac	ted soil
and rocks/g	gravel in the profile	e.						
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
_			red; check all that ap	(vla			Secondary In	dicators (minimum of two required)
	Water (A1)		Water-Sta		/es (R9)			Soil Cracks (B6)
	iter Table (A2)		Aquatic Fa		, ,			e Patterns (B10)
Saturation	, ,		True Aqua					son Water Table (C2)
_	arks (B1)		Hydrogen					Burrows (C8)
	nt Deposits (B2)		Oxidized F			ina Roots		on Visible on Aerial Imagery (C9)
_	oosits (B3)		Presence					or Stressed Plants (D1)
	it or Crust (B4)		Recent Iro		•	,		phic Position (D2)
	osits (B5)		Thin Muck			u 00113 (0		utral Test (D5)
	on Visible on Aerial I	magery (B						allal rest (DO)
_			B8) Other (Exp					
Field Observ		ouridee (		, , , , , , , , , , , , , , , , , , ,	emarks)			
Surface Water		96	No X Depth (inc	chee).				
						- 1		
Water Table Present? Yes No _X Depth (inches): Saturation Present? Yes No _✓ Depth (inches): Wetland Hydrology Present? Yes _x No								
Saturation Pr		es	No _v Depth (in	ches):		_   Wet	land Hydrology Pre	esent? Yes X No
	(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
	•			•		,		
Remarks:								

US Army Corps of Engineers Midwest Region – Version 2.0

Project/Site: 21-1155.03 2003081 SR 13 & SR 128	RAB (	City/Co	ounty:	Madiso	on County, IN	Sampling [	) <sub>ate:</sub> 2023-0	08-09
Applicant/Owner: Indiana Department of Transpor					State:IN			
Investigator(s): Brigitte Moneymaker and April Arroyo-							J	
• , , -					(concave, convex, none):		x	
Slope (%): 3 Lat: 40.22082					86163			
Miami ailt Ioam (Mac	32)						/A	
Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for the					NWI classific			
							✓	
Are Vegetation, Soil, or Hydrology								٥
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site may				•	eded, explain any answe		•	s etc
_		Jann	Pilli	g point it	ocations, transects	, importa	iit icature	3, 610.
Hydrophytic Vegetation Present? Yes  Hydric Soil Present? Yes			ls th	e Sampled	Area			
Wetland Hydrology Present?			withi	in a Wetlan	nd? Yes	No _	X	
Remarks:								
VEGETATION – Use scientific names of plant	S.							
[	Absolute	Domi	nant	Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size:)	% Cover				Number of Dominant Sp	pecies	1	
1					That Are OBL, FACW, o	or FAC: _	<u> </u>	(A)
2					Total Number of Domin	ant	2	
3					Species Across All Stra	ta:		(B)
4			_		Percent of Dominant Sp		50%	
5			L Cov		That Are OBL, FACW, o	or FAC:		(A/B)
Sapling/Shrub Stratum (Plot size:)		- 10ta	II COV	ei	Prevalence Index wor	ksheet:		
1					Total % Cover of:		Multiply by:	_
2							·	_
3						x 2 =		_
4							30	
5					FACU species 40	× 4 =	: <u>160</u>	_
Herb Stratum (Plot size:)		= Tota	l Cov	er	UPL species80	x 5 =	250	_
1. Cirsium arvense	30	Υ		FACU	Column Totals:	(/ //		_ (B)
2. Phalaris arundinacea	30	Y		FACW	Prevalence Index	= B/A =	3.125	_
3. Toxicodendron radicans		N		FAC	Hydrophytic Vegetation			
4. Ambrosia artemisiifolia		N		FACU	1 - Rapid Test for H	lydrophytic '	Vegetation	
5					2 - Dominance Tes			
6					3 - Prevalence Inde			
7					4 - Morphological A			
8					data in Remarks			
9					Problematic Hydron	Jilytic veget	ation (Explai	111)
10					<sup>1</sup> Indicators of hydric soil	l and wetlan	d hydrology r	must
Woody Vine Stratum (Plot size:)		= Tota	l Cov	er	be present, unless distu			iidot
1					I had no mbardio			
2.			_		Hydrophytic Vegetation		v	
		= Tota	l Cov	er	Present? Yes	s	No _^	
Remarks: (Include photo numbers here or on a separate					1			
Photo 62								
1								

SOIL Sampling Point: <u>UP1</u>

Depth		to the dept	th needed to document the indicator or c	confirm the absen	ce of indicators.)			
(inches)	Matrix Color (moist)	%	Redox Features Color (moist) % Type <sup>1</sup> L	oc² Texture	Remarks			
0-10	10YR 4/2	100		Loamy Sar				
		pletion, RM=	Reduced Matrix, MS=Masked Sand Grains		ion: PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators:			Indicate	ors for Problematic Hydric Soils <sup>3</sup> :			
Histosol	, ,		Sandy Gleyed Matrix (S4)	_	ast Prairie Redox (A16)			
	oipedon (A2)		Sandy Redox (S5)		k Surface (S7)			
_	istic (A3)		Stripped Matrix (S6)		n-Manganese Masses (F12)			
	en Sulfide (A4)		Loamy Mucky Mineral (F1)		y Shallow Dark Surface (TF12)			
_	d Layers (A5) uck (A10)		<ul><li>Loamy Gleyed Matrix (F2)</li><li>Depleted Matrix (F3)</li></ul>	Oth	er (Explain in Remarks)			
_	d Below Dark Surfa	ce (A11)	Redox Dark Surface (F6)					
	ark Surface (A12)	00 (/1//)	Depleted Dark Surface (F7)	<sup>3</sup> Indicat	ors of hydrophytic vegetation and			
_	Mucky Mineral (S1)		Redox Depressions (F8)		and hydrology must be present,			
	ıcky Peat or Peat (S	33)			ess disturbed or problematic.			
	Layer (if observed)							
Type:					v			
Depth (in	ches):			Hydric S	oil Present? Yes No _x			
Remarks:								
We could	d not dig past 10 in	ches anywhe	ere near the suspected upland boundary du	ie to compacted so	oil			
	s/gravel in the prof		,	1				
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary India	cators (minimum of	one is requir	ed; check all that apply)	Seco	ndary Indicators (minimum of two required)			
Surface	Water (A1)		Water-Stained Leaves (B9)	8	Surface Soil Cracks (B6)			
High Wa	ater Table (A2)		Aquatic Fauna (B13)	0	Prainage Patterns (B10)			
Saturation	on (A3)		True Aquatic Plants (B14)	0	Dry-Season Water Table (C2)			
Water M	larks (B1)		Hydrogen Sulfide Odor (C1)	_ c	Crayfish Burrows (C8)			
	nt Deposits (B2)		Oxidized Rhizospheres on Living	Roots (C3) S	Saturation Visible on Aerial Imagery (C9)			
Drift De	posits (B3)		Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)			
Algal Ma	at or Crust (B4)		Recent Iron Reduction in Tilled So	oils (C6) C	Geomorphic Position (D2)			
Iron Dep	posits (B5)		Thin Muck Surface (C7)	F	AC-Neutral Test (D5)			
Inundati	on Visible on Aerial	Imagery (B7	) Gauge or Well Data (D9)					
Sparsely	y Vegetated Concav	e Surface (E	38) Other (Explain in Remarks)					
Field Obser	vations:							
Surface Wat	er Present?	Yes N	No _X _ Depth (inches):					
Water Table	Present?	Yes N	No _X Depth (inches):					
Saturation P			No ✓ Depth (inches):	Wetland Hydrol	ogy Present? Yes No _x			
(includes cap			to					
Describe Re	corded Data (stream	n gauge, mo	nitoring well, aerial photos, previous inspec	tions), if available:				
Remarks:								

US Army Corps of Engineers Midwest Region – Version 2.0

Project/Site: 21-1155.03 2003081 SR 13 & SR 12	8 RAB (	Citv/Cou	ntv: Madiso	n County, IN	Sampling Date: 2	023-08-09
Applicant/Owner: Indiana Department of Transpo		-				
Investigator(s): Brigitte Moneymaker and April Arroy					–	
				(concave, convex, none):		
				(concave, convex, none).		
Soil Map Unit Name: Ockley Silt Loam (OcB2)						
				NWI classific		
Are climatic / hydrologic conditions on the site typical for t						
Are Vegetation, Soil, or Hydrology				'Normal Circumstances" p	resent? Yes	No
Are Vegetation, Soil, or Hydrology	_ naturally pro	blematic	? (If ne	eeded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	p showing	samp	ling point le	ocations, transects	, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes X	No					
Hydric Soil Present? Yes X			the Sampled			
Wetland Hydrology Present? Yes X	No	W	vithin a Wetlar	nd? Yes^_	No	
Remarks:						
VEGETATION – Use scientific names of plant	ts.					
Tree Stratum (Plot size:30 ft r)	Absolute % Cover		ant Indicator	Dominance Test work		
1				Number of Dominant Sp That Are OBL, FACW, of		(A)
2						(//)
3				Total Number of Domin Species Across All Stra	1	(B)
4.						(5)
5				Percent of Dominant Sp That Are OBL, FACW, of		(A/B)
Sapling/Shrub Stratum (Plot size: 15 ft r )		= Total	Cover			
1				Prevalence Index work		bu
1				Total % Cover of:  OBL species	Multiply x 1 =	
2						0
3				FAC species 20		0
5				FACU species		
		= Total	Cover	UPL species	x 5 =	
Herb Stratum (Plot size: 5 ft r )			FACW		(A)10	
1. Alopecurus pratensis		$\frac{Y}{N}$	FAC		2.5	
2. Hordeum jubatum		-N		Prevalence Index		
3. Rumex crispus	10		<u>FAC</u> _	Hydrophytic Vegetation 1 - Rapid Test for H		tion
4				1 - Rapid Test for F		uon
5				X 3 - Prevalence Inde		
7				4 - Morphological A		le supporting
8					s or on a separate s	
9				Problematic Hydron	ohytic Vegetation <sup>1</sup> (	Explain)
10						
	40	= Total	Cover	<sup>1</sup> Indicators of hydric soil be present, unless distu		
Woody Vine Stratum (Plot size: 30 ft r )				be present, unless diste	inded of problematic	<b>.</b>
1				Hydrophytic		
2				Vegetation   Present? Yes	s_X No	
Remarks: (Include photo numbers here or on a separat		= Total	Cover			
Tremains. (include prioto numbers here or on a separat	e sileet.)					
Photo #20						

US Army Corps of Engineers

SOIL Sampling Point: WP2

Depth (inches)         Matrix (inches)         Redox Features           0-8         2.5YR 8/1         20         7.5YR 5/8         19         C         M         Silty Clay           0-8         2.5YR 3/2         60         2.5YR 3/6         1         C         M	
0-8 2.5YR 3/2 60 2.5YR 3/6 1 C M	
<u> </u>	
8-12 2.5YR 3/2 100 7.5YR 5/8 Silty Clay	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix	
Hydric Soil Indicators: Indicators for Problematic Hydric S	oils³:
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16)	
Histic Epipedon (A2) Sandy Redox (S5) Dark Surface (S7)	
Black Histic (A3) Stripped Matrix (S6) Iron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Very Shallow Dark Surface (TF12	1
	,
2 cm Muck (A10) Depleted Matrix (F3)	
Depleted Below Dark Surface (A11) X Redox Dark Surface (F6)	
Thick Dark Surface (A12) Depleted Dark Surface (F7) <sup>3</sup> Indicators of hydrophytic vegetation a	
Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be preser	ıt,
5 cm Mucky Peat or Peat (S3) unless disturbed or problematic.  Restrictive Layer (if observed):	
Type:	
Depth (inches): Hydric Soil Present? Yes X	No
Remarks:	
We could not dig past 12 inches anywhere within the suspected wetland boundary due to compacted soil and rocks/grayel in the profile	1
and rocks/gravel in the profile	
and rocks/gravel in the profile	
and rocks/gravel in the profile  HYDROLOGY  Wetland Hydrology Indicators:	
and rocks/gravel in the profile  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of the content of the con	
and rocks/gravel in the profile  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9)  Surface Soil Cracks (B6)	
And rocks/gravel in the profile  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Secondary Indicators (minimum of to the surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)	
And rocks/gravel in the profile  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Mater Stained Leaves (B9)  Drainage Patterns (B10)  Dry-Season Water Table (C2)	
and rocks/gravel in the profile  HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of the surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Saturation (A3)  True Aquatic Plants (B14)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Crayfish Burrows (C8)	wo required)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of to a greated)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Saturation (A3)  True Aquatic Plants (B14)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Image	two required)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of to the image)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Saturation (A3)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Wetland Hydrology  Secondary Indicators (minimum of the image)  Surface Soil Cracks (B6)  Aquatic Fauna (B13)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Image)  Setunted or Stressed Plants (D1)	two required)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of to	two required)
### HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of the surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Saturation (A3)  True Aquatic Plants (B14)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Indicators (minimum of the surface (C7)  Secondary Indicators (minimum of the surface (Cinimized Minimum) of the surface (Cinimized Soil Cracks (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Image of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  X FAC-Neutral Test (D5)	two required)
### Applicators (minimum of one is required: check all that apply)  ### Surface Water (A1)  ### Surface Water (A2)  ### Surface Water (A2)  ### Surface Water (A3)  ### Surface Water (A3)  ### Surface Water (A4)  ### Water Table (A2)  ### Surface Water (A3)  ### Surface Water (B10)  ### Surface Soil Cracks (B6)  ### Drainage Patterns (B10)  ### Drainage Patterns (B10)  ### Dray-Season Water Table (C2)  ### Water Marks (B1)  ### Sediment Deposits (B2)  ### Drainage Patterns (B10)  ### Dray-Season Water Table (C2)  ### Crayfish Burrows (C8)  ### Sediment Deposits (B2)  ### Drainage Patterns (B10)  ### Dray-Season Water Table (C2)  ### Crayfish Burrows (C8)  ### Suturation Visible on Aerial Imagery (B7)  ### Presence of Reduced Iron (C4)  ### Algal Mat or Crust (B4)  ### Recent Iron Reduction in Tilled Soils (C6)  ### Algal Mat or Crust (B4)  ### Recent Iron Reduction in Tilled Soils (C6)  ### Algal Mat or Crust (B4)  ### Recent Iron Reduction in Tilled Soils (C6)  ### Algal Mat or Crust (B4)  ### Recent Iron Reduction in Tilled Soils (C6)  ### Algal Mat or Crust (B4)  ### Iron Deposits (B5)  ### Iron Deposits (B5)  ### Geomorphic Position (D2)  ### Algal Mat or Crust (B4)  ### Algal Mat or	two required)
### Apply Indicators in the profile  ###################################	two required)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Indicators (minimum of the is required; check all that apply)  Secondary Indicators (minimum of the is required; check all that apply)  Secondary Indicators (minimum of the is required; check all that apply)  Secondary Indicators (minimum of the is required; check all that apply)  Secondary Indicators (minimum of the is required; check all that apply)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (B7)  Recent Iron Reduction in Tilled Soils (C6)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Inundation Visible on Aerial Imagery (B7)  Gauge or Well Data (D9)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)	two required)
### Accord of the profile ### Accord of the	two required)
### Action Present? Present. Prept. Present. Present? Pre	agery (C9)
### Add to the profile ### Advance of the profil	agery (C9)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Secondary Indicators (minimum of the surface Soil Cracks (B6))  High Water Table (A2)  Aquatic Fauna (B13)  Saturation (A3)  True Aquatic Plants (B14)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Jinundation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Wetland Hydrology Present?  Yes No X Depth (inches):  Wetland Hydrology Present? Yes No X Depth (inches):  Wetland Hydrology Present? Yes X  Wetland Hydrology	agery (C9)
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required: check all that apply)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Saturation (A3)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Jalandation Visible on Aerial Imagery (B7)  Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)  Wetland Hydrology Present?  Yes No X Depth (inches):  Wetland Hydrology Present? Yes No X Depth (inches):  Wetland Hydrology Present? Yes X  Secondary Indicators (minimum of the secondary Indicators (minimum of the surface Soil Cracks (B6)  Secondary Indicators (minimum of the surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Drainage Patterns (B10)  Drainage Pa	agery (C9)
### Add to Crust (B4) ### Recent Iron Reduction in Tilled Soils (C6) ### Advantor Visible on Aerial Imagery (B7) ### Gauge or Well Data (D9) ### AC-Neutral Test (D5) ### Caturation Visible on Aerial Imagery (B7) ### Caturation Visible Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availiable:	agery (C9)

