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

Road	No./County:	State Road (State Road (SR) 124 / Miami County					
Desig	nation Number(s):	1800552						
Projec Descr	ct ription/Termini:		rerlay and Preventive Maintenance - From the intersection of SR 124 and SR adway Street) to 6.99 miles east of SR 19 at approximately 425 feet west of 75 E					
	Categorical Exclusion	, Level 2 – Re	quired Signatories: IN	DOT DE and/	or INDOT ESD			
X	Categorical Exclusion	, Level 3 – Re	quired Signatories: IN	DOT ESD				
	Categorical Exclusion	, Level 4 – Re	quired Signatories: IN	DOT ESD and	d FHWA			
	Environmental Assess	sment (EA) – F	Required Signatories:	INDOT ESD a	and FHWA			
	Additional Investigation (AI) – The proposed action included a design change from the original approved environmental document. Required Signatories must include the appropriate environmental approval authority							
Approv		DE Signature a	nd Date	IN	DOT ESD Signature and Date			
		-			·			
	FHV	/A Signature and	d Date					
Releas	se for Public Involvem	ent	NIDOT DE L'''.		NIDOT FOR LIVE			
			INDOT DE Initials a	nd Date	INDOT ESD Initials and Date			
Certific	cation of Public Invol	vement						
			INDO ⁻	Γ Consultant Se	rvices Signature and Date			
INDOT D	DE/ESD Reviewer Signature	and Date:						
Name ar	nd Organization of CE/EA F	Preparer:	Susan Harrington, HI	NTB Corporation	1			

County	Mi	ami	Route	SR 124		Des. No.	1800552
			Part I -	Public In	<u>volvement</u>		
		res some level of p ss. The level of p u					nities throughout the osed action.
Does		have a historic bri	dge processed	under the Histor	ric Bridges PA*?	Yes	No X
		or a Public Hearing	Required?			X	
*A public hearing FHWA, SHPO, a			dges processed	d under the Hist	oric Bridges Progr	ammatic Agı	reement between INDOT,
		ement activities (le meetings, newspa				d residents (i.e. notice of entry),
notifying the	m about t		at individuals	responsible for	r land surveying	and field ac	area on August 12, 2020 ctivities may be seen in the
Public Involve	<i>vement M</i> est a publi	<i>lanual</i> which req ic hearing. There	uires the proj fore, a legal n	ect sponsor to otice will appe	o offer the public ar in a local publ	an opport ication cont	of Transportation (INDOT) unity to submit comments ingent upon the release of trequirements are fulfilled.
	ontroversy	sy on Enviror concerning comm			npacts, including v	/hat is being	done during the project to
		o substantial pub	olic controvers	y concerning i	mpacts to the co	mmunity o	to natural resources.
This is page	e 2 of 38	Project name:	SR 124 HMA (Overlay and Preve	entive Maintenance	Date:	August 13, 2021

Dart II	Miami	_ Route	SR 124		Des. No.	1800552	<u>!</u>
<u>r art ii</u>	<u>- General Pro</u>	ject Identific	cation, De	scription, a	nd Desig	<u>ın Info</u>	<u>rmation</u>
Sponsor of th	e Project:	INDOT			INDO	T District:	Fort Wayne
Local Name o	of the Facility:	SR 124					
Fundi	ng Source (<i>mark all th</i>	at apply): Fe	ederal X S	state X Local	Othe	r*	
*If oth	er is selected, please	identify the funding	source:				
PURPOSE A	AND NEED:						
The need should	d describe the specific ctive of the project. Th						should describe
Need:							
	or the project is den flooding; and culver		existing pave	ment deterioration	n; roadway a	areas exp	eriencing runoff,
approximate experiencing assess the vehicle's boo	n SR 19 to 0.57 mile ely 425 feet west of 0 g pavement deterio smoothness of the dy would experience 70 inches per mile (CR S 675 E had a ration. INDOT us roadway. The IRI if driven over a 1	chip seal surfa es an averago describes ho I-mile segmen	ce that was place International Row much total vert of the subject pa	d in 2012. Bo oughness Indical movement ovement at 5	oth pavem dex (IRI) ent a stan 0 miles pe	ent sections are to quantitatively dard passenger
• SR	124 from SR 19 to 0	0.57 mile east of S	R 19 at Wallad	ce Avenue had an	average IRI	of 130.84	in./mi.
CD	124 from 0.57 mile	east of SR 10 at V	Vallace Avenu	e to approximatel	v 125 foot w	est of CR	S 675 E had an
	rage IRI of 125.26 ir			- 10 approximator	y 423 1661 W		3 0/3 E liau ali
ave	rage IRI of 125.26 ir alues indicate the s pages 11-37).	n./mi.	dway is in poo			very roug	
These IRI v. (Appendix I, From approx River, there water pondit from an offs side of SR 1	alues indicate the s	n./mi. urface of the road ast of SR 19 to 2.1 rns with ditch flow and flooding. Unnate this location and the sufficient	6 miles east of a rencroaching amed Tributar and is captured to carry this was a renamed to carry this was a renamed and the carry the car	r condition, which SR 19 at the first onto the edge of t (UNT) 1 to Miss in the existing row waterway and is re-	bend in SR he existing paissinewa Rivadside ditch	124 near the savement, ver enters along the	gh ride for users he Mississinewa which results in the right-of-way south and west
These IRI v. (Appendix I, From approx River, there water pondit from an offs side of SR 1 one of which In addition, the state of the st	alues indicate the s pages 11-37). ximately 1.9 miles ea are drainage conce ng on the roadway a ite forested pasture 24. The roadside di	n./mi. urface of the road ast of SR 19 to 2.1 rns with ditch flow and flooding. Unnat this location and tch is not sufficient dimentation in the	6 miles east of a rencroaching amed Tributar and is captured at to carry this of ditch (Appendorridor within the	r condition, which SR 19 at the first onto the edge of t y (UNT) 1 to Miss in the existing row vaterway and is re lix I, pages 11-37)	bend in SR he existing pissinewa Rivadside ditchestricted by results.	124 near the pavement, ver enters along the multiple dr	gh ride for users he Mississinewa which results in the right-of-way south and west iveway culverts,
These IRI v. (Appendix I, From approx River, there water pondit from an offs side of SR 1 one of which In addition, the state of the st	alues indicate the s pages 11-37). ximately 1.9 miles ea are drainage conce ng on the roadway a ite forested pasture 24. The roadside di n is crushed, and se there are three cross	n./mi. urface of the road ast of SR 19 to 2.1 rns with ditch flow and flooding. Unnat this location and tch is not sufficient dimentation in the	6 miles east of a rencroaching amed Tributar and is captured at to carry this of ditch (Appendorridor within the	r condition, which SR 19 at the first onto the edge of t y (UNT) 1 to Miss in the existing row vaterway and is re lix I, pages 11-37)	bend in SR he existing pissinewa Rivadside ditchestricted by results.	124 near the pavement, ver enters along the multiple dr	gh ride for users he Mississinewa which results in the right-of-way south and west iveway culverts,

SR 124 HMA Overlay and Preventive Maintenance

This is page 3 of 38 Project name:

Date: August 13, 2021

County	Miami	Route	SR 124	_ Des. No.	1800552
PROJEC	T DESCRIPTION	N (PREFERRED ALTERN	ATIVE):		
County:	Miami	Muni	icipality: <u>Peru</u>		
Limits of Proposed Work: From the intersection of SR 124 and SR 19 (Broadway Street) to 6.99 miles east of SR 19 approximately 425 feet west of CR S 675 E					
Total Work	k Length:	6.99 Mile(s)	Total Work	k Area: 28.1	_ Acre(s)
If y Ac	es, when did the Faceptability?	ss Document (IAD) ¹ required? FHWA provide a Determination ed; a copy of the approved CE e IAD.	n of Engineering and	Operational D	Ves¹ No X Date: NA VA with a request for
curr inclu	rent conditions, curi ude the scope of w	roject including township, rang rent deficiencies, roadway de ork, anticipated impacts, and v also need discussed.	scription, surrounding	features, etc. Preferred	alternative should

Location:

This project is located on SR 124 in Miami County, beginning at the SR 19/SR 124 intersection in Peru, Indiana and extending east along SR 124 in a rural area approximately 425 feet west of CR S 675 E near the Miami and Wabash county line. More specifically, the project is located in Reserve No. 5 (Richardville), Reserve No. 6 (Richardville), Reserve No. 7 (Godfroy), Reserve No. 9 (Godfroy), Sections 33 and 34, Township 27 North, Range 5 East, and Section 3, Township 26 North, Range 5 East in Washington and Butler Townships (Appendix B, pages 1-9).

Existing Conditions:

SR 124 is a two-lane undivided facility that is classified as a rural, major collector within the project area. There is commercial and residential land use within the city of Peru at the west end of the project area, as well as residential, agricultural, and forested areas throughout the remainder of the project area. This segment of SR 124 is experiencing pavement deterioration and is approaching the end of the pavement's lifespan.

Within the urban section of SR 124 from SR 19 to 115 feet west of Wallace Avenue, there are existing sidewalks on the south side of SR 124 with modern curb ramps at Wabash Street, Huntington Street, and Sullivan Lane. This section of roadway and the curb ramps were reconstructed in 2011. The sidewalk continues along the north side of SR 124 and north along Wallace Avenue from the point 115 feet west of Wallace Avenue. The sidewalk and curb ramp on the north side of SR 124 at Wallace Avenue are being improved as part of the Wallace Avenue bridge over the Wabash reconstruction under DES is 1802959, Contract Number is B-41950. This contract is currently under construction.

The existing roadway typical cross section in this urban area consists of two 12-foot wide lanes with curb and gutter. There are two stop-controlled intersections along this corridor at SR 19 and Wallace Avenue in the urban section.

Within the rural section of SR 124 from Wallace Avenue to approximately 425 feet west of CR S 675 E near the Miami and Wabash county line there are no sidewalks. The existing roadway typical cross section consists of two 12-foot wide lanes with both unpaved shoulders and paved shoulders varying from one to 10 feet. Cross streets have a stop-control, but SR 124 does not.

There are drainage concerns along SR 124 from approximately 1.9 miles east of SR 19 to 2.16 miles east of SR 19 at the first bend in SR 124 near the Mississinewa River (Appendix B, pages 3, 81-82, and 92-95). The existing roadside ditch flow is restricted by sedimentation in the ditch, multiple driveway culverts one of which is crushed, and an undersized channel, which result in water ponding on the roadway and flooding. Within this section of roadway, there is one horizontal curve with a driveway at the inside radius of the curve. The driveway culvert has been damaged by

This is page 4 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
11115 15 Daue 4 01 30	FIUICULHAIHE.	Or 124 i ivia Overlay and i reventive maintenance	Date.	August 10, 2021	

County	Miami	Route	SR 124	Des. No.	1800552	

vehicles traversing over the inlet. The roadside ditch flows to the existing 32-inch metal pipe culvert, CLV-124-052-2.16, located 2.13 miles east of SR 19 which discharges to the Mississinewa River. CLV-124-052-2.16 connects to a 24-inch vitrified clay pipe which outfalls to the Mississinewa River. The vitrified clay pipe is failing and there is substantial streambank erosion and head cutting at the outfall.

There are two bridges, five large culverts ranging from 48 inches to 11.5 feet and 27 small culverts throughout the project corridor; however, only those culverts that have a rating of 3 out of 9 or below which is indicative of immediate failure are included in this project. There are three cross culverts in the project corridor that have a rating of 3 out of 9 and are poor in condition and in danger of failing that are included in this project. The three culverts are as follows:

- Existing 32-inch metal pipe culvert, CLV-124-052-2.16, located 2.13 miles east of SR 19 (Appendix B, pages 3, 82 and 94-95).
- Existing 15-inch metal pipe culvert, CLV-124-052-3.14, located under Circus Lane just north of the intersection with SR 124 approximated 3.15 miles east of SR 19 (Appendix B, pages 3, 83and 96).
- Existing 24-inch metal pipe culvert, CLV-124-052-6.49, located under SR 124 approximately 0.1 mile north of the CR 625 East crossing SR 124 or 6.49 miles east of SR 19 (Appendix B, pages 5, 90, and 97).

In the early coordination and supporting documents, an existing 24-inch metal pipe culvert, CLV-124-052-4.48, located 4.50 miles east of SR 19 was included in the project. This pipe has since been eliminated.

Preferred Alternative:

The proposed project includes application of a Hot Mix Asphalt (HMA) overlay and preventive maintenance of SR 124. The existing pavement structure on SR 124 will undergo a mill of 1.5 inches and overlay with 1.5 inches of HMA. Two to five feet of roadway shoulder widening will be completed at the inside radius of the curve approximately two miles east of SR 19 on SR 124 and the driveway at this location will be reconstructed including replacement of the driveway culvert (Appendix B, pages 3, 81-82, 94).

There are eight existing curb ramps located between SR 19 and Wallace Avenue that were investigated to ensure current American with Disabilities (ADA) standard were meet. Replacement of the ramps would only be necessary if the ramps no longer meet the ADA standards or are not compatible with the proposed HMA overlay. Curb ramp replacements are anticipated at the northeast and northwest corners of SR 124 and SR 19 (Appendix B, pages 2 and 98). The eastern end of the sidewalk 115 feet west of Wallace Avenue does not end a corner and therefore there is not a curb ramp. The receiving ramp on the north side of SR 124 at this location does not meet ADA requirements and is included in the Wallace Avenue bridge over the Wabash reconstruction under DES is 1802959, Contract Number is B-41950 that is currently under construction.

Culverts and drainage improvements include the following. Based on coordination with the INDOT District Environmental Staff on April 10, 2021, only those culverts that are being replaced as part of the project are referenced below and in the Bridge and/or Small Structure Section. Culverts and bridges in the overlay portion of the project are not included and no impacts are expected.

- Installation of a new 6 foot by 4 foot reinforced concrete box culvert crossing SR 124, 1.9 miles east of SR 19. This culvert will convey UNT 1 to the Mississinewa River from the existing roadside ditch to a newly constructed drainage channel on the north and east side of the roadway (Appendix B, pages 3, 81-85, 92-95, and 100).
- Construction of approximately 1,350 linear feet of drainage channel on the north and east side of SR 124, beginning 1.9 miles east of SR 19 and discharging to the Mississinewa River. The confluence of the drainage channel with the Mississinewa River will be armored with riprap (Appendix B, pages 3, 81-82 and 92-95).
- Replacement of an existing 15-inch metal pipe culvert located at 2.10 miles east of SR 19 at a driveway (Appendix B, pages 3, 81-82 and 94). This culvert is currently not serviceable and is being relocated due to the reconstruction of the driveway and construction of a shoulder at the driveway.
- Replacement of an existing 32-inch metal pipe culvert, CLV-124-052-2.16, located 2.13 miles east of SR 19 with a 36-inch pipe (Appendix B, pages 3, 82 and 94-95).
- Replacement of an existing 15-inch metal pipe culvert, CLV-124-052-3.14, located under Circus Lane just north

This is page 5 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021
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County	Miami	Route	SR 124	Des. No.	1800552	
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of the intersection with SR 124 (Appendix B, pages 3, 83 and 96).

 Replacement of an existing 24-inch metal pipe culvert, CLV-124-052-6.49, located under SR 124 approximately 0.1 mile north of the CR 625 East crossing SR 124 (Appendix B, pages 5, 90 and 97).

Traffic will be maintained with single lane closures utilizing a temporary signal or flagging operations for the HMA overlay and a roadway closure with a temporary detour, as required, for construction of cross culverts (Appendix B, pages 76-77). More information about Maintenance of Traffic (MOT) is included in the MOT section of this document.

By performing an HMA overlay and multiple drainage improvements, the project meets the purpose and need to extend the pavement life of SR 124 and improve drainage in the area experiencing flooding and to maintain culverts within the project area.

Logical Termini/Independent Utility:

The project has independent utility because it will provide a fully functional roadway without any additional transportation improvements required beyond the project limits. The HMA overlay portion of the project begins at SR 19 and extends to approximately 425 feet west of CR S 675 E and encompasses two pavement sections and an area of SR 124 with drainage concerns.

SR 124 begins at SR 19 and extends east to the Indiana-Ohio State Line. The beginning of SR 124 at SR 19 establishes the western project terminus. The pavement section from SR 19 east to Wallace Avenue has an IR of 130.84 indicating rough pavement. The pavement section from Wallace Avenue to approximately 425 feet west of CR S 675 E has an average IRI of 125.26 and is experiencing pavement deterioration (Appendix I, pages 14 and 20-21). The pavement section that extends from 425 feet west of SR S 675 E east to SR 13 was resurfaced in 2008 and is not in need of replacement therefore establishing the eastern logical termini for the HMA overlay.

There are drainage concerns along SR 124 from approximately 1.9 miles east of SR 19 to 2.16 miles east of SR 19 at the first bend in SR 124 near the Mississinewa River. Drainage concerns were not noted at other locations further east or west of this location.

The project termini are appropriate as they include all areas that contribute to the transportation problem and encompass a range of solutions appropriate to solving the transportation problem.

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.

<u>Do Nothing Alternative:</u> This alternative would allow the existing roadway and structures to remain in place with no improvements. This alternative would not involve any environmental impacts. It would result in continued deterioration of the road, which could allow development of unsafe travel conditions and likely increase costs of repair at a later date. This alternative would not meet the purpose and need of the project because it would not increase the pavement life, and the roadway would continue to deteriorate with the existing traffic. Therefore, this alternative has been discarded from further consideration.

<u>Chip Seal Alternative:</u> This alternative outlined in the Abbreviated Engineers Assessment and INDOT Mini-Scope (Appendix I, pages 11-37) would place another chip seal on the roadway. Roadway shoulder widening would occur to address a substandard horizontal curve and the ditch would be reconfigured to eliminate drainage issues. The proposed roadway widening and ditch regrading would require additional right-of-way. Eight curb ramps within the project area would require analysis and potential replacement in order to meet current ADA standards. This alternative would not meet the purpose and need of the project because it would not increase the pavement life and the pavement would continue to deteriorate. Therefore, this alternative has been discarded from further consideration.

This is page 6 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
		-			

County	Miami	Route	SR 124	Des. No.	1800552
It It It It	would not correct exist would not correct exist would not correct the would not correct exist	sting capacity deficiencies; sting safety hazards; existing roadway geometr sting deteriorated condition		s; or	x
ROADW	/AY CHARACTER:				
the propos	sed action includes m	ultiple roadways, complete	and duplicate for each road	way.	
Functional Current A Design H	Roadway al Classification: ADT: lour Volume (DHV): Il Speed (mph):	SR 124 – Segment 1 Major Collector 1002 VPD (20 95 Truck Perce 35/45/55 Legal Speed	ntage (%) 8.46	•	/PD (2033)
- N	umbor of Lance:	Existing 2	Proposed	2	1
	umber of Lanes: ype of Lanes:	Z Through	Th	<u> </u>	1
	avement Width:	24 ft.	24 ft.	rough	J
	houlder Width:	2 ft.	2 ft.		
	ledian Width:	NA ft.	NA ft.		
	idewalk Width:	5 ft.	5 ft.		
	etting: opography:	X Urban X Level	Suburban Rolling	Rural Hilly	
		SR 124 – Segment 2 (S 675 E)	(Wallace Avenue to appro	ximately 425 feet	west of CR
	Roadway				
	al Classification:	Major Collector			
Current A		1002 VPD (20		1002 V	/PD (2033)
Design H	our Volume (DHV):	95 Truck Perce	ntage (%)8.46		
Designed	Speed (mph):	35/45/55 Legal Speed	d (mph): 35/45/55		
		Existing	Proposed		7
	umber of Lanes:	2		2	4
	ype of Lanes:	Through		rough	J
	avement Width:	24 ft.	24 ft.		
	houlder Width:	2-12 ft.	2-12 ft.		
	ledian Width:	NA ft.	NA ft.		
S	idewalk Width:	NA ft.	NA ft.		
	etting:	Urban	Suburban	X Rural	
Т	opography:	X Level	Rolling	Hilly	

This is page 7 of 38 Project name: SR 124 HMA Overlay and Preventive Maintenance Date: August 13, 2021

		marane	Всри	uncin	or rrans	portation			
Count	v Miami		Route	SR 124			Des. No.	1800552	
	·			-		_			
BRID	GES AND/OR SMAL	L STRUCTURE	(S):						
If the proj	posed action includes n	nultiple structures,	complete	and duplic	ate for eac	h bridge and/or	r small stri	ucture. Include both	
	nd proposed bridge(s)					_			
Structi	ıre/NBI Number(s):				Sufficie	ency Rating:			
		CV 124-052-1.	94			yg.	NA		
							(Ratii	ng, Source of Information)	
							`	,	
Г		Existing			Proposed				
-	Bridge/Structure Type		NA			6' by 4' RCB			
-	Number of Spans: Weight Restrictions:	NIA	NA		NΙΛ	1			
	Height Restrictions:	NA NA	ton ft.		NA NA	ton ft.			
	Curb to Curb Width:	NA NA	ft.		NA	ft.			
-	Outside to Outside Wi		ft.		NA	ft.			
=	Shoulder Width:	NA	ft.		NA	ft.			
_		•	4			_			
Describe	impacts and work invol	ving bridge(s), cul	/ert(s), pip	pe(s), and	small struct	ture(s). Provide	e details fo	or small structure(s):	
								small structures becomes	
large. If t	ne table exceeds a con	nplete page, put it	in the app	endix and	summarize	the information	n below w	ith a citation to the table.	
A new	6 foot by 4 foot reinf	orced concrete b	ox culve	rt 42 feet	in length v	will be installe	d to conv	ey UNT 1 to Mississine	wa
	under SŔ 124 to a ne								
				-	. •				
Structu	ıre/NBI Number(s):	NIA			Sufficie	ency Rating:	NI A		
		NA					NA		
							(Ratii	ng, Source of Information)	
Г	D:1 (0) / T	Existing	01.15		Proposed				
-	Bridge/Structure Type Number of Spans:	:	CMP 1			CMP 1			
	Weight Restrictions:	NA	ton		NA	ton			
-	Height Restrictions:	NA NA	ft.		NA NA	ft.			
-	Curb to Curb Width:	NA NA	ft.		NA	ft.			
-	Outside to Outside Wi		ft.		NA	ft.			
-	Shoulder Width:	NA	ft.		NA	ft.			
_		•	4			_			
	impacts and work invol								
								small structures becomes	
arge. IT I	ne table exceeds a con	npiete page, put it	in the app	enaix ana	summarize	tne informatio	n below w	ith a citation to the table.	
The e	xisting 15-inch drivew	ay culvert at the	inside cu	urve along	SR 124 2	2.10 miles eas	st of SR 1	19. This culvert is a 15-ir	nch
CMP	which is partially cru	ished and filled	with sec	diment. T	his culver	t will be repla	aced with	h 58 feet of 15-inch C	MΡ
(Appe	ndix B, pages 3, 8°	I-82 and 94) Th	nis culve	rt is curr	ently not	serviceable a	and is be	eing relocated due to	the
	struction of the drivey								
This	is page 8 of 38 Proje	ect name· SR	124 HMA (Overlav and	Preventive I	Maintenance	Date:	August 13, 2021	

		1	ndiana Depar	tment c	or irans	portation		
Coun	ty <u>Miami</u>		Route	SR 124		_ D	es. No.	1800552
Struct	ure/NBI Number(s):	CV 12	4-052-2.16		Sufficie	ency Rating:	Assess	
							(Rati	ng, Source of Information)
			Existing		Proposed	4		
	Bridge/Structure Type		CMP		Fiopose	CMP		
	Number of Spans:	-	1			1		
	Weight Restrictions:		NA ton		NA	ton		
	Height Restrictions:		NA ft.		NA	ft.		
	Curb to Curb Width:		NA ft.		NA	ft.		
	Outside to Outside Wi	dth:	NA ft.		NA NA	ft. ft.		
	Shoulder Width:		NA ft.		NA	ıı.		
structure large. If The e	the table exceeds a con existing 32-inch metal ch vitrified clay pipe a	gth and on plete pa pipe cul nd outfa	lia.), location and in ge, put it in the app vert, CLV-124-05 lls to the Mississi	npacts to we endix and 152-2.16, is newa Riv	vater. Use summarize located 2 er. This p	a table if the nut the information 1.13 miles eas tpe will be rep	imber of a har below w t of SR blaced w	small structures becomes vith a citation to the table. 19. This pipe connects to a ith 56 feet of 36-inch CMP.
The p	oipe outraii wiii be arm	orea wit	n riprap and the c	uivert wiii	be sumpe	ea 3 inches (A	ppenaix	B, pages 3, 82 and 94-95).
Struct	ure/NBI Number(s):	CLV-1	24-052-3.14		Sufficie	ency Rating:	3 out o	of 9, Abbreviated Engineer's sment
							(Rati	ng, Source of Information)
					_	_		
	Dridge /Chr. etc. no. T. no.		Existing		Proposed		1	
	Bridge/Structure Type Number of Spans:	<u> </u>	CMP			CMP		
	Weight Restrictions:		NA ton		NA	ton		
	Height Restrictions:		NA ft.		NA	ft.		
	Curb to Curb Width:		NA ft.		NA	ft.		
	Outside to Outside Wi	dth:	NA ft.		NA	ft.		
	Shoulder Width:		NA ft.		NA	ft.		
structure large. If The e	the table exceeds a con existing 15-inch metal	gth and on plete part pipe cube repla	lia.), location and in ge, put it in the app llvert, CLV-124-0 ced with 108 feet	npacts to wendix and 52-3.14, it of 15-inc	vater. Use summarize s located	a table if the nu the information under Circus	imber of s o below v Lane ju	for small structure(s): small structures becomes with a citation to the table. st north of the intersection armored with riprap and the
Struct	ure/NBI Number(s):	CLV-1	24-052-6.49		Sufficie —	ency Rating:	Assess	
							(Rati	ng, Source of Information)
			Existing		Proposed	d		
	Bridge/Structure Type		CMP			CMP		
	Number of Spans:		1			1		
	Weight Restrictions:		NA ton		NA	ton		
	Height Restrictions: Curb to Curb Width:		NA ft.		NA NA	ft. ft.		
	Outside to Outside Wi	dth:	NA π. NA ft.		NA NA	π. ft.		
	Shoulder Width:	uui.	NA ft.		NA NA	ft.		
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SR 124 HMA Overlay and Preventive Maintenance

Project name:

This is page 9 of 38

Date: August 13, 2021

County	Miami	Route	SR 124	Des. No.	1800552	
structure numbe	s and work involving bridge r, type, size (length and dia e exceeds a complete page	.), location and in	npacts to water. Us	se a table if the number of s	mall structure	es becomes
CR 625 Eas	24 inch metal pipe culve st crossing SR 124. This ne culvert will be sumped	pipe will be rep	laced 44 feet of 2	24 inch CMP. The pipe of		
MAINTENA	NCE OF TRAFFIC (MOT	r) DURING CO	NSTRUCTION:			
Is a te Will th	emporary bridge proposed? emporary roadway proposed the project involve the use of povisions will be made for ac	a detour or requi		(describe below)	Yes X	No X X

Discuss closures and/or facilities (if any) that will be provided for maintenance of traffic. Any known impacts from these temporary measures should be quantified to the extent possible, particularly with respect to properties such as Section 4(f) resources and wetlands. Any local concerns about access and traffic flow should be detailed as well.

