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

Road	No./County:	US 52/Dearb	orn County				
Desig	nation Number(s):	2000090 & 2	001948				
		DES No: 200	0090: Slide Corre	ction Project, a	approximately 1.4 miles west of SR 46		
Project Description	ct ription/Termini:			ll Structure Rej	placement, approximately 1.5 miles		
		west of SR 46	5				
	<u> </u>						
Х	Categorical Exclusion	, <b>Level 2</b> – Red	quired Signatories	INDOT DE an	d/or INDOT ESD		
	Categorical Exclusion	, <b>Level 3</b> – Red	quired Signatories	INDOT ESD			
	Categorical Exclusion	cal Exclusion, Level 4 – Required Signatories: INDOT ESD and FHWA					
	Environmental Assess	sment (EA) – R	Required Signatorio	es: INDOT ESC	and FHWA		
					change from the original approved oriate environmental approval		
Approval							
	INDO	ΓDE Signature and Date			INDOT ESD Signature and Date		
	FHV	VA Signature and	l Date				
Release for Public Involven		nent	DGD	2024.11.26 -05'00'	08:50:20		
			INDOT DE Initia	s and Date	INDOT ESD Initials and Date		
Certification of Public Involvement							
			IN	OOT Consultant	Services Signature and Date		
INDOT I	DE/ESD Reviewer Signature	e and Date:					

Kia Gillette, HNTB Corporation

Name and Organization of CE/EA Preparer:

County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948	_
Note: Refe	er to the most current IND n of this form.	OT CE Manual, guidance	e language, and other ESD re	esources for fu	ther guidance regardin	g
		<u>Part I – Pu</u>	ıblic Involvement			
			t, providing for early and con nt should be commensurat			
If N	No, then:		der the Historic Bridges PA*?		No X	
	Opportunity for a Public H			<u> </u>		<b>^</b> -
	earing is required for all his PO, and the ACHP.	storic bridges processed	under the Historic Bridges Pr	rogrammatic A	greement between IND	01,
			rs to affected property owners have occurred for this projec		(i.e. notice of entry),	
August 11	, 2022, notifying them at	out the projects and tha	property owners within the it individuals responsible for are included in Appendix G	land surveyin	•	
Developm submit con	ent Public Involvement I mments and/or request a	Procedures Manual whi public hearing. Therefor	d in the current <i>Indiana Depo</i> ich requires the project spor re, a legal notice will appear cument will be revised after	nsor to offer to in a local pub	the public an opporture blication contingent up	nity to on the
			I <b>nds</b> Iral resource impacts, includir	ng what is bein	g done during the proje	ect to
At this tim	ne, there is no substantial	oublic controversy conce	erning impacts to the commu	nity or to natu	ral resources.	
<u>Par</u>	<u>t II - General Pro</u>	<u>ject Identificat</u>	ion, Description,	and Desi	<u>gn Informatio</u>	<u>n</u>
Sponsor o	f the Project:	INDOT		INDO	T District: Seymour	
Local Nam	ne of the Facility:	US 52				
Fu	nding Source (mark all tha	at apply): Federal	X State X Loca	l Othe	r*	
*If	other is selected, please i	dentify the funding sourc	e:			
PURPOS	E AND NEED:					
			or deficiency that the project problem should NOT be discu			cribe
			erosion of the roadway emb ural integrity of the existing			
This is	page 2 of 25 Project na	ame: US 52 Slide Co	rrection/Small Structure Replac	ement Date	e: September 5, 2024	