Project/Site: 21-1155.03 2003081 SR 13 & SR 12	8 RAB	City/Co	ountv:	Madison	County, IN	Sampling Date:	2023-08-0	19
Applicant/Owner: Indiana Department of Transport	ation	,			State: IN			
Investigator(s): Brigitte Moneymaker and April Arro	oyo Monroe	Section	n. Tov	vnship. Rar	nge: S-33, T-21 N, R	-6 E		
Landform (hillslope, terrace, etc.): depression					(concave, convex, none):			
Slope (%):0% Lat:40.22044		l ona:	85	5.86164	(conduct, convex, none).	Datum: WGS	84	
Soil Map Unit Name: Miami Silt Loam (MnB2)						KI/A		
			v		NWI classific			
Are climatic / hydrologic conditions on the site typical for t							/	
Are Vegetation, Soil, or Hydrology							<u>v</u> No	
Are Vegetation, Soil, or Hydrology					eded, explain any answer			
SUMMARY OF FINDINGS – Attach site ma	p showing	sam	pling	g point lo	ocations, transects	, important f	eatures, e	tc.
Hydrophytic Vegetation Present? Yes X			le the	Sampled	Aroa			
Hydric Soil Present?  Yes X				n a Wetlan		No		
Wetland Hydrology Present? Yes X	No		WILLIII	ii a vvetiaii	iur les	NO		
Remarks:								
VECETATION Line exicutific names of plant								
VEGETATION – Use scientific names of plant	Absolute	Domi	nont	Indicator	Dominance Test work	ahaat:		
Tree Stratum (Plot size:)	% Cover				Number of Dominant Sp			
1					That Are OBL, FACW, of		2 (A)	
2					Total Number of Domina	ant		
3					Species Across All Strat		2 (B)	
4					Percent of Dominant Sp	necies		
5					That Are OBL, FACW, of		00 (A/E	B)
Sapling/Shrub Stratum (Plot size:)		= Tota	I Cov	er	Prevalence Index work	keheet:		
I .					Total % Cover of:		ply by:	
1 2					OBL species			
3					FACW species 50	x 2 =	100	
4					FAC species			
5					FACU species			
		= Tota	I Cov	er	UPL species	x 5 =		
Herb Stratum (Plot size:)					Column Totals: 50	(A)	100 (B	3)
1. Alopecurus pratensis		$\frac{Y}{Y}$		FACW		D.4	2	
2. Phalaris arundinacea				FACW_	Prevalence Index			
3					Hydrophytic Vegetatio 1 - Rapid Test for H		otation	
4					X 2 Dominance Tool		station	
5					X 3 - Prevalence Inde			
6					4 - Morphological A		vide sunnorti	ina
7					data in Remarks			''9
8					Problematic Hydrop	hytic Vegetation	n¹ (Explain)	
9								
10		= Tota	L Cov		<sup>1</sup> Indicators of hydric soil			
Woody Vine Stratum (Plot size:)		- 10ta	ii Cov	51	be present, unless distu	rbed or problem	atic.	
1					Hydrophytic			
2					Vegetation Present? Yes	s_XNo_		
		= Tota	l Cov	er	Fresent 168	, NO_		
Remarks: (Include photo numbers here or on a separat	e sheet.)							
Photo #23								

US Army Corps of Engineers

Soll Sampling Point: WP2a

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix			ox Feature					
(inches)	Color (moist)	%	Color (moist)	%	_Type'	_Loc²	Texture	Remarks	
0-8	10YR 3/2	95	10YR 5/8	_ 5	_ <u>C</u>	. <u>M</u>	Clay Loam		
						. ——			
		epletion, RM	=Reduced Matrix, N	IS=Maske	d Sand G	rains.		=Pore Lining, M=Matrix.	1
Hydric Soil	Indicators:							Problematic Hydric Soils	<b>'</b> :
Histosol	. ,			Gleyed Ma			_	ie Redox (A16)	
	oipedon (A2)			Redox (St			Dark Surfac	. ,	
_	stic (A3)			d Matrix (	,			nese Masses (F12)	
	n Sulfide (A4)			Mucky Mi				w Dark Surface (TF12)	
_	d Layers (A5) ick (A10)			Gleyed M ed Matrix (			Other (Expi	ain in Remarks)	
ı —	d Below Dark Surfa	oce (A11)		Dark Surfa	,				
	ark Surface (A12)	ice (ATT)		ed Dark Sun		``	3Indicators of h	ydrophytic vegetation and	
_	lucky Mineral (S1)			Depression	•	,		lrology must be present,	
ı —	icky Peat or Peat (	S3)		Боргосою	110 (1 0)			urbed or problematic.	
	Layer (if observed						1		
Type:	,	,							
	ches):						Hydric Soil Pres	sent? Yes X No	
Remarks:									
			e within the suspec	ted wetlar	nd bounda	ary due to	compacted soil		
and rocks/	gravel in the profil	e.							
HYDROLO	GY								
Wetland Hy	drology Indicators	s:							
Primary India	cators (minimum of	one is requi	red; check all that a	pply)			Secondary In	dicators (minimum of two	required)
Surface	Water (A1)		Water-Sta	ained Leav	res (B9)		Surface S	Soil Cracks (B6)	
_	iter Table (A2)			auna (B13	, ,			Patterns (B10)	
Saturation	on (A3)			atic Plants				son Water Table (C2)	
	arks (B1)			Sulfide O				Burrows (C8)	
ı —	nt Deposits (B2)		Oxidized			ving Roots		n Visible on Aerial Imager	v (C9)
	posits (B3)		Presence					or Stressed Plants (D1)	/
	at or Crust (B4)					ed Soils (C		phic Position (D2)	
	oosits (B5)		_	k Surface				utral Test (D5)	
l —	on Visible on Aeria	I Imagery (B		Well Data			<u>x</u>		
—	/ Vegetated Conca		. —		. ,				
Field Obser		Juliace (		-positi III IX	arnaj				
Surface Wat		Vac	NoX Depth (in	ochee).					
Water Table			No X Depth (ii			I .			
								X X	
Saturation P (includes car		res	No X Depth (in	icnes):		_   wet	iana myarology Pre	esent? Yes X No	·——
		m gauge, m	onitoring well, aerial	photos, pi	revious in	spections),	, if available:		
Remarks:									

US Army Corps of Engineers Midwest Region – Version 2.0

oject/Site: 21-1155.03 2003081 SR 13 & SR 128 RAB		ty/County:Madi	son County, IN	Sampling Date: 2023-08-09			
Applicant/Owner: Indiana Department of Transportati				Sampling Point: UP2			
Investigator(s): Brigitte Moneymaker and April Arroyo-Mor		Section, Township, Range: S-33, T-21 N, R-6 E					
Landform (hillslope, terrace, etc.):hillsope			ef (concave, convex, none):				
Slope (%): 5 Lat: 40.21905	Lo						
Soil Map Unit Name: Ockley silt loam			NWI classific				
Are climatic / hydrologic conditions on the site typical for this	time of year						
Are Vegetation, Soil, or Hydrology si				present? Yes No			
Are Vegetation, Soil, or Hydrology na			needed, explain any answe				
SUMMARY OF FINDINGS – Attach site map s	showing s		locations, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes No	x						
Hydric Soil Present? Yes No	·	Is the Sample		x			
Wetland Hydrology Present? Yes No		within a Wet	and? Yes	NoX			
Remarks:							
<b>VEGETATION</b> – Use scientific names of plants.							
Tree Stratum (Plot size: 30 ft r		Dominant Indicato Species? Status					
1. Ailanthus altissima	30	Y FACL	- I Mullipel of Dominant S				
2.							
3.			<ul><li>Total Number of Domin</li><li>Species Across All Stra</li></ul>	4			
4.			'				
5			<ul> <li>Percent of Dominant Sp</li> <li>That Are OBL, FACW,</li> </ul>				
15 ft r	=	Total Cover	Prevalence Index wor	labanti			
Sapling/Shrub Stratum (Plot size: 15 ft r )			Total % Cover of:	Multiply by:			
1			-	x = 0			
3.			FACW species 0	x 2 = 0			
4			FAC species 0	x 3 = 0			
5			FACU species 90	x 4 = 360			
	=	Total Cover	UPL species30	x 5 =150			
Herb Stratum (Plot size:)   Ambrosia artemisiifolia	30 Y	r FACL	Column Totals: 120	(A) <u>510</u> (B)			
2. Solidago canadensis		Y FACL	_	= B/A = 4.25			
3. Lonicera mackii		Y UPL	Hydrophytic Vegetation				
4		·	1 - Rapid Test for H				
5.			_ 2 - Dominance Tes				
6.			3 - Prevalence Inde	ex is ≤3.0 <sup>1</sup>			
7.			4 - Morphological A	Adaptations <sup>1</sup> (Provide supporting			
8				s or on a separate sheet)			
9			Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)			
10	90 -		- Indicators of hydric soi	l and wetland hydrology must			
Woody Vine Stratum (Plot size: 30 ft r	=	Total Cover	be present, unless distu				
1							
			<ul><li>Hydrophytic</li><li>Vegetation</li></ul>				
2		Total Cover	Present? Yes	s No_X			
Remarks: (Include photo numbers here or on a separate s							
Photo #24							
1 110.0 1124							

SOIL Sampling Point: UP2

		to the dept	h needed to document the indicator or o	confirm the ab	sence of indicator	'S.)			
Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist) % Type <sup>1</sup> L	Loc <sup>2</sup> Tex	ture	Remarks			
0-12	10Y 4/2	100	Obidi (moist) 70 Type L		ay loam	remarks			
	101 4/2								
-									
<sup>1</sup> Type: C=Co	oncentration, D=De	pletion, RM=	Reduced Matrix, MS=Masked Sand Grains	s. <sup>2</sup> L	ocation: PL=Pore L	ining, M=Matrix.			
Hydric Soil	Indicators:			Indi	cators for Problem	natic Hydric Soils³:			
Histosol	(A1)		Sandy Gleyed Matrix (S4)	_	Coast Prairie Redo	x (A16)			
Histic Ep	oipedon (A2)		Sandy Redox (S5)		Dark Surface (S7)				
Black Hi	, ,		Stripped Matrix (S6)	_	Iron-Manganese M	, ,			
	en Sulfide (A4)		Loamy Mucky Mineral (F1)	_	Very Shallow Dark				
	d Layers (A5)		Loamy Gleyed Matrix (F2)	_	Other (Explain in R	emarks)			
_	ick (A10) d Below Dark Surfa	oo (A11)	<ul><li>Depleted Matrix (F3)</li><li>Redox Dark Surface (F6)</li></ul>						
	ark Surface (A12)	ce (ATT)	Depleted Dark Surface (F7)	3Inc	dicators of hydrophy	tic vegetation and			
_	Mucky Mineral (S1)		Redox Depressions (F8)		wetland hydrology r	-			
	icky Peat or Peat (S	33)			unless disturbed or	•			
	Layer (if observed)								
_	, , , , , , , , , , , , , , , , , , , ,								
	ches):			Hydr	ic Soil Present?	Yes Nox			
Remarks:			<del>_</del>						
rtemarks.									
		nywhere near	the suspected upland boundary due to compa	acted soil					
and rocks/gra	vel in the profile								
HYDROLO									
	drology Indicators								
Primary India	cators (minimum of	one is require	ed; check all that apply)	<u>S</u>	econdary Indicators	(minimum of two required)			
Surface	Water (A1)		Water-Stained Leaves (B9)	_	Surface Soil Cra	cks (B6)			
High Wa	ater Table (A2)		Aquatic Fauna (B13)	_	_ Drainage Patterr	, ,			
Saturatio	,		True Aquatic Plants (B14)	_	Dry-Season Water Table (C2)				
Water M	larks (B1)		— Hydrogen Sulfide Odor (C1)	_	Crayfish Burrows	s (C8)			
Sedimer	nt Deposits (B2)		Oxidized Rhizospheres on Living	Roots (C3) _	_ Saturation Visible	e on Aerial Imagery (C9)			
Drift Dep	oosits (B3)		Presence of Reduced Iron (C4)	_	_ Stunted or Stress	sed Plants (D1)			
Algal Ma	at or Crust (B4)		Recent Iron Reduction in Tilled So	oils (C6)	_ Geomorphic Pos	sition (D2)			
Iron Dep	oosits (B5)		Thin Muck Surface (C7)	_	_ FAC-Neutral Tes	st (D5)			
Inundation	on Visible on Aerial	Imagery (B7	) Gauge or Well Data (D9)						
Sparsely	Vegetated Concav	e Surface (B	8) Other (Explain in Remarks)						
Field Obser	vations:								
Surface Water	er Present?	Yes N	lo _X Depth (inches):						
Water Table	Present?	Yes N	lo X Depth (inches):						
Saturation Pr			lo X Depth (inches):	Wetland Hv	drology Present?	Yes No <sup>X</sup>			
(includes car	oillary fringe)								
Describe Red	corded Data (stream	n gauge, mor	nitoring well, aerial photos, previous inspec	ctions), if availa	ble:				
Remarks:									

US Army Corps of Engineers Midwest Region – Version 2.0

Project/Site: 21-1155.03 2003081 SR 13 & SR 128 F	RAB City	//County: Madison	County, IN	Sampling Date: 2023-08-09
Applicant/Owner: Indiana Department of Transportation	on		State: IN	Sampling Point: WP3
Investigator(s): Brigitte Moneymaker and April Arroyo-Mor	nroe Sec	ction, Township, Rar	S-33, T-21 N, R-	6E
Landform (hillslope, terrace, etc.): roadside ditch		Local relief (	(concave, convex, none):	concave
	Lor	ng: <u>-</u> -85.86187		Datum: WGS 84
Soil Map Unit Name: Ockley silt loam			NWI classific	ation:N/A
Are climatic / hydrologic conditions on the site typical for this				
Are Vegetation, Soil, or Hydrology si	gnificantly dist	turbed? Are "	Normal Circumstances" p	oresent? Yes No
Are Vegetation, Soil, or Hydrology na	aturally proble	matic? (If ne	eded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	showing sa	ampling point lo	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes X No				
Hydric Soil Present? Yes X No		Is the Sampled		
Wetland Hydrology Present? Yes X No	<u> </u>	within a Wetlan	id? Yes^	No
Remarks:				
VEGETATION – Use scientific names of plants.				
		ominant Indicator	Dominance Test work	sheet:
		pecies? Status	Number of Dominant S	
1			That Are OBL, FACW, o	or FAC: (A)
2 3			Total Number of Domin Species Across All Stra	1
4				
5			Percent of Dominant Sp That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size: 15 ft r )	=T	otal Cover	Prevalence Index wor	ksheet:
1			Total % Cover of:	
2.			OBL species 0	x 1 = 0
3.			FACW species 80	x 2 = 160
4			FAC species 1	x 3 = <u>3</u>
5			FACU species 0	$\times 4 = \frac{0}{2}$
	= T	Total Cover	UPL species 0	x 5 = 0
Herb Stratum (Plot size:)   Alopecurus pratensis	80	Y FACW	Column Totals: 81	(A) <u>163</u> (B)
Rumex crispus	1 -	N FAC	Prevalence Index	= B/A = 2.0
3.			Hydrophytic Vegetation	
4.			1 - Rapid Test for H	Hydrophytic Vegetation
5.			X 2 - Dominance Tes	it is >50%
6			X 3 - Prevalence Inde	ex is ≤3.0 <sup>1</sup>
7			4 - Morphological A	Adaptations <sup>1</sup> (Provide supporting
8				s or on a separate sheet) phytic Vegetation <sup>1</sup> (Explain)
9			Problematic Hydrol	onytic vegetation (Explain)
10	040/		<sup>1</sup> Indicators of hydric soi	l and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft r )	81% = T	Total Cover	be present, unless distu	
1			Hydrophytic	
2			Vegetation	X
	= T	Total Cover	Present? Yes	s No
Remarks: (Include photo numbers here or on a separate s	heet.)			
Photo #29				