Provisions will be made for through-traffic dependent businesses.

Provisions will be made to accommodate any local special events or festivals.

Will the proposed MOT substantially change the environmental consequences of the action?

Is there substantial controversy associated with the proposed method for MOT?

The MOT plan for the project will require single lane closures utilizing a temporary signal or flagging operations for the HMA overlay and Phase III of the MOT. A closure and detour for Phase I and II of the MOT will be required to construct the culverts and drainage improvements. The closure and detours are anticipated to occur in two phases that will occur in succession as described below.

Phase I will include construction activities from 1.9 miles east of SR 19 to 2.16 miles east of SR 19 at the first bend in SR 124 near the Mississinewa River as detailed below.

- Installation of a new 6 foot by 4 foot reinforced concrete box culvert crossing SR 124, 1.9 miles east of SR 19. This culvert will convey UNT 1 to the Mississinewa River from the existing roadside ditch to a newly constructed drainage channel on the north and east side of the roadway (Appendix B, pages 3, 81-82, 92-95, and 100).
- Construction of approximately 1,350 linear feet of drainage channel on the north and east side of SR 124, beginning 1.9 miles east of SR 19 and discharging to the Mississinewa River. The confluence of the drainage channel with the Mississinewa River will be armored with riprap (Appendix B, pages 3, 81-82 and 92-95).
- Replacement of a 15-inch metal pipe culvert located at 2.10 miles east of SR 19 at a driveway (Appendix B, pages 3, 81-82 and 94). In addition, a small shoulder will be constructed at the driveway and the driveway will be reconstructed.
- Replacement of an existing 32-inch metal pipe culvert, CLV-124-052-2.16, located 2.13 miles east of SR 19 with a 36-inch pipe (Appendix B, pages 3, 82, and 94-95).

SR 124 from Wallace Avenue to CR S 300 E/Mississinewa Road will be signed for local traffic only and detoured. At this time, the duration of the closure and detour is not yet known; however, the Phase I closure and detour may be four to eight weeks due to construction of the box culvert and culvert CLV-124-052-2.16. Before or after construction of the cross culverts, traffic may be maintained with lane closures for construction of the new drainage channel and other improvements.

Phase II will include the replacement of an existing 24-inch metal pipe culvert, CLV-124-052-6.49, located under SR 124 approximately 0.1 mile north of the CR 625 East crossing SR 124 (Appendix B, pages 5, 90, and 97). SR 124 from County Road S 550 E to County Road S 625 E will be signed for local traffic only and detoured. At this time, the duration of the closure and detour is not yet known; however, the Phase II closure and detour may be two to three weeks for construction

This is page 10 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021
			_	

County	Miami	Route	SR 124	Des. No.	1800552	

of the pipe culvert.

The detour for Phase I and II (which will occur after Phase I) will utilize SR 13 through Wabash, and US 24 and SR 19 in Peru. The detour is approximately 29 miles long and adds approximately 22 miles to a trip through the area. Intermittent lane closures with flagging operations may still be necessary to finalize construction (Appendix B, pages 76-77).

Phase III will include the replacement of an existing 15-inch metal pipe culvert, CLV-124-052-3.14, located under Circus Lane just north of the intersection with SR 124 (Appendix B, pages 3, 83 and 96). Circus Lane will be signed for local traffic only at SR 124. At this time, it is anticipated that this pipe will be bored under Circus Lane and traffic will be maintained by flagging and lane closures.

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. This is included in this document as a firm commitment. In addition, road closure / detour expected on or about [date] signage will be placed along the project corridor at least two weeks prior to implementation of road closures. Traffic advisories will also be shared on INDOT social media as warranted.

The closures/lane restrictions will pose a temporary inconvenience to traveling motorists (including school buses and emergency services); however, no significant delays are anticipated, and all inconveniences and delays will cease upon project completion.

ESTIMATED PROJECT COST AND SCHEDULE:

Engineering:	\$ 305,456	(2021)	Right-of-Way:	\$ <u>75,000</u>	(2022)	Construction:	\$ 2,345,850	(2023)

Anticipated Start Date of Construction: Summer 2023

RIGHT OF WAY:

	Amount (acres)		
Land Use Impacts	Permanent	Temporary	
Residential	0	0	
Commercial	0	0	
Agricultural	2.0	0	
Forest	0.4	0	
Wetlands	0	0	
Other: Existing Road	0	0	
Other:			
TOTAL	2.4	0	

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

The existing right-of-way width varies throughout the project but averages approximately 50 feet and has a minimum width of approximately 22 feet from existing edge-of-pavement.

The project requires approximately 2.4 acres of new permanent right-of-way that will be acquired, predominantly from agricultural lands or forested areas along the Mississinewa River from 1.9 miles east of SR 19 to 2.16 miles east of SR 19. The project will not require temporary right-of-way. The project requires 1.0 acre of re-acquisition of apparent existing right-of-way from two locations (Appendix B, pages 81-83, 90, and 92-97).

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

This is page 11 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021
			_	

County	Miami	Route SR 12	1800552

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 December 11, 2020, March 16, 2021, and April 15, 2021 (Appendix C, pages 1-7). The early coordination letter submitted on April 15, 2021 was an update to include details on small drainage structures included in project. As this re-coordination was focused on drainage improvements it was submitted only to natural resource agencies and a shortened time frame for response was requested.

Agency	Date Sent	Date Response Received	Appendix
Miami County Sheriff	December 11, 2020	No Response Received	NA
Miami County Commissioner	December 11, 2020	No Response Received	NA
Miami County Soil & Water Conservation	December 11, 2020	No Response Received	NA
Miami County Surveyor's Office	December 11, 2020	No Response Received	NA
Miami County Highway Dept.	December 11, 2020		NA
Miami County Local Emergency Planning Committee	December 11, 2020	No Response Received	NA
Wabash County Sheriff	December 11, 2020	No Response Received	NA
Wabash County Highway Dept.	December 11, 2020	No Response Received	NA
Wabash County Emergency Management Agency	December 11, 2020	No Response Received	NA
Peru Stormwater Coordinator/Peru Utilities	December 11, 2020	December 16-17, 2020 &	C, pages 30-36
Dama Camanamita Cala ala	& March 16, 2021	March 17, 2021	NIA
Peru Community Schools	December 11, 2020	No Response Received	NA
Peru Police Dept.	December 11, 2020	No Response Received	NA
Peru Mayor	December 11, 2020	No Response Received	NA
INDOT Fort Wayne District	December 11, 2020	December 18, 2020	C, page 26
INIDOT O III I D	& March 16, 2021	N. D	N. A.
INDOT Cultural Resources Office	December 11, 2020		NA
IDNR Division of Oil and Gas	December 11, 2020		C, page 10
Indiana Geological and Water Survey (via web form)	December 11, 2020		C, page 16
INDOT Office of Aviation	December 11, 2020		C, page 27
Indiana Department of Natural Resources	December 11, 2020 & March 16, 2021	January 8, 2021 & April 14, 2021	C, pages 11-14 and 40-43
IDEM Groundwater Section	December 11, 2020	December 31, 2020	C, page 15
IDEM Office of Land Quality	December 11, 2020		E, pages 14-19
IDEM (via web form)	December 11, 2020		C, pages 17-25
INDOT Utilities and Railroads	December 11, 2020		NA
IDNR Forestry	December 11, 2020	No Response Received	NA
	& March 16, 2021		
Natural Resources Conservation Service	December 11, 2020	January 13, 2021	C, page 28-29
US Army Corps of Engineers – Louisville District Regulatory Brach	December 11, 2020 & March 16, 2021	No Response Received	NA
National Parks Service	December 11, 2020	No Response Received	NA
US Department of Housing and Urban Development	December 11, 2020	No Response Received	NA
Federal Highway Administration	December 11, 2020	No Response Received	NA
j ,	& March 16, 2021		
US Fish and Wildlife Service	December 11, 2020	December 14, 2020,	C, pages 8-9
	& March 16, 2021	March 26, 2021	and 38-39
Frances Slocum Trail Riders, Inc.	December 11, 2020	No Response Received	NA
Miami County Floodplain Administrator	March 24, 2021	March 26, 2021	C, page 37
US Army Corps of Engineers – Chicago District Engineering Branch	April 15, 2021	No Response Received	NA

This is page 12 of 38 Project name: SR 124 HMA Overlay and Preventive Maintenance Date: August 13, 2021

SR 124

Route

USACE - Chicago District - Lake Mississinewa	April 15, 2021	No Response Received	NA
Mississinewa Lake	April 15, 2021	No Response Received	NA

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

SECTION B - ECOLOGICAL RESOURCES:

Miami

County

Streams, Rivers, Watercourses & Other Jurisdictional Features

Federal Wild and Scenic Rivers State Natural, Scenic or Recreational Rivers Nationwide Rivers Inventory (NRI) listed Outstanding Rivers List for Indiana Navigable Waterways

<u>Presence</u>	<u>lmpa</u>	acts
	Yes	No
X	X	
Х		Х
Х		Х

Des. No.

1800552

Total stream(s) in project area: ______2,305 ____ Linear feet Total impacted stream(s): ______1387 ____ Linear feet

Stream Name	Classification	Total Size in Project Area (linear feet)	Impacted linear feet	Comments (i.e. location, flow direction, likely Water of the US, appendix reference)
UNT 1 to Wabash River	Riverine, intermittent, streambed, seasonally flooded (R4SBC)	60	0	Identified in RFI as likely Waters of the US; however, this stream is located within HMA overlay only section and therefore was not delineated in Waters Report. Within the HMA overlay only section, no work will occur beyond the existing pavement and therefore the areas outside of the pavement were not investigated for the presence of waters of the U.S. and will not be impacted. - Likely Jurisdictional waterway - Appendix E, page 7
Mississinewa River	Riverine, lower perennial, unconsolidated bottom, permanently flooded (R2UBH)	455	0	- Identified in RFI and in Waters Report - Flows along SR 124 east of the project area - Ordinary high water mark (OHWM) 143 feet wide by 3 feet deep - Jurisdictional waterway - Navigable River and Outstanding River for Indiana - Noted as impaired for polychlorinated biphenyls (PCBs) in fish tissue - Appendix E, page 7 and Appendix F, pages 25-26
UNT 1 to Mississinewa River	Riverine, ephemeral (R6)	1,352	1,352	- Not identified as part of RFI but identified in Waters Report - Flows into the investigated area from a partially wooded pasture area to the south of SR 124, approximately 1.95 miles east of the intersection of SR 124 and Wallace Avenue - OHWM 3 feet wide by 1 foot deep - Non-jurisdictional waterway - Appendix F, page 25
UNT 2 to Mississinewa River	Riverine, intermittent, streambed (R4SBC)	241	0	Identified in RFI and in Waters Report Flows into the investigated from the agricultural area to the east of Circus Lane OHWM 2.5 feet wide by 8 inches deep Jurisdictional waterway Appendix E, page 7 (noted as UNT to Mississinewa River) and Appendix F, page 26
UNT 2 to Wabash River	Riverine, unknown perennial, unconsolidated bottom, permanently flooded (R5UBH)	60	0	- Identified in RFI as likely Waters of the US; however, this stream is located within HMA overlay only section and therefore was not delineated in Waters Report. Within the HMA overlay only section, no work will occur beyond the existing pavement and therefore the areas outside of the pavement were not investigated for the presence of waters of the U.S. and will not be impacted. - Noted as impaired for <i>E. coli</i> , nutrients, and PCBs in fish tissue. - Appendix E, page 7
UNT 1 to Asher Branch	Riverine, ephemeral (R6)	77	35	- Not identified as part of RFI but identified in Waters Report

This is page 13 of 38 Project name: S	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
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County	Miami	Route	SR 124	Des. No1800552
				 Originates at pipe outlet for CLV-124-052-6.49, located under SR 124 0.1 mile north of CR 625 East OHWM 1-1.5 foot wide by 2 feet deep Non-jurisdictional waterway Appendix F, page 28
UNT 2 to Asher Branch	Riverine, intermittent, streambed, seasonally flooded (R4SBC)	60	0	Identified in RFI as likely Waters of the US; however, this stream is located within HMA overlay only section and therefore was not delineated in Waters Report. Within the HMA overlay only section, no work will occur beyond the existing pavement and therefore the areas outside of the pavement were not investigated for the presence of waters of the U.S. and will not be impacted. - Appendix E, page 7 (noted as UNT to Asher Branch of Wabash River)

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

Based on the desktop review, the aerial map of the project area (Appendix B, pages 2-5), and the RFI report (Appendix E, pages 3 and 11), there are 46 streams, rivers, watercourse or other jurisdictional features within the 0.5 mile search radius. There are five rivers and streams mapped within the project area, which were confirmed by the site visit on October 20, 2020 by HNTB. Additionally, two other streams and a roadside ditch were identified during the site visit.

A Waters of the U.S. Determination / Wetland Delineation Report was approved by INDOT Ecology and Waterway Permitting Office on February 1, 2021. Please refer to Appendix F, pages 1-32 for the Waters of the U.S. Determination / Wetland Delineation Report. It was determined there were two likely and two unlikely jurisdictional waterways within the investigated areas and one roadside ditch (RSD). The U.S. Army Corps of Engineers (USACE) approved this determination on March 22, 2021.

As part of the project scoping, it was determined that the wetland delineation and waters investigated area for the overall project would be limited to areas where modifications during construction would result in expansion into non-impervious areas, since work to overlay the roadway would not extend beyond the existing edge of the pavement. Therefore, field investigation for *Waters of the U.S. Determination / Wetland Delineation Report* was completed only in areas where earth disturbing activities were anticipated beyond the existing edge of pavement. The field investigation area encompassed the area required for construction access and completion of both the drainage improvements and the culvert replacements. The investigated areas are illustrated with a yellow dashed line on relevant graphics (Appendix F, pages 25-28). The full extent of the project area where the HMA overlay will occur was investigated for other resources.

Permanent impacts resulting from the project include relocation of 1,352 feet of UNT 1 to Mississinewa River and 35 linear feet of permanent impacts to UNT 1 to Asher Branch due to the culvert replacement and streambed armoring. Temporary impacts to 1,352 linear feet of UNT 1 to Mississinewa River and 77 linear feet of UNT 1 to Asher Branch may occur from pump arounds during construction. For additional discussion of each waterway see below.

Within the investigated areas, the Mississinewa River is both a navigable river and is included on the Indiana list of Outstanding Rivers. No other streams or rivers within the project area are listed as Federal, Wild and Scenic Rivers; State Natural, Scenic, and Recreational Rivers; Outstanding Rivers for Indiana; navigable waterways; or National Rivers Inventory waterways.

Mississinewa River

Mississinewa River is a riverine, lower perennial, unconsolidated bottom, permanently flooded (R2UBH) resource. Approximately 455 linear feet of the Mississinewa River flows through the investigated area in total. The OHWM of Mississinewa River where it meets UNT 1 is approximately 143 feet wide by 3 feet deep. Where UNT 2 flows into Mississinewa River, the OHWM is estimated to be approximately 295 feet wide by 3 feet deep. According to the U.S. Geological Survey (USGS) StreamStats website, the drainage area of Mississinewa River where it flows through the investigated area is approximately 816 square miles. This feature is a jurisdictional feature. Based on a qualitative assessment, this resource is an excellent-quality feature based on its flow and on its well-developed riparian corridor.

A new ditch outfall for UNT 1 to Mississinewa River will be constructed; however, the outfall will be above the OHWM and

This is page 14 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
		-	_		

County	Miami	Route	SR 124	Des. No.	1800552	

therefore there will be no permanent or temporary impacts to the Mississinewa River. A Construction in a Floodway permit is anticipated for the Mississinewa River; however, a Section 404 Department of the Army Permit and a Section 401 Water Quality Certification are not anticipated.

Mississinewa River is listed as impaired for polychlorinated biphenyls (PCBs) in fish tissue. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. Workers will be informed. No sediment or soil disturbance is anticipated.

UNT 1 to Mississinewa River

UNT 1 to Mississinewa River (UNT 1) is an ephemeral stream feature that flows into the investigated area from a partially wooded pasture area to the south of SR 124, approximately 1.95 miles east of the intersection of SR 124 and Wallace Avenue. UNT 1 is not mapped as a USGS blueline stream, nor is it noted on the National Hydrography Flowlines layer. UNT 1 flows along the south side of SR 124 until the road curves to the southeast, at which point it drains into a structure under SR 124 and continues northeast until it drains into the Mississinewa River. Where UNT 1 flows out of the pipe structure on the north side of SR 124, a pipe failure has occurred (Appendix B, photos 50-51, pages 47-48).

Approximately 1,352 feet of this feature was evaluated as part of this investigation. This stream feature appears to be a partially excavated channel that drains stormwater from the agricultural property to the south of SR 124 via sheet flow and roadside ditches. The average OHWM of UNT 1 to Mississinewa is 3 feet wide by 1 foot deep. According to the classification codes developed by Cowardin et al. (1979), this stream feature would be classified as a riverine, ephemeral (R6) resource. This feature is not a jurisdictional feature. Based on a qualitative assessment, this resource is a poorquality feature based on lack of development and lack of instream cover.

Approximately 1,352 feet of UNT 1 to Mississinewa River will be relocated within the project limits from the roadside ditch on the south side of SR 124 to a newly constructed ditch on the north side of SR 124. Temporary impacts to 1,352 linear feet of UNT 1 to Mississinewa River may occur from pump arounds during construction. UNT 1 to Mississinewa River is an ephemeral channel and therefore not a waterway that would be regulated by the USACE. A Construction in a Floodway permit is anticipated for the portion of the relocation of UNT 1 to the Mississinewa River that is within the floodway of the Mississinewa River; however, a Section 404 Department of the Army Permit and a Section 401 Water Quality Certification are not anticipated.

UNT 2 to Mississinewa River

UNT 2 to Mississinewa River (UNT 2) is an intermittent stream feature that flows into the investigated area from the agricultural area to the east of Circus Lane. UNT 2 drains National Wetlands Inventory (NWI) Wetland 5, as well as RSD 1 to the Mississinewa River. UNT 2 is mapped as a USGS blueline stream and a National Hydrography Flowline. Approximately 241 feet of this feature was evaluated as part of this investigation. The OHWM of UNT 2 is 2.5 feet wide by 8 inches deep. According to the classification codes developed by Cowardin et al. (1979), this stream feature would be classified as a riverine, intermittent, streambed (R4SBC). UNT 2 is jurisdictional feature. Based on a qualitative assessment, this resource is a poor-quality feature based on lack of development and lack of flow.

UNT 2 to Mississinewa River was identified as a receiving water for Roadside Ditch 1 (RSD 1). There will be no permanent or temporary impacts to this waterway, and no permits are anticipated.

UNT 1 to Asher Branch

UNT 1 to Asher Branch is an ephemeral stream feature that originates from a small structure under SR 124, near the boundary of Wetland A. Approximately 77 feet of this feature was evaluated as part of this investigation. UNT 1 to Asher Branch is not mapped as a USGS blueline stream, nor is it noted on the National Hydrography Flowlines layer. The OHWM of UNT 1 to Asher Branch is approximately 1-1.5 feet wide by 2 feet deep. According to the classification codes developed by Cowardin et al. (1979), this stream feature would be classified as a riverine, ephemeral (R6) resource. Due to its ephemeral nature, UNT 1 to Asher Branch is not a jurisdictional feature. Based on a qualitative assessment, this resource is a poor-quality feature based on its lack of development, low quality vegetation, and lack of flow.

The small structure under SR 124 will be replaced. The headwater of the UNT 1 to Asher Branch will be impacted by the culvert replacement and streambed armoring. It is estimated that 35 linear feet of stream impacts will occur at the culvert outlet. Temporary impacts to 77 linear feet of UNT 1 to Asher Branch may occur from pump arounds during construction.

This is page 15 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
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County	Miami	Route	SR 124	Des. No.	1800552	
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UNT 1 to Asher Branch is an ephemeral channel and therefore not a waterway that would be regulated by the USACE. No permits are anticipated for this culvert replacement.

Roadside Ditch (RSD) 1

One roadside drainage feature, RSD 1, was observed within the survey area. East of Circus Lane, RSD 1 is a vegetated roadside ditch that transitions to a riprap lined ditch as it approaches the culvert under Circus Lane. West of Circus Lane, RSD 1 intersects UNT 2 to Mississinewa River. RSD 1 is approximately 244 feet long within the investigated area.

The small structure under Circus Lane will be replaced. The RSD 1 will be impacted by the culvert replacement and scour protection at the culvert outlet. It is estimated that 112 linear feet of RSD 1 will be impacted by the culvert replacement including 5 feet of riprap for scour protection at the culvert outlet. RSD 1 is not a stream and is not regulated by the USACE. No permits are anticipated for this culvert replacement.