County	Dearborn		Route	US 52	Des. No.	2000090	<u>&amp; 2001948</u>	_
INDOT in towards th the roadwa projects w significant	May 2022 (Apple Whitewater Riay pavement, built also address to spalling and cr	pendix I, pages 2-3 ver, impacting adjo t such routine main the poor condition acking on the inte	1), there was visu ining roadway, gu tenance activities of the larger exist rior and exposed	According to the geotectal evidence that the desirardrail, utilities, and strate unable to address thing culvert at the wester bar. The culvert is a termining of the south sice	stabilized slop ructures. IND ne underlying rn end of the also misaligno	pe has caused OT has comp slope instable project limited with the of	I the soil to leted repartitive hazards, which editates the content of the conten	to slide ving of ds. The exhibits
minimize s	safety hazards to		e. The purpose is a	y along this section of U also to maintain a vehice				
PROJEC	T DESCRIPTIO	N (PREFERRED	ALTERNATIVE	i):				
County:	Dearborn		Municipality	: Harrison Township				
Limits of P	roposed Work:	US 52, from 1.4 m	niles west of SR 46 t	o 1.54 miles west of SR 46	5			
Total Work	Length:	0.14 Mile(	s)	Total Work Area:	1.42	Acre(s)		
If y Acc Describe loc current defic	es, when did the ceptability? <sup>1</sup> If an IAD is req final approval of cation of project in ciencies, roadway	uired; a copy of the the IAD.  Including township, it description, surrou	etermination of En approved CE/EA of range, city, county anding features, et	gineering and Operation document must be subm , roads, etc. Existing co c. Preferred alternative s ical termini and indepen	nitted to the Fi nditions shou should include	ld include cur the scope of	rent condit	
INDOT an		ghway Administrat		nd to proceed with slide				rojects
town of W West in H	Vest Harrison in I Harrison Townsh	Dearborn County, I	ndiana. More spec he United State	4 miles west of SR 46, a cifically, the projects ar Geological Survey (US	e in Section 4	4, Township	7 North, R	ange 1
roadway h section of the road.	as 12-foot lanes roadway has bee Erosion has impa	with 2-foot aggrega on impacted by eros	nte shoulders and good ion and a landslid of the guardrail and the	ipal arterial with a speeguardrail along the south e on the south side of Und utility poles within the	h roadway ed IS 52, where	ge (Appendix the Whitewat	B, page 8 er River pa	3). This arallels
down the number is CLV-9107 respectivel side of US	south slope adja CV 052-015-16 6. These culvert ly. The larger str 5 52) is not in li	cent to US 52. The 6.97. The culvert resconvey unnamed ructure at the north ne with the structure	e culvert near the near the eastern p tributary (UNT) 4 end of the projec- re, causing moder	ditches to two reinforce western project limit is roject limit is a 3-foot to Whitewater River and t area is in poor condition at erosion along the no has occurred. The smaller	s a 4-foot by by 3-foot RC d UNT 3 to V on, and the coorth side of the	4-foot RCB and its str Vhitewater Ri hannel on the he road. A la	and its structure nur ver under inlet side irge scour	ructure nber is US 52, (north hole is
This is	page 3 of 25	Project name:	US 52 Slide Correct	ion/Small Structure Replac	cement Da	ite: Septem	ber 5, 2024	

County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948	
		_	_			_

and cracking at the culvert's inlet and outlet. Land use in the vicinity is largely forested on both sides of US 52 with a residence at the southeast end.

**Preferred Alternative:** The preferred alternative will stabilize the landslide along the south side of US 52. Proposed project activities include excavation of the slope south of US 52 and installation of a 725-foot-long soil nail wall south of US 52, with a height of 12 feet and an outward-facing 1:2 slope (Appendix B, pages 7-15). Steel wire mesh encased in shotcrete will be placed against the excavated slope. The heads of the soil nail anchors will also be encased in shotcrete. Any undisturbed slope that is showing signs of erosion within the project limits will be repaired. The roadway within the project area will be milled and overlaid. The aggregate shoulder on the north side of US 52 will be maintained. Guardrail will be replaced along the eastbound lane to meet the current guardrail standard.

The preferred alternative will also replace the existing 4-foot by 4-foot RCB conveying UNT 4 to Whitewater River below US 52 with a larger 5-foot by 4-foot RCB. Riprap will be placed at the culvert inlet and outlet. No work will occur at the 3-foot by 3-foot RCB. The aboveground utility lines along the south edge of the roadway, will be reset or relocated.