SOIL Sampling Point: WP3

Depth (inches)	Matrix Color (moist)	%	Color (moist)	dox Feature %	es Type <sup>1</sup>	Loc²	Texture	Remarks
0-12		99		<del></del> 1	C C			i /ciliai//3
<u> </u>	10YR 4/2	_ =====================================	5YR 6/8	_ <u> </u>		<u>M</u>	Silt Loam _	
<sup>1</sup> Type: C=C	concentration, D=De	epletion, RM	I=Reduced Matrix, I	MS=Maske	d Sand Gr	ains.	<sup>2</sup> Location: I	PL=Pore Lining, M=Matrix.
	Indicators:	,	,					r Problematic Hydric Soils³:
Histoso	I (A1)		Sandy	Gleyed M	atrix (S4)		Coast Pra	airie Redox (A16)
_	pipedon (A2)			Redox (S			Dark Sur	. ,
Black H	listic (A3)		Stripp	ed Matrix (	S6)		Iron-Man	ganese Masses (F12)
Hydrog	en Sulfide (A4)		Loam	y Mucky M	ineral (F1)			llow Dark Surface (TF12)
Stratifie	d Layers (A5)		Loam	y Gleyed N	latrix (F2)		X Other (E)	kplain in Remarks)
_	uck (A10)			ted Matrix	. ,			
	ed Below Dark Surfa	ace (A11)	_	x Dark Surf			31	the decade of a considering and
_	ark Surface (A12)			ted Dark S		)		f hydrophytic vegetation and
	Mucky Mineral (S1) ucky Peat or Peat (		Redox	x Depression	ons (F8)			ydrology must be present, sturbed or problematic.
	Layer (if observed	-					unless di	sturbed or problematic.
Type:	Layer (II Observed	.,.						
	ahaa):						Hydric Soil Pr	resent? Yes _X No
Remarks:	nches):							
We could n		es anywher	e near the suspect	ed wetland	l boundar	due to c	ompacted soil and	d rocks/gravel in the profile.
	drology Indicators	ę·						
	cators (minimum of		ired: check all that	annly)			Secondary	Indicators (minimum of two required)
		one is requ			(00 (PO)			
	Water (A1) ater Table (A2)			tained Lea Fauna (B1	, ,			e Soil Cracks (B6) ge Patterns (B10)
_ •	,			uatic Plants			_	eason Water Table (C2)
_	ion (A3)				, ,			` '
	Marks (B1)			n Sulfide C		ina Boots		sh Burrows (C8)
	ent Deposits (B2) eposits (B3)			Rhizosph		-	—	tion Visible on Aerial Imagery (C9) d or Stressed Plants (D1)
	. , ,			e of Reduc				` '
	at or Crust (B4) posits (B5)		Recent i	ron Reduc		a Solis (C		orphic Position (D2) leutral Test (D5)
	posits (๒๖ <i>)</i> ion Visible on Aeria	l Imagen/ (F	_		, ,		Y FAC-N	leutrai Test (D5)
_	y Vegetated Conca		, — •		` '			
Field Obse		ve Suriace	(B8) Other (E	храштик	emarks)			
		Vaa	No X Donth (	inahaa\:				
	ter Present?	Yes	No X Depth (	inches)		-		
Water Table						— I		X
Saturation F	resent? pillary fringe)	Yes	No <u>✓</u> Depth (	inches):		Wet	land Hydrology F	Present? Yes X No
_	ecorded Data (strea	m gauge, m	onitoring well, aeria	al photos, p	revious in:	pections)	, if available:	
	,							
Remarks:								

US Army Corps of Engineers Midwest Region – Version 2.0

Project/Site: 21-1155.03 2003081 SI	R 13 & SR 128	8 RAB	City/Cou	ntv: Madisor	n County, IN	Sampling Dat	te: 2023-08-09
Applicant/Owner: Indiana Dept. of To			-	,.	11	N Sampling Poi	
Investigator(s): Brigitte Moneymaker		yo-Monroe					
Landform (hillslope, terrace, etc.):De				-		none):concave	<b>.</b>
Slope (%): 0 Lat: 4	0.21881	1	Long: -8		(,,	Datum: WGS	S 84
Soil Map Unit Name: Ockley	/ silt loam		Long		NWI da	assification: N/A	
Are climatic / hydrologic conditions on the		his time of ves	ar? Ves	X No	(If no, explain	n in Remarks )	
Are Vegetation, Soil, or H						ces" present? Yes	√ No
Are Vegetation, Soil, or H						answers in Remarks.	
SUMMARY OF FINDINGS – Att							
Hydrophytic Vegetation Present?	Yes X		Ť		· · ·		
Hydric Soil Present?	Yes	No X	Is	the Sampled	Area		
Wetland Hydrology Present?	Yes X	No	w	ithin a Wetlar	nd? Yes	NoX	
Remarks:							
VEGETATION - Use scientific na	ames of plant	ts.					
		Absolute		ant Indicator	Dominance Test	worksheet:	
Tree Stratum (Plot size:				s? Status	Number of Domin		1 (4)
1					That Are OBL, FA	CVV, or FAC:	(A)
2 3					Total Number of E		1 (B)
4.					Species Across A		. (В)
5					Percent of Domina That Are OBL, FA		1 (A/B)
				Cover			(/05)
Sapling/Shrub Stratum (Plot size:					Prevalence Index		de la la companya de
1						er of: Mu	
2					FACW species	x 1 = _ 80	160
3 4						x3=_	
5.						x 4 = _	
			= Total (	Cover	UPL species _	x 5 = _	
Herb Stratum (Plot size:	)	80	Υ	FACW	Column Totals: _	80 (A) _	160(B)
1. Alopecurus pratensis					Prevalence	Index = B/A =	2
2						getation Indicators:	
3 4					' ' '	st for Hydrophytic Ve	
5					X 2 - Dominanc	ce Test is >50%	
6					X 3 - Prevalenc	e Index is ≤3.0 <sup>1</sup>	
7.					4 - Morpholog	gical Adaptations¹ (F	Provide supporting
8						emarks or on a sepai	,
9					Problematic F	Hydrophytic Vegetat	ion (Explain)
10					<sup>1</sup> Indicators of hydr	ric soil and wetland l	hydrology must
Woody Vine Stratum (Plot size:	)		= Total (	Cover		s disturbed or proble	
1					Hydrophytic		
2					Vegetation Present?	Yes X No	
			= Total (	Cover	i resent?	NC	<u></u>
Remarks: (Include photo numbers here	or on a separat	e sheet.)					
Photo #31							

SOIL Sampling Point: UP3

Profile Desc	cription: (Describ	e to the dep	th needed to docu	ment the	indicator	or confire	m the absence of indicators.)			
Depth	Matrix			ox Feature						
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup>	Texture Remarks			
0-8	10YR 3/2	99	7.5YR 5/8	_ 1	<u> </u>	<u>M</u>	Silty Clay			
8-12	10YR 2/1	100					Silty clay			
l —										
-										
17	tration D-D	— ———	- Doducod Matrix N	- —	. ————		<sup>2</sup> Location: PL=Pore Lining, M=Matrix.			
Hydric Soil		epielion, Rivi-	Reduced Matrix, N	IS-Masked	a Sand Gi	allis.	Indicators for Problematic Hydric Soils <sup>3</sup> :			
Histosol			Sandy	Clayed Me	striv (CA)		Coast Prairie Redox (A16)			
ı —	pipedon (A2)			Gleyed Ma Redox (S5			Coast Prairie Redox (A16) Dark Surface (S7)			
I —	istic (A3)			ed Matrix (S			Iron-Manganese Masses (F12)			
ı —	en Sulfide (A4)			Mucky Mi			Very Shallow Dark Surface (TF12)			
	d Layers (A5)			Gleyed M			Other (Explain in Remarks)			
	uck (A10)			ed Matrix (						
_	d Below Dark Surfa	ace (A11)		Dark Surfa	,					
	ark Surface (A12)			ed Dark Su		)	<sup>3</sup> Indicators of hydrophytic vegetation and			
Sandy N	Mucky Mineral (S1)		Redox	Depressio	ns (F8)		wetland hydrology must be present,			
	ucky Peat or Peat (						unless disturbed or problematic.			
Restrictive	Layer (if observed	l):								
Type:							Hydric Soil Present? Yes No X			
Depth (in	ches):						Hydric Soil Present? Yes No _^			
Remarks:										
We coul	d not dig past	12 inches	anvwhere near	the sus	pected	wetland	boundary due to compacted soil			
1	s/gravel in the		,		p = = 1.0 u.					
4114 1001	10, 9, 4, 70, 11, 11, 10	promo								
<b>HYDROLO</b>	GY									
Wetland Hy	drology Indicators	s:								
			ed; check all that a	pply)			Secondary Indicators (minimum of two required)			
	Water (A1)			ained Leav	es (B9)		Surface Soil Cracks (B6)			
_	ater Table (A2)		Aquatic F		, ,		Drainage Patterns (B10)			
Saturation				atic Plants			Dry-Season Water Table (C2)			
Water M	, ,		Hydroger				Crayfish Burrows (C8)			
	nt Deposits (B2)		Oxidized		, ,	ina Roots				
ı —	posits (B3)		Presence				Stunted or Stressed Plants (D1)			
I —	at or Crust (B4)		Recent In		•	,	Y			
-	posits (B5)		Thin Muc			d dolla (C	× FAC-Neutral Test (D5)			
I —	on Visible on Aeria	I Imagen/ (B7	_		, ,		1 Ao-Neutral Test (50)			
ı —			38) Other (Ex		, ,					
Field Obser		ve odirace (i		piairiirik	markoj					
Surface Wat		Vac I	No X Denth (i	ochee).						
		Vac 1	No <u>X</u> Depth (ir No <u>X</u> Depth (ir	oboo):		-				
Water Table							land Hudralam Drasant2 Vac X No			
Saturation P (includes car	resent? pillary fringe)	res I	No _✓_ Depth (in	iches):		_   wet	land Hydrology Present? YesX No			
		m gauge, mo	nitoring well, aerial	photos, pr	evious ins	spections),	, if available:			
Remarks:										

US Army Corps of Engineers Midwest Region – Version 2.0



# DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, LOUISVILLE DISTRICT INDIANAPOLIS REGULATORY OFFICE 8902 OTIS AVENUE, SUITE S106B INDIANAPOLIS, IN 46216

March 6, 2024

Regulatory Division North Branch ID No. LRL-2024-102-dds

Mr. Aidan Geissler Indiana Department of Transportation 100 North Senate Avenue, Room N642 Indianapolis, IN 46204

Dear Mr. Geissler:

This is in regard to the wetland delineation dated February 27, 2024, and your electronic mail message of January 30, 2024, requesting an approved jurisdictional determination at the SR 13 and SR 128 intersection in Hamilton, Tipton, and Madison Counties, Indiana (Des. No. 2003081). The proposed project is located at Latitude 40.21892°N, Longitude 85.86193°W. A location map is enclosed.

The U.S. Army Corps of Engineers exercises regulatory authority under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) and Section 404 of the Clean Water Act (33 USC 1344) for certain activities in "waters of the United States (U.S.)." These waters include all waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce.

Based on our review of the submitted information, we have determined that RSDs 1 through 7, Wetlands 1 through 3, and UNT 3 Duck Creek are not "waters of the U.S." and are not regulated under Section 404 of the Clean Water Act.

However, this determination does not relieve you of the responsibility to comply with applicable State law. We urge you to contact the Indiana Department of Environmental Management (IDEM), Office of Water Quality at wetlandsprogram@idem.in.gov to determine the applicability of State law to the excluded waters mentioned above.

This letter contains an approved jurisdictional determination (JD) for your site. If you object to this JD, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this JD you must submit a completed RFA form to the Lakes and Rivers Division Office at address listed on the enclosed NAP RFA form.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by **May 5, 2024**. It is not necessary to submit an RFA form to the Division office if you do not object to the JD in this letter.

This jurisdictional determination is valid for a period of five years from the date of this letter unless new information warrants revision of the determination before the expiration date. Our comments on this project are limited to only those effects which may fall within our area of jurisdiction and thus does not obviate the need to obtain other permits from state or local agencies. Lack of comments on other environmental aspects should not be construed as either concurrence or nonconcurrence with stated environmental effects.

The delineation included herein has been conducted to identify the location and extent of the aquatic resource boundaries and/or the jurisdictional status of aquatic resources for purposes of the Clean Water Act for the particular site identified in this request. This delineation and/or jurisdictional determination may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center prior to starting work.

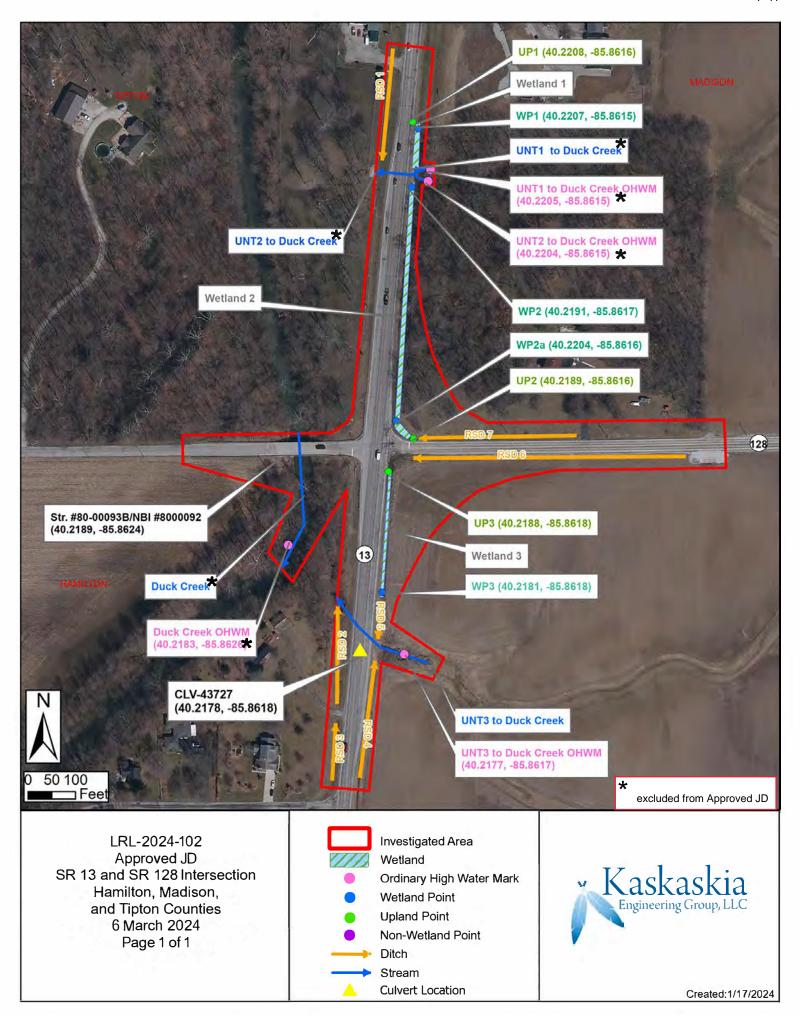
If we can be of any further assistance, please contact me by writing to the above address or calling (317)448-2251. Any correspondence should reference our assigned Identification Number LRL-2024-102-dds.