Early Coordination

USFWS responded on December 14, 2020 with recommendations to avoid or minimize impacts to riparian and stream habitat (Appendix C, pages 8-9). The recommendations include measures to restrict below low-water work in streams and minimize impacts, span the active stream channel, restrict channel work to the minimum necessary for installation of the stream crossing structure, minimize the extent of hard armor (riprap) in bank stabilization by using bioengineering techniques, avoid all work within the inundated part of the stream channel (in perennial streams and larger intermittent streams) during the fish spawning season (April 1 through June 30), and evaluate wildlife crossings under bridge/culverts projects in appropriate situations.

IDNR DFW responded on January 8, 2021 with recommendations to avoid or minimize impacts to streams and fish and wildlife habitat (Appendix C, pages 11-14). Recommendations included both permanent and temporary measures to minimize impacts and limit disturbance. The recommendations include to maintain fish and wildlife passage through a crossing structure; to span the entire channel width; to minimize and contain within the project limits in channel disturbance and the clearing of trees and brush; to not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife; to not excavate in the low flow area except for the placement of piers, foundations, and riprap, or removal of the old structure; to not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pump rounds; to operate equipment used to replace the bridge from the existing roadway; to avoid heavy equipment entering the river for construction of the new ditch and outfall, and standard sediment and erosion control commitments.

An automated letter was generated from IDEM's website on December 29, 2020 (Appendix C, pages 17-25). This letter contains recommendations pertaining to sediment and erosion control, permitting requirements, and restrictions regarding disturbance of vegetation.

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

	<u>Presence</u>	<u>ımı</u>	<u> </u>
Open Water Feature(s)		Yes	No
Reservoirs			
Lakes	X		X
Farm Ponds			
Retention/Detention Basin			
Storm Water Management Facilities			
Other:			

Describe all open water feature(s) identified adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if features are subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

Based on the desktop review, the aerial map of the project area, and the RFI report (Appendix E, pages 3 and 11), there are seven open water features within the 0.5 mile search radius. There is one lake mapped within the project area. That

This is page 16 of 38 Project name: SR 124 HMA Overlay and Preventive Maintenance Date: August 13, 2021

County	Miami	Ro	oute SF	R 124		Des. No.	180055	2	
	onfirmed by the s vestigation area				INTB; however, t	he lake is out	side the o	construction lir	mits
Permitting Office	ce on February ´ neation Report. N	I, 2021. Please	refer to A	ppendix	eport was approver F, pages 1-32 for filling the filling filli	or the <i>Water</i> s	of the U	.S. Determina	tion
					Prese		Impad	<u>cts</u>	
Wetland	s				X		res X	No	
Total wetland are	ea:	0.03	Acre(s)	Total	wetland area impa	cted:	0.01	Acre(s)	
(If a determination	on has not been m	ade for non-isola	ted/isolated	d wetland	ds, fill in the total w	etland area imp	pacted abo	ove.)	
Wetland No.	Classification	Total Size (Acres)	Impacte	d Acres	Comments (i.e. le reference)	ocation, likely \	Vater of th	ne US, appendix	X
Wetland A	palustrine, emergent, persistent, temporarily flooded (PEM1A)	0.03	0.01		Not jurisdictional Fringe wetland defrom the surrounding headwater of UNT Not mapped as a Appendix F, page	eveloped due to t ng agricultural fie 1 to Asher Brand n NWI wetland	he concent lds and fro		e
Wetla Wetla	s (<i>Mark all that ap</i> and Determination and Delineation CE Isolated Waters		<u>Do</u>	X	tation	ESD A February 1, March 22, 2		Pates	
Improvements that will not result in any wetland impacts are not practicable because such avoidance would result in (Mark all that apply and explain): Substantial adverse impacts to adjacent homes, business or other improved properties; Substantially increased project costs; Unique engineering, traffic, maintenance, or safety problems; Substantial adverse social, economic, or environmental impacts, or The project not meeting the identified needs. Describe all wetlands identified adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if features are subject to federal or state jurisdiction. Discuss measures to avoid,									
will occur to the fea minimize, and mitig			are subjec	t to fede	raı or state jurisdict	ion. Discuss m	neasures t	o avoid,	
are 25 wetland	features within t	he 0.5 mile sear	ch radius	. Accord	, and the RFI rep ling to the RFI rep he site visit on O	ort, there is o	ne wetla	nd mapped wit	
					eport was approv F, pages 1-32 fo				

This is page 17 of 38 Project name: SR 124 HMA Overlay and Preventive Maintenance Date: August 13, 2021

was likely non-jurisdictional. The USACE confirmed this determination on March 22, 2021.

/ Wetland Delineation Report. The report indicated nine NWI wetlands were mapped within investigated area, and one wetland was identified during the site visit on October 20, 2020 by HNTB. It was determined that the identified wetland

County	Miami	Route	SR 124	Des.	No.	1800552		
project would areas, since investigation disturbing ac the area red replacements	project scoping, it was det be limited to areas where work to overlay the roadwa for Waters of the U.S. Dete tivities were anticipated be quired for construction ac s. The investigated areas a ull extent of the project area	modification by would not rmination / V yond the exi ccess and one re illustrated	s during const extend beyon Vetland Deline sting edge of completion of with a yellow	ruction would result in d the existing edge of ation Report was composited in the field in both the drainage ideashed line on releva	expai the poleted nvestig mprov nt gra	nsion into non- pavement. Then only in areas v gation area end rements and phics (Append	impervious refore, field where earth compassed the culvert ix F, pages	
to wetlands w permit will be that there is n	y 0.01 acre of Wetland A state of Wetland A state of the control o	d at the outfa preseeably in a not anticipa the proposed	all of the existing acted by the ted. Based up the discount in the construction of the	ng culvert. All practical project have been inco on the above conside tion in wetlands and the	ble me corpor rations	easures to min ated. An isolat s, it has been o	imize harm ted wetland determined	
metal pipe cu that would co	One wetland was identified as part of this project that will be impacted. This wetland is at the outlet of an existing 24-inch metal pipe culvert, CLV-124-052-6.49. Due to the location of the wetland, the Do Nothing Alternative is the only alternative that would completely avoid impacts to Wetland A. The Do Nothing Alternative was discarded from further consideration as it did not meet the project purpose and need.							
Early Coordi	ination							
	oonded on March 26, 20 tions for wetland mitigation					npacts to we	tlands and	
	esponded on January 8, 2 d habitat restoration (Appe			ns for minimization o	f impa	icts to wetland	ls, wetland	
	d letter was generated from Immendations pertaining to							
All applicable	recommendations are incl	uded in the E	Environmental	Commitments section	of this	s CE documen	ıt.	
Terres	trial Habitat			Presence Ye X X		ots NO		
Total terrestria	l habitat in project area:	2.4	Acre(s)	Total tree clearing:		0.71	Acre(s)	
or not impacts wil	terrestrial habitat (i.e. foreste l occur to habitat identified. In , minimize, and mitigate if imp	iclude total ter	restrial habitat i					
B, pages 2-5)	lesktop review, a site visit on the site of hall the sand pasture, and forest	bitat present	: maintained la	wn, vegetated right-of	-way,	agricultural lan	nd including	

This is page 18 of 38 Project name: SR 124 HMA Overlay and Preventive Maintenance Date: August 13, 2021

predominately residential and commercial properties with maintained lawn. Between Wallace Avenue and the end of the project, the project is predominately agricultural land uses with scattered large lots and farmsteads with maintained lawn, as well as scattered wooded riparian areas. The project will require a total of approximately 2.4 acres of habitat disturbance, of which 0.71 acre of tree clearing will occur to the wooded riparian habitat. Dominant vegetation within the riparian habitat consisted of sugar maple (*Acer saccharum*), hackberry (*Celtis occidentalis*), Japanese honeysuckle (*Lonicera japonica*), and amur honeysuckle (*Lonicera maackii*). Vegetated right-of-way is comprised of tall fescue (*Schedonorus arundinaceus*) and Kentucky bluegrass (*Poa pratensis*). Avoidance alternatives are not practicable because of the construction of the drainage outfall to the Mississinewa River. Terrestrial habitat impacts will likely require mitigation through the Construction in a Floodway (CIF) permitting process and mitigation has been incorporated during

Des. No. 1800552

__ Date: August 13, 2021

SR 124

Route

Miami

County

	the Section 7 consultation process.
	Early Coordination
	USFWS responded on December 14, 2020 with recommendations to avoid or minimize impacts to terrestrial habitat (Appendix C, pages 8-9). These recommendations included limiting tree clearing and understory vegetation to within the construction zone boundaries, as well as implementing temporary erosion and sediment control methods within areas of disturbed soil.
	USFWS responded on March 26, 2021 with recommendations to avoid or minimize impacts to forested riparian habitat (Appendix C, pages 38-39). This includes mitigation for the loss of riparian trees as close to the project impact site as possible and in accordance with woodland mitigation guidelines of IDNR contained in their Information Bulletin #17.
	IDNR DFW responded on January 8, 2021 with recommendations to avoid or minimize impacts to terrestrial habitat (Appendix C, pages 11-14). These recommendations included post-construction revegetation measures, mitigation plans for riparian habitat impacts, and clearing restriction of any trees suitable for the Indiana bat or Northern Long-eared bat roosting during the active season.
	An automated letter was generated from IDEM's website on December 29, 2020 (Appendix C, pages 17-25). This letter contains recommendations pertaining to permitting requirements and restrictions regarding disturbance of vegetation.
	All applicable recommendations are included in the Environmental Commitments section of this CE document.
	Protected Species Federally Listed Bats Information for Planning and Consultation (IPaC) determination key completed Section 7 informal consultation completed (IPaC cannot be completed) Section 7 formal consultation Biological Assessment (BA) required Yes No X X X
	Determination Received for Listed Bats from USFWS: NE NLAA LAA X
	Other Species not included in IPaC Additional federal species found in project area (based on IPaC species list) State species (not bird) found in project area (based upon consultation with IDNR) X X
	Migratory Birds Known usage or presence of birds (i.e. nests) State bird species based upon coordination with IDNR TO A CONTRACT OF THE PROPERTY OF THE PROPE
b	viscuss IDNR coordination and species identified. Describe USFWS Section 7 consultation and determination received for Indiana at and northern long-eared bat impacts. Discuss if other federally listed species were identified. If so, include consultation that has eccurred and the determination that was received. Discuss if migratory birds have been observed and any impacts.
	Based on a desktop review and the RFI report (Appendix E, page 6) completed by HNTB on March 2, 2020, the IDNR Miami County Endangered, Threatened and Rare (ETR) Species List has been checked. According to the IDNR-DFW early coordination response letter dated January 8, 2021 and March 16, 2021 (Appendix C, pages 11-14 and 40-41), the Natural Heritage Program's Database has been checked. Two managed lands and seven species are documented within one-half mile of the project area. Frances Slocum State Forest managed by IDNR and the Mississinewa Emergency Spillway managed by the USACE are both within one-half mile of the project area. Coordination with USACE Section 408 Coordinator and Lake Mississinewa occurred on April 15, 2021 via USPS and email (Appendix C, pages 5-7). No response was received. For reference to further discussions of the managed lands noted in the IDNR letter see the 4(f) section of this document. According to the IDNR Natural Heritage Database, there are three federal & state endangered mussel species
	documented in the Wahash River. These species include the rayed hean (Villosa fahalis), the spuffhox (Enjohlasma

This is page 19 of 38 Project name: SR 124 HMA Overlay and Preventive Maintenance

County	Miami	Route	SR 124	Des. No.	1800552	

triquetra), and the clubshell (*Pleurobema clava*). The rayed bean (*Villosa fabalis*) and the snuffbox (*Epioblasma triquetra*) are also documented in the Mississinewa River. The Mississinewa River also includes one state endangered mussel species, the round hickorynut (*Obovaria subrotunda*), and two state species concern mussel species, the kidneyshell (*Ptychobranchus fasciolaris*) and the wavyrayed lampmussel (*Lampsilis fasciola*). Additionally, the American badger (*Taxidea taxus*) is a state special concern species documented within one-half mile of the project area. IDNR responded "As long as standard erosion control measures are implemented along the roadway near the Wabash River and Mississinewa River, we do not foresee any impacts to the mussel species above as a result of this project. Also, impacts to the American badger or its preferred habitat are unlikely as a result of this project."

An early coordination letter was sent via email to IDNR on December 11, 2020, to and to USACE Section 408 Coordinator and Lake Mississinewa via USPS and email on April 15, 2021 (Appendix C, pages 5-7). No response was received with regards to managed lands or species noted on the managed lands.

Project information was submitted through the USFWS's Information for Planning and Consultation (IPaC) portal, and an official species list was generated (Appendix C, pages 43-48). The project is within range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened northern long-eared bat (NLEB) (*Myotis septentrionalis*). No additional species were generated in the IPaC species list other than the Indiana bat and northern long-eared bat.

The project qualified and completed *Limited Formal Programmatic Consultation* for the Indiana bat and northern long-eared bat (NLEB) due to tree clearing from 100 to 300 feet from the existing roadway. Culvert inspections occurred on October 20, 2020 for culverts that will be replaced within the project limits and no bats or signs of bats were found in any of the structures within the project area (Appendix C, pages 64-73). According to the INDOT Bridge and Drainage Asset Viewer which identifies all INDOT drainage structures, no birds or bats have been identified in any of the 27 small culverts associated with the HMA overlay portion of the project; however, as these culverts are less than 36 inch in diameter they are not included in BIAS and inspection forms are not available. According to the bridge and culvert inspection reports for the remaining five large culverts and two bridges no birds or bats have been identified within these structures (Appendix C, pages 74-83). An effect determination key was completed on March 25, 2021, and based on the responses provided, the project was found to "may affect, and is likely to adversely affect" the Indiana bat and/or the NLEB (Appendix C, pages 49-63). Proposed impacts have been minimized and cannot be avoided due to construction of a new ditch and outfall to the Mississinewa River.

No work will be completed for the two bridges within the project limits. For reference see the paving exceptions noted in Appendix B, pages 80 and 83. All bridges and structures within the limits of the proposed project where milling and HMA overlay will occur will be investigated for the presence of bats and birds no earlier than two years prior to the start of construction. This has been included as a firm commitment in this document. 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 verified the effect finding and submitted to USFWS on March 26, 2021. On April 5, 2021, USFWS issued a concurrence letter with the "may affect, and is likely to adversely affect" finding (Appendix C, pages 84-87). The findings include the commitment 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 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); and 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. AMMs and/or commitments are included as firm commitments in the *Environmental Commitments* section of this document.

Additionally, a "Reinitiation Notice" is required if: more than 0.08 acre of suitable habitat is to be cleared; new information about listed species is encountered; the project is modified in a manner that causes an effect to the listed species; or a new species or critical habitat is listed that the project may affect. These requirements, and the AMMs from the Project Submittal Form, are included as firm commitments for this project.

This is page 20 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
THIS IS DAUG ZU UL 30	Froieci name.	SIX 124 HIVIA OVEHAY AND HEVEILIVE MAINLEHANCE	Date.	August 13, 2021	

County Miami	Route	SR 124	Des.	No. <u>180</u>	0552
conservation options out Projects in the Range of to administered by The Con- The area of suitable habin County, and the compense This precludes the need to	ompensatory mitigation required on page 41 of the he Indiana bat and NLEB. servation Fund, shall be \$ tat to be cleared, multiplies atory price per acre; (0.08 for further consultation on aformation on endangered	May 20, 2016 Pro The amount to be 1,308.30. This amound do by the mitigation acre * 1.75 * \$9,3 this project as req	ogrammatic Biolog paid to the Range- punt was determine n ratio for inactive 45.00 = \$1,308.30 uired under Sectio	rical Opinionewide In-lieused by the Hambers season trees.).	n for Transportation I Fee Program, to be abitat Block Method. e clearing for Miami Endangered Species
USFWS will be contacted				, o p. ojoc	vi piano are enangea,
Karst features ide Oil/gas or explora	eral Resources thin the Potential Karst Featu ntified within or adjacent to the tion/abandoned wells identified port reviewed by INDOT EWF	ne project area ed in the project area	NA	Yes	No X X
Discuss if project is located in Farea (from RFI). Discuss responsere identified and if impacts we study/report was completed and by INDOT EWPO)	onse received from IGWS coo vill occur. Describe if any imp	ordination. Discuss in acts will occur to any	f any mines, oil/gas, v karst features. Inc	or exploratio lude discussi	n/abandoned wells ion of karst
13, 1993 Karst Memorand 6-9) and the RFI report (A area. In the early coordinate in the indicate that karst feat is high liquefaction potential well as sand and gravel rein the area (Appendix E,	w, the project is located out lum of Understanding (MO Appendix E, pages 3 and 1 ation response dated Febr tures exist in the project al tial and that the project is esources. There are also pe pages 4 and 12). These f onse from IGWS was com	U). According to th 1), there no karst uary 16, 2021, the rea (Appendix C, p within a floodway. etroleum exploration	e topo map of the features identified Indiana Geologica age 16). The IGW There is high poten wells and abance affected because	project area within or act all and Wate //S response ential for be loned induse these feat	(Appendix B, pages djacent to the project or Survey (IGWS) did e indicated that there edrock resources, as trial mineral quarries ures are outside the
adjacent to the project are	22 petroleum wells locate ea. IDNR Oil and Gas Divi il and gas wells "within the	sion responded to	early coordination	n on Januar	y 8, 2021, indicating
SECTION C - OTHER R	ESOURCES				
Drinking Water Res Wellhead Protecti Source Water Pro Water Well(s) Urbanized Area E Public Water Syst	on Area(s) otection Area(s) oundary	<u>Pr</u>	X X X	X	o X X
				Yes <u>l</u>	No_

This is page 21 of 38 Project name: SR 124 HMA Overlay and Preventive Maintenance

__ Date: __August 13, 2021

County	Miami	Route	SR 124	De	s. No.	1800552	
	ne project located in the St If Yes, is the FHWA/EPA S If Yes, is a Groundwater A	SSA MOU Applicable	?			X	

Check the appropriate boxes and discuss each topic below. Provide details about impacts and summarize resource-specific coordination responses and any mitigation commitments. Reference responses in the Appendix.

Sole Source Aquifer (SSA)

The project is located in Miami County, which is not located within the area of the St. Joseph Sole Source Aquifer, the only legally designated sole source aquifer in the state of Indiana. Therefore, the FHWA/EPA Sole Source Aquifer Memorandum of Understanding (MOU) is not applicable to this project, a detailed groundwater assessment is not needed, and no impacts are expected.

Wellhead Protection Area and Source Water Area

In an early coordination letter dated December 31, 2020 IDEM stated the project is not located within a wellhead area or Source Water Area (Appendix C, page 15). No impacts are expected.

Water Wells

Indiana Department of Natural Resources Water Well Record Database website (https://www.in.gov/dnr/water/3595.htm) was accessed on April 7, 2021 by HNTB. Ten drinking water wells were noted on properties adjacent to SR 124. Wells are generally located at the side or rear of the properties or more than 50 feet from the edge of pavement. No wells are located within the existing or proposed right-of-way. The features will not be affected because the HMA overlay would not disturb the existing wells and no other earth disturbing activities will occur in the vicinity of the wells. Therefore, no impacts are expected. Should it be determined during the right-of-way phase that these wells will be affected, a cost to cure will likely be included in the appraisal to restore the wells.

Urban Area Boundary

Based on a desktop review of the Urban Area boundary by HNTB on April 7, 2021 this project is located in an Urban Area Boundary (UAB). An early coordination letter was sent on December 11, 2020, to Peru Utilities. The MS4 coordinator responded that INDOT should have their own MS4 requirements and asked to be included on future coordination and copied on the Stormwater Pollution Prevention Plan (SWPPP) (Appendix C, page 32). Peru Utilities was also included in the preliminary field check meeting. A SWPPP will be prepared for the project and Rule 5 Construction Sediment and Erosion Control permit will be obtained for the project. Copies of the SWPPP will be provided to the City of Peru and Peru Utilities for review.

Public Water System

Based on a desktop review, a site visit on October 20, 2020 by HNTB, the aerial map of the project area (Appendix B, pages 2-5), a portion of this project is located in Peru where there is a public water system. The public water system will not be affected because the depth of excavation will not impact water lines. An early coordination letter was sent on date December 11, 2020 to Peru Utilities. Although Peru Utilities responded on December 17, 2020, no specific comments regarding public water system were included (Appendix C, pages 30-32). Peru Utilities responded on March 17, 2021 with concerns regarding relocation of above ground electric utilities but did not express any concerns regarding public water system (Appendix C, pages 33-36).

This is page 22 of 38 Project name: SR 124 HMA Overlay and Preventive Maintenance Date: August 13, 2021

County	Miami	Route	SR 124		Des. No. <u>180</u>	0552
Pro Lo Tra Ho	Iplains oject located within a regungitudinal encroachment ansverse encroachment omes located in floodplain	within 1000' up/dow	/nstream from p	Presence X X oroject	Impac Yes X X	No
li appiid	cable, indicate the Floodp	Level 3	3	Level 4	Level 5 X	
according to the	loodway Information Port classification system. If insure consistency with t	encroachment on a i	flood plain will c			
(http://dnrma 11), this pro page 18). A administrate project qual on natural a substantial i therefore, it various struc	desktop review of The I aps.dnr.in.gov/appsphp ject is located in a reg n early coordination let or responded on March ifies as a Category 5 p and beneficial floodpla increase in potential for has been determined cture size alternatives of the Field Check Plan	ulatory floodplain ter was sent on M 26, 2021 but did rer the current IND in values; there vor interruption or te that this encroach will be completed of	on March 23, as determined larch 24, 2021 on the end of	2021, and the RI d from approved to the local Floocomments on the al, which states: stantial change is emergency services bubstantial. A hydroxidal from the substantial is the stantial of the substantial of the RI de	FI report (Appe IDNR floodplair odplain Administ project (Append There will be no in flood risks; a ce or emergend draulic design s	ndix E, pages 3 and n maps (Appendix F, trator. The floodplain dix C, page 37). This o substantial impacts and there will be no ey evaluation routes; tudy that addresses
Farm	land			<u>Presence</u>	<u>lm</u> Yes	<u>pacts</u> _No
	ricultural Lands ime Farmland (per NRCS)		X	X	
	al Points (from Section VI O or greater, see CE Manual		06*) <u>1</u>	51		
Discuss existing considered.	farmland resources in th	e project area, impad	cts that will occi	ur to farmland, and	mitigation and mi	nimization measures
B, pages 2-coordination with NRCS 1.56 acres of active fa alternatives local import	desktop review, a site 5), the project will convict letter was sent on Decresulted in a score of 1 of prime and unique far rmland. NRCS's thres is 160. Since this project ant farmland will resurt the investigated without the surface of the site o	rert 2.1 acres of fa cember 11, 2020, the 51 on the AD 100 mland will be impa shold score for signer fect score is less the lt from this project	rmland as det to Natural Res 6 Form (Appe acted and the gnificant impa an the thresho ct. No alterna	fined by the Farm sources Conserva ndix C, pages 28 proposed project acts to farmland old, no significant tives other than	nland Protection ation Services (N -29). The NRCS will acquire app that result in the loss of prime, u	Policy Act. An early NRCS). Coordination S-CPA 106 indicated roximately 2.1 acres the consideration of unique, statewide, or
This is pag	e 23 of 38 Project nam	a· SR 124 HMA O	verlay and Preve	ntive Maintenance	Date: Aug	just 13, 2021
rins is pay	5 _0 01 00 1 10J00t Halli	J	, 1000		Date	, · · · , – · – ·

County	<u>Miami</u>	Route	SR 124		Des. N	No. <u>1800552</u>	
SECTION	ON D – CULTURAL RESC	URCES					
ı		egory(ies) and Typ B-9	e(s)		INDOT Appi April 16, 202	roval Date(s)	NA
F	ull 106 Effect Finding No Historic Properties Affe	cted N	lo Adverse E	Effect	Adverse E	ffect	
E	igible and/or Listed Resour NRHP Building/Site/District		rchaeology	X	NRHP Brid	dge(s)	
D	APE, Eligibility and Effect De 800.11 Documentation Historic Properties Report or Archaeological Records Che Archaeological Phase Ia Sur Archaeological Phase Ic Sur Other:	Short Report ck and Assessment vey Report	X	April 16, 2021	al Date(s) S	SHPO Approval Da	ite(s)
	Memorandum of Agreement	(MOA)		MOA Signatu	ire Dates (Lis	t all signatories)	
II Section cal news	ct falls under the MPPA, desc 106, use the headings provid papers. Please indicate the pu 6 work which must be comple	led. The completion ablication date, name	of the Section	on 106 process er(s) and the co	requires that a mment period	a Legal Notice be p deadline. Include a	ublished in
On Apr	il 16, 2021 the INDOT Cul	tural Resource Of	fice (CRO)	determined th	nat this proje	ct falls within the	guidelines of

Category B, Types 1 and 9 under the Minor Projects Programmatic Agreement (Appendix D, pages 1-20), Category B-1 includes replacement, repair, or installation of curbs, curb ramps, or sidewalks, including when such projects are associated with roadway work such as surface replacement, reconstruction, rehabilitation, or resurfacing projects, including overlays, shoulder treatments, pavement repair, seal coating, pavement grinding, and pavement marking. Category B-9 includes installation, replacement, repair, lining, or extensions of culverts and other drainage structures.