The proposed maintenance of traffic (MOT) plan includes the closure of US 52 within the project limits due to roadway constraints. Consequently, a detour will be provided (Appendix B, page 10-11). Additional MOT detail can be found in the "Maintenance of Traffic during Construction" section of this document.

The projects have been designed to minimize impacts, and no residential relocations will be required. Impacts will be reduced by minimizing work on the culverts, minimizing tree removal, as well as implementing temporary measures such directing temporary lighting from suitable bat habitat during the active bat season. Due to the nature of the drainage patterns through the area and the need to stabilize the slope adjoining the roadway, it is not practicable to avoid all work within UNTs 3 and 4 to Whitewater River, but the level of impact is not anticipated to exceed thresholds requiring mitigation.

The proposed work will meet the purpose and need of the projects by reinforcing the failed slope, stabilizing the roadway embankment south of US 52, and replacing the RCB at the western project limit. This will minimize the potential for future slide activity and improve traffic mobility and safety for the traveling public.

**Logical Termini/Independent Utility:** The projects extend from 1.4 miles west of SR 46 to 1.54 miles west of SR 46 and is approximately 800 feet long. The termini of the projects provide the logical beginning and end points necessary to complete the slide correction and are of sufficient length to address potential environmental impacts on a broad scope. The projects are independent of any other action and able to be constructed without relying on the completion of any other project.

#### **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.

**French Drains:** This alternative would involve the installation of a French drain system and concrete lined ditches along a cutoff trench parallel to and on the north side of the roadway (Appendix I, page 8). The 6-inch perforated drain would be installed below the bedrock profile to intercept ground water prior to reaching the roadway. The 6-inch non-perforated outlet pipes would be installed perpendicular to, and carrying drainage south under US 52, and would be installed via open cut trench in 100-foot spacing.

Consequently, full depth reconstruction of the roadway would be required at each trench location. The aggregate shoulder along the north side of the roadway would be replaced due to French drain construction and to improve shoulder definition.

The French Drain alternative was dismissed from consideration as it would require additional maintenance/monitoring of the drainage system and would provide a lower level of stability to the sliding earth mass, compared to the Preferred Alternative.

Combination of French Drains/Soil Nail Wall: The combination of French Drains/Soil Nail Wall alternative will combine the corrective work outlined in Alternative 1 and the preferred alternative (Appendix I, page 9). This alternative was dismissed from consideration as the preferred alternative provides a high level of stability to the sliding earth mass, rendering the addition of the French drain unnecessary.

This is page 4 of 25	Project name:	US 52 Slide Correction/Small Structure Replacement	Date:	September 5, 2024	

County	Dearborn	Route	U	S 52	Des. No	2000090 & 2001948
(Appendix of US 52 and recurr it does not and struct	x I, page 9). This alternated and restore the rideabiling slope failures that ut to meet the purpose and ural deficiencies of the	ative does not meet the prity of US 52 to minimize andermine the existing reneed of the projects. The	ourpose and ze safety hoadway. The he No Buil end of the	d need of the project lazards to the travell his alternative was d ld alternative would project area. If no	ts to restore s ling public. I ismissed fron also not add action is take	nent in this section of US 52 lope stability along this section t does not address the existing a further consideration because ress the deteriorating condition on, the culvert will continue to public.
It v It v It v It v	vould not correct existin would not correct existin would not correct the ex would not correct existin		c deficienci s and main	ies; itenance problems; c	or	x X X
ROADW	AY CHARACTER:					
Name of F Functional Current AI Design Ho	Roadway <u>I</u> I Classification: <u>F</u> DT: <u>4</u> our Volume (DHV): 4	tiple roadways, complete US 52 Principal arterial ,480 VPD (202 49 Truck Percen 5 Legal Speed	25) De		4,591	VPD (2045)
		Existing		Proposed		
Ty Paa Sh Me Sic	mber of Lanes: pe of Lanes: vement Width: oulder Width: edian Width: dewalk Width: tting: pography:	12-foot through 24 2-foot (aggregate) 0 0 Urban Level	ft. ft. ft. ft.	24 2-foot aggrega 0 0 Suburban Rolling	ft.	
This is	page 5 of 25 Project	name: US 52 Slide	Correction/	Small Structure Replac	cement Da	ate: September 5, 2024