Sincerely,

Deborah Duda Snyder Project Manager Indianapolis Regulatory Office

Enclosure

Copy Furnished: IDEM (Wrin)



From: Wrin, Graham C
To: Geissler, Aidan
Cc: Curry, Jennifer

Subject: Re: Wetland Classification Request -- DES 2003081

Date: Friday, March 22, 2024 2:31:50 PM

Attachments: Outlook-prdlnuwy.png

Outlook-0m5rz4oo.png Outlook-swdanulo.png Outlook-kvistl2r.png Outlook-0m14uqk0.png Outlook-zzxgdr1f.png

#### Hell Aidan,

Wetland 2 is a Class I wetland and is exempt from regulation under IC 13-18-22.

Wetlands 1 and 3 are Class II wetlands and are available for exemption under IC 13-11-2-74.5(6), you can selected one of these wetlands for exemption.

#### Thanks,



#### Graham Wrin, Wetland Project Manager

Wetlands Section, Office of Water Quality 100 North Senate Avenue, Room 1255 Indianapolis Indiana 46204

Phone: (317) 605-4105 Fax: (317) 234-4145 GCWrin@idem.IN.gov

Section 401 Water Quality Certification and Isolated Wetlands Program: http://www.in.gov/idem/wetlands

Stormwater Program: <a href="http://www.in.gov/idem/stormwater">http://www.in.gov/idem/stormwater</a>

Indiana Stormwater Quality Manual: <a href="http://www.in.gov/idem/stormwater/2363.htm">http://www.in.gov/idem/stormwater/2363.htm</a>

Indiana Department of Environmental Management









Please take two minutes and complete this brief survey.



#### **APPENDIX G**

Public Involvement

Sample

Re: Designation Number: 2003082, SR 13 at Strawtown Avenue Intersection Improvement Project, Madison, Hamilton, and Tipton counties, Indiana

#### Notice of Entry for Survey or Investigation

May 1, 2023

Dear Property Owner,

Our information indicates that you own/or reside at a property near a proposed transportation project located at the intersection of State Road (SR) 13 and Strawtown Avenue (8th Street Road), within Madison and Hamilton counties, near Strawtown and Lapel, Indiana. Representatives of the Indiana Department of Transportation will be conducting environmental surveys of the project area in the near future. These studies will evaluate the roadway as well as the surrounding area near the intersection. It may be necessary for them to enter onto your property to complete this work. This is permitted under Indiana Code § 8-23-7-26. Anyone performing this type of work has been instructed to identify him or herself to you, if you are available, before they enter your property. If you no longer own this property or it is currently occupied by someone else, please let us know the name of the new owner or occupant so that we can contact them about the survey.

Please read the attached notice to inform you of what the "Notice of Entry for Survey or Investigation" means. The survey work may include the identification and mapping of wetlands, measuring and identification of trees and/or vegetation, archaeological investigations (which may involve the survey, testing, or excavation of identified archaeological sites), and various other environmental studies. Any excavation work conducted as part of this project will involve hand tools only. Excavations will be backfilled upon completion. The information we obtain from such studies is necessary for the proper planning and design of this highway project.

Staff performing this work will retain a copy of this letter and will attempt to identify themselves to the occupant before they enter the property. We anticipate these field investigations will occur starting May 2023 (weather dependent).

If any problems do occur, please communicate with the field crew or INDOT Project Manager, Kim Szewczak, at 317-289-3193, email: <a href="mailto:kszewczak@indot.in.gov">kszewczak@indot.in.gov</a> or Consultant Project Manager, Tom Heustis at 317-643-4047, email: Heustis, Tom Tom.Heustis@kimlev-horn.com.

Please be aware that you have the right to request any or all archaeological artifacts collected from your property. If you do not ask that artifacts be returned to you, all recovered archaeological material will be curated at a state-approved Qualified Curation Facility. If you wish to have artifacts returned to you, please call or email Matt Coon at mcoon@indot.in.gov or 317-697-6752.

It is our sincere desire to cause as little inconvenience as possible during this survey, and we thank you in advance for your cooperation.

Sincerely,
Bill Curtis, PE
Project Manager - Highway
Michael Baker International, Inc.

Attachments: Omitted

- Notice of Survey
- Indiana Code



# S.R. 13 Roundabouts - Public Information Meeting August 17, 2023 LaPel High School

Name	Address	Email
Sharon Antrim	8573N 900 W	
Garland Antrim	samo J	
Clera & Cely Barber	9881 W. Centers St.	
Frank Shafter by	9845 W. Montgomery, Anderson 40011	Houkand Tande Transcer com
MIKE FOUNTAIN	9910 WETH STREOT	
Varighe Bracken	1412N. SR.B	anduson, In 46011
John Simmer non	9538 W State Rd32	Lapel In 4605/
Bin Hurron	9493 Auswer G	LAPRI 14 46051
Janet Shetterly	9845 W Montgomery	Anderson IN 46011
Glen Hune Glow	16285 B. 21614	No6 46060
Adam Hester	929 W 7th Anderson 46016	& ahester@d/z.com



# S.R. 13 Roundabouts

To improve safety and maintain mobility at two intersections in Hamilton, Madison and Tipton counties

The Indiana Department of Transportation (INDOT) is seeking public input on the proposed construction of two roundabouts on State Road (S.R.) 13:

- 1. S.R. 13/37 and S.R. 128/East 296th Street near Elwood (Des. No. 2003081)
- 2. S.R. 13 and Strawtown Avenue/West 8th Street near Perkinsville (Des. No. 2003082)

**Safety:** Low-cost improvements at these intersections have not reduced crash frequency and severity. Reasons for the higher-than-normal number of crashes and injuries include:

- Limited sight distance for local cross traffic
- High traffic speeds on S.R. 13

**Cost:** The existing two-way stop intersections would be converted to single-lane roundabouts at an estimated cost of \$3 to \$4 million per intersection. See the second page for more information about the specific intersections.

**Project status:** The project is in the early stages of development. The project team will assess potential impacts the project will have on the human and natural environments.

#### **Contact INDOT:**

- 855-INDOT4U (1-855-463-6848)
- www.indot4u.com
- indot@indot.in.gov





# S.R. 13/37 and S.R. 128/E. 296th St. near Elwood



**Location:** State Road 13 is also S.R. 37 at this intersection where the Hamilton, Madison and Tipton county lines intersect.

**Safety:** There were 18 crashes at this intersection over a three-year period, including 7 injury crashes.

**Nearby bridge:** Roundabout construction would shift the intersection to avoid impacting a bridge 100 feet west of the intersection.

**Construction traffic:** North-south traffic on S.R. 13/37 is expected to be maintained with short-term closures. The east and west approaches may be closed for the majority of construction.

# S.R. 13 and Strawtown Ave./W. 8th St. near Perkinsville

**Location:** This intersection is just south of the White River bridge on the Hamilton-Madison county line.

Construction traffic: Temporary closures, in phases, of each approach to the intersection are being considered.

Safety: There were 22 crashes at this intersection over a three-year period, including 8 injury crashes. A hill on the south side of the intersection limits sight distance for cross-traffic.





855-INDOT4U (1-855-463-6848)



www.indot4u.com



indot@indot.in.gov

STATE OF INDIANA }

}SS.

COUNTY OF HAMILTON

Public Notice: DES #s 2003081 and 2003082

Petitioner: INDOT/Compass

**Outreach Solutions** 

### **AFFIDAVIT OF PUBLICATION**

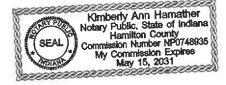
Personally appeared before me, a notary public in and for said county and state, the undersigned, Steve Greenberg who, being duly sworn, says that the Publisher of Current in Fishers and Current in Noblesville newspapers of general circulation printed and published in the English language in the city of Carmel in state and county afore-said, and that the printed matter attached hereto is a true copy, which was duly published in said papers, the date of publication being as follows:

August 15, 2023.

Subscribed and sworn to before me on August 15, 2023.

Notary Public Signature

Publisher's Fee: \$56.30



MEETING FOR INDOT DES #s 20030&1 and 2003082 S.R.13 Roundabouts in Hamilton. Madison and Tipton Counties

LEGAL NOTICE OF PUBLIC INFORMATION

The Indiana Department of Transportation (IN-DOT) will host a public information meeting to dis-

cuss the proposed construction of two roundabouts on State Road (S.R.) 13 in Hamilton, Madison and Tipton counties.

**INDOT Public Information Meeting** What: When: Thursday, August 17, 2023 5 to 7 p.m.: presentation at 5:30 p.m. Where: Lapel High School Auditorium

1850 S 900 W, Lapel, IN 46051 The first roundabout is proposed at the intersection of S.R. 13 and Strawtown Avenue/West 8th Street near Perkinsville. The second roundabout would be located at the intersection of S.R. 13/37.

and S.R. 128/East 296th Street near Elwood. The purpose of the public open house is to give residents an opportunity to learn more about the proposed roundabouts and to provide feedback to the project team. Doors will open at 5 p.m. and the presentation will begin at 5:30 p.m. Project maps and handouts will be available for public re-

view before and after the presentation at an open house session The purpose of the project is to improve safety and mobility at both intersections. Existing two-way stop intersections would be converted to

single-lane roundabouts at an estimated cost of \$3 to 4 million per intersection. INDOT is committed to ensuring that all public meetings are accessible to individuals with to participate in this meeting, please contact Erin

disabilities. If you require special accommodations

Pipkin at erin@compassoutreachsolutions.com or (317) 966-7301 in advance of the meeting.

# **Daily Reporter**

		General Form No 99P (Rev. 2009A)
Prescribed by State	Board of Accounts	General Paris
Attn: Name: • Address:	Pipkin, Erin /L 920 Moonlight Court	AIM MEDIA INDIANA d/b/a DAILY REPORTER PO BOX 3213
Address		McALLEN, TX 78502-3213 FED I.D. #32-0472774
City/State:	Mooresville, IN 46158	1201.0.132 0 112.1
Acct # Order #	G11218847 60125200	
(Government Unit	t) County: Hancock	
	PUBLISHER'S	CLAIM
40.000	mputing costs: Number of equivalent lines per c	
Number of	insertions	1
(Validae) of		
COMPUTATION		
80	lines, 1 column(s) x rate of 0.3739 cents per li	ne
9.00	ges for notices containing rule or tabular wor percent surcharge included in rate above) a proofs of publication (\$1.00 for each proof in a	
TO	TAL AMOUNT OF CLAIM	29.91
amount claimed PUBLISHER'S A	is legally due, after allowing all just credits, and	
I, Sally Clark, Leg the (city/town) o publication bein	of Greenfield in state and county aforesaid, and	circulation printed and published in the English language in it that the printed matter attached hereto is a true copy, which
8	8/12/2023	
	egal Advertising Clerk	8/14/2023 Date

08/14/2023 07:50:56 1 of 2 Page

60125200 Order Number

PO Number Customer

Contact 920 Moonlight Court Address1

Address2 City St Zip

(317) 966-7301 Phone

Fax Credit Card

Cindy Fillenworth Printed By Dee Berge **Entered By** 

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ě.

Keywords Notes Zones

G11218847 Pipkin, Erin /L

Mooresville IN 46158

DES #s 2003081 and 2003082

50163250 Ad Number

Ad Key 812 - DR Class 2 - Berge Salesperson

Daily Reporter Publication 60 Notices Section 60 Notices Sub Section 6015 Legals

Category 08/12/2023-08/12/2023 Dates Run

Days 1 x 7.76, 80 lines

Size 261

Words L-Government Ad Rate

29.91 Ad Price 0.00 **Amount Paid** 29.91 **Amount Due** 

Legal Advertisement LEGAL NOTICE OF PUBLIC INFORMATION MEETING FOR INDOT DES #s 2003081 and 2003082

S.R.13 Roundabouts in Hamilton, Madison and **Tipton Counties** 

The Indiana Department of Transportation (INDOT) will host a public information meeting to discuss the proposed construction of two construction of two roundabouts on State Road (S.R.) 13 in Hamil-ton Medico ton, Madison and Tipton

counties. What: INDOT Public Inforwhat: INDOT Public Infor-mation Meeting When: Thursday, August 17, 2023 5 to 7 p.m.; presentation

at 5:30 p.m. Where: Lapel High School

Auditorium 1850 S 900 W, Lapel, IN

46051

The first roundabout is proposed at the inter-section of S.R. 13 and Strawtown Avenue/West 8th Street near Per-kinsville. The second roundabout would be located at the intersection of S.R. 13/37 and S.R. 128/East 296th Street

near Elwood. The purpose of the public open house is to give residents an opportunity to learn more about the proposed roundabouts and to provide feedback to the project team. Doors will open at 5 p.m. and the presentation will begin at 5:30 p.m. Project maps and handouts will be available for public review before and at the property of the project has been presented as the property of the project has a property of the project has been project to be project to the project has been project to the ter the presentation at an

open house session.
The purpose of the project is to improve safety and mobility at both intersec-tions. Existing two-way stop intersections would converted single-lane roundabouts at an estimated cost of \$3 to 4 million per intersection.

Order Number

Customer

PO Number

Contact Address1

Address2

City St Zip Phone Fax

Credit Card Printed By **Entered By** 

Keywords Notes Zones

60125200

G11218847 Pipkin, Erin /L

920 Moonlight Court

Mooresville IN 46158

(317) 966-7301

Cindy Fillenworth Dee Berge

DES #s 2003081 and 2003082

50163250 Ad Number

Ad Key Salesperson

Category

812 - DR Class 2 - Berge Daily Reporter

Publication 60 Notices Section 60 Notices **Sub Section** 6015 Legals

08/12/2023-08/12/2023

Dates Run Days

1 x 7.76, 80 lines Size 261 Words L-Government

Ad Rate 29.91 Ad Price 0.00 **Amount Paid** 29.91 **Amount Due** 

INDOT is committed to ensuring that all public meetings are accessible to individuals with disabilities. If you require special accommodations to participate in this meeting, please contact Erin Pipkin at erin@compassoutreachs olutions.com or (317) olutions.com or (317) 966-7301 in advance of the meeting. 60125200 hspaxlp DR 8/12/23

General Form No. 99P (Revised 20)

Tax I.D 82-2664009 To: Anderson Herald Bulletin

LEGAL NOTICE OF PUBLIC INFORMATION MEETING FOR INDOT

DES #\$ 2003081 and 2003082
S.R.13 Roundabouts in Hamilton, Madison and Tipton Counties The Indiana Department of Transportation (INDOT) will host a public information meeting to discuss the proposed construction of two roundabouts on State Road (S.R.) 13 in Hamilton, Madison and Tipton counties. What: INDOT Public Information Meeting When: Thursday, August 17, 2023 5 to 7 p.m.; presentation at 5:30 p.m. Where: Lapel High School Auditorium 1850 S 900 W, Lapel, IN 46051 The first roundabout is proposed at the intersection of S.R. 13 and Strawtown Avenue/West 8th Street near Perkinsville. The second roundabout would be located at the intersection of S.R. 13/37 and S.R. 128/East 296th Street near Elwood. The purpose of the public open house is to give residents an opportunity to learn more about the proposed roundabouts and to provide feedback to the project team. Doors will open at 5 p.m. and the presentation will begin at 5:30 p.m. Project maps and handouts will be available for public review before and after the presentation at an open house session. The purpose of the project is to improve safety and mobility at both intersections. Existing two-way stop intersections would be converted to single-lane roundabouts at an estimated cost of \$3 to 4 million per intersection. INDOT is committed to ensuring that all public meetings are accessible to individuals with disabilities. If you require special accommodations to participate in this meeting, please contact Erin Pipkin entings are contact

Indiana Department of Transportation (INDOT) Lapel High School P.O. Box 1090, Anderson, Ind (Governmental Unit) Madison County, Indiana **PUBLISHER'S CLAIM** HB- 590 LINE COUNT Ad # 1842845 Display Master (Must not exceed two actual lines, neither of which shall total more more than four solid lines of the type in which the body of the advertisement is set) - number of equivalent lines Head - number of lines ..... Body - number of lines ..... Tail - number of lines ..... Total number of lines in notice **COMPUTATION OF CHARGES** 54 lines, columns wide equals equivalent lines at 0.8086 cents per line ......\$43.66 Additional charge for notices containing rule or tabular work (50 percent of above amount) market and a second sec Charge for extra proofs of publication (\$1.00 for each proof in excess of two) **Total Amount of Claim** \$43.66 DATA FOR COMPUTING COST Width of single column in picas 9.9 Number of insertions Pursuant to the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid. I also certify that the printed matter attached hereto is a true copy, of the same column width and type size, which was duly published in said paper 2 times. The dates of publication being as follows: August 7, 2023 August 14, 2023 Additionally, the statement checked below is true and correct: Newspaper does not have a Web site x Newspaper has a Web site and this public notice was posted on the same day as it was published in the newspaper Newspaper has a Web site, but due to technical problem or error, publish notice

Date: August 14, 2023

was posted on

Title: Legal Advertising Clerk

Newspaper has a Web site but refuses to post the public notice.