Francis Godfroy Cemetery is located within 100 feet of the project area and is noted as an individually eligible above ground resource in the MPPA documentation (Appendix D, page 5). Coordination with INDOT CRO has occurred. Although construction will occur adjacent to the cemetery, no earth disturbing activities will occur within 100 feet of the cemetery and no Cemetery Development Plan is required. This was confirmed with INDOT CRO on July 12, 2021 (Appendix D, page 26). This property is a Section 4(f) resource as it is on or determined eligible for listing on the NRHP.

With regard to above-ground resources, an INDOT Cultural Resources historian who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 performed a desktop review, checking the Indiana Register of Historic Sites and Structures (State Register) and National Register of Historic Places (NRHP) lists for Miami and Wabash County. One listed resource is located immediately adjacent to the HMA portion of the project area only: NR-0644, Francis Godfroy Cemetery, 1812, listed in 1984 under Criteria A and B.

The Indiana Historic Sites and Structures Inventory (IHSSI) and NRHP information for Miami and Wabash County are available in the Indiana State Historic Architectural and Archaeological Research Database (SHAARD) and the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM). The Miami County Interim Report (1998; Washington, Peru, Butler, and Erie Township) of the Indiana Historic Sites and Structures Inventory (IHSSI) was also consulted. An INDOT-

This is page 24 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
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County Miami	Route	SR 124	Des. No.	1800552

CRO historian reviewed the SHAARD online map and checked it against the Interim Report hard-copy maps. Five resources rated higher than "contributing" are located immediately adjacent to the HMA portion of the project area only:

- IHSSI# 103-507-34320, House, 225 E. Riverside St., Colonial Revival, c. 1875/1945, rated "Notable;"
- IHSSI# 103-079-47004, L. Cole Farm, Colonial Revival, c. 1915, rated "Notable;"
- IHSSI# 103-504-45005, Ben Wallace Farm, Italianate, c. 1870, rated "Notable;"
- IHSSI# 103-537-47(001-018), Godfroy-Cole Rural Historic District;
- IHSSI# 103-537-47001, Francis Godfroy Cemetery, c. 1812-Present, rated "Outstanding."

According to the IHSSI rating system, generally properties rated "contributing" do not possess the level of historical or architectural significance necessary to be considered individually NHRP-eligible, although they would contribute to a historic district. If they retain material integrity, properties rated "notable" might possess the necessary level of significance after further research. Properties rated "outstanding" usually possess the necessary level of significance to be considered NHRP- eligible if they retain material integrity. These properties are potential Section 4(f) resources as they are notable or outstanding properties potentially eligible for listing on the NRHP.

Between December 8, 2020, and March 11, 2021, Cultural Resource Analysts, Inc., personnel conducted a Phase Ia archaeological reconnaissance for the proposed project. Archaeological reconnaissance was performed in these areas of the proposed construction, as well as within existing right-of-way in the vicinity of previously reported sites mapped near the overlay and drainage improvement areas. The survey area encompasses a total of approximately 5.32 ha (13.14 acres) of existing right-of-way, residential lawns, commercial lawns, and agricultural fields. The survey area was investigated in its entirety with screened shovel testing, bucket augering, intensive pedestrian survey, and visual inspection of obviously disturbed areas. Prior to initiating the fieldwork, a records review was conducted utilizing data from the Indiana Division of Historic Preservation and Archaeology. In total, 13 previously recorded sites are situated within, or in close proximity to, the current survey and hot mix asphalt overlay and drainage improvement areas. The records search also showed that portions of the survey area were previously investigated during investigations completed in 1984, 1993, 2011, and 2020. The previously surveyed areas were reinvestigated during the current survey.

As a result of the current survey, eight sites were documented. Site 12Mi159 and the portions of Sites 12Mi123, 12Mi143, 12Mi170, 12Mi175, and 12Mi897 within the survey area are recommended not eligible for listing in the NRHP. No further work is recommended within the survey area for these sites.

The NRHP eligibility of Site 12Mi222, a house/trading post associated with Francis Godfroy and a historic Miami occupation, could not be assessed with the data collected during the current investigation. Avoidance of this site is recommended. Project disturbances in the vicinity of Site 12Mi222 are limited to the existing pavement and therefore no further work is recommended at this location. Site 12Mi222 will be included on the project plans to be avoided.

Site 12Mi896 is a lithic scatter of indeterminate temporal/cultural affiliation and a historic farmstead with a mid-nineteenth-through twentieth-century component. The NRHP eligibility of the site could not be assessed with the data derived from the current investigation. It is recommended that a portion of the site that includes the footprint of a former residence be avoided or subjected to a Phase II NHRP assessment. Construction activities associated with the relocation of UNT 1 to Mississinewa River, driveway culvert replacement and the shoulder widening and new driveway at this site are outside the footprint of the former residence. The footprint of the former residence will be included on the project plans to be avoided. No additional work appears warranted at the remaining areas within the site's recorded boundary (Appendix D, pages 21-25).

A firm commitment has been included in this CE document to mark sites (12Mi222 & 12Mi896) on plan maps as "environmentally sensitive-do not disturb". These sites are to be avoided by all construction activities. This project will be flagged for a future quality assurance review to ensure that these commitments are maintained.

This report recommended archaeological clearance for the project and was approved by INDOT CRO on April 16, 2021. No further consultation is required. This completes the Section 106 process and the responsibilities of the FHWA under Section 106 have been fulfilled.

This is page 25 of 38	Proiect name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
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County Miami Rout	e SR 124	Des. No. <u>1800552</u>
SECTION E - SECTION 4(f) RESOURCES/ SEC	CTION 6(f) RESOURCES	
Parks and Other Recreational Land Publicly owned park Publicly owned recreation area Other (school, state/national forest, bikeway, etc.) Wildlife and Waterfowl Refuges National Wildlife Refuge National Natural Landmark State Wildlife Area State Nature Preserve Historic Properties Site eligible and/or listed on the N	Presence Use Yes No	
Programmatic Section 4(f) "De minimis" Impact Individual Section 4(f) Any exception included in 23 CFR 774.13	Evaluations Prepared	

Discuss Programmatic Section 4(f) and "de minimis" Section 4(f) impacts in the discussion below. Individual Section 4(f) documentation must be included in the appendix and summarized below. Discuss proposed alternatives that satisfy the requirements of Section 4(f). FHWA has identified various exceptions to the requirement for Section 4(f) approval. Refer to 23 CFR § 774.13 - Exceptions.

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

Based on a desktop review, the aerial map of the project area (Appendix B, pages 2-5), the RFI report (Appendix E, pages 2 and 10), and early coordination response from IDNR (Appendix C, page 11) there are 14 recreational facilities, trails, or managed lands which are potential 4(f) resources located within the 0.5 mile search radius. One recreational facility, one recreational trail, two managed lands, one archaeological site, and one NRHP listed cemetery are located within or adjacent to the project area and are discussed below. According to additional research and the site visit on October 20, 2020 by HNTB, that number was confirmed. Unless discussed below no Section 4(f) use will occur.

According to the IDNR-DFW early coordination response letter dated January 8, 2021 and March 16, 2021 (Appendix C, pages 11-14 and 40-41), the Natural Heritage Program's Database has been checked. Two managed lands are documented within one-half mile of the project area. Frances Slocum State Forest managed by IDNR and the Mississinewa Emergency Spillway managed by the USACE are both within one-half mile of the project area. The Frances Slocum State Forest is located generally south and west of the project area with the closest point being approximately 640 feet west of the SR 124 at County Road S 625 E. SR 124 bisects the Mississinewa Spillway just west of County Road S 675 E approximately 425 feet east of the project terminus. See below for further discussion.

Recreational Facility

The Frances Slocum Trail Riders, Inc., is a private recreational campground mapped as a recreational facility. This campground is not a Section 4(f) resource as it is privately owned. This campground is located adjacent to the project area and no right-of-way will be required from this parcel. An early coordination letter and project mapping was sent via email to the Owners/Managers of the Frances Slocum Trail Riders, Inc. on December 11, 2020 (Appendix C, pages 1-4). No response was received. This campground is not a Section 4(f) resource, no right-of-way will be acquired from this

This is page 26 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
THIS IS DAUG ZO UL JO	FIORCI Hame.	OIX 124 HIVIA OVEHAY AND HIEVERILIVE MAINLEHANCE	Date.	August 15, 2021	

County	Miami	Route	SR 124	Des. No.	1800552	

property, and no Section 4(f) use is expected.

Recreational Trail

The nearest recreational trail, River Walkway Park Trail, is located approximately 0.07 mile northwest of the project area on the north side of the Wabash River. This trail is owned and operated by the City of Peru Parks Department. This trail is an eight-foot wide paved walkway along the Wabash River between Holman Street to Broadway/SR 19 and is part of the River Walkway Park (Appendix F, page 3). An early coordination letter and project mapping was sent to the City of Peru on December 11, 2020 (Appendix C, pages 1-4). No response was received. This trail is a Section 4(f) resource because it is a publicly owned recreational facility and open to the public; however, no right-of-way will be acquired from this property and no Section 4(f) use is expected.

Managed Lands

The Mississinewa Emergency Spillway is located 425 feet east of the project termini on the east side of County Road S 675 E and is noted as a managed land. The Mississinewa Emergency Spillway is a publicly owned property that is part of the a larger Mississinewa Lake. Mississinewa Lake operates as a unit with the J. Edward Roush and Salamonie lakes to reduce flood stages in the Upper Wabash Basin. Mississinewa Lake was designed and built by the USACE and both the Miami and Frances Slocum state recreation areas (SRA) are associated with this property. Lake Mississinewa is a Section 4(f) property; however, the purpose of the Emergency Spillway is not recreational and there are no trails or recreational resources associated with the spillway. However, there is the potential for passive recreation use of this area as part of the Mississinewa Reservoir recreational area. Coordination with USACE Section 408 Coordinator and Lake Mississinewa occurred on April 15, 2021 via USPS and email (Appendix C, pages 5-7). No response was received. The Mississinewa Lake property is a Section 4(f) resource as it is a publicly owned recreational area; however, no right-of-way will be acquired from this property and no Section 4(f) use is expected.

The Frances Slocum State Forest also noted as the Frances Slocum State Recreation Area is located generally south and west of the project area with the closest point being approximately 640 feet west of the SR 124 at County Road S 625 E. This area is noted with a bridle trail, hiking, hunting and fishing opportunities and is part of the larger Mississinewa Lake recreational area. Frances Slocum State Forest is Section 4(f) property; as it is a publicly owned recreational area; however, no right-of-way will be acquired from this property and no Section 4(f) use is expected.

Cultural Resources

With regards to cultural resource sites eligible and/or listed on the NRHP, eight archaeological sites were documented within the project area in the Phase Ia Archaeological Reconnaissance for Proposed Road Improvements along SR 124 from SR 19 to approximately 425 feet west of CR S 675 E in Miami County, Indiana. Of these, two sites could not be fully evaluated, and avoidance of the sites was recommended. For further discussion of these site see the Cultural Resources section. No right-of-way will be acquired from the historic property boundary for these sites and no Section 4(f) use is expected. A firm commitment has been included in this CE document to mark sites (12Mi222 & 12Mi896) on plan maps as "environmentally sensitive-do not disturb". These sites are to be avoided by all construction activities.

With regard to above-ground resources, an INDOT Cultural Resources historian who meets the Secretary of the Interior's Professional Qualification Standards identified one listed resource located immediately adjacent to the HMA portion of the project area: NR-0644, Francis Godfroy Cemetery, 1812, listed in 1984 under Criteria A and B.

The IHSSI and NRHP information for Miami and Wabash County are available in the SHAARD and the IHBBCM. The Miami County Interim Report (1998; Washington, Peru, Butler, and Erie Township) of the IHSSI was also consulted. An INDOT-CRO historian identified five resources rated higher than "contributing" located immediately adjacent to the HMA portion of the project area as sites that usually possess the necessary level of significance to be considered NHRP-eligible:

IHSSI# 103-507-34320, House, 225 E. Riverside St., Colonial Revival, c. 1875/1945, rated "Notable;"

IHSSI# 103-079-47004, L. Cole Farm, Colonial Revival, c. 1915, rated "Notable;"

IHSSI# 103-504-45005, Ben Wallace Farm, Italianate, c. 1870, rated "Notable;"

This is page 27 of 38	Proiect name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
11115 15 DAUG Z1 UI 30	FIUICUL HAIHE.	or 124 min Overlay and rickeritive maintenance	Date.	August 10, 2021	

	Indiana Depai	rtment of Trans	sportation		
County Miami	Route	SR 124	Des. No	o. <u>1800552</u>	
`	l-018), Godfroy-Cole Ru , Francis Godfroy Cemet	•		g."	
For further discussion of the property boundary for these			. No right-of-way will	be acquired from the hi	istorio
Section 6(f) Involvem	ent		<u>Presence</u>	<u>Use</u>	
Section 6(f) Property				Yes No	
Discuss Section 6(f) resources pr will occur, discuss the conversion		ss if any conversion	would occur as a resul	t of this project. If conversi	ion
The U.S. Land and Water 0 which was created to prese prohibits conversion of land	rve, develop, and assure	accessibility to out	tdoor recreation reso		
A review of 6(f) properties Recreation Area, Mississin Emergency Spillway is loca of existing pavement only, v	newa Reservoir) in Mia ted within or adjacent to	ami County (Appe the project area. P	ndix I, page 10). Toject impacts in this	The Mississinewa Res area include mill and ov	ervoi

This is page 28 of 38

Project name:

SR 124 HMA Overlay and Preventive Maintenance

Date: August 13, 2021

County	Miami	Route	SR 124	Des. No1800552
SECTION F	– Air Quality			
Is the Is	FIP and Conformity Status project in the most current sproject located in an MPO Aproject in an air quality nonst, then: he project in the most curre he project exempt from con No, then: Is the project in the Transports a hot spot analysis requires	STIP/TIP? Area? -attainment or ma nt MPO TIP? formity? ortation Plan (TP		Yes No X X X X X C C C C C C C C C C C C C C
Location	on in STIP:			Appendix H, page 1
Name	of MPO (if applicable):			NA
Location	on in TIP (if applicable):			NA
Level	of MSAT Analysis required?	?		
Level	1a X Level 1b	Level 2	Level 3	Level 4 Level 5
located. Indicate		npt from a confor	mity determina	attainment status of the county(ies) where the project is ation. If the project is not exempt, include information about evel.
This project (Appendix H		al Year (FY) 2	020-2024 Sta	atewide Transportation Improvement Program (STIP)
of Air Qua		<mark>//idem/airqualit</mark> y		ment for all criteria pollutants according to IDEM Office inment county list.pdf). Therefore, the conformity
				oup 1) under 23 CFR 771.117(c), or exempt under the a Mobile Source Air Toxics analysis is not required.
SECTION G	- NOISE			
Noise				Yes No
		cordance with FH	WA regulation	s and INDOT's traffic noise policy?
	Noise Analysis was approve		_	
	, , , , , ,	,	, -	
				describe the studies completed to date and if noise impacts asible and reasonable and include a statement of likelihood.
	is a Type III project. In a Analysis Procedure, this			and the current <i>Indiana Department of Transportation</i> prmal noise analysis.
		00.45		
This is page	e 29 of 38 Project name:	SR 124 HMA (Overlay and Prev	ventive Maintenance Date: August 13, 2021

County	Miami	Route	SR 124	Des. No.	1800552	
SECTION H	- COMMUNITY IMPA	стѕ				
Regio	onal, Community & Neig	hborhood Factors	i		Yes	No
Will the proposed action comply with the local/regional development patterns for the area?						
Will the proposed action result in substantial impacts to community cohesion?						X
Will th	e proposed action result	in substantial impac	cts to local tax base	e or property values?		X
Will construction activities impact community events (festivals, fairs, etc.)?						Х
Does the community have an approved transition plan?					X	
If	No, are steps being made	to advance the co	mmunity's transitio	n plan?		
Does	the project comply with the	ne transition plan? (explain in the discu	ission below)	Х	

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 project is located in the City of Peru and rural areas of Miami County. The proposed project will require acquisition of approximately 2.4 acres of new permanent right-of-way from agricultural and wooded lands. The right-of-way acquisition is not anticipated to have a substantial impact on the tax base or property values. The project will not result in substantial impacts to community cohesion, there will be no relocations, and the project will not divide existing neighborhoods or change community access. There may be temporary inconveniences associated with construction, such as increased travel times, construction, noise, and fugitive dust. However, these will cease upon completion of construction activities.

According to the Fairs and Festivals website (www.fairsandfestivals.net), the Indiana Festivals website (https://www.indianafestivals.org/), the Miami County Tourism, Miami County, Indiana website (enjoymiamicounty.org), accessed on April 7, 2021 by HNTB, there are multiple regularly scheduled festivals and reoccurring events located within Peru and Miami County including the Cole Porter Festival (June), the Miami county 4-H Fair (June), the Circus City Festival & Circus Hall of Fame (July), Miami Days at the Pillars (August), Mississinewa 1812 (October), Octoberfest (October), and the Quigley Jazz Jam Fest (November).

The project includes a phased maintenance of traffic plan that allows for traffic to be maintained with single lane closures utilizing a temporary signal or flagging operations for the HMA overlay. For the construction of cross culverts, a roadway closure with a temporary detour will be required. Detours will be clearly marked and should not substantially impair travel routes to these fairs and festivals as the closure will be two to three weeks per crossing for the pipe culverts and four to eight weeks for the box culverts. Access to individual properties will be maintained, but typical delays in construction zones with reduced speeds and potential restrictions can be expected during construction of the project. Road closure / detour expected on or about [date] signage will be placed along the project corridor at least two weeks prior to implementation of road closures. Traffic advisories will also be shared on INDOT social media as warranted.

The City of Peru's most recent Americans with Disabilities (ADA) transition/accessibility implementation plan was adopted in 2020 (https://www.cityofperu.org/egov/documents/1601477106 82871.pdf). The project will be designed in accordance with the plan and all applicable ADA requirements.

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.

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, pages 2-5), and the RFI report (Appendix E. pages 2 and 10), there are two cemeteries, one school, 10 recreational facilities, one pipeline. one railroad, two trails. and two managed lands located within 0.5 mile of the project. One recreational facility, one railroad, one cemetery, one

This is page 30 of 38 Project name: SR 124 HMA Overlay and Preventive Maintenance Date: August 13, 2021

County	Miami	Route	SR 124	Des. No.	1800552	

recreational trail, and two managed lands are located within or adjacent to the project area and are discussed below. That number was confirmed by the site visit on October 20, 2020 by HNTB. Unless discussed below no impact will occur.

Recreational Facility

The Frances Slocum Trail Riders is a private campground noted as a recreational facility. This campground is located adjacent to the project area. An early coordination letter and project mapping was sent via email to Mrs. Jamie and Mr. Ron McFarland, Owners/Managers, Frances Slocum Trail Riders, Inc. on December 11, 2020 (Appendix C, pages 1-4). No response was received.

Railroad One unknown former railroad crosses the project area. Coordination with INDOT Utilities and Railroads occurred (Appendix C, pages 1-4). No response was received.

Cemetery

Francis Godfroy Cemetery is located within 100 feet of the project area and is noted as an individually eligible above ground resource in the MPPA documentation (Appendix D, page 5). Coordination with INDOT CRO has occurred. Although construction will occur adjacent to the cemetery, no earth disturbing activities will occur within 100 feet of the cemetery and no Cemetery Development Plan is required. This was confirmed with INDOT CRO on July 12, 2021 (Appendix D, page 26).

Recreational Trail

The nearest recreational trail, River Walkway Park Trail, is located approximately 0.07 mile northwest of the project area on the north side of the Wabash River terminating on the western side of SR 19 (Appendix F, page 3). This trail is owned and operated by the City of Peru Parks Department. This trail is an eight foot wide paved walkway along the Wabash River between Holman Street to Broadway/SR 19 and is part of the River Walkway Park (Appendix F, page 3). An early coordination letter and project mapping was sent to the City of Peru on December 11, 2020 (Appendix C, pages 1-4). No response was received. No impact is expected.

Managed Lands

The Mississinewa Emergency Spillway lies adjacent to the project area and is noted as a managed land. The Frances Slocum State Forest is also noted adjacent to the project area. Coordination with USACE Section 408 Coordinator and Lake Mississinewa occurred on April 15, 2021 via USPS and email (Appendix C, pages 5-7). No response was received. During the closure and detour access to the Mississinewa Lake recreational areas will be limited to access from SR 13 to the east or SR 19 to the west. The project sponsor will notify the Mississinewa Reservoir and associated recreational areas at least two weeks prior to any construction that would block or limit access. This is included in this document as a firm commitment. In addition, road closure / detour expected on or about [date] signage will be placed along the project corridor at least two weeks prior to implementation of road closures. Traffic advisories will also be shared on INDOT social media as warranted. The closures/lane restrictions will pose a temporary inconvenience to traveling motorists; however, no significant delays are anticipated, and all inconveniences and delays will cease upon project completion.

Airports

Although not located within 0.5 mile of the project, there is one public-use airport, the Mississinewa Reservoir Airport, located 2.34 miles away from the project. This airport is for use by sea planes only. Coordination with INDOT Aviation occurred. On December 14, 2020 INDOT Aviation indicated they found no issues with the any surrounding airspace or public use airports (Appendix C, page 27).

The proposed project in the vicinity of these facilities will be limited to the HMA overlay. No right-of-way will be acquired from any of these facilities. Therefore, no impacts are expected. Access to all properties will be maintained during construction.

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.

This is page 31 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
				•	

County	Miami	Route	SR 124	Des	s. No.	1800552	
	vironmental Justice (EJ) (F					Yes	No
Do	ring the development of the pes the project require an EJ		ues identified?			X	^
IT Y	'ES, then: Are any EJ populations lo		,			X	
	Will the project result in a	dversely high and o	disproportionate in	npacts to EJ population	ons?		X

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

Under FHWA Order 6640.23A, FHWA and the project sponsor, as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT Categorical Exclusion Manual, an Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 acre of additional permanent right-of-way. The project will require acquisition of 2.4 acres of permanent right-of-way and no relocations. Therefore, an EJ Analysis is required.

Potential EJ impacts are detected by locating minority and low-income populations relative to a reference population to determine if populations of EJ concern exists and whether there could be disproportionately high and adverse impacts to them. The reference population may be a county, city or town and is called the community of comparison (COC). In this project, the COC is Miami County. The community that overlaps the project area is called the affected community (AC). In this project, the AC is Census Tracts 9525, 9526, and 9527. An AC has a population of concern for EJ if the population is more than 50% minority or low-income or if the low-income or minority population is 125% of the COC. Data from the 2019 American Community Survey (5-year estimate data) was obtained from the US Census Bureau Website https://data.census.gov on March 25, 2021 by HNTB. The data collected for minority and low-income populations within the AC are summarized in the below table and Appendix I, pages 1-9.