Version: December 2021

County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948
BRIDGE	S AND/OR SMALL STR	UCTURE(S):			
		e structures, complete and dup small structure(s) in this sect		nd/or small st	ructure. Include both
Structure/I	NBI Number(s):	CV 052-015-166.97	Sufficiency Rating		N/A ng, Source of Information)
				(Raur	ig, Source of information)
		Existing	Proposed		
	idge/Structure Type: ımber of Spans:	4-foot by 4-foot RCB N/A	5-foot by 4-foot N/A	RCB	
	eight Restrictions:	N/A ton	N/A ton		
	eight Restrictions:	N/A ft.	N/A ft.		
	irb to Curb Width:	N/A ft.	N/A ft.		
	itside to Outside Width:	N/A ft.	N/A ft.		
Sh	oulder Width:	N/A ft.	N/A ft.		
structure nu	imber, type, size (length an	ridge(s), culvert(s), pipe(s), ar d dia.), location and impacts t page, put it in the appendix a	o water. Use a table if t	he number of	small structures becomes
to Whitew 42-foot lo and expos will be red will result	vater River under US 52 at ng, 5-foot by 4-foot RCB. ed rebar. The channel on to quired at the inlet. Ripraper in 90 feet of permanent is	the west end of the project as The existing culvert is in poor he inlet side (north side) is no will also be placed at the culv impacts to UNT 4 to Whitewa imporary impacts to UNT 4 to	rea. Under DES No. 200 or condition, with signifulation in line with the struct ert inlet and outlet. The ater River. Temporary of	01948, this cultrant spalling ture, causing culvert replace	and cracking on the interior moderate erosion, and riprap cement and riprap placement
Structure/I	NBI Number(s):	CLV-91076	Sufficiency Rating:		N/A
				(Ratin	ng, Source of Information)
		Existing	Proposed		
Bri	idge/Structure Type:	3-foot by 3-foot	N/A		
	ımber of Spans:	N/A	N/A		
We	eight Restrictions:	N/A ton	N/A ton		
He	eight Restrictions:	N/A ft.	N/A ft.		
Cu	irb to Curb Width:	N/A ft.	N/A ft.		
Οι	itside to Outside Width:	N/A ft.	N/A ft.		
Sh	oulder Width:	N/A ft.	N/A ft.		
structure nu large. If the	umber, type, size (length an e table exceeds a complete 76 is a 3-foot by 3-foot RC		o water. Use a table if to nd summarize the inforn	he number of nation below v	small structures becomes
of the proj	ject area. No work will occ	ur at this culvert.			
This is	page 6 of 25 Project na	me: US 52 Slide Correction	n/Small Structure Replacer	ment Date	e: September 5, 2024
	, 5 = 2				