LEGAL ADVERTISING

Claim	NoWarrant No	i nave examined the	I have examined the within claim and hereby certify as follows:						
	IN FAVOR OF	That it is in proper form.							
		That it is duly authenticate	d as required by law.						
		That it is based upon state	utory authority.						
	\$	That it is apparently	correct						
ON ACCOUNT OF APPI	ROPRIATION FOR	correct; that the and for which ch	ne within claim is true and e services there in itemized harge is made were ordered re necessary to the public business						
	Appropriation No								
ALL	OWED	· · · · · · · · · · · · · · · · · · ·							
	IN THE SUM OF \$	-							
			*						
*									
	Attest								

## **APPENDIX H**

Air Quality

Federal Transit Administration Region V 200 West Adams St., Suite 320 Chicago, IL 60606-5253



U.S. Department of Transportation

Federal Highway Administration Indiana Division 575 N. Pennsylvania St., Rm 254 Indianapolis, IN 46204-1576

September 1, 2023

Mr. Michael Smith Commissioner Indiana Department of Transportation 100 N Senate Ave. N955 Indianapolis, IN 46204

SUBJECT: Indiana FY2024-2028 STIP Approval and Associated Federal Planning Finding

Dear Mr. Smith:

The Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) have completed our review of the FY2024-2028 Indiana Statewide Transportation Improvement Program (INSTIP), which was submitted by the Indiana Department of Transportation (INDOT) request letter dated August 23, 2023.

Based on our review of the information provided, certifications of the Statewide and Metropolitan transportation planning processes for and within the state of Indiana, and our participation in those transportation planning processes (including planning certification reviews conducted in Transportation Management Areas), FHWA and FTA are jointly approving the FY2024-2028 STIP, including the Metropolitan Planning Organization (MPO) Transportation Improvement Programs (TIPs) incorporated into the STIP by reference, subject to the corrective actions identified in the attached Federal Planning Finding (FPF) report. FHWA and FTA consider the projects in the 5<sup>th</sup> year for informational purposes only, and our approval does not exceed four years per 23 CFR 450.220(c).

FHWA and FTA are required under 23 CFR 450.220(b) to document and issue an FPF in conjunction with the approval of the FY2024-2028 STIP. At a minimum, the FPF verifies that the development of the STIP is consistent with the provisions of both the Statewide and Metropolitan transportation planning requirements. FHWA and FTA find that the Indiana FY2024-2028 STIP substantially meets the transportation planning requirements and are approving the STIP subject to the corrective actions outlined in the FPF. This approval is effective September 1, 2023 and is given with the understanding that an eligibility determination of individual projects for funding must be met, and INDOT must ensure the satisfaction of all administrative and statutory requirements, as well as address the corrective actions outlined in the attached report.

If you have questions or need additional information concerning our approval and the FPF, please contact Ms. Erica Tait of the FHWA Indiana Division at (317) 226-7481, or by email at <a href="mailto:erica.tait@dot.gov">erica.tait@dot.gov</a>, or Mr. Tony Greep of the FTA Region 5 Office at (312) 353-1646, or by email at <a href="mailto:anthony.greep@dot.gov">anthony.greep@dot.gov</a>.

Sincerely,

KELLEY Digitally signed by KELLEY BROOKINS

BROOKINS Date: 2023.08.31
17:33:15-05'00'

Kelley Brookins Regional Administrator FTA Region V Sincerely,

JERMAINE Digitally signed by JERMAINE R HANNON Date: 2023.09.01 11:46:31 -04'00'

Jermaine R. Hannon Division Administrator FHWA Indiana Division



# INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-Executive Office Indianapolis, Indiana 46204 PHONE: (855) 463-6848

Eric Holcomb, Governor Michael Smith, Commissioner

July 18, 2023

Mr. Daniel Avery, Executive Director Northeastern Indiana Regional Coordinating Council 200 East Berry Street, Suite 230 Fort Wayne, IN 46802

#### Fiscal Year 2024 – 2028 Transportation Improvement Program (TIP) Approval

Dear Mr. Avery:

The Indiana Department of Transportation (INDOT) has completed its review of the FY 2024-2028 Transportation Improvement Program for the Northeastern Indiana Regional Coordinating Council (NIRCC). State and locally initiated transportation projects were reviewed for accuracy and compliance under The Infrastructure Investment and Jobs Act (IIJA), Public Law 117-58.

It is my pleasure to inform you that on behalf of Governor Eric Holcomb, I approve your FY 2024-2028 Transportation Improvement Program. This document will serve as support for the local and INDOT projects in your area that fall within the FY 2024-2028 timeline and will be included by reference in the FY 2024-2028 Indiana Statewide Improvement Program (STIP).

If you should have any questions, please feel free to contact Roy Nunnally at 317-234-1692.

Sincerely,

Michael Smith, Commissioner

Indiana Department of Transportation

cc: Lyndsay Quist

Louis Feagans Roy Nunnally

Erica Tait

Todd Johnson Jason Kaiser

File



#### Madison County Council of Governments (Anderson MPO) FY 2024-2028 Transportation Improvement Program (TIP) All Projects: Current Through 10-3-24

															All Projects: (	urrent Through										
PEF	DES	Sponsor Name	Work Category (Work Type)	PROJECT DETAILS  Location & Description	County	Funding Obligation Year (State Fiscal)	Project Phase	Federal Funda by Phase	PRO Required Local/State Matching Funds	JECT FUNDING Total Funds by Phase		Letting Date (2-3 weeks prior to Obligation Date of CN Phase)	Contract ember (CN To Phase)	tal Project Cost	Complete Streets (MPO)	Safety [MPO/INDOT]	PERFORMA  Pavement Condition [MPO/INDOT ]			Congestion Mitigation & Air Quality (CMAQ) [MPO/INDOT]	Transit MTP Pro [MPO/INOOT] Catego	PLANNING ject Analysi ry Perioc		AIR QUALITY CONFORMITY  Exempt Project Type (AQ)	Reference (ACI)	REFERENCE DOCUMENTS
349	2201184	INDOT	Bridge Removal	I-89 Northbound Bridge over Abandonded RR, S8 miles North of SR 236	46	2025	CN	\$ 0.80	\$ 0.20	\$ 1	Nati 50	10/9/2024	8-43499 \$	1	Exempt			х			N/A	2020-20	S AQC Exempt -4-24-23	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 4-28-23
250	2200073	INDOT	Bike/Pedestrian Facilities	SR 9, SR 32 to Cross Street	48	2027	CN	\$ 1,434,400	\$ 358,600	\$ 1,793,000	STBG	10/7/26 I	R-44617 \$	1,793,000	Exempt	Х					N/A	2026-20	TEO (Pending 2024-2028 TIF Approval - USDOT Conformity Letter)	Air Quality: Bicycle and Pedestrian Facilities (33)	40 CFR 93.126.33	Adopted with 2024-2028 TIP
151	2200106	INDOT	Railroad Protection	Various Locations throughout the City of Anderson (COTH S380400, S380500, S38057G, S38051E, S38041F, S38044F, S38050A)	48	2027	CN	\$ 3,850,000	o \$ -	\$ 3,850,000	Na:179	20/9/24	N/A \$	3,850,000	Exempt	х					N/A	2026-20	TEO (Pending 2024-202E TIP Approval - USDOT Conformity Letter)	Safety: Railroad/Highway Crossing Warning Devices (B)	40 CFR 93.126.8	Adopted with 2034-2028 TIP
252	2002337	INDOT	Drainage Ditch Correction	148, .12 miles North of SR 32 to .41 miles South of SR 26	48	2027	CN	\$ 371,857	\$ 96,965	\$ 468,822	Namoro	8/24/24	R-43629 \$	468,822	Exempt			х			N/A	2020-20	TBD (Pending 2024-2028 TIP Approval - USDOT Conformity Letter)	Safety: Pavement Resurfacing and/or Rehabilitation (10)	40 CFR 93.126.10	Adopted with 2024-2028 TIP
253	2200003	INDOT	Signing Installation / Repair	5R 9 @ 5R 2B	46	2027	CN	\$ 3,792,800	\$ 948,200	\$ 4,741,000	STBG	1/13/27	T-44781 \$	4,741,000	Exempt	х					N/A	2026-20	TEO (Pending 2024-202E TIP Approval - USDOT Conformity Letter)	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Adopted with 2034-2028 TIP
254	2200501	INDOT	Small Structures & Drains	F48 Southbound On Rump, 11 miles South of SR 18	46	2027	CN	\$ 251,200	\$ 62,800	\$ 314,000	STBG	7/8/26	R-44564 \$	314,000	Exempt			х			N/A	2026-20	TEO (Pending 2024-202E TIP Approval - USDOT Conformity Letter)	Safety: Pavement Resurfacing and/or Rehabilitation (10)	40 CFR 93.126.10	Adopted with 2034-2028 TIP
255	2200553	INDOT	Bridge Thin Deck Overlay	SR 9 @ Bridge over Lick Creek, 2.01 miles South of SR 38	46	2027	CN	\$ 144,819	\$ 36,205	\$ 181,024	STBG	7/8/26	B-44564 \$	1,597,857	Exempt			х			N/A	2026-20	TEO (Pending 2024-202E TIP Approval - USDOT Conformity Letter)	Safety: Pavement Resurfacing and/or Rehabilitation (10)	40 CFR 93.126.10	Adopted with 2034-2028 TIP
236	2200761	INDOT	Bridge Thin Deck Overlay	149 @ Enidge over 149, 1.33 miles South of SR 9	45	2024	CN	\$ 217,228	\$ 54,308	\$ 271,536	STBG	7/8/26	D-44564 \$	271,536	Exempt			х			N/A	2020-20	TEO (Pending 2024-302E TIP Approval - USDOT Conformity Letter)	Safety: Pavement Resurfacing and/or Rehabilitation (10)	40 CFR 93.126.10	Adopted with 2024-2028 TIP
237	2300758	INDOT	Bridge Painting	SR 12 @ Bridge over White River, 1.37 miles east of SR 9 (Scatterfield Road) [Andenon]	45	2024	PE	\$ 413,075	\$ 103,269	\$ 516,344	STBG	10/14/2027	8-45158 \$	1,053,090	Exempt			х			N/A	2020-20	5 ACC Exempt - 3-6-24 & 3-27-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 3-7-24, Res. 4-4-24
258	2300758	INDOT	Bridge Painting	SR 12 @ Bridge over White River, 1.37 miles east of SR 9 (Scatterfield Road) [Andenon]	45	2025	PE	\$ 160,000	\$ 40,000	\$ 200,000	STBG	10/14/2027	8-45158 \$	1,053,090	Exempt			х			N/A	2020-20	5 ACC Exempt - 3-6-24 & 3-27-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 3-7-24, Res. 4-4-24
259	2300863	INDOT	Bridge Painting	I-40 Bridge over CSX RR, A5 miles South of SR 9 (Scatterfield Road)	48	2025	PE	\$ 160,000	\$ 40,000	\$ 400,000	NHPP	10/14/2027	8-45158 \$	557,146	Exempt			х			N/A	2020-20	AQC Exempt - 3-6-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 3-7-24
360	2100757	INDOT	Replace Superstructure	58: 32 Bridge & Stony Creek, 42 miles East of 58: 13	48	2025	PE	\$ 312,000	\$ 78,000	\$ 190,000	STBG	7/12/2028 8	0-45185 \$	2,282,275	Exempt			х			N/A	2020-20	5 ACC Exempt - 3-6-24 & 3-27-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 3-7-24, Res. 4-4-24
363	2000568	INDOT	HMA Overlay, Preventive Maintenance	<b>5R 13,</b> 1-69 to .93 miles 5. of 5R 32	48	2025	ON	\$ 5,043,566	\$ 1,260,892	\$ 6,304,458	STBG	7/10/2024 1	R-44880 S	6,668,178	Exempt		х				N/A	2020-20	5 AQC Exempt - 8-5-20, 1-6-21, & 3-27-36	Safety: Pavement Resurfacing and/or Rehabilitation (10)	40 CFR 92 126.10	Res. 8-6-20, Res. 1-8-22, Res. 4-4-24
262	2300737	INDOT	Scour Protection (Erosion)	SR 13 @ Bridge over Fall Creek, 1.92 miles South of 1-09	45	2025	PE	\$ 48,000	\$ 12,000	\$ 60,000	STBG	7/8/2026	8-45347 \$	601,083	Exempt			х			N/A	2020-20	S AQC Exempt - 7-23-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 8-1-24, Adopted with 2024-2028 TIP
263	2301200	INDOT	Bike/Pedestrian Facilities	St 9 (Scatterfield Road), SR 32 (South Aunction)/SR 232 (Mounds Road)Chino Avenue) to SR 32 (North Aunction)/University Boulevard/Main Street (Anderson)	45	2025	PE	\$ 719,154	\$ 79,906	\$ 799,060	HSIP	7/14/2024	R-45188 \$	4,128,476	Exempt				х		N/A	2020-20	S AQC Exempt - 7-23-24	Air Quality: Bicycle and Pedestrian Facilities (33)	40 CFR 93.126.33	Res. 8-1-24, Adopted with 2024-2028 TIP
354	2301200	INDOT	Bike/Pedestrian Facilities	SR 9 (Scatterfield Road), SR 32 (South Aunction)/SR 232 (Mounds Road/Chin Avenue) to SR 32 (North Aunction)/University Boulevard/Main Street (Anderson)	45	2028	CN	\$ 2,996,474	\$ 132,942	\$ 3,329,416	HSIP	7/14/2024 1	R-45188 S	4,128,476	Exempt				х		N/A	2026-20	ACC Exempt - 7-23-24	Air Quality: Bicycle and Pedestrian Facilities (33)	40 CFR 92 125.33	Res. & 1-24, Adopted with 2024-2028 TIP
365	2300771	INDOT	Eridge Rehabilitation or Repair	SR 38 @ Bridge over Mud Creek, 31 miles West of SR 13 (apel)	48	2025	PE	\$ 134,820	\$ 14,980	\$ 149,800	STBG	10/14/2027	8-45257 \$	3,108,258	Exempt				х		N/A	2026-20	AQC Exempt - 9-9-34	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-15-24, Adopted with 2024-2028 TIP (Res. 9-15-24 2024-2028)
366	2300771	INDOT	Bridge Rehabilitation or Repair	SR 38 @ Bridge over Mud Creek, 31 miles West of SR 13 (Lapel)	45	2028	ON	\$ 100,407	\$ 11,156	\$ 111,563	STBG	10/14/2027	8-45157 \$	3,108,258	Exempt				х		N/A	2026-20	AQC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TIP (Res. 9-18-24 2024-2028)
567	2003081	INDOT	Intersection Improvement, Roundabout	SE 13 @ SM 128 (Frankton)	48	2025	RW	§ 157,500	\$ 17,500	\$ 175,000	нсир	50/8/2025	8-44024 \$	3,432,488	Exempt				X		N/A	2026-20	AQC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature [2]	40 CFR 93 126.2	Sen. 9:18-24, Adopted with 2026-2028 TP (New 9-18-26 2024-2028