Table 1: Minority and Low-Income Data (American Community Survey, 2019)						
	COC:	AC 1:	AC 2:	AC 3:		
	Miami County	Census Tract 9525	Census Tract 9526	Census Tract 9527		
Percent Minority	11.3%	22.0%	5.5%	1.9%		
125% of COC	14.1%	AC > 125% COC	AC > 125% COC	AC > 125% COC		
EJ Population of Concern		Yes	No	No		
Percent low-income	15.3%	33.8%	11.1%	12.8%		
125% of COC	19.1%	AC > 125% COC	AC > 125% COC	AC > 125% COC		
EJ Population of Concern		Yes	No	No		

Census Tract 9525 has a percent minority of 22.0%, which is below 50% but is above the 125% COC threshold. Therefore, Census Tract 9525 contains minority populations of EJ concern.

Census Tract 9525 has a percent low-income of 33.8%, which is below 50% but is above the 125% COC threshold. Therefore, Census Tract 9525 contain low-income populations of EJ concern.

Census Tract 9526 has a percent minority of 5.5%, which is below 50% and is below the 125% COC threshold. Therefore, Census Tract 9526 does not contain minority populations of EJ concern.

Census Tract 9526 has a percent low-income of 11.1%, which is below 50% and is below the 125% COC threshold. Therefore, Census Tract 9526 does not contain low-income populations of EJ concern.

Census Tract 9527 has a percent minority of 1.9%, which is below 50% and is below the 125% COC threshold. Therefore, Census Tract 9527 does not contain minority populations of EJ concern.

Census Tract 9527 has a percent low-income of 12.8%, which is below 50% and is below the 125% COC threshold. Therefore, Census Tract 9527 does not contain low-income populations of EJ concern.

<u>Conclusion:</u> The proposed project includes application of a HMA overlay and preventive maintenance of SR 124, including curb ramp construction and drainage improvements. In addition, three existing cross culverts and one driveway culvert in the corridor will be replaced in kind and one new cross culvert and drainage channel will be constructed. Overall, the

This is page 32 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021

County	Miami	Route	SR 124		Des. I	No1	1800552
AC1 – Census of new right-o	Tract 9525, where m	ninority and low ir no changes in	ncome EJ pop access to re	ulations wei sidential or	re identified, community	will not	project that will occur in require any acquisition ties, and the identified impact from the project
page 1). INDO relocations, an ESD would no on minority an	OT ESD stated, "With ad would not disrupt co t consider the impact	the information ommunity cohesion s associated with lations of EJ con	provided, the on or create a this project a cern relative to	project maphysical bares causing a non EJ po	y require m rier. With the disproportic pulations in	iinimal re e informonately l accorda	J analysis (Appendix I right-of-way, require no lation provided, INDOT- high and adverse effect ance with the provisions
Will the	ion of People, Busines proposed action result i or CSRS required?		people, busines	sses or farms	?		Yes No
Number	of relocations: Re	sidences: 0	Businesse	es: <u>0</u>	Farms: 0	<u> </u>	Other: 0
Discuss any reloca	tions that will occur due	to the project. If a	BIS or CSRS is	s required, di	iscuss the res	ults in th	ne discussion below.
No relocations	of people, businesse	es, or farms will t	ake place as a	result of th	is project.		
SECTION I -	HAZARDOUS MATE	RIALS & REGU	LATED SUBS	TANCES			
<u>и</u>					Docu	mentati	on
Red Flag Phase I Phase II Design/S	pus Materials & Regula g Investigation (RFI) Environmental Site Ass Environmental Site Ass Specifications for Reme	essment (Phase I sessment (Phase I diation required?	ESA) I ESA)		<u> </u>	X	<u>on</u>
Date RF	I concurrence by INDO	т БАМ (п арріісав	le): <u>April 16,</u>	2021			
adjacent to, or one	of the potential hazard s that could impact the antities, etc.) will be nee	project area. Refe	r to current IND	OT SAM gui	dance. If add	ditional d	
pages 5 and (TSD) sites, o (VRP) site, se Pollutant Discl	13). Two Resource C ne State Cleanup Sit ven Leaking Undergr	Conservation and e, 13 Undergrou ound Storage (LI stem (NPDES) Fa	Recovery Ac nd Storage Ta JST) Sites, on acilities, and 2	ct (RCRA) (ank (UST) s ie tire waste	Generator/ T sites, one Vo site, four B	reatme oluntary rownfie	by HNTB (Appendix E nt, Storage & Disposa Remediation Program lds sites, eight Nationa ocated within 0.5 mile o

Live Bait & Sports Goods (14 Wallace Row, Peru, IN 46970, AI ID# 44595) is located adjacent to the project area in the northwest corner of Wallace Row and SR 124. According to the IDEM Virtual File Cabinet (VFC), a Limited Subsurface Investigation Report was requested on May 26, 2017 due to petroleum contaminants detected during closure activities which were completed on May 17, 1990. No additional documentation was available in the VFC after this request. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary.

One LUST site is located is located within the project limits and could potentially affect this project. The Former Buck's

One NPDES facility, Ken Combs Storage Units (9 West Riverside Drive, Peru, IN 46970, Al# 118132/INR10N409), is

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This is page 33 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	
		Version: April 2021			

indiana Department of Transportation							
County	Miami	Route	SR 124	Des. No.	1800552		
					be terminated on March 6, May 4, 2021. No response		
combined Sewer part of the early to be included of page 32). Peru land Rule 5 Const	er Overflow, are locate coordination process. on future coordination Utilities was also includ	ed adjacent to Peru Utilities i and copied o led in the preli d Erosion Cor	the project area. (Indicated INDOT sh In the Stormwater F minary field check introl permit will be c	Coordination with Peru rould have their own MS Pollution Prevention Pla meeting. A SWPPP will	n Street/East Canal Street Utilities was completed as 64 requirements and asked an (SWPPP) (Appendix C, be prepared for the project Copies of the SWPPP will		

SR 124 HMA Overlay and Preventive Maintenance

This is page 34 of 38 Project name:

____ Date: __August 13, 2021

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County Miami	Route	SR 124	Des. No.	1800552

Part IV - Permits and Commitments

<u>raitiv – reimi</u>	ts and communicates
RMITS CHECKLIST	
Permits (mark all that apply)	Likely Required
Army Corps of Engineers (404/Section10 Permit)	
Nationwide Permit (NWP)	
Regional General Permit (RGP)	
Individual Permit (IP)	
Other	
IN Department of Environmental Management (401/Rule 5)	
Nationwide Permit (NWP)	
Regional General Permit (RGP)	
Individual Permit (IP)	
Isolated Wetlands	
Rule 5	X
Other	
IN Department of Natural Resources	
Construction in a Floodway	X
Navigable Waterway Permit	
Other	
Mitigation Required	X
US Coast Guard Section 9 Bridge Permit	
Others (Please discuss in the discussion below)	

List the permits likely required for the project and summarize why the permits are needed, including permits designated as "Other."

A Rule 5 Sediment and Erosion Control Permit will be required, as greater than 0.9 acre of earth disturbing activity will occur.

An IDNR Construction in a Floodway Permit will be required due to construction of the new drainage ditch to the Mississinewa River. Mitigation is anticipated for removal of trees within the floodway.

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:

- If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services
 Division (ESD) and the INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT
 District)
- 2. It is the responsibility of the project sponsor to notify school corporations, emergency services, the Mississinewa Reservoir/State Park including the Miami State Recreation Area and the Frances Slocum State Forest/Recreation Area and the Frances Slocum State Forest at least two weeks prior to any construction that would block or limit

This is page 35 of 38 Project name	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	

County	Miami	Route	SR 124	Des. No.	1800552	
-	-		•			

access. (INDOT ESD)

- 3. Concerning nutrient impairment and Impaired Biotic Communities (IBC), Best Management Practices (BMPs) will be used to avoid further degradation to the UNT 2 to Wabash. (INDOT SAM)
- 4. UNT 2 to Wabash 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)
- 5. Mississinewa River and UNT 2 to the Wabash River are impaired for PCBs in fish tissue. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. Workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT ESD SAM will occur. (INDOT SAM)
- 6. 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)
- 7. A "Reinitiation Notice" is required if: more than 0.08 acre of trees are to be cleared; the amount or extent of incidental take of Indiana bat and/or northern long-eared bat is exceeded; new information about listed species is encountered; new species is listed or critical habitat designated that the project may affect; the project is modified in a manner that causes an effect to the listed species; or, new information reveals that the project may affect listed species or critical habitat in a manner not considered in the BO or the project information. (USFWS)
- 8. Contractors must take care when handling dead or injured bats (regardless of species), and any other federally listed species that are found at the Project site in order to preserve biological material in the best possible condition and protect the handler from exposure to diseases, such as rabies. Project personnel are responsible for ensuring that any evidence about determining the cause of death or injury is not unnecessarily disturbed. Reporting the discovery of dead or injured listed species is required in all cases to enable the Service to determine whether the level of incidental take exempted by the BO is exceeded, and to ensure that the terms and conditions are appropriate and effective. Parties finding a dead, injured, or sick specimen of any bat (regardless of species), or other endangered or threatened species, must promptly notify the USFWS Bloomington Field Office at (812) 334-4261. (USFWS)
- 9. The INDOT Project Manager will assure that \$1,308.30 of Preliminary Engineering funds will be allocated to the Rangewide In-Lieu Fee Program, administered by The Conservation Fund, to resolve formal consultation under the Rangewide Programmatic (0.08 acre X 1.75 x \$9,345 = \$1,308.30). Payment shall be in process for Ready for Contracts (RFC) date. (INDOT-ESD, USFWS)
- 10. TREE REMOVAL AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 11. LIGHTING AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 12. 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)
- 13. 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)
- 14. The Former Buck's Live Bait & Sports Goods (14 Wallace Row, Peru, IN 46970, AI ID# 44595) is located adjacent to the project area in the northwest corner of Wallace Row and SR 124. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater may be necessary. (INDOT SAM)
- 15. Provide City of Peru and Peru Utilities for copies of the SWPPP and Rule 5 application for comments. (Peru Utilities)
- 16. Sites (12Mi222 & 12Mi896) on plan maps must be marked as "environmentally sensitive-do not disturb". These sites are to be avoided by all construction activities. (INDOT CRO)
- 17. In addition to implementing standard erosion control measures to minimize impacts to mussel species, there should

This is page 36 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021
			_	

Indiana Department of Transportation

County	Miami	Route	SR 124	Des. No.	1800552	

also be no heavy equipment used in the river for construction of the new ditch and outfall. (IDNR)

18. USFWS Bridge/Structure Assessment shall take place no earlier than two (2) years prior to the start of construction. If construction will begin after October 20, 2022 (or the date of inspection, plus 2 years), 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."

For Further Consideration:

- 19. The loss of riparian trees should be mitigated as close to the project impact site as possible, preferably along the Mississinewa River or the nearby Wabash River. See the woodland mitigation guidelines of the Indiana Department of Natural Resources contained in their Information Bulletin #17 (http://www.in.gov/legislative/iac/20200527-IR-312200284NRA.xml.pdf) which states that the mitigation ratio for non-wetland floodway forest losses of more than 1 acre is to be 2:1 (2 acres replanted for every acre destroyed), planted as close to the impact site as possible; loss of less than an acre is to be mitigated at a 1:1 ratio or 5 trees for each lost tree of 10 inches dbh or greater. If any of the woodland that would be removed is forested wetland, the mitigation ratio is 4:1. This tree replacement requirement is not related to any mitigation needed for potential impact to the Indiana bat or northern long-eared bat under the range-wide programmatic informal consultation process. (USFWS)
- 20. Restrict below low-water work in streams to placement of culverts, piers, pilings and/or footings, shaping of the spill slopes around the bridge abutments, and placement of riprap. (USFWS)
- 21. Culverts should span the active stream channel, should be either embedded or a 3-sided or open-arch culvert, and be installed where practicable on an essentially flat slope. When an open-bottom culvert or arch is used in a stream, which has a good natural bottom substrate, such as gravel, cobbles and boulders, the existing substrate should be left undisturbed beneath the culvert to provide natural habitat for the aquatic community. (USFWS)
- 22. Minimize the extent of hard armor (riprap) in bank stabilization by using bioengineering techniques whenever possible. If riprap is utilized for bank stabilization, extend it below low-water elevation to provide aquatic habitat. (USFWS)
- 23. Avoid all work within the inundated part of the stream channel during the fish spawning season (April 1 through June 30); except for work within sealed structures such as caissons or cofferdams that were installed prior to the spawning season. No equipment shall be operated below Ordinary High Water Mark during this time unless the machinery is within the caissons or on the cofferdams. (USFWS)
- 24. Evaluate wildlife crossings under bridge/culverts projects in appropriate situations. Suitable crossings include flat areas below bridge abutments with suitable ground cover, high water shelves in culverts, amphibian tunnels and diversion fencing. (USFWS)
- 25. For purposes of maintaining fish and wildlife passage through a crossing structure, the Environmental Unit recommends bridges rather than culverts and bottomless culverts rather than box or pipe culverts. Crossings should: span the entire channel width (a minimum of 1.2 times the OHWM width); maintain the natural stream substrate within the structure; have a minimum openness ratio (height x width / length) of 0.25; and have stream depth, channel width, and water velocities during low-flow conditions that are approximate to those in the natural stream channel. Banklines should be restored within box and pipe structures to allow for wildlife passage above the ordinary highwater mark. (IDNR)
- 26. The new, replacement, or rehabbed structure, and any bank stabilization under the structure, should not create conditions that are less favorable for wildlife passage under the structure compared to the current conditions. If feasible, a larger bridge or culvert opening can allow for the movement of wildlife under the roadway in order to minimize wildlife/vehicle collisions. (IDNR)
- 27. Riprap must not be placed in the active thalweg channel or placed in the streambed in a manner that precludes fish or aquatic organism passage (riprap must not be placed above the existing streambed elevation). Riprap may be used only at the toe of the sideslopes up to the ordinary high water mark (OHWM). The banks above the OHWM

This is page 37 of 38	Project name:	SR 124 HMA Overlay and Preventive Maintenance	Date:	August 13, 2021	

Indiana Department of Transportation

County	Miami	Route	SR 124	Des. No.	1800552
		•	~ ~	nd a mixture of grasses, se	•

must be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to Eastern Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. (IDNR)

- 28. Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees) or by using the 1:1 replacement ratio based on area depending on the type of habitat impacted. (IDNR)
- 29. Do not excavate in the low flow area except for the placement of piers, foundations, and riprap, or removal of the old structure. (IDNR)
- 30. Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds. (IDNR)
- 31. Do not cut any trees suitable for Indiana bat or Northern Long-eared bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30. (IDNR)
- 32. Design for the new ditch outfall should minimize impacts to the riparian woodland along the river. (USFWS)
- 33. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids. (IDNR)

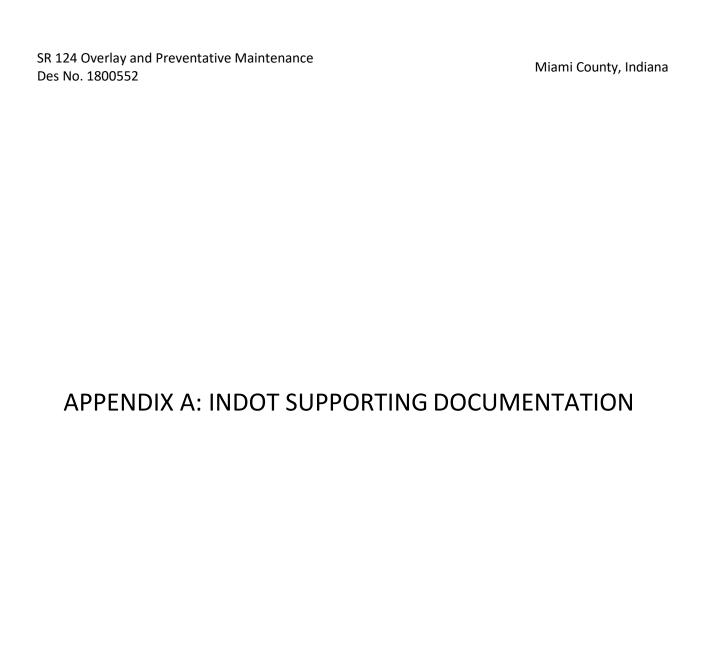
This is page 38 of 38 Project name: SR 124 HMA Overlay and Preventive Maintenance Date: August 13, 2021

Appendix Table of Contents Appendix A: INDOT Supporting Documentation

Categorical Exclusion Level Thresholds Table	1
Appendix B: Graphics	
Project Location Map	1
Project Aerial Maps	2-5
USGS 7.5 Minute Topographic Quadrangle Maps	6-9
Photo Location Maps	11-22
Site Photos (from Waters Report)	23-66
Site Photos (from Initial Field Visit)	68-69
Stage 2 Roadway Plans (Excerpts)	70-101
Appendix C: Early Coordination	
Sample Early Coordination Letter	1-4
Sample Re-coordination Letter	5-7
U.S. Fish and Wildlife Service	8-9
Indiana Department of Natural Resources, Division of Oil and Gas	10
Indiana Department of Natural Resources, Division of Fish and Wildlife	11-14
Indiana Department of Environmental Management, Office of Water Quality	15
Indiana Geological and Water Survey (Automated Response)	16
Indiana Department of Environmental Management (Automated Response)	17-25
INDOT Fort Wayne District	26
INDOT Office of Aviation	27
US Department of Agriculture – Natural Resources Conservation Service	28-29
Peru Utilities (Early Coordination Response)	30-32
Peru Utilities (Re-coordination Response)	33-36
Miami County Plan Commission / Floodplain Administrator	37
U.S. Fish and Wildlife Service (Re-coordination Response)	38-39
Indiana Department of Natural Resources, Division of Fish and Wildlife (Re-coordination Response)	40-41
INDOT Fort Wayne District USFWS Bat Database Check	42
U.S. Fish and Wildlife Service Official Species List	43-48
U.S. Fish and Wildlife Service Range-wide Programmatic Informal (RPIC) Consultation Consistency Verification Letter	49-63
Culvert Inspection Forms submitted for U.S. Fish and Wildlife Service RPIC Consistency Verification Letter	64-73
Excerpts from Culvert Inspection Forms for large culverts within project limits	74-83
U.S. Fish and Wildlife Service Range-wide Programmatic Informal Consultation Consistency Verification Response	84-87
Appendix D: Section 106 of the NHPA	
INDOT-CRO MPPA Category-B Determination Email	1
INDOT-CRO MPPA Category-B Determination Form	2-20
Phase 1a Reconnaissance Report Excerpt	21-25
INDOT-CRO Cemetery Development Plan Coordination	26
Red Flag Investigation	1.12
IDEM Division of Land Early Coordination Response	

Appendix F: Water Resources

Waters of the US Report	1-32
Appendix G: Public Involvement	
Sample Notice of Survey Letter	1-2
Appendix H: Air Quality	
INDOT FY 2020-2024 Statewide Transportation Improvement Program	1
Appendix I: Additional Studies	
Environmental Justice (EJ) Supporting Documentation	1-9
Land and Water Conservation Fund (LWCF) County Listing	10
Abbreviated Engineer's Assessment	11-37



Categorical Exclusion Level Thresholds

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

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

Des. No. 1800552 Appendix A, Page 1 of 1

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

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

⁴ US Army Corps of Engineers Individual 404 Permit

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

⁶ Avoidance and Mitigation Measures (AMMs) determined by the IPAC determination key to be required that are not tree AMMs, bridge AMMs, or structure AMMs.

⁷ 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.

⁸ Potential for causing a disproportionately high and adverse impact.

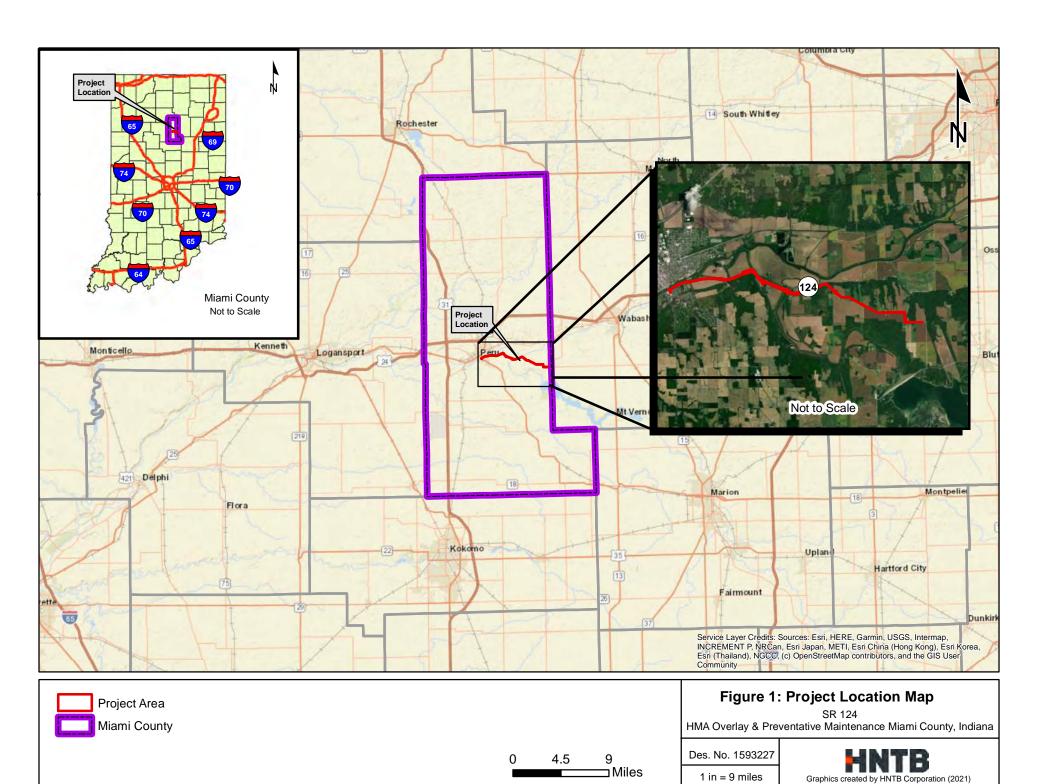
⁹ Section 4(f) use resulting in an Individual, Programmatic, or *de minimis* evaluation. The only exception is a *de minimis* evaluation for historic properties (Effective January 2, 2020). If a historic property *de minimis* and no other use, mark the *None* column.