ounty _			Route _					
INTENA	ANCE OF TRA	FFIC (MOT)	DURING CON	STRUCTION	l:			
Is a Will to Perform Will to Will to Perform P	Provisions will be Provisions will be Provisions will be the proposed MO tere substantial of the project requipositions will be the project requipositions will be the project requipositions will be the project rest detours, and the project should be the project rest of the project requipositions will be the project rest of the project requipositions will be the project rest of the project requipositions will be the project requipositions will be the project requiposition will be the project requiposition of the project requiposition will be the project requiposition of the project requiposition will be the provisions will be the proposed MO the project requiposition will be the provisions will be the proposed MO the project requiposition of the project requiposition will be the proposed MO the project requiposition will be the project requiposi	vay proposed? ve the use of a made for acce made for thro made to acco DT substantial ontroversy as re a sidewalk, made for acce d/or facilities ( re quantified to	detour or require ess by local traffic ugh-traffic depen mmodate any loc ly change the en- sociated with the curb ramp, and/o ess by pedestriar if any) that will be to the extent possi-	c and so posted dent business cal special ever vironmental corproposed meror bicycle lane as and/or bicycle provided for bible, particular.	ed. es. ents or festivensequences thod for MO closure? (delist and so permaintenance) by with respe	als. s of the action? T? escribe below) posted (describe e of traffic. Any lect to properties	known impa such as Se	ction 4(f) resou
	e detour route w		closure of this sec I-74, and SR 1					
our is exp		ns will pose a	temporary incon	nvenience to 1	raveling mo	otorists (includin	ig school b	uses and emer
our is expected closure vices); he	es/lane restriction	ns will pose a ficant delays a	are anticipated, an	nvenience to 1	raveling mo	otorists (includin	ig school b	uses and emer
our is expectoring colors of the colors of t	es/lane restriction owever, no signi ED PROJECT ( \$ \$204,700 (slide) \$175,000	ns will pose a ficant delays a	are anticipated, an	\$ 30,000 (slide), \$10,000	raveling mo	otorists (includin	\$ 3,016,80 (slide) \$359,000	ouses and emer ject completion 03 (2027)
e closure vices); ho	es/lane restriction owever, no signi ED PROJECT ( \$ \$204,700 (slide) \$175,000	ns will pose a ficant delays a COST AND S  (Pre 2024)  (Pre 2024)	SCHEDULE:  Right-of-Way:	s 30,000 (slide),	raveling moniences and	otorists (includin delays will ceas	s 3,016,80 (slide)	ouses and emer ject completion 03 (2027)
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	County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948
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The existing right-of-way (ROW) on the north and south side of US 52 is forest. The ROW limits follow the edge of pavement throughout the project limits, with a width of 24 feet.

The projects require 1.18 acres of permanent ROW. Approximately 0.32 acre of permanent ROW will be acquired north of US 52 for construction access, and approximately 0.86 acre of permanent ROW will be acquired south of US 52 for construction access, slide correction activities, and the culvert replacement. Approximately 0.02 acre of temporary right-of-way will be acquired for the projects for access and grading to replace the culvert. The proposed ROW width varies from 83 feet to 90 feet.

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.

## 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 March 8, 2023 (Appendix C, pages 1-3).

Agency	Date Sent	Date Response Received	Appendix
INDOT Seymour District Project Manager	3/8/23	None	N/A
INDOT Seymour District Environmental Section Manager	3/8/23	None	N/A
Federal Highway Administration (FHWA)	3/8/23	None	N/A
Midwest Regional Office, National Park Service (NPS)	3/8/23	None	N/A
U.S. Department of Housing and Urban Development	3/8/23	None	N/A
Natural Resources Conservation Service (NRCS)	3/8/23	3/9/23	Appendix C, page 8
U.S. Army Corps of Engineers (USACE)	3/8/23	None	N/A
Indiana Department of Environmental Management (IDEM), Groundwater Section	3/8/23	3/15/23	Appendix C, pages 9-10
Indiana Geological and Water Survey (IGWS)	3/8/23	3/8/23	Appendix C, page 12-13
Indiana Department of Natural Resources, Div. of Fish and Wildlife (IDNR DFW)	3/8/23	4/6/23	Appendix C, pages 4-7
Indiana Department of Transportation, Utilities and Railroads	3/8/23	None	N/A
Ohio-Kentucky Indiana Regional Council of Governments	3/8/23	None	N/A
Dearborn County Highway Department	3/8/23	None	N/A
Dearborn County Commissioner's Office	3/8/23	None	N/A
Dearborn County Council	3/8/23	None	N/A
Floodplain Administrator and Dearborn County Planning and Zoning	3/8/23	None	N/A
Dearborn County Surveyor's Office	3/8/23	3/13/23	Appendix C, page 11
Dearborn County Emergency Management Agency	3/8/23	None	N/A
Dearborn County Sheriff's Department	3/8/23	None	N/A
Harrison Township Fire Department	3/8/23	None	N/A
Harrison Town Council	3/8/23	None	N/A
Sunman-Dearborn Community Schools	3/8/23	None	N/A
Harrison