#### Madison County Council of Governments (Anderson MPO) FY 2024-2028 Transportation Improvement Program (TIP) All Projects: Current Through 10-3-24

													All Trojects.	Current Through 10-3-24									
83	DES	Sponsor Name	Work Category (Work Type)	PROJECT DETAILS  Including & Oracription	Funding County Obligation Ye (State Fiscal	ar Project Phan	Federal Funds by Phase	PRO Required Local/State Matching Funds	Total Funds by Federal Funding Program	Letting Date (2-1 weeks prior to Obligation Date of CN Phase)	Contract Number (CN Phase)	Total Project Cost	Complete Streets [MPO]	PERFOR  Safety Condition  [MPO/INDOT] [MPO/INDOT]  ]	Eridge Condition [MPO/NDOT]		Congestion Mitigation & Air Quality (CMAQ) [MPO/INDOT]		LANNING t Analysis Period	AQ Cosformity Assiysis	AIR QUALITY CONFORMITY  Exempt Project Type (AQ)	Reference (AQ)	REFERENCE DOCUMENTS
100	2003081	INDOT	Intersection Improvement, Roundsbout	SR 13 @ SR 128 (frankton)	48 2026	CN	Š 2,931,739	\$ 325,749	\$ 3,257,488 HSIP	10/8/2025	R-44024	Š 3,432,488	Exempt			х		N/A	2026-2030	AQC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TP (Res. 9-18-24-2024-2028)
36	2003082	INDOT	Intersection Improvement, Roundabout	58 13 @ Strawtown Avenue/W. Eight Street Road (Perkinsville)	48 2025	PE	\$ 81,735	\$ 9,082	\$ 90,817 HSIP	30/8/2025	R-44024	\$ 5,611,554	Exempt			х		N/A	2026-2030	AQC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.116.2	Res. 9-18-24, Adopted with 2024-2028 TIP (Res. 9-18-24-2024-2028)
11	2003082	INDOT	Intersection Improvement, Roundabout	58.33 @ Strawtown Avenue/W. Eight Street Road (Pedicinville)	48 2025	RW	\$ 157,500	\$ 17,500	\$ 175,000 HSIP	10/8/2025	R-44024	\$ 5,611,554	Exempt			х		N/A	2026-2030	AQC Exempt - 9-9-34	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TIP (Res. 9-18-24-2024-2028)
22	2003082	INDOT	Intersection Improvement, Roundabout	58.13 @ Strawtown Avenue/W. Light Street Road (Perkinsville)	48 2026	CN	\$ 1,863,689	\$ 429,299	\$ 4,292,988 HSIP	10/8/2025	R-44024	\$ 5,611,554	Exempt			х		N/A	2026-2030	AQC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TIP (Res. 9-18-24-2024-2028)
22	2300772	INDOT	Bridge Rehabilitation or Repair	SR 38 @ Bridge over Fosters Branch, 1.03 miles West of 140 (Lapel)	48 2025	PE	\$ 135,360	\$ 15,040	\$ 150,400 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt		х			N/A	2026-2030	AQC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TP (Res. 9-18-24-2024-2028)
22	2300772	INDOT	Bridge Rehabilitation or Repair	SR 38 @ Bridge over Fosters Branch, 1.03 miles West of 140 (Lapel)	48 2028	CN	\$ 110,447	\$ 12,272	\$ 122,719 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AQC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TIP (Res. 9-18-24-2024-2028)
27	2300016	INDOT	Bridge Rehabilitation or Repair	58 9/58 67 @ Bridge over 149 NB/58, 2.65 miles North of US 36 (Anderson)	48 2025	PE	\$ 146,160	\$ 16,240	\$ 162,400 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AGC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TP (Res. 9-18-24-2028)
27	2300016	INDOT	Bridge Rehabilitation or Repair	58 3/58 67 @ Bridge over 149 NB/58, 2.65 miles North of US 36 (Anderson)	48 202E	CN	\$ 271,097	\$ 30,122	\$ 301,219 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AGC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TP (Res. 9-18-24-2024)
27	2300929	INDOT	Bridge Rehabilitation or Repair	SR 9 @ Bridge over Prairie Creek, 1.12 miles South of 149 (Pendleton)	48 2025	PE	\$ 136,980	\$ 15,220	\$ 152,200 STBG	10/14/2027	8-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AGC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TP (Res. 9-18-24-2024)
27	2300929	INDOT	Bridge Rehabilitation or Repair	SR 9 @ Bridge over Prairie Creek, 1.12 miles South of I-69 (Pendleton)	46 2028	CN	\$ 170,691	\$ 18,966	\$ 189,657 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AGC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TP (Res. 9-18-24-2024-2028)
27	2300865	INDOT	Bridge Rehabilitation or Repair	1-69 @ NB Bridge over \$2 9/58 109, 3.35 miles South of \$2 236 (Anderson)	48 2025	PE	\$ 177,570	\$ 19,730	\$ 197,300 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AGC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TP (Res. 9-18-24-2024)
22	2300865	INDOT	Bridge Rehabilitation or Repair	I-49 @ NB Bridge over SR 9/58 105, 3.35 miles South of 58 236 (Anderson)	48 2028	CN	\$ 240,976	\$ 25,775	\$ 267,751 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AQC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TP (Res. 9-18-24-2028)
21	2300861	INDOT	Bridge Rehabilitation or Repair	CR 400 @ Bridge over I-69, 2.19 miles North of SR 18 (Anderson)	48 2025	PE	\$ 148,770	\$ 16,530	\$ 165,300 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AGC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TP (Res. 9-18-24-2024)
28	2300861	INDOT	Bridge Rehabilitation or Repair	CR 400 @ Snidge over 149, 2.19 miles North of SR 3E (Anderson)	48 2028	CN	\$ 140,509	\$ 15,619	\$ 156,188 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AGC Exempt - 9-9-34	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TIP (Res. 9-28-24-2024)
28	2300862	INDOT	Bridge Rehabilitation or Repair	CR 100 W/Brown Street & Bridge over 149, 1.67 miles North of SR 67 (Anderson)	48 2025	PE	\$ 137,070	\$ 15,230	\$ 152,300 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AGC Exempt - 9-9-34	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TIP (Res. 9-18-24-2024)
21	2300862	INDOT	Eridge Rehabilitation or Repair	CR 100 W/Brown Street & Bridge over 149, 1.67 miles North of SR 67 (Anderson)	48 2028	CN	\$ 140,569	\$ 15,619	\$ 156,188 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AQC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TIP (Res. 9-18-24-2024)
21	2300866	INDOT	Eridge Rehabilitation or Repair	169 Bridge over SR 9/3R 109 (Scatterfield Road), 3.35 miles South of SR 236 (Anderson)	48 2028	CN	\$ 240,976	\$ 26,775	\$ 267,751 STBG	10/14/2027	B-45157	\$ 3,108,258	Exempt			х		N/A	2026-2030	AQC Exempt - 9-9-24	Safety: Projects that Correct, Improve, or Eliminate a Hazardous Location or Feature (2)	40 CFR 93.126.2	Res. 9-18-24, Adopted with 2024-2028 TIP (Res. 9-18-24-2024)
21	2301200	INDOT	Bike/Pedestrian Facilities	SR 9 (Scatterfield Road), 5. Junction of SR 32 (Mounds Ro/Chin Avenue) to N. Junction of SR 32 (Invenity Boulevard)	48 2025	PĒ	\$ 719,154	\$ 79,906	\$ 799,060 HSIP	7/14/2027	R-45188	\$ 4,128,476	Exempt	х		х		N/A	2026-2030	AGC Exempt - 9-9-34	Air Quality: Bicycle and Pedestrian Facilities (33)	40 CFR 93.126.33	Res. 9-18-24, Adopted with 2024-2028 TIP (Res. 9-28-24-2028)
21	2301200	INDOT	Bike/Pedestrian Facilities	SR 9 (Scatterfield Rose), S. Junction of SR 32 (Mounds Ro/Chio Avenue) to N. Junction of SR 32 (Invenity Boulevard)	46 2028	CN	\$ 2,996,474	\$ 332,942	\$ 3,329,416 HSIP	7/14/2027	R-45188	\$ 4,128,476	Exempt	х		х		N/A	2026-2030	AGC Exempt - 9-9-24	Air Quality: Bloycle and Pedestrian Facilities (33)	40 CFR 93.126.33	Res. 9-18-24, Adopted with 2024-2028 TP (Res. 9-18-24-2028)
											Section 7: State-	Funded INDOT Non-I	efrastructure, Grou	ped, & Statewide Projects - Exempt fr	om Air Quality Con	nformity Analysis							

## **APPENDIX I**

**Additional Information** 

# **Engineering Assessment Report**

# SR 13 / 37 @ SR 128, Single Lane Roundabout DES No. 2003081

Safety Project
Proposed Fiscal Year: 2026
Score: 89

Greenfield District
Tipton Sub-District
Madison County, Indiana
9/25/2020

Attachments were removed in the interest of document consolidation.

Prepared by:

Mark Muenz

Greenfield District Traffic Planning Engineer

Approved by:
Luis Laracuente, P.E.
District Traffic Engineer

# **Indiana Department of Transportation**

Traffic Engineering
Greenfield District
32 South Broadway Greenfield IN 46140



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- 10. RoW Information
- 11. Utilities Information
- 12. Environmental Information
- 13. Project Support Letters

#### **Executive Summary**

The purpose of this report is to document the engineering assessment phase of project development, including all coordination that has been completed in preparation for this project. This document outlines the proposal and is intended to serve as a guide for subsequent survey, design, environmental, right of way and other project activities leading to construction. The preferred alternative identified in this document is considered predecisional, pending the outcome of environmental studies. An alternative other than the preferred alternative may not be selected without consultation with the preparer of this report.

This project is located at the intersection of SR 13 / 37with SR 128 to the east, and with E 296<sup>th</sup> St. to the west. It is located between the Reference Posts of 20 + 75 and 21+ 25 along SR 13, which itself is located on the boundary of Madison, Tipton, and Hamilton Counties. The intersection is experiencing a high amount of severe crashes comparative to its current volumes. Specifically, a high frequency of right-angle crashes at this intersection, which can be attributed to suboptimal sightlines, high speeds along SR 13, and a large risk exposure window for vehicles on the minor approaches.

Because of this, the preferred alternative is to convert the two-way stop-controlled intersection into a single lane roundabout to reduce the frequency and severity of crashes at this intersection, while maintaining adequate intersection mobility. This alternative is expected to operate exceptionally (LOS A) through the design year of 2046, as well as solve the extremely high frequency of right-angle crashes occurring at this intersection. The proposed safety improvement project scores 89 out of 100. The scoring details are included in attachment 6. The estimated cost of the preferred alternative at this location is \$2,271,000

## **Project Location**

**Table 1: Project Location Information** 

	Location 1	Description						
Route	SR 13 / 37	Latitude	40.218925					
City	Elwood	Longitude	-85.681909					
County	Madison	Nearest Cross Street	N Duck Creek Ave					
District	Greenfield	Distance From	750 ft.					
Sub District	Tipton	RP From	20 + 75					
MPO	Madison (MCCOG)	RP To	21 + 25					
NHS Route?	No	Length	0.5					
Functional Class	Minor Arterial	Work Type	Intersection					
			Improvement,					
			Roundabout					
Rural or Urban	Rural	Work Category	Intersection					
			Improvement Project					
Other Location Info: Historic Bridge on western leg, 100 ft. from intersection center								

See attachments for a map showing the project location and for other pictures of the site.

#### **Purpose and Need**

The identified need at this location involves the very high frequency of severe crashes comparative to the volumes of traffic at this intersection. Specifically, the high frequency and severity of right-angle crashes.

The purpose of this project is to reduce or eliminate the high frequency and severity of crashes at this intersection, while maintaining good intersection mobility.

#### **Project History**

This intersection was first investigated in 2019. A signal warrant was performed, but the crashes did not provide the statistical need for further safety investigation. To mitigate a few failures to yield to the minor street stop signs, the stop signs were doubled up, and more advanced warning of the stop signs was added along SR 128.

#### **Existing Conditions**

#### **Structure Information**

There is a historical bridge located 100 ft. west of the current intersection center. Its deck has been replaced sometime between 2009 and 2013. Impacts to this bridge by this project should be avoided.

Roadway Geometrics and Pavement Information

**Table 2: Roadway Geometrics and Pavement Information** 

Lane Width	12 ft.
Curbed	No
Shoulder Width	2.0 ft.
Number of lanes in each direction	1
Intersection Traffic Control	Two Way Stop
Speed Limit	55 mph
Pavement Type	Asphalt
Median Type	None

#### Traffic Data and Capacity Analysis

**Table 3: Volume Information and Traffic Forecast** 

Representative AADT	8358
AADT Year	2019
% Trucks	13.79 %
DHV (%)	10.77 %
% Yearly Traffic Growth	1.00 %
2020 AADT	8442
2025 AADT	8872
2030 AADT	9325
2035 AADT	9800
2040 AADT	10,300

The complete traffic forecast as provided by the Traffic Statistics Section in Central Office has been included in attachment 2.

**Table 4&5: Capacity Analysis** 

						AM	PEAK						
Road	Parameter		EB			WB			NB		SB		
	Farameter	L	T	R	L	T	R	L	T	R	L	Т	R
TWCC. 2020	LOS	-	C	-	-	C	-	-	A	-	-	A	-
TWSC: 2020	Delay	-	15.6	-	-	17.9	-	-	0.1	-	-	0.1	-
TWCC. 2046	LOS	-	С	-	-	D	-	-	A	-	-	A	-
TWSC: 2046	Delay	-	21.0	-	-	30.0	-	-	0.1	-	-	0.1	-
A WCC. 2046	LOS	-	В	-	-	В	-	-	С	-	-	С	-
AWSC: 2046	Delay	-	10.3	-	-	11.7	-	-	15.3	-	-	19.5	-
Signal, 2046	LOS	В	-	-	В	-	В	A	-	A	A	-	A
Signal: 2046	Delay	17.2	-	-	18.0	-	17.7	9.8	-	8.4	8.9	-	9.3
Roundabout:	LOS	-	A	-	-	A	-	-	A	-	-	A	-
2046	Delay	-	5.6	-	-	5.8	-	-	6.4	-	-	7.8	-

						PM	PEAK						
Road	Parameter		EB			WB			NB		SB		
	Farameter	L	T	R	L	T	R	L	T	R	L	Т	R
TWSC: 2020	LOS	-	C	-	-	C	-	-	A	-	-	A	-
1 WSC: 2020	Delay	•	21.6	-	-	23.0	-	-	0.2	-	•	0.1	-
TWSC. 2046	LOS	•	E	-	-	E	-	-	A	-	•	A	-
TWSC: 2046	Delay	-	43.0	-	-	49.8	-	-	0.2	-	1	0.1	-
AWSC: 2046	LOS	-	В	-	-	В	-	-	E	-	1	C	-
AWSC: 2040	Delay	•	12.0	-	-	11.7	-	-	37.6	-	•	22.4	-
Signal, 2046	LOS	C	-	-	В	-	C	В	-	В	В	•	В
Signal: 2046	Delay	21.1	-	-	19.3	-	20.1	12.2	-	11.9	12.7	•	11.2
Roundabout: 2046	LOS	-	A	-	-	A	-	-	A	-	•	A	-
	Delay	-	6.0	-	-	7.1	-	-	10.7	-	-	7.4	-

1.00% Growth Rate from forecast used.

For more information on the capacity analysis, see attachment 3.

#### **Crash Information**

**Table 6: Crash History** 

ICC	2.31	Number of Crashes	18
ICF	1.90	Number of Fatal and Incapacitating Crashes	6
First Year of Crash Data	2017	Number of Non-Incapacitation Crashes	1
Last Year of Crash Data	2019	Number of Property Damage Only Crashes	11

The RoadHAT output, a detailed crash statistics summary and a crash diagram have been included in attachment 4 of this report.