¹⁰ Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

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

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

APPENDIX B: GRAPHICS





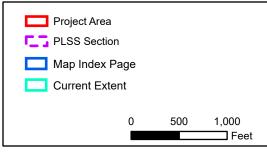


Figure 2: Project Aerial Map

SR 124

HMA Overlay & Preventative Maintenance Miami County, Indiana

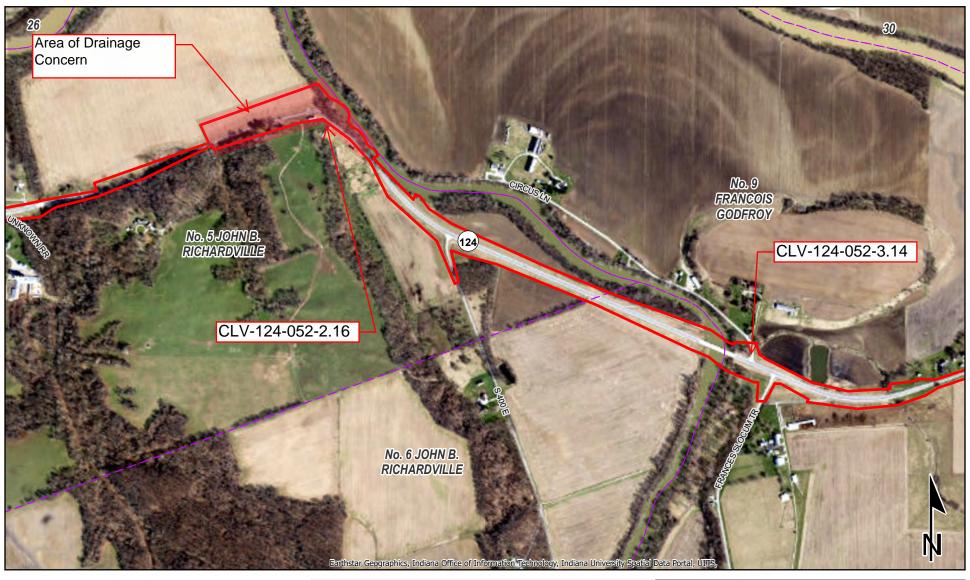
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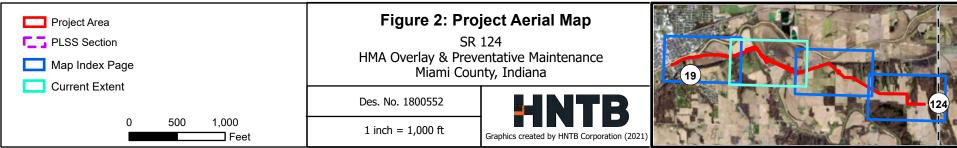
1 inch = 1,000 ft





Des No 1800552 Appendix B, Page 2 of 101





Des No 1800552 Appendix B, Page 3 of 101



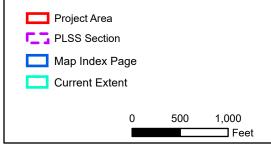


Figure 2: Project Aerial Map

SR 124

HMA Overlay & Preventative Maintenance Miami County, Indiana

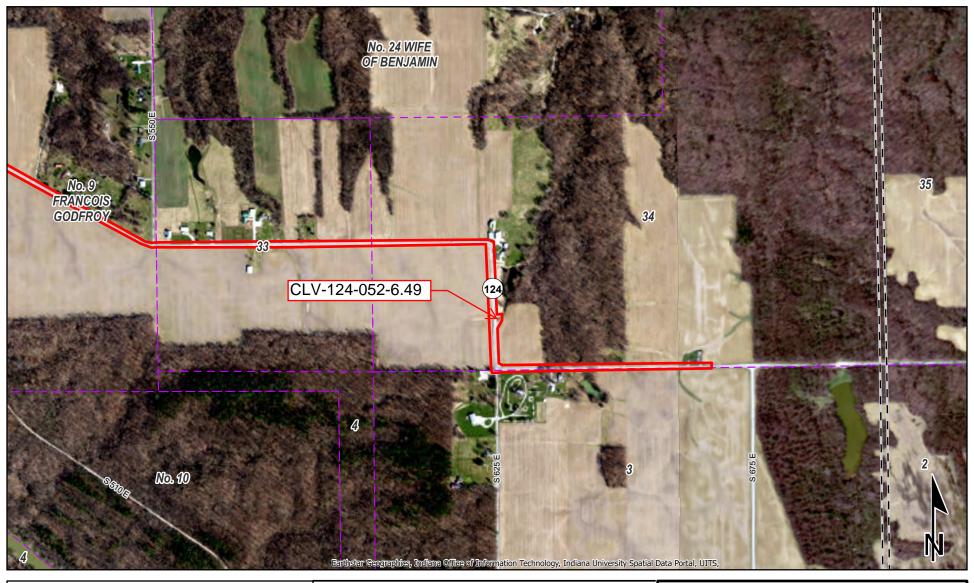
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1 inch = 1,000 ft

Graphics created by HNTB Corporation (2021

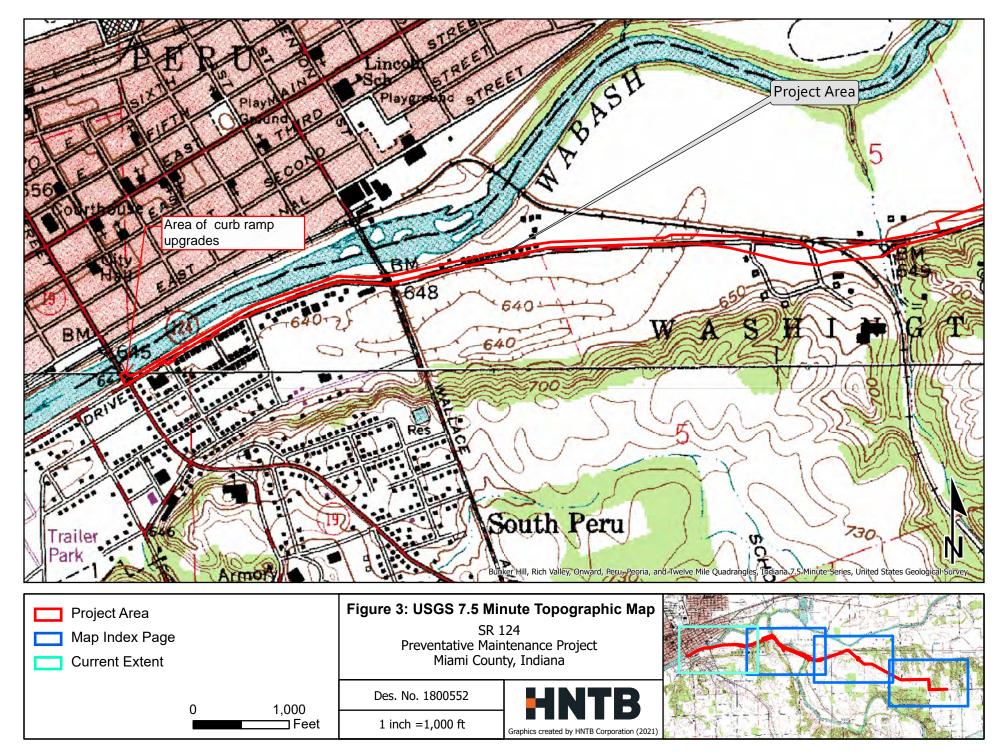


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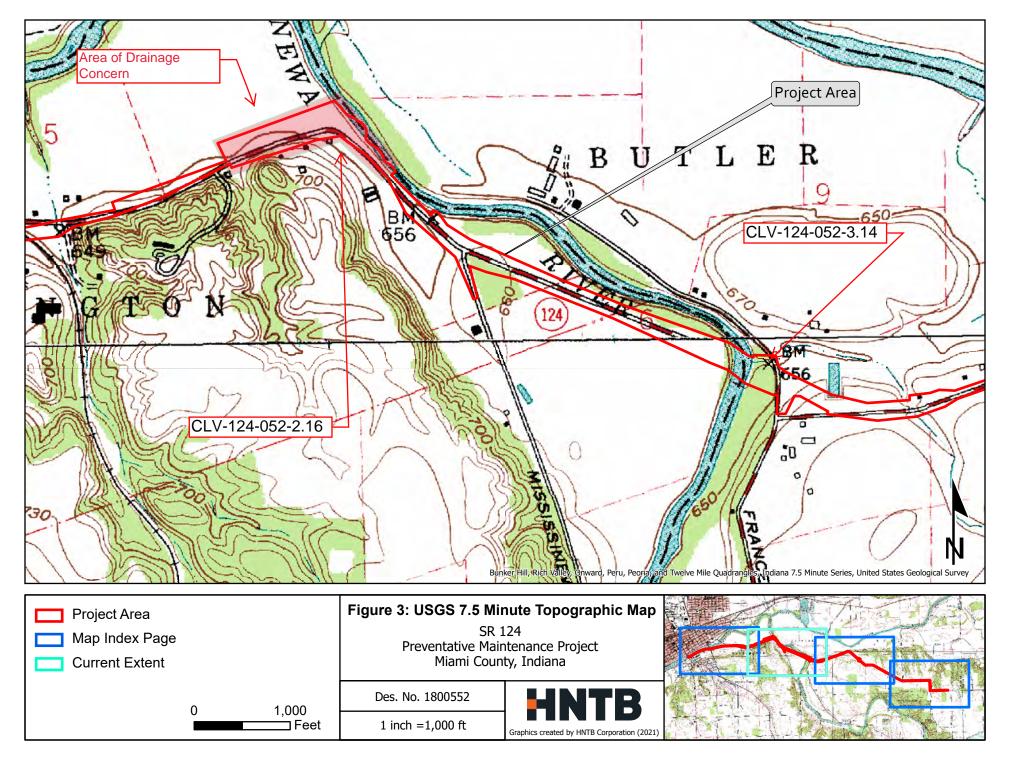


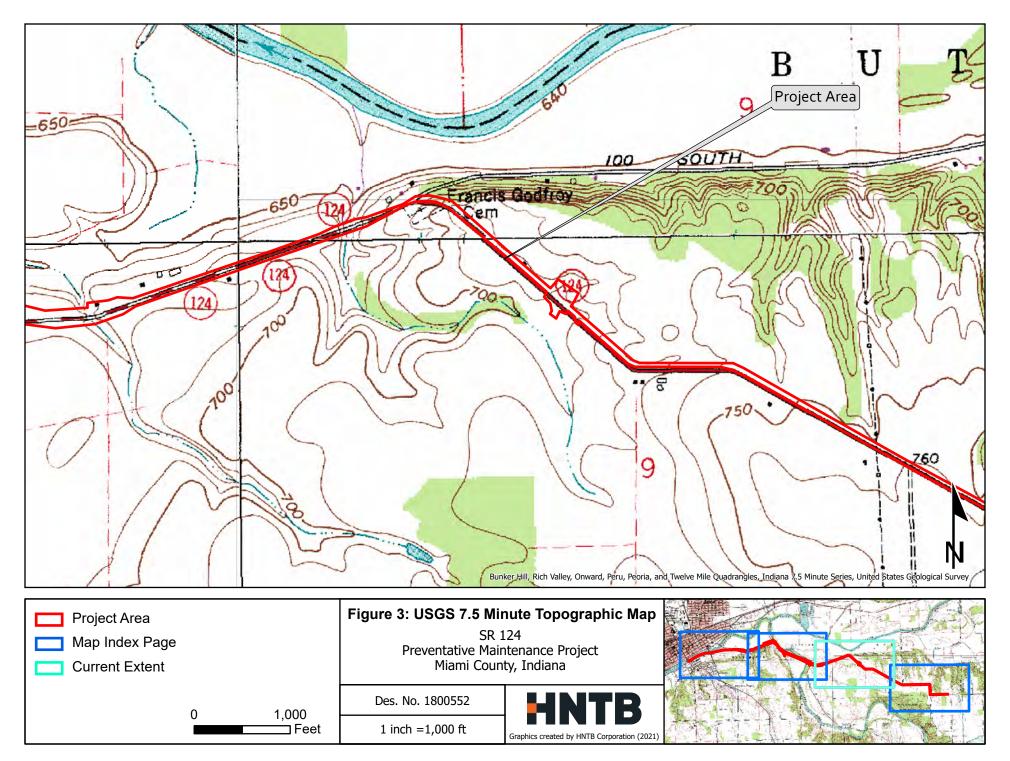


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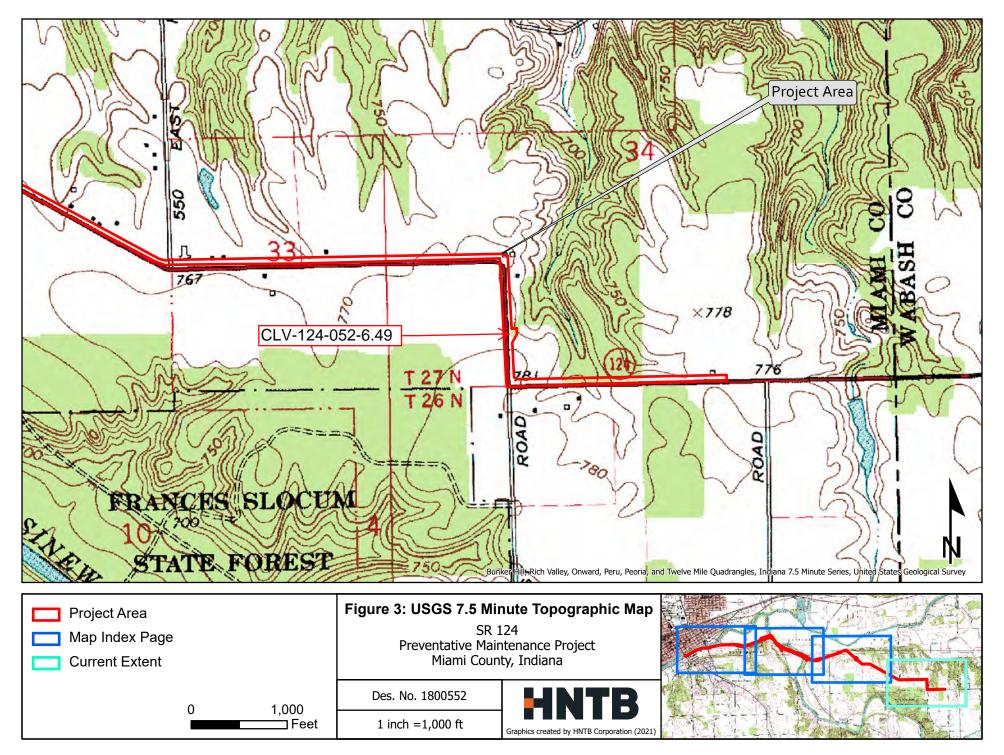


Des No 1800552 Appendix B, Page 6 of 101





Des No 1800552 Appendix B, Page 8 of 101



Des No 1800552 Appendix B, Page 9 of 101



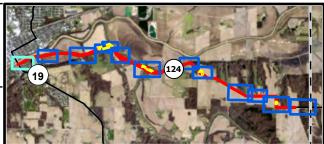


SR 124 Preventative Maintenance Project Miami County, Indiana

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1 inch = 200 ft









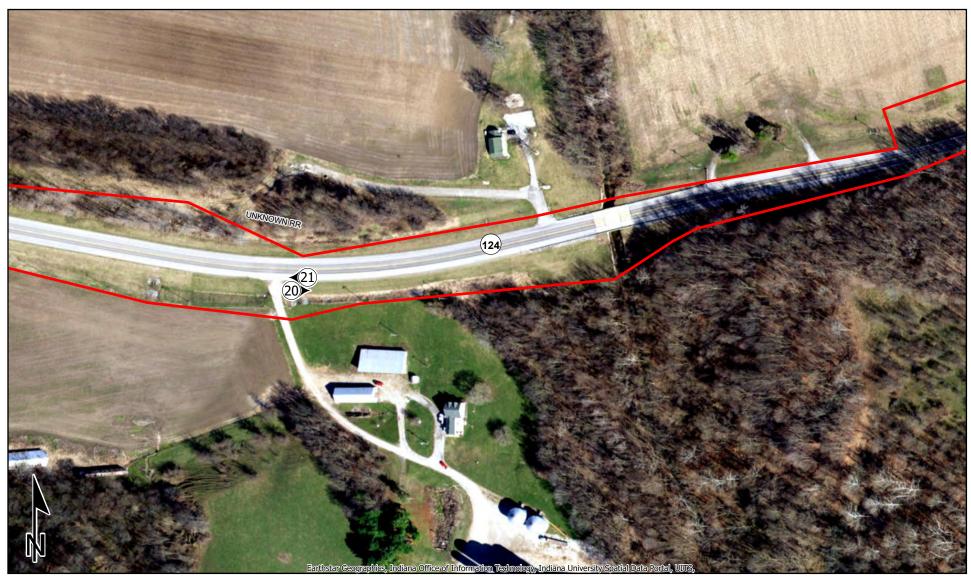
SR 124 Preventative Maintenance Project Miami County, Indiana

Des. No. 1800552

1 inch = 200 ft









SR 124 Preventative Maintenance Project Miami County, Indiana

Des. No. 1800552

1 inch = 200 ft





Des No 1800552 Appendix B, Page 12 of 101



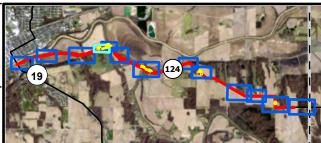


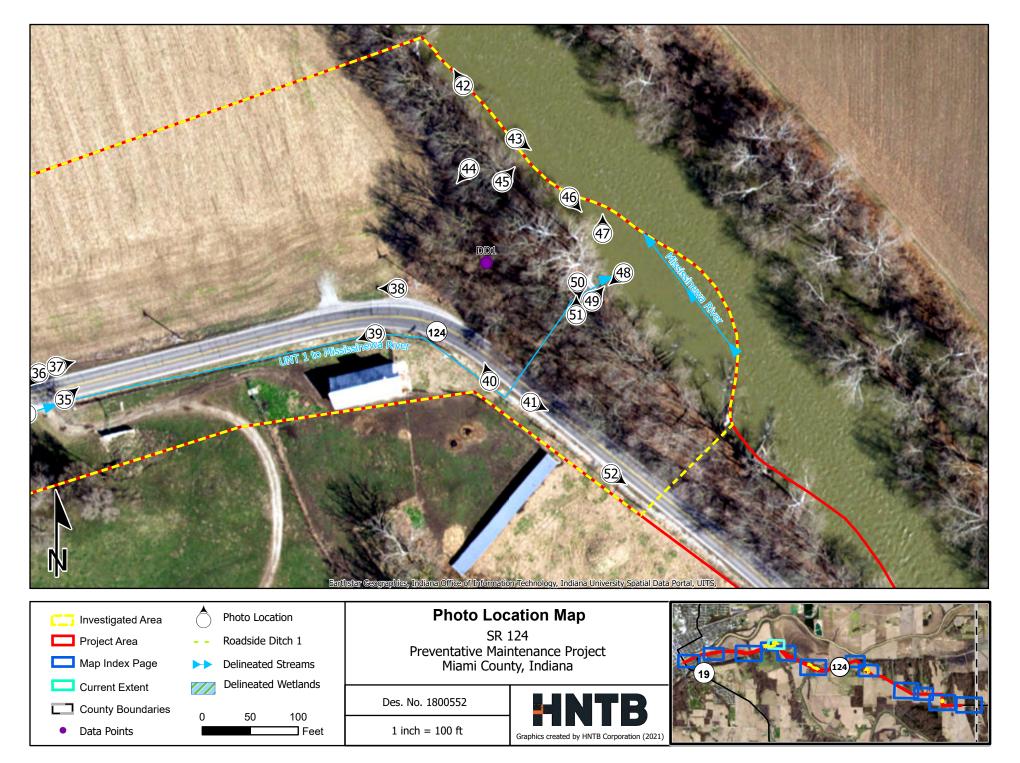
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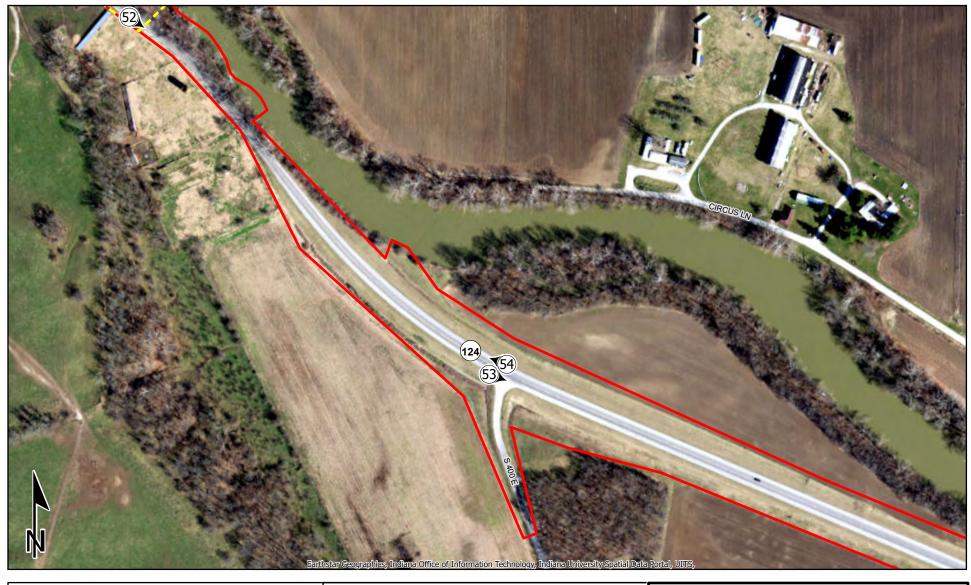
1 inch = 100 ft







Des No 1800552 Appendix B, Page 14 of 101





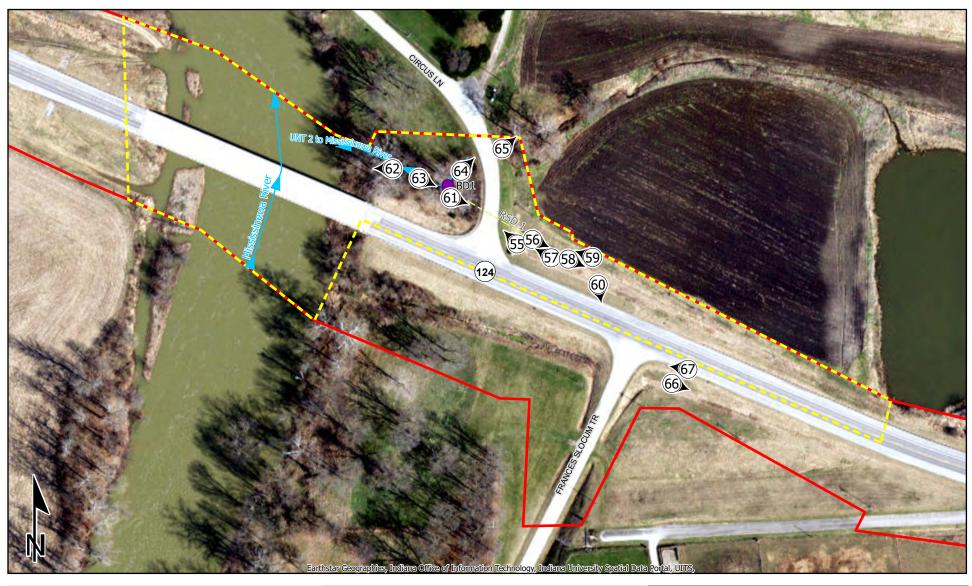
SR 124 Preventative Maintenance Project Miami County, Indiana

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1 inch = 300 ft



Des No 1800552 Appendix B, Page 15 of 101





SR 124 Preventative Maintenance Project Miami County, Indiana

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1 inch = 150 ft









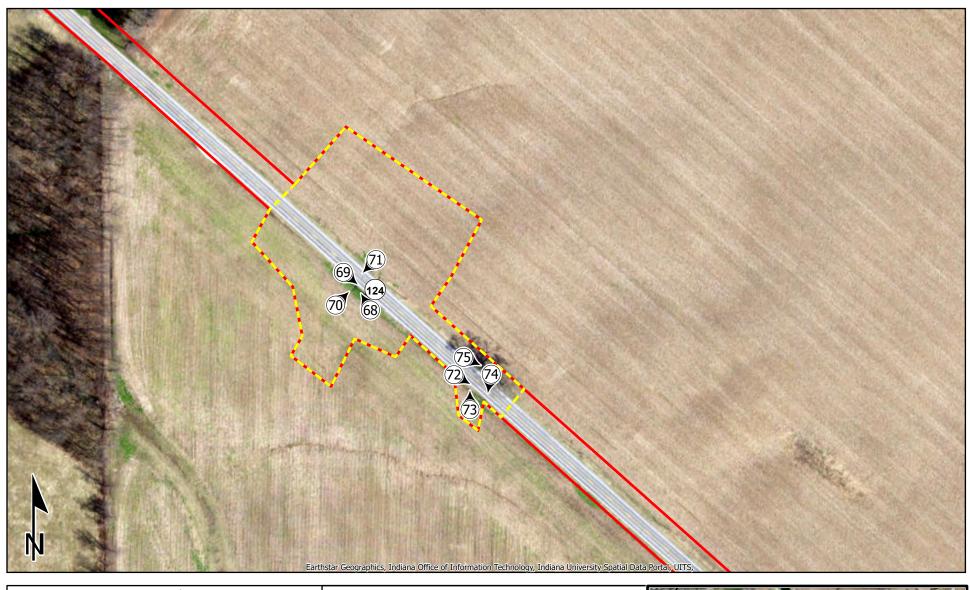
SR 124 Preventative Maintenance Project Miami County, Indiana