Crash data from 2017 to 2019 was analyzed for this intersection. During this timeframe, there were a total of 18 crashes, of which 7 were right angle crashes, 5 rear end crashes, 4 ran off road crashes, and 2 sideswipe crashes. Of these 18 crashes, 7 resulted in injury, with 6 being incapacitating, and 1 non-incapacitating. The remaining 11 crashes were property damage in nature. The intersection was analyzed via the RoadHAT 3 tool, determining the statistics of Index of Crash Costs, or ICC, and Index of Crash Frequency, or ICF. The ICC for this intersection is 2.31, indicating that this intersection is prone to crashes of significant severity and cost. The ICF of this intersection is 1.90, indicating that the frequency of crashes at this intersection is very above what could be expected for an average intersection of similar vehicular volume.

#### **Design Considerations**

Special considerations should be taken with regards to the high speeds along SR 13 / 37, as well as the presence of a historical bridge on the western leg of the intersection, roughly 100 ft. from the intersection center. Impacts to this bridge would vastly increase costs at this intersection, and as such, potential impacts should be avoided. For alternatives such as the roundabout, shifting the road out as far east as needed to avoid compromising the eastbound approach would be prefer ed

**Table 7: Other Design Considerations** 

Land Survey Location	NW 1/4 of Section 6, T. 20 N., R. 6 E
Civil Township	Pipe Creek
Federal Aid System	Qualifies as "Rural On"
National Truck Network	Intersection is on the NTN
Urban Area Boundary	None
Adjacent Land Use	Agricultural and Forest

#### Community/External Stakeholder Context

The Madison County Highway Engineer has expressed support for the single lane roundabout alternative at this intersection. Email supporting the roundabout is shown in the attachment 12.

The design and environmental process of the roundabout development must include community outreach and education. Input from the community should be obtained in public forums to ensure their input is taken into consideration.

#### Adjacent INDOT Projects

There are several projects in the planning stage nearby to this location. The most significant of which is a plan for a superstructure replacement of the bridge located 1.4 miles to the east of this intersection along SR 128. While it is only in the planning stages at the moment, it is a significant enough of a project to be noted here. This potential project is planned for 2025. A few potential pavement projects are also around this project, scheduled for 2025 and 2026.

#### Other Miscellaneous Information

This project resides on the border between Madison, Tipton and Hamilton Counties. As such, all three should be consulted in terms of details for this project, but for simplicity Madison is labeled primarily in this report. This is chosen as they have a larger portion of the intersection under their borders, as well as having reported a majority of the crashes at the intersection.

#### **Analysis and Alternatives**

#### Description of Alternatives

Alternative 1 – Single Lane Roundabout. This alternative would maintain both good mobility and level of service through the design year of 2046, as well as essentially eliminating this intersections most common and severe crash type, right angle crashes. Considering the intersection's limitations due to a nearby historic bridge, an offset roundabout will be necessary to be fully effective, which will be more intrusive on the surrounding lands. Due to high speeds, the splitter islands of the roundabout will likely need to be at least 300 ft. in length to accommodate for appropriate approach speed and angles. With the installation of this alternative, KABC crashes are expected to decrease by 61 %, with a total reduction in crashes of 48 %. A preliminary sketch is included in attachment 8.

The cost estimate of this alternative is \$2,271,000

Alternative 2 – Traffic Signal. This alternative would likely maintain good mobility through the design year of 2046. However, this intersection's volumes do not meet signal warrants, and with the high speeds along SR 13, rear end crashes are likely to increase, as well as risk of crashes due to disobedience of the traffic signal. Some pavement overhaul was included in this alternatives cost analysis for the addition of turn lanes on all approaches except eastbound due to space constraints and renewing of existing pavement.

The cost estimate of this alternative is \$1,256,000

Alternative 3 – All-Way Stop Control. This alternative would be the addition of stop signs with associated warning signs along the mainline of SR 13 / 37. This alternative is lower cost by comparison to the others but has several flaws. Rear end crashes are likely to severely increase due to the high speeds along SR 13, and right-angle crashes associated with this intersection are likely to remain extremely severe. Once the public has adjusted to the intersection, crashes may be reduced. However, the adjustment period will likely have a spike in severe crashes. Lastly, this alternative does not maintain adequate mobility through the design year (See capacity analysis: attachment 3), with a predicted LOS E for northbound traffic, and LOS C for southbound during peak hour traffic.

The cost estimate for this alternative is \$1,000

**Alternative 4 – No Build**. The No build option was considered for this project. However, crashes at this intersection appear to only be worsening. The long-term safety consequences of this option are extremely detrimental to the safety of the public.

#### Cost Estimates

**Table 8: Cost Estimate Summary** 

Alternative	Funding Category	<b>Estimated Cost</b>
	CN	\$1,768,000
	PE	\$442,000
Alternative 1	Utility	\$20,000
Roundabout	RoW	\$40,000
	Total Cost	\$2,271,000
	CN	\$956,391
	PE	\$239,098
Alternative 2	Utility	\$20,000
Traffic signal	RoW	\$40,000
	Total Cost	\$1,256,000
	CN	\$1000
	PE	\$0
Alternative 3	Utility	\$0
4-Way Stop	RoW	\$0
	Total Cost	\$1000
	CN	-
	PE	-
Alternative 4	Utility	-
No Build	RoW	-
	Total Cost	\$ 0

Complete and detailed cost estimates for all considered alternatives are included in attachment 9 of this report. Cost estimates were developed through averages from the Indiana 2019 Unit Price Summary list, and quantities were determined through digital measurement and evaluation.

#### Preliminary Maintenance of Traffic Plan (MOT)

This project is a fairly mobility significant project based on the classification of the facility, AADT, and additional factors. So long as some movement North-South is maintained, impacts are likely to be minimal. No nearby facilities are significantly impacted by a partial closure of this intersection. If the potential bridge superstructure replacement east of this intersection is coordinated with this project, the eastern approach could consequentially have a full closure.

The above information is preliminary and conceptual in nature. The designer of record for this project shall be responsible for the determination of MOT scheme and the full design of that scheme. The above information can be used to inform the decision making of the designer, but it does not absolve him of the responsibility of the design.

The provisions of the Indiana Manual on Uniform Traffic Control Devices, the Indiana Design Manual and the INDOT Standard Drawings concerning the design of an MOT zone shall be adhered to. A detailed design showing the MOT layout should be included in the final set of plans. The provisions of the Interstate Highway Congestion Policy shall be followed.

#### Pavement and Roadway Design

Standard single lane roundabout design features should be assumed and incorporated into this project. The major object of note should be the historic bridge on the western leg. Approach and exit radii will need to have careful mind made to them. Additionally, the high approach speeds should be considered by including sufficient splitter islands and deflection to allow for more appropriate entry speeds into the roundabout. See attached sketch in Attachment 8 for reference.

#### Right-of-Way and Survey

Based on the proposed layout, the Right-of-Way Office estimates that there will be needed acquisitions for all corners of this intersection. Given the current agricultural land use of the SE corner, and the residential land use of the NE corner, it is estimated that this acquisition will cost \$40,000.

#### Utilities and Railroads

After a discussion with the Greenfield Utilities Department, impacts to utilities and railroads are expected to be minimal. A commented diagram is in attachment 11. The utilities are expected to be reimbursable but should be covered by contingency costs should something arise.

#### Hydraulic Recommendations

Some minor drainage ditch modifications will likely be necessary for this intersection. Additionally, drainage within the roundabout alternative should be accounted for and directed accordingly.

#### **Environmental and Historic Considerations**

The cost of environmental and historical considerations depends on whether the historic bridge to the west is impacted by the project. If it is not impacted, costs will be covered by existing PE. Should the bridge need to be impacted, CE4 documentation will be required, along with an additional 5-10% PE costs added to the project's cost estimate.

As is, this project will require an environmental document level CE2.

#### Design Criteria

The design of this project shall adhere to 3R Project, Non-Freeways standards per the Indiana Design Manual.

SEE IDM 40-06.01 FOR MORE INFORMATION.

### **Recommended Alternative**

The preferred alternative is Alternative 1, a single lane roundabout. While this alternative is not the lowest cost it provides the most benefits to both the safety and mobility operations at this intersection. This is the only alternative that can be proven to address both the purpose and need of this intersection. This alternative will eliminate right angle and left turn crashes at this intersection. It also acts as a traffic calming measure, reducing the speed of vehicles along SR 13, especially as traffic moves towards Elwood to the north. Additionally, the lighting and stimulation of a roundabout may help wake up sleepy drivers, which are a common crash cause at this intersection. A roundabout presents the best option for long term capacity and improves side traffic conditions. This alternative maintains an overall LOS A through the design year of 2046, scores an 89 for TSAM, and will cost \$2,271,000

#### **Changes to Proposal**

Contact the Greenfield District Traffic Engineer if deviation from this document is determined to be necessary during a later phase of project development, including but not limited to scope of work or letting changes. Any desired changes should include justification for the change and the estimated cost.

## **Concurrence and Approval**

This document was prepared by: Mark Musing

NAME Mark Muenz

TITLE Traffic Planning Engineer

DATE 9/25/2020

This document was approved by: Line A. Larenne D

NAME Luis Laracuente

TITLE District Traffic Engineer

DATE **09/25/2020** 

## Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated March 2022)

ProjectNumber SubProjectCode	County	Property
1800017 1800017	Hamilton	Forest Park & Trail, White River Access Site
1800058 1800058	Hamilton	Forest Park & Trail, White River Access Site
1800128 1800128	Hamilton	Morse Park & Beach
1800198 1800198	Hamilton	Cicero Community Park
1800236 1800236	Hamilton	Forest Park & Trail, White River Access Site
1800493 1800493	Hamilton	Flowing Well Park
1800502 1800502	Hamilton	Cool Creek County Park
1800519 1800519	Hamilton	Taylor Property
1800551 1800551	Hamilton	MacGregor Park
1800581 1800581	Hamilton	MacGregor Park

<sup>\*</sup>Park names may have changed. If acquisition of publically owned land or impacts to publically owned land is anticipated, coordination with IDNR, Division of Outdoor Recreation, should occur.

## Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated March 2022)

ProjectNumber SubProjectCode	e County	Property
1800136 1800136	Madison	Funk Historic (8th St.) Park
1800139 1800139	Madison	General Pulaski ParkE. 38th St. Park
1800143 1800143	Madison	Streaty Park
1800145 1800145	Madison	Southside Sports Complex
1800169 1800169	Madison	Shadyside Recreation Complex (Aqua Gardens)
1800169.6 1800169.6	Madison	Crawford Field
1800171 1800171H	Madison	Mounds State Park
1800204 1800204	Madison	Beulah Park
1800238 1800238	Madison	Beulah Park
1800254 1800254	Madison	Falls Park
1800255 1800255	Madison	Alvin D. Brown Memorial Pool
1800258 1800258	Madison	Athletic Park
1800287 1800287	Madison	Shepherd Park
1800292 1800292	Madison	Elwood Municipal Swimming Pool
1800299 1800299	Madison	Alvin D. Brown Memorial Pool
1800305 1800305G	Madison	Mounds State Park
1800312 18003121	Madison	Mounds State Park
1800370 1800370	Madison	Maple Meadows Park/Frankton Community Park
1800382 1800382	Madison	Mounds State Park
1800413 18004130	Madison	Mounds State Park
1800442 1800442	Madison	Walbridge Acres Park
1800466 1800466	Madison	Grand Avenue Wetlands & Killbuck Walkway
1800477 1800477a	Madison	Anderson Riverwalk
1800534 1800534	Madison	General Pulaski Park
1800587 1800587	Madison	Bodenhorn Park

<sup>\*</sup>Park names may have changed. If acquisition of publically owned land or impacts to publically owned land is anticipated, coordination with IDNR, Division of Outdoor Recreation, should occur.

## Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated March 2022)

ProjectNumber	SubProjectCode	County	Property
180002	3 1800023	Tipton	Tipton City Park
180024	9 1800249	Tipton	Kemp Memorial Park

<sup>\*</sup>Park names may have changed. If acquisition of publically owned land or impacts to publically owned land is anticipated, coordination with IDNR, Division of Outdoor Recreation, should occur.

Table: ACSDT5Y2021.B03002

	United States	Hamilton County, Indiana	Census Tract 1101.02, Hamilton County, Indiana
Label	Estimate	Estimate	Estimate
Total:	329,725,481	341,616	4,200
Not Hispanic or Latino:	268,918,512	326,985	4,015
White alone	196,010,370	280,770	3,866
Black or African American alone	40,196,302	13,244	0
American Indian and Alaska			
Native alone	1,936,842	290	0
Asian alone	18,554,697	21,235	0
Native Hawaiian and Other			
Pacific Islander alone	555,712	145	22
Some other race alone	1,208,267	1,342	0
Two or more races:	10,456,322	9,959	127
Two races including Some			
other race	1,446,567	1,296	0
Two races excluding Some other race, and three or more			
races	9,009,755	8,663	127
Hispanic or Latino:	60,806,969	14,631	185
White alone	28,778,739	8,832	185
Black or African American alone	1,196,710	133	0
American Indian and Alaska			
Native alone	785,819	0	0
Asian alone	228,227	116	0
Native Hawaiian and Other			
Pacific Islander alone	59,845	0	0
Some other race alone	17,174,529	1,923	0
Two or more races:	12,583,100	3,627	0
Two races including Some			
other race	10,609,037	2,950	0
Two races excluding Some other race, and three or more			
races	1,974,063	677	0

	United States	Hamilton County, Indiana	Census Tract 1101.02, Hamilton County, Indiana	
Label	Estimate	Estimate	Estimate	
otal:	321,897,703	339,636	4,200	
Income in the past 12 months				
below poverty level:	40,661,636	13,437	26	
Male:	18,132,275	5,717	26	
Under 5 years	1,804,943	497	0	
5 years	353,798	205	0	
6 to 11 years	2,181,236	949	0	
12 to 14 years	1,026,148	285	0	
15 years	340,274	133	0	
16 and 17 years	637,739	211	0	
18 to 24 years	2,391,976	619	26	
25 to 34 years	2,091,261	466	0	
35 to 44 years	1,771,681	647	0	
45 to 54 years	1,677,723	733	0	
55 to 64 years	2,013,935	514	0	
65 to 74 years	1,145,870	292	0	
75 years and over	695,691	166	0	
Female:	22,529,361	7,720	0	
Under 5 years	1,730,648	386	0	
5 years	338,260	55	0	
6 to 11 years	2,091,832	639	0	
12 to 14 years	984,832	405	0	
15 years	330,341	102	0	
16 and 17 years	623,373	274	0	
18 to 24 years	2,938,139	947	0	
25 to 34 years	3,288,904	1,246	0	
35 to 44 years	2,618,050	1,054	0	
45 to 54 years	2,093,750	714	0	
55 to 64 years	2,394,677	909	0	
65 to 74 years	1,606,946	374	0	
75 years and over	1,489,609	615	0	
Income in the past 12 months at				
or above poverty level:	281,236,067	326,199	4,174	
Male:	140,410,519	161,105	2,345	
Under 5 years	7,949,219	10,242	67	
5 years	1,629,773	2,702	142	
6 to 11 years	10,365,093	14,991	102	
12 to 14 years	5,510,127	7,805	84	
15 years	1,837,564	2,951	11	
16 and 17 years	3,700,754	5,160	171	
18 to 24 years	11,432,099	12,761	226	
25 to 34 years	20,162,923	18,843	148	
35 to 44 years	19,005,426	24,275	274	
45 to 54 years	18,704,195	23,780	430	
55 to 64 years	18,632,874	19,131	352	
65 to 74 years	13,557,621	12,190	241	
75 years and over	7,922,851	6,274	97	
Female:	140,825,548	165,094	1,829	
Under 5 years	7,579,318	10,131	16	
5 years	1,554,236	2,228	0	
6 to 11 years	9,880,929	14,248	119	
12 to 14 years	5,242,034	8,196	76	
15 years	1,763,653	2,873	52	
16 and 17 years	3,539,941	4,907	70	
18 to 24 years	10,383,838	12,028	141	
25 to 34 years	19,004,663	19,414	185	
35 to 44 years	18,424,189	25,306	241	
45 to 54 years	18,735,695	23,941	353	
55 to 64 years	19,429,976	19,694	396	
65 to 74 years	14,950,065	13,665	58	
75 years and over	10,337,011	8,463	122	

Table: ACSDT5Y2021.B03002

	United States	Madison County, Indiana	Census Tract 104, Madison County, Indiana
Label	Estimate	Estimate	Estimate
Total:	329,725,481	130,037	2,714
Not Hispanic or Latino:	268,918,512	124,263	2,660
White alone	196,010,370	109,091	2,582
Black or African American alone	40,196,302	10,185	0
American Indian and Alaska			
Native alone	1,936,842	122	3
Asian alone	18,554,697	748	16
Native Hawaiian and Other			
Pacific Islander alone	555,712	1	0
Some other race alone	1,208,267	456	0
Two or more races:	10,456,322	3,660	59
Two races including Some			
other race	1,446,567	528	0
Two races excluding Some			
other race, and three or more			
races	9,009,755	3,132	59
Hispanic or Latino:	60,806,969	5,774	54
White alone	28,778,739	3,177	44
Black or African American alone	1,196,710	144	0
American Indian and Alaska			
Native alone	785,819	202	0
Asian alone	228,227	4	0
Native Hawaiian and Other			
Pacific Islander alone	59,845	0	0
Some other race alone	17,174,529	1,389	4
Two or more races:	12,583,100	858	6
Two races including Some			
other race	10,609,037	745	6
Two races excluding Some			
other race, and three or more			
races	1,974,063	113	0

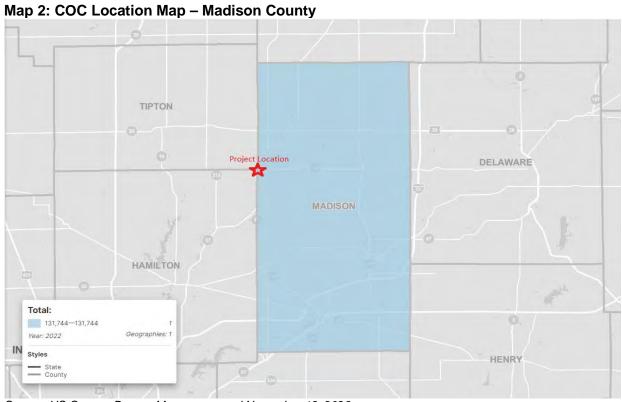
	United States	Madison County, Indiana	Census Tract 104, Madison County, Indiana
Label	Estimate	Estimate	Estimate
otal:	321,897,703	123,456	2,714
Income in the past 12 months			
below poverty level:	40,661,636	18,639	180
Male:	18,132,275	8,282	106
Under 5 years	1,804,943	865	0
5 years	353,798	236	0
6 to 11 years	2,181,236	688	0
12 to 14 years	1,026,148	492	0
15 years	340,274	389	0
16 and 17 years	637,739	337	0
18 to 24 years	2,391,976	806	0
25 to 34 years	2,091,261	706	0
35 to 44 years	1,771,681	1,143	0
45 to 54 years	1,677,723	891	8
55 to 64 years	2,013,935	1,054	22
65 to 74 years	1,145,870	389	31
75 years and over	695,691	286	45
Female:	22,529,361	10,357	74
Under 5 years	1,730,648	811	0
5 years	338,260	229	0
6 to 11 years	2,091,832	814	0
12 to 14 years	984,832	636	7
15 years	330,341	163	8
16 and 17 years	623,373	342	8
18 to 24 years	2,938,139	1,297	0
25 to 34 years	3,288,904	1,484	11
35 to 44 years	2,618,050	1,166	7
45 to 54 years	2,093,750	1,123	0
55 to 64 years	2,394,677	1,228	30
65 to 74 years	1,606,946	665	0
75 years and over	1,489,609	399	3
Income in the past 12 months at			
or above poverty level:	281,236,067	104,817	2,534
Male:	140,410,519	52,350	1,265
Under 5 years	7,949,219	2,674	86
5 years	1,629,773	781	7
6 to 11 years	10,365,093	3,965	28
12 to 14 years	5,510,127	1,816	40
15 years	1,837,564	567	25
16 and 17 years	3,700,754	1,218	14
18 to 24 years	11,432,099	4,223	23
25 to 34 years	20,162,923	6,607	153
35 to 44 years	19,005,426	6,388	122
45 to 54 years	18,704,195	7,178	151
55 to 64 years	18,632,874	7,365	242
65 to 74 years	13,557,621	5,933	154
75 years and over	7,922,851	3,635	220
Female:	140,825,548	52,467	1,269
Under 5 years	7,579,318	2,497	65
5 years	1,554,236	672	0
6 to 11 years	9,880,929	3,222	41
12 to 14 years	5,242,034	1,629	25
15 years	1,763,653	416	0
16 and 17 years	3,539,941	1,499	48
18 to 24 years	10,383,838	3,608	61
25 to 34 years	19,004,663	6,317	119
35 to 44 years	18,424,189	6,371	151
45 to 54 years	18,735,695	7,164	131
55 to 64 years	19,429,976	7,549	239
65 to 74 years	14,950,065	6,703	253
75 years and over	10,337,011	4,820	136

Table: ACSDT5Y2021.B03002

	United States	Tipton County, Indiana	Census Tract 201, Tipton County, Indiana
Label	Estimate	Estimate	Estimate
Total:	329,725,481	15,290	2,481
Not Hispanic or Latino:	268,918,512	14,835	2,283
White alone	196,010,370	14,461	2,241
Black or African American alone	40,196,302	48	0
American Indian and Alaska			
Native alone	1,936,842	26	0
Asian alone	18,554,697	70	18
Native Hawaiian and Other			
Pacific Islander alone	555,712	0	0
Some other race alone	1,208,267	2	2
Two or more races:	10,456,322	228	22
Two races including Some			
other race	1,446,567	0	0
Two races excluding Some			
other race, and three or more			
races	9,009,755	228	22
Hispanic or Latino:	60,806,969	455	198
White alone	28,778,739	308	178
Black or African American alone	1,196,710	0	0
American Indian and Alaska			
Native alone	785,819	0	0
Asian alone	228,227	33	0
Native Hawaiian and Other			
Pacific Islander alone	59,845	0	0
Some other race alone	17,174,529	70	0
Two or more races:	12,583,100	44	20
Two races including Some	. ,		
other race	10,609,037	44	20
Two races excluding Some	,,		-
other race, and three or more			
races	1,974,063	0	0

	United States	Tipton County, Indiana	Census Tract 201, Tipton County, Indiana
Label	Estimate	Estimate	Estimate
Total:	321,897,703	15,022	2,458
Income in the past 12 months			
below poverty level:	40,661,636	1,595	335
Male:	18,132,275	482	123
Under 5 years	1,804,943	34	12
5 years	353,798	15	0
6 to 11 years	2,181,236	95	61
12 to 14 years	1,026,148	26	4
15 years	340,274	6	0
16 and 17 years	637,739	23	0
18 to 24 years	2,391,976	33	0
25 to 34 years	2,091,261	55	5
35 to 44 years	1,771,681	22	0
45 to 54 years	1,677,723	27	2
55 to 64 years	2,013,935	39	0
65 to 74 years	1,145,870	50	28
75 years and over	695,691	57	11
Female:	22,529,361	1,113	212
Under 5 years	1,730,648	129	23
5 years	338,260	11	0
6 to 11 years	2,091,832	59	14
12 to 14 years	984,832	0	0
15 years	330,341	22	5
16 and 17 years	623,373	40	0
18 to 24 years	2,938,139	110	21
25 to 34 years	3,288,904	237	56
35 to 44 years	2,618,050	230	53
45 to 54 years	2,093,750	88	7
55 to 64 years	2,394,677	87	6
65 to 74 years	1,606,946	42	17
75 years and over	1,489,609	58	10
Income in the past 12 months at			
or above poverty level:	281,236,067	13,427	2,123
Male:	140,410,519	6,952	1,125
Under 5 years	7,949,219	391	129
5 years	1,629,773	36	30
6 to 11 years	10,365,093	507	10
12 to 14 years	5,510,127	83	10
15 years	1,837,564	48	17
16 and 17 years	3,700,754	208	20
18 to 24 years	11,432,099	611	115
25 to 34 years	20,162,923	791	120
35 to 44 years	19,005,426	805	158
45 to 54 years	18,704,195	1,052	157
55 to 64 years	18,632,874	1,111	123
65 to 74 years	13,557,621	839	181
75 years and over	7,922,851	470	55
Female:	140,825,548	6,475	998
Under 5 years	7,579,318	295	96
5 years	1,554,236	62	26
6 to 11 years	9,880,929	457	30
12 to 14 years	5,242,034	265	35
15 years	1,763,653	113	9
16 and 17 years	3,539,941	176	46
18 to 24 years	10,383,838	417	146
25 to 34 years	19,004,663	635	136
35 to 44 years	18,424,189	571	47
45 to 54 years	18,735,695	913	133
55 to 64 years	19,429,976	1,047	154
65 to 74 years	14,950,065	889	90
75 years and over	10,337,011	635	50

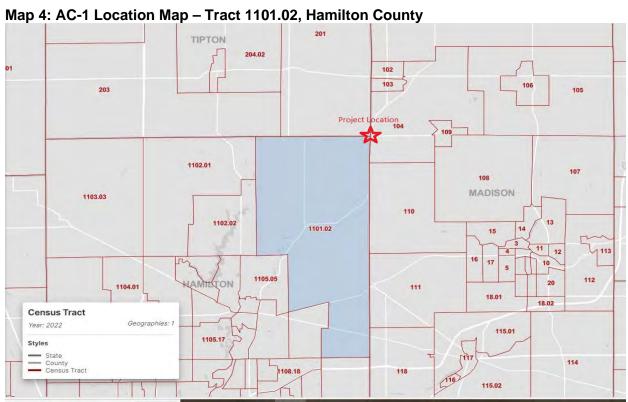




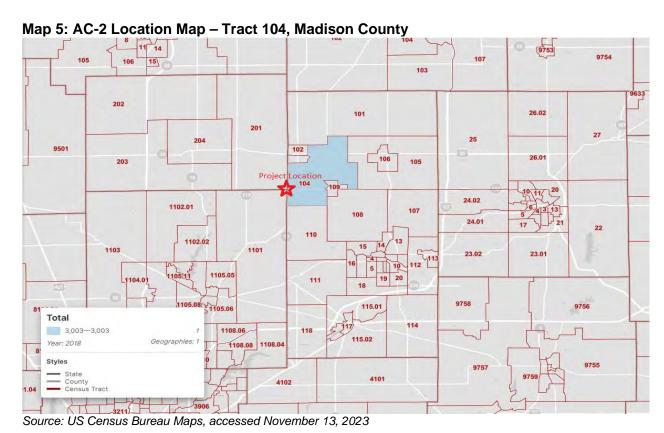
Source: US Census Bureau Maps, accessed November 13, 2023

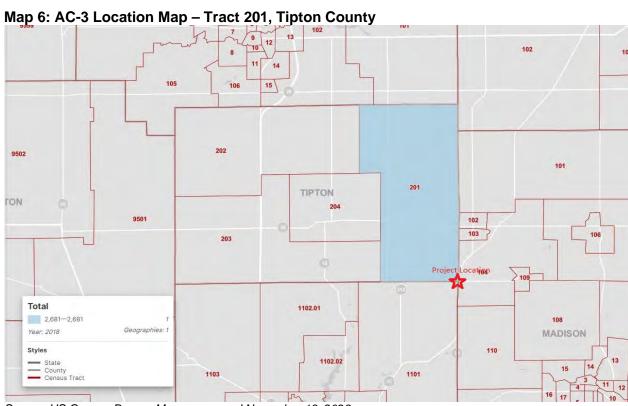


Source: US Census Bureau Maps, accessed November 13, 2023



Source: US Census Bureau Maps, accessed November 13, 2023





Source: US Census Bureau Maps, accessed November 13, 2023

		coc	AC-1	
Census Table	Census Table Line Item	Hamilton County	Census Tract 1101.02, Hamilton County	Notes
Low-Income		,	,	
B17001	Pop, for whom Poverty Status Determined: Total	339,636	4,200	
B17001	Pop, for whom Poverty Status Determined: Income past 12 mos below poverty level	13,437	26	
	% Low-Income	4	1	
	125 % COC	5	-	
	Potential Low-Income EJ Impact?		No	Is the AC greater than 50%?
	Fotential Low-income L5 impact:		No	Is the AC 25% higher than the COC?
Minority				
B03002	Total Population: Total	341,616	4,200	
B03002	Total Population - Not Hispanic or Latino: White Alone	280,770	3,866	
	Number Non-White/Minority	60,846	334	
	% Non-White/Minority	18	8	
	125 % COC	22	-	
	Dotantial Minarity El Impact		No	Is the AC greater than 50%?
1	Potential Minority EJ Impact?		No	Is the AC 25% higher than the COC?

		COC	AC-2	
Census Table	Census Table Line Item	Madison County	Census Tract 104, Madison County	Notes
Low-Income			,	
B17001	Pop, for whom Poverty Status Determined: Total	123,456	2,714	
B17001	Pop, for whom Poverty Status Determined: Income past 12 mos below poverty level	18,639	180	
	% Low-Income	15	7	
	125 % COC	19	-	
	Potential Low-Income EJ Impact?		No	Is the AC greater than 50%?
	Fotential Low-income Es impact:		No	Is the AC 25% higher than the COC?
Minority				
B03002	Total Population: Total	130,037	2,714	
B03002	Total Population - Not Hispanic or Latino: White Alone	109,091	2,582	
	Number Non-White/Minority	20,946	132	
	% Non-White/Minority	16	5	
	125 % COC	20	-	
Detential Minerity 5		2	No	Is the AC greater than 50%?
	Potential Minority EJ Impact?		No	Is the AC 25% higher than the COC?

		coc	AC-3	
Census Table	Census Table Line Item	Tipton County	Census Tract 201, Tipton County	Notes
Low-Income				
B17001	Pop, for whom Poverty Status Determined: Total	15,022	2,458	
B17001	Pop, for whom Poverty Status Determined: Income past 12 mos below poverty level	1,595	335	
	% Low-Income	11	14	
	125 % COC	13	-	
	Potential Low-Income EJ Impact?		No	Is the AC greater than 50%?
	Potential Low-income Es impact:		Yes	Is the AC 25% higher than the COC?
Minority				
B03002	Total Population: Total	15,290	2,481	
B03002	Total Population - Not Hispanic or Latino: White Alone	14,461	2,241	
	Number Non-White/Minority	829	240	
	% Non-White/Minority	5	10	
	125 % COC	7	-	
	Datastial Minarity Ellernact		No	Is the AC greater than 50%?
	Potential Minority EJ Impact?		Yes	Is the AC 25% higher than the COC?

From: Fair, Terri
To: Chad Kelly

Subject: EJ Analysis Section Review: DES 2003081: SR 13 & SR 128, Intersection Improvement RAB,

Hamilton/Madison/Tipton Counties, IN [21-1155.03]

Date: Friday, April 26, 2024 4:19:55 PM
Attachments: EJ Analysis 2003081 Revised.pdf

INDOT-Environmental Services Division (ESD) has reviewed the project information along with the Environmental Justice (EJ) Analysis for the above referenced project. With the information provided, the project may require right-of-way, requires no relocations, and would not disrupt community cohesion or create a physical barrier. With the information provided, INDOT-ESD would not consider the impacts associated with this project as causing a disproportionately high and adverse effect on minority and/or low-income populations of EJ concern relative to non-EJ populations in accordance with the provisions of Executive Order 12898 and FHWA Order 6640.23a. No further EJ Analysis is required.