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1 inch = 150 ft









SR 124 Preventative Maintenance Project Miami County, Indiana

Des. No. 1800552

1 inch = 150 ft









SR 124 Preventative Maintenance Project Miami County, Indiana

Des. No. 1800552

1 inch = 250 ft









SR 124 Preventative Maintenance Project Miami County, Indiana

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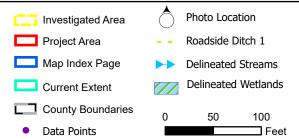
1 inch = 200 ft





Des No 1800552 Appendix B, Page 20 of 101





SR 124 Preventative Maintenance Project Miami County, Indiana

Des. No. 1800552

1 inch = 100 ft









SR 124 Preventative Maintenance Project Miami County, Indiana

Des. No. 1800552

1 inch = 250 ft







1. Looking north towards the intersection of State Road (SR) 19 and SR 124 from Franklin Street



 ${\bf 2.\ Looking\ northwest\ along\ SR\ 19\ from\ Franklin\ Street}$

Des No 1800552 Appendix B, Page 23 of 101



3. Looking southeast to intersection of SR 124 and SR 19 from bridge



4. Looking northeast along SR 124 from SR 19 intersection

Des No 1800552 Appendix B, Page 24 of 101



5. Looking northwest to SR 19 bridge over Mississinewa River



6. Looking southwest down SR 124 towards SR 19 intersection

Des No 1800552 Appendix B, Page 25 of 101

Des No 1800552



7. Looking northeast along SR 124 from intersection with Wabash Street



8. Looking southwest along SR 124 from Huntington Street
Appendix B, Page 26 of 101



9. Looking norheast along 124 from Huntington Street



10. Looking southwest along SR 124 and to intersection with Sullivan Lane Des No 1800552 Appendix B, Page 27 of 101



11. Looking northeast to Sullivan Lane intersection with SR 124



12. Looking east towards SR 124 intersection with Wallace Avenue Appendix B, Page 28 of 101 Des No 1800552



13. Looking southwest to the SR 124 approach to Wallace Avenue



14. Looking northwest along Wallace Avenue from SR 124 intersection

Des No 1800552 Appendix B, Page 29 of 101



15. Looking southeast down Wallace Avenue from SR 124



16. Looking north to intersection of Wallace Avenue and SR 124

Appendix B, Page 30 of 101



17. Looking east along SR 124 from Wallace Avenue intersection



18. Looking west along SR 124

Des No 1800552 Appendix B, Page 31 of 101



19. Looking east along SR 124



20. Looking east along SR 124 towards bridge

Des No 1800552 Appendix B, Page 32 of 101



21. Looking west along SR 124



22. Looking northeast along SR 124 along roadside ditch on north side of road

Des No 1800552

Appendix B, Page 33 of 101



23. Looking southwest along SR 124



24. Looking northeast along south side of SR 124 at roadside drainage from driveway

Des No 1800552

Appendix B, Page 34 of 101



25. Looking northeast from data point CD1 in roadside drainage



26. Looking southwest along SR 124 roadside

Des No 1800552 Appendix B, Page 35 of 101

Des No 1800552



27. Looking south to UNT 1 to Mississinewa River



28. Looking northeast along UNT 1 to Mississinewa River

Appendix B, Page 36 of 101



29. Looking southwest along SR 124 and UNT 1 to Mississinewa River from south side



30. Looking northeast along UNT 1 to Mississinewa River and SR 124 from south roadside

Des No 1800552

Appendix B, Page 37 of 101



31. Looking southwest to riprap stabilization



32. Looking southwest along SR 124 from north side

Des No 1800552 Appendix B, Page 38 of 101



33. Looking northeast to SR 124 from where roadside slope meets agricultural field



34. Looking southwest down UNT 1 to Mississinewa River and SR 124

Des No 1800552

Appendix B, Page 39 of 101



35. Looking northeast along UNT 1 to Mississinewa River and SR 124



36. Looking southwest along SR 124 on north roadside

Des No 1800552 Appendix B, Page 40 of 101

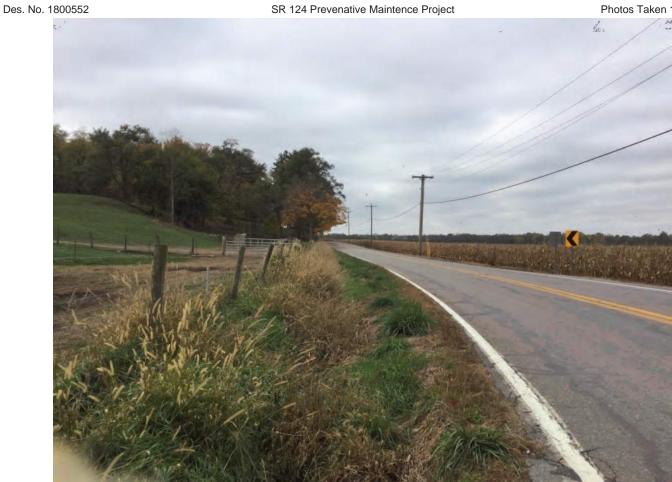


37. Looking northeast along SR 124 from north roadside



38. Looking west along SR 124

Des No 1800552 Appendix B, Page 41 of 101



39. Looking southwest along UNT 1 to Mississinewa river and SR 124 from culvert under SR 124



40. Looking northwest to culvert draining UNT 1 to Mississinewa River under SR 124 Des No 1800552 Appendix B, Page 42 of 101



41. Looking southeast along riprap roadside ditch



42. Looking northwest along Mississinewa River

Des No 1800552 Appendix B, Page 43 of 101



43. Looking southeast along Mississinewa River



44. Looking southwest towards SR 124 from floodplain of Mississinewa River

Des No 1800552

Appendix B, Page 44 of 101



45. Looking northeast to Mississinewa River from floodplain east of cornfield



46. Looking southeast along Mississinewa River

Des No 1800552 Appendix B, Page 45 of 101



47. Looking north upstream Mississinewa River to where UNT 1 drains to river



48. Looking southwest towards pipe failure and UNT 1 from bank of Mississinewa River Des No 1800552 Appendix B, Page 46 of 101



49. Looking northeast from UNT 1 to drainage to Mississinewa River



50. Looking south to culvert draining UNT 1 to Mississinewa River Des No 1800552 Appendix B, Page 47 of 101



51. Looking north at failed pipe conveying UNT 1 to Mississinewa River



52. Looking southeast along SR 124

Des No 1800552 Appendix B, Page 48 of 101



53. Looking east along SR 124 from 300 East



54. Looking west along SR 124 from 300 East

Des No 1800552 Appendix B, Page 49 of 101



55. Looking northwest towards culvert COID 19925, conveying RSD 1 under Circus Lane



56. Looking southeast from within RSD 1, adjacent to Circus Lane culvert (COID 19925)

Des No 1800552 Appendix B, Page 50 of 101



57. Looking northwest towards Circus Lane and culvert COID 19925 from RSD 1, looking towards riprap lined portion of ditch



58. Looking southeast along RSD 1

Des No 1800552 Appendix B, Page 51 of 101



59. Looking northwest towards RSD 1 and SR 124 intersection with Circus Lane



60. Looking south towards Frances Slocum Trail

Des No 1800552 Appendix B, Page 52 of 101



61. Looking east towards Circus Lane culvert COID 19925 from where RSD 1 intersects UNT 2 to Mississinewa River



62. Looking west towards Mississinewa River from UNT 2 to Mississinewa River

Des No 1800552

Appendix B, Page 53 of 101



63. Looking southeast along UNT 2 to Mississinewa River and intersection with RSD 1

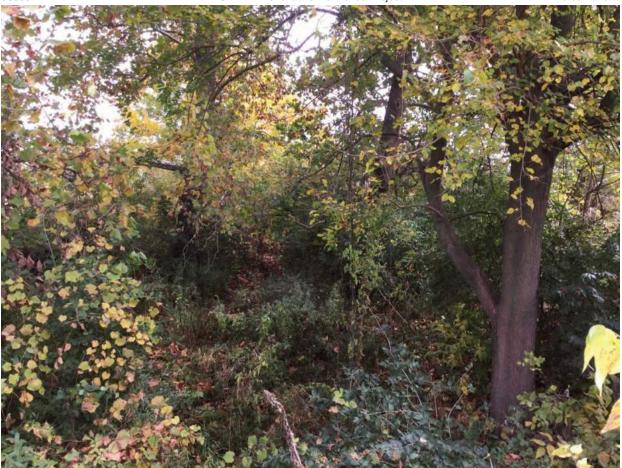


64. Looking northeast to bridge over UNT 2 to Mississinewa River

Des No 1800552

Appendix B, Page 54 of 101

Des No 1800552



65. Looking northeast upstream UNT 2 to Mississinewa River from Circus Lane



66. Looking southeast along SR 124 from Francis Slocum Trail

Appendix B, Page 55 of 101



67. Looking northwest towards intersection with Francis Slocum Trail



68. Looking northwest to culvert COID 19871, located at shovel Appendix B, Page 56 of 101



69. Looking southeast along SR 124 to culvert COID 19871, located at shovel



70. Looking northeast to culvert COID 19871 under SR 124

Appendix B, Page 57 of 101

Des No 1800552



71. Looking southwest to culvert COID 19871 under SR 124



72. Looking southeast along SR 124 at culvert

Des No 1800552 Appendix B, Page 58 of 101



73. Looking north at downstream end of culvert under SR 124



74. Looking south at culvert under SR 124

Des No 1800552 Appendix B, Page 59 of 101



75. Looking southeast along SR 124 towards culvert



76. Looking northwest along SR 124

Des No 1800552 Appendix B, Page 60 of 101



77. Looking southeast along SR 124



78. Looking east along SR 124

Des No 1800552 Appendix B, Page 61 of 101



79. Looking northwest along SR 124 from 550 East



80. Looking north along SR 124 from 625 East

Des No 1800552 Appendix B, Page 62 of 101



81. Looking east along SR 124 from 625 East



82. Looking northwest to field draining to culvert COID 19871

Appendix B, Page 63 of 101 Des No 1800552



83. Looking south to culvert COID 19871



84. Looking northeast from SR 124 roadside towards UNT 1 to Asher Branch Des No 1800552 Appendix B, Page 64 of 101



85. Looking west to culvert COID 19871 from UNT 1 to Asher Branch and Wetland A



86. Looking south to Frances Slocum Trail Riders Campground

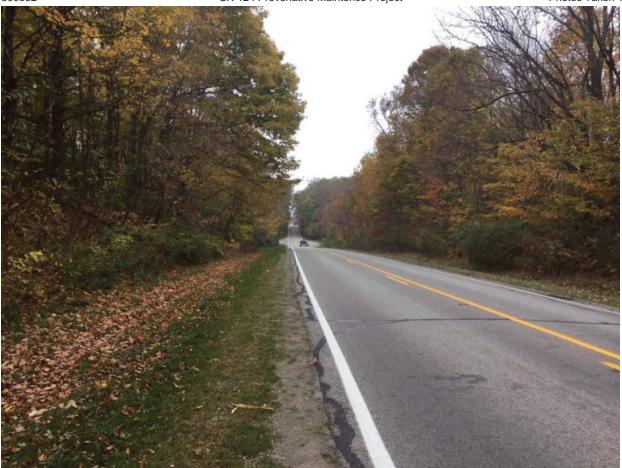
Des No 1800552 Appendix B, Page 65 of 101



87. Looking west along SR 124 from 675 East



88. Looking east along SR 124 from 675 East



89. Looking west along SR 124 from the county line between Miami County and Wabash County

Des No 1800552 Appendix B, Page 67 of 101



A. Looking northeast at stone retaining wall on SR 124



B. Looking northeast to 5746 SR 124 which is a 2 story brick house undergoing renovation



C. Looking northeast at above ground petroleum storage tanks



D. Looking northwest to 2 story brick Italianate residential structure

Des No 1800552 Appendix B, Page 68 of 101



E. Looking northwest at brick barn with wood addition



G. Looking southeast at Francis Godfrey Cemetery





H. SR 124 looking north at culvert to be replaced

PROJECT	DESIGNATION
180055200ST2	1800552
CONTRACT	
R-41121	

	CULVERT ASSETS					
DES. NO. CULVERT ASSET ID		WORK TYPE				
1800552	CV 124-052-01.94	NEW SMALL STRUCTURE				

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

ROUTE: SR 124 FROM: RP PROJECT NO.

0+0 TO: RP 7+1
180055200ST2 P.E.
180055200ST2 R/W
180055200ST2 CONST.

PREPARED BY: Susan E. Lewis

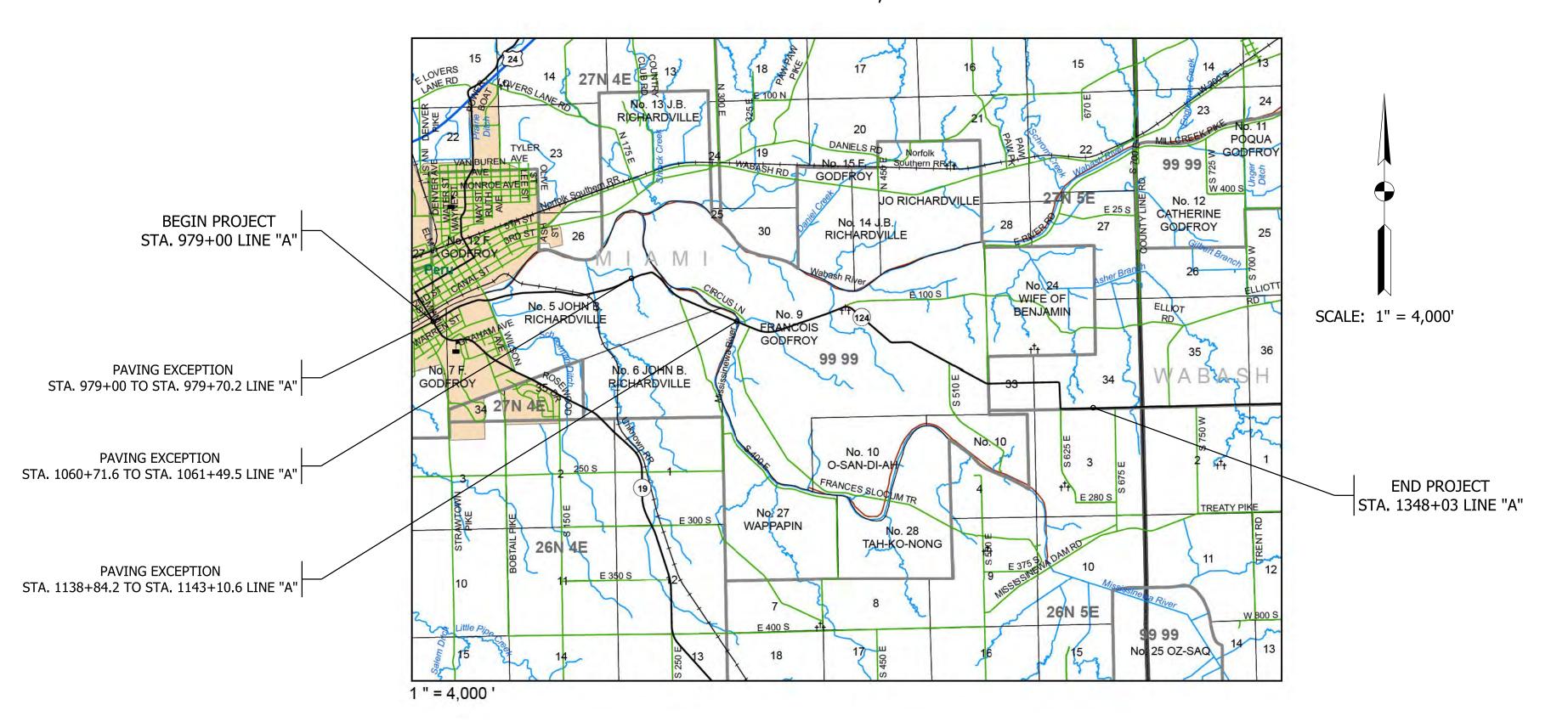
INDIANA DEPARTMENT OF TRANSPORTATION

CERTIFIED BY:

RECOMMENDED FOR LETTING:

HMA OVERLAY, PREVENTIVE MAINTENANCE ON SR 124
FROM SR 19 TO 7.32 MILES EAST OF SR 19.
SODEROY) & RESERVE NO. 5 AND NO. 6 (RICHARDVILLE), 99, 99, 1

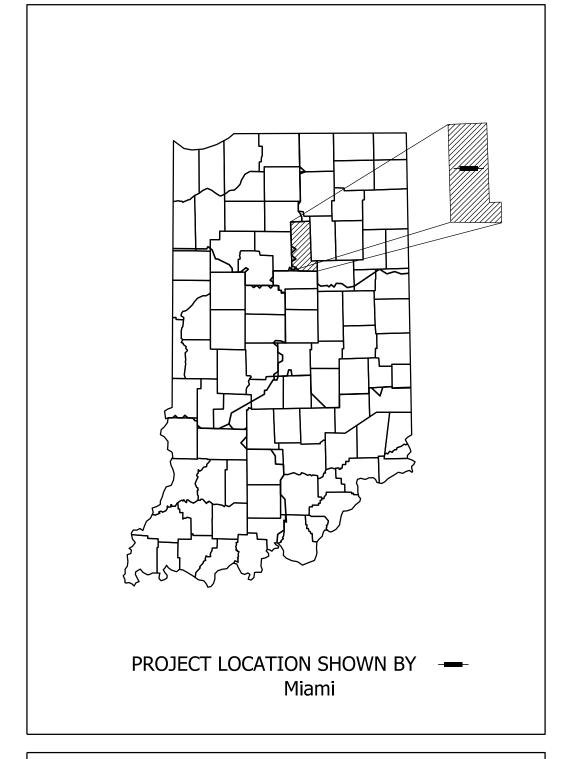
RESERVE NO. 7 (GODFROY) & RESERVE NO. 5 AND NO. 6 (RICHARDVILLE), 99, 99, WASHINGTON TOWNSHIP.
RESERVE NO. 9 (GODFROY), 99, 99; SECTIONS 33 & 34, T-27-N, R-5-E; SECTION 3, T-26-N, R-5-E; BUTLER TOWNSHIP.
MIAMI COUNTY, INDIANA



TRAFFIC DATA					
(2023)	1002 V.P.D.				
(2033)	1002 V.P.D.				
(2033)	95 V.P.H.				
BUTION	46.00 %				
	8.46 % A.A.D.T				
	6.51 % D.H.V.				
	(2023) (2033)				

DESIGN DATA

DESIGN SPEED	35/45/55 M.P.H.
PROJECT DESIGN CRITERIA	PARTIAL 3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MAJOR COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE



LATITUDE: N 40°44'52"	LONGITUDE: W	86°0'2
LATITUDE, N TO TT JZ	LONGITODE. W	00 0 2

GROSS LENGTH:	6.989 MI.
NET LENGTH:	6.880 MI.
MAX. GRADE:	N/A %

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

317-233-2081 PHONE NUMBER

	DESIGNATION				
	1800552				
	SHEETS				
	1 of 54				
CONTRACT	PROJECT				
R-41121	18	180055200ST2			

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Des No 1800552

UTILITIES

PERU UTILITIES (WATER, SEWER, AND ELECTRIC)
MICHAEL WALSH
335 EAST CANAL STREET
P.O. BOX 67 PERU, INDIANA 46970-0067 (765) 473-6681 EXT. 1135 mwalsh@peruutilities.com

NIPSCO GAS DEAN GARRETT 801 E. 86TH AVENUE MERRILLVILLE, IN 46410 (219) 647-6260 dagarrett@nisource.com

AT&T

DAVID SMITH 116 E. TAYLOR ST. KOKOMO, IN 46901 765.454.5021 ds8383@att.com



INDIANA UNDERGROUND 1-800-382-5544 OR CALL 811 24 HOURS A DAY 7 DAYS A WEEK

REVISIONS							
SHEET NO.	SHEET NO. DATE REVISED						

GENERAL NOTES

ALL MAILBOX APPROACHES ALONG MAINLINE TO BE MILLED AND RESURFACED.

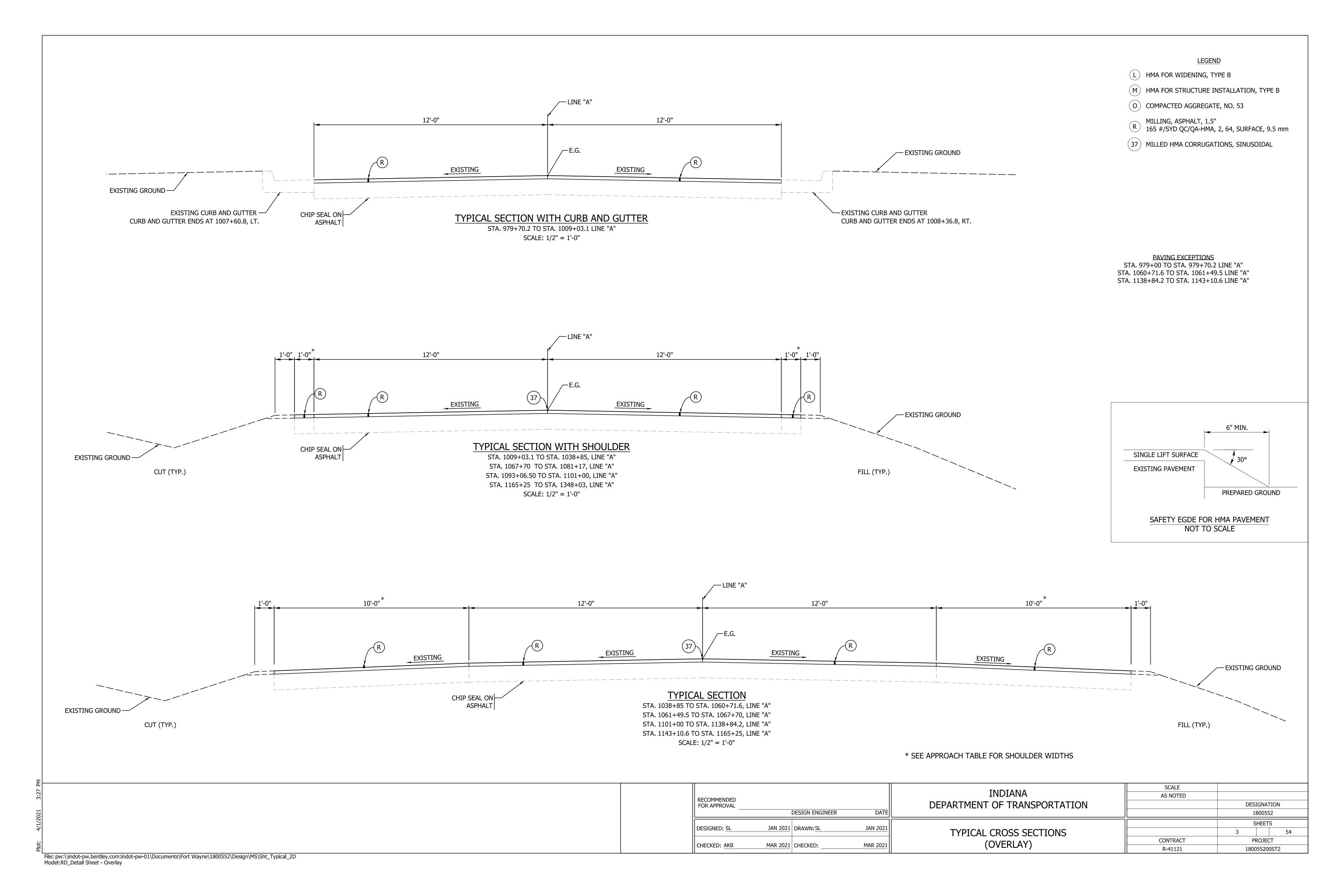
DO NOT DISTURB MAILBOXES.

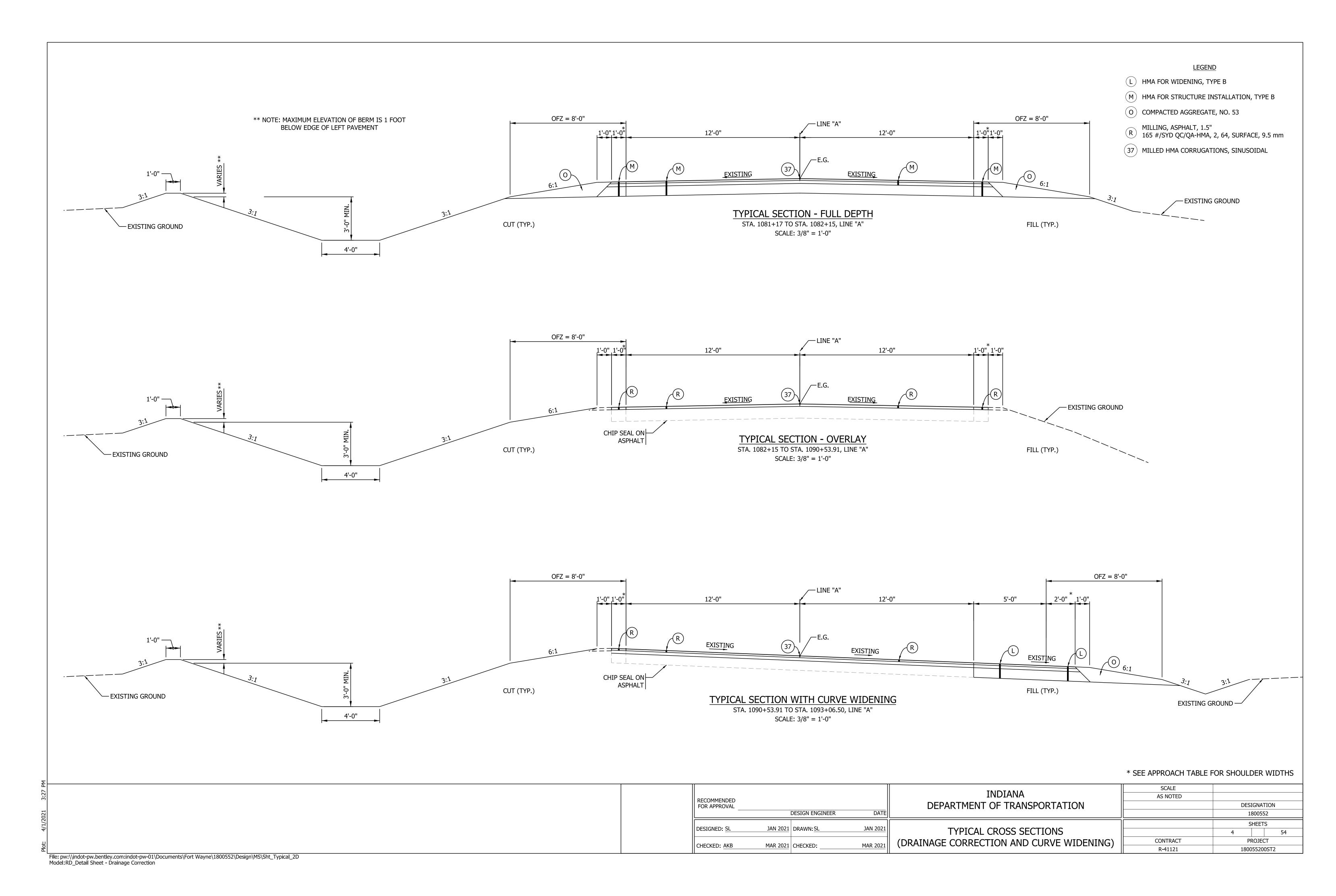
	INDEX				
SHEET NO.	DRAWINGS INDEX				
1	TITLE				
2	INDEX AND GENERAL NOTES				
3 - 4	TYPICAL CROSS SECTIONS				
5 - 9	LOCATION CONTROL ROUTE SURVEY PLATS				
10 - 11	PLAT NO. 1				
12 - 13	MAINTENANCE OF TRAFFIC				
14 - 27	PLAN SHEETS - HMA OVERLAY				
28 - 30 PLAN AND PROFILE SHEETS - STA. 1078+00 TO 1096+00 LINE "A"					
31 PLAN AND PROFILE SHEET - LINE "T-1-A"					
32	32 PLAN AND PROFILE SHEET - LINE "T-2-A"				
33 PLAN AND PROFILE SHEET - LINE "T-3-A"					
34 PLAN AND PROFILE SHEET - LINE "T-4-A"					
35	CURB RAMP DETAILS				
36	PATCHING DETAILS				
37	GENERAL PLAN				
38 PATCHING TABLES					
39 MISCELLANEOUS TABLES 40 - 41 APPROACH TABLES					
		42	ROAD SUMMARY		
43 - 52	CROSS SECTIONS - STA. 1080+00 TO 1095+00 LINE "A"				
53 - 54	CROSS SECTIONS - STA. 15+84 TO 16+76 LINE "T-1-A"				

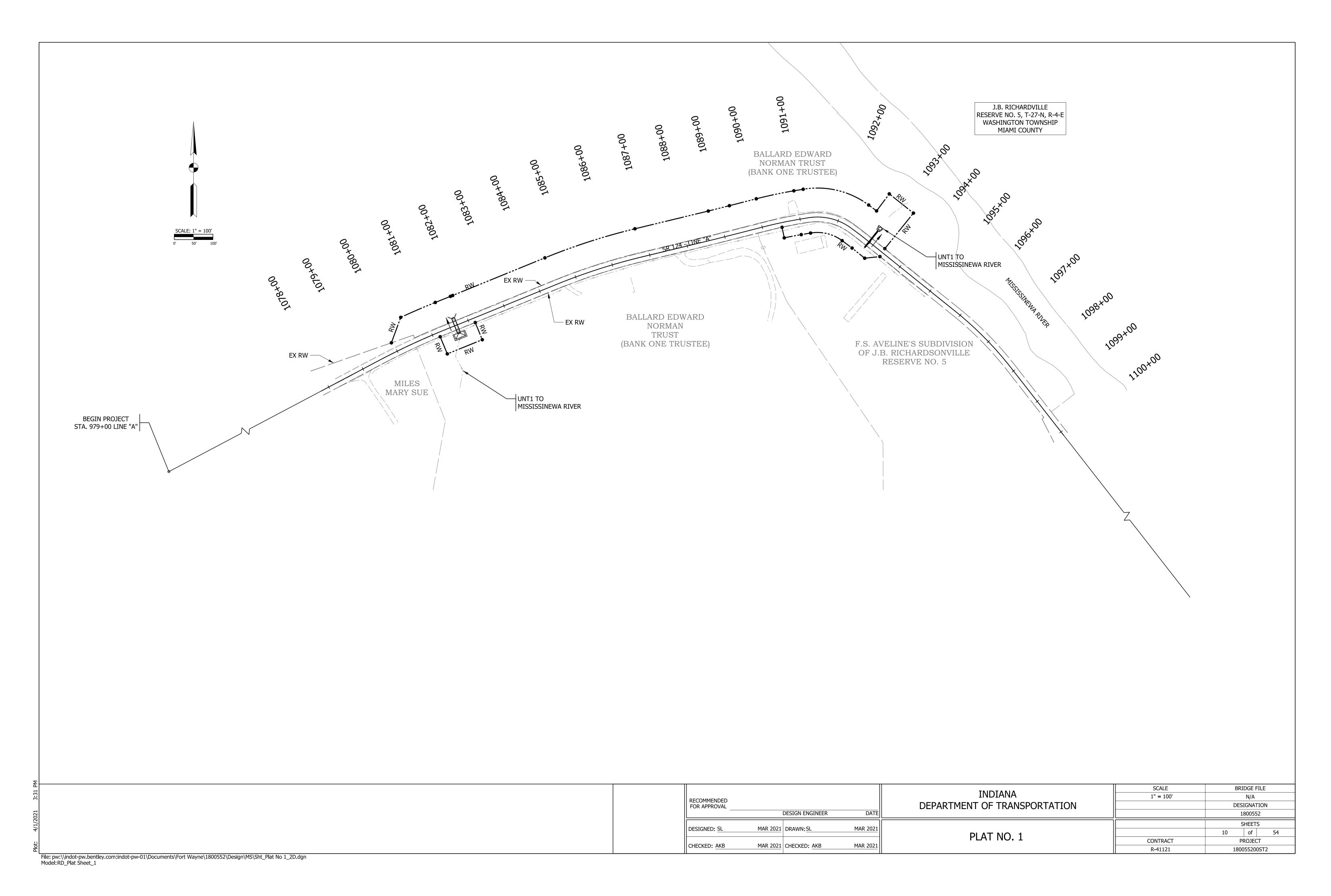
SCALE BRIDGE FILE INDIANA NONE N/A RECOMMENDED FOR APPROVAL DEPARTMENT OF TRANSPORTATION DESIGNATION DESIGN ENGINEER 1800552 SHEETS MAR 2021 DRAWN: SL DESIGNED: SL MAR 2021 2 of **INDEX SHEET** CONTRACT PROJECT MAR 2021 CHECKED: AKB MAR 2021 CHECKED: AKB R-41121 180055200ST2

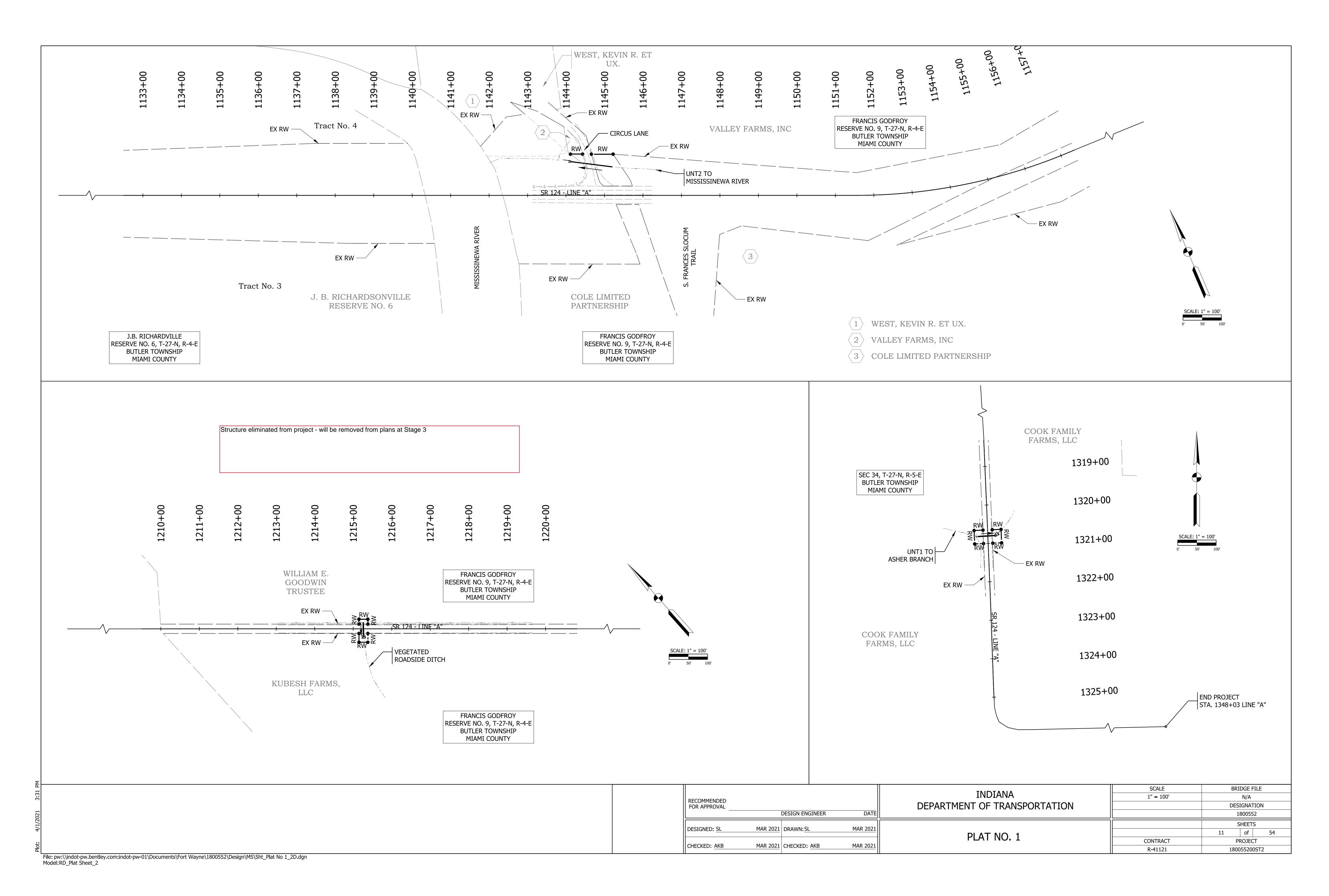
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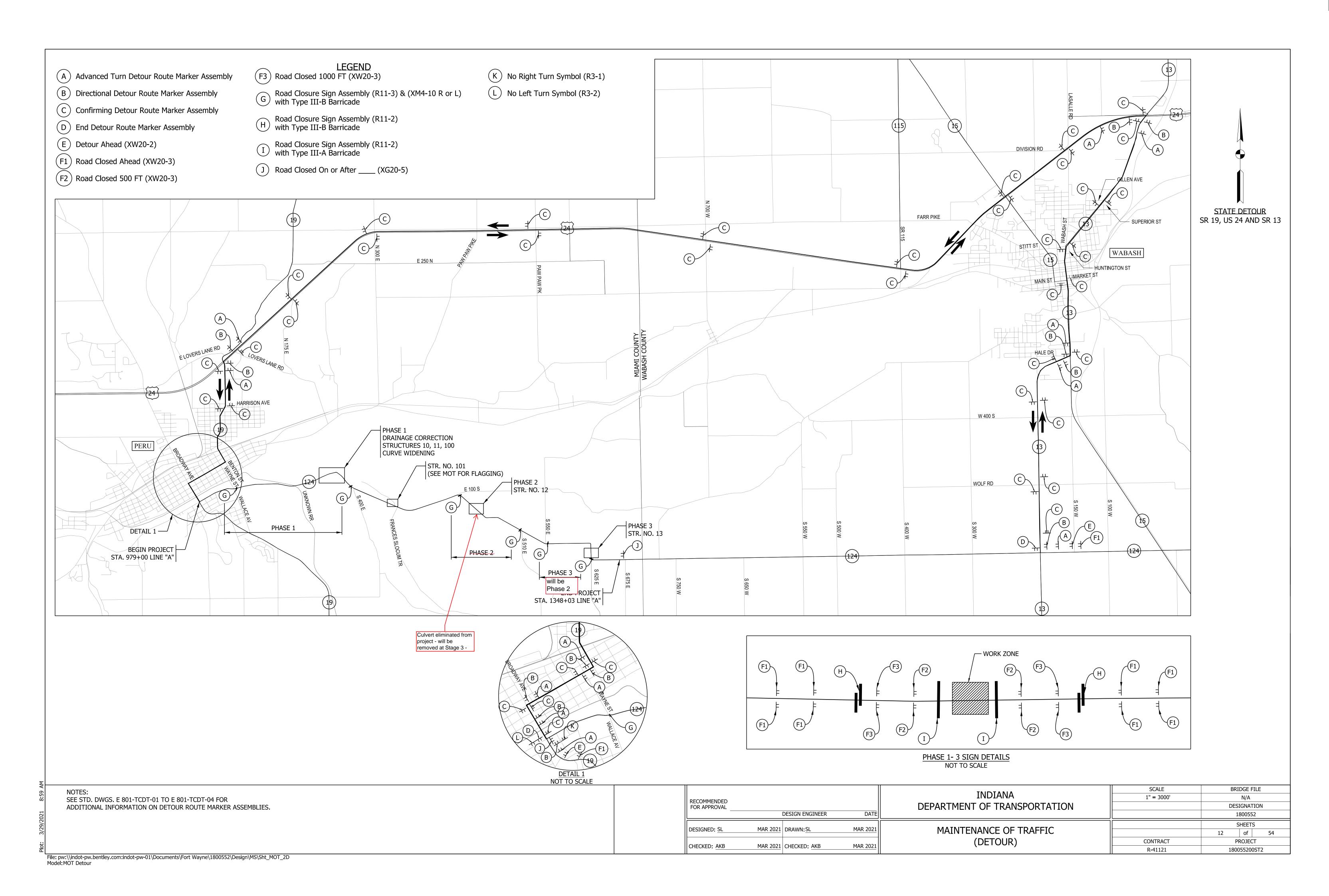
Des No 1800552 Appendix B, Page 71 of 101



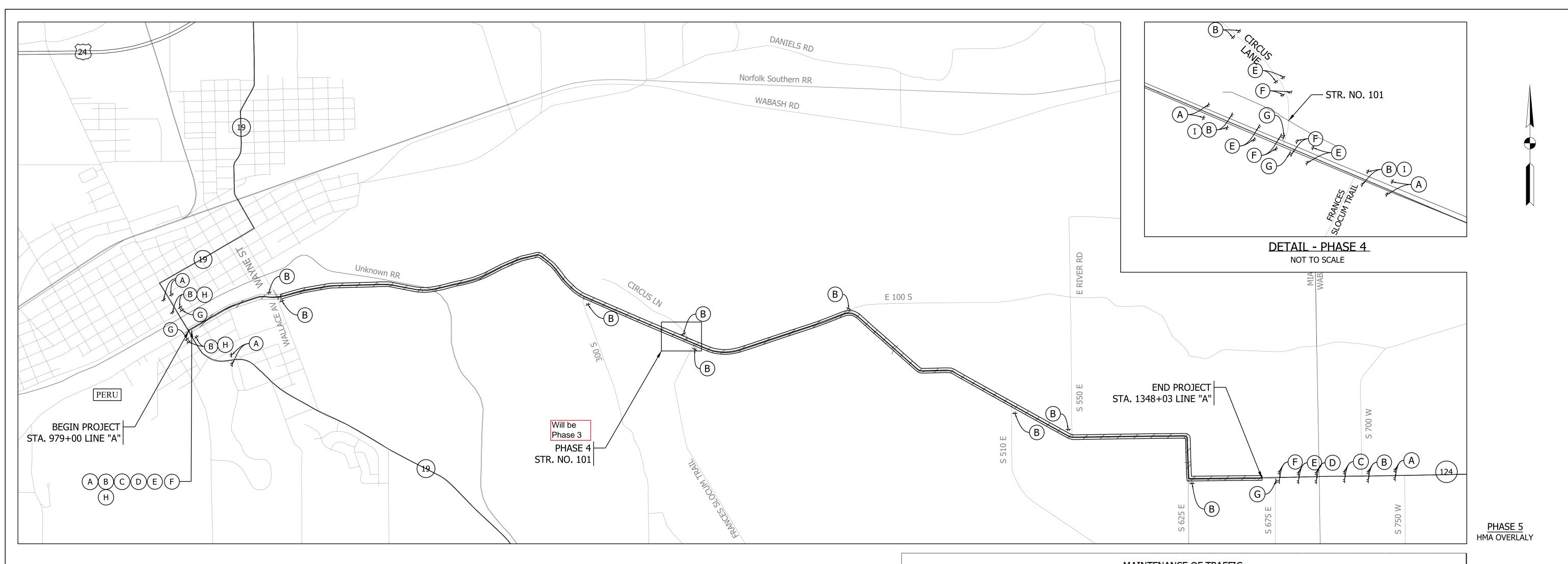








Des No 1800552



LEGEND FOR FLAGGING OPERATION

- A WORKSITE ADDED PENALTY (XW2-6)
- B ROAD CONSTRUCTION AHEAD (XW20-1)
- C ROAD CONSTRUCTION NEXT _ MILES (XG20-1)
- D ROAD CONSTRUCTION 1500 FT (XW20-1)
- E ONE LANE AHEAD (XW20-4)
- F FLAGGER SYMBOL (XW20-7)
- G END ROAD CONSTRUCTION (XG20-2)
- H INDIANA SR 124 (M1-5)
- I CIRCUS LANE (M1-6)
- WORK ZONE PHASE 5

		E OF TRA	ALLIC					
Sign Message (SYMBOL)	Sign Number	<u>PH 1</u>	<u>PH 2</u>	<u>PH 3</u>	<u>PH 4</u>	<u>PH 5</u>	<u>Qty</u>	<u>Unit</u>
WORKSITE ADDED PENALTY	XW2-6	-	-	_	4	6	6	EACH
ROAD CONSTRUCTION AHEAD	XW20-1	_	-	_	6	15	15	EACH
ROAD CONSTRUCTION NEXT MILES	XG20-1	_	-	_	0	4	4	EACH
ROAD CONSTRUCTION 1500 FT	XW20-1	_	_	-	0	4	4	EACH
one lane ahead	XW20-4	_	-	_	6	4	6	EACH
FLAGGER SYMBOL	XW20-7	_	-	_	6	4	6	EACH
END CONSTRUCTION	XG20-2	_	-	_	2	3	3	EACH
DETOUR AHEAD	XW20-2	2	2	2	-	_	2	EACH
ROAD CLOSED AHEAD	XW20-3	18	18	18	_	-	18	EACH
ROAD CLOSED ON OR AFTER (DATE)	XG20-5	2	2	2	_	-	2	EACH
ROAD CLOSED	R11-2	4	4	4	_	-	4	EACH
ROAD CLOSED - LOCAL TRAFFIC ONLY	R11-3	2	2	2	-	_	2	EACH
			CO	NSTRUCT	ION SIGN	, TYPE A	72	EACH
INDIANA SR 124	MI-5	_		_	0	1	4	EACH
CIRCUS LANE	M1-6		-		4	4 0	4 4	EACH
		2	2	2	7	U	2	EACH
DETOUR (_ ARROW)	XM4-10(_)				-	_		
NO RIGHT TURN SYMBOL	R3-1	1	1	1	-	-	1	EACH
NO LEFT TURN SYMBOL	R3-2	1	1 (0	⊥ NSTDII€T	ON SIGN	TVDF R	1 12	EACH EACH
				MOINOCI	ION SIGN	<i>,</i>		LACI
ADVANCE TURN DETOUR ROUTE MARKER ASSEMBLY	-	12	12	12	-	_	12	EACH
DIRECTIONAL DETOUR ROUTE MARKER ASSEMBLY	-	12	12	12	-	-	12	EACH
CONFIRMING DETOUR ROUTE MARKER ASSEMBLY	-	38	38	38	-	-	38	EACH
END DETOUR ROUTE MARKER ASSEMBLY	-	2	2	2	-	_	2	EACH
			DETOUR	ROUTE M	ARKER AS	SEMBLY	64	EACH
DOAD CLOCUDE CICN ACCEMBLY								FACI
ROAD CLOSURE SIGN ASSEMBLY	_	6	6	6	_	-	6	EACH
TYPE III-A BARRICADE TYPE III-B BARRICADE	_	48 96	48 96	48 96	_	-	48 96	LFT LFT

Σ						
9 A	NOTE:			TNICTANIA	SCALE	BRIDGE FILE
8:5	SEE STANDARD DRAWING E 801-TCFO-01 FOR FLAGGER OPERATIONS.	RECOMMENDED		INDIANA	1" = 1500'	N/A
		RECOMMENDED FOR APPROVAL		DEPARTMENT OF TRANSPORTATION		DESIGNATION
021		DESIGN ENGINEER	DATE			1800552
9/2				MATNET NAME OF TRAFFIC		SHEETS
3/2		DESIGNED: <u>SL</u> MAR 2021 DRAWN: <u>SL</u>	MAR 2021	MAINTENANCE OF TRAFFIC		13 of 54
اند		CUECKED AKD MAD 2024 CUECKED AKD	MAD 2024	(FLAGGING OPERATION)	CONTRACT	PROJECT
흥		CHECKED: AKB MAR 2021 CHECKED: AKB	MAR 2021	(= 10 01110 01 = 1111011)	R-41121	180055200ST2

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Des No 1800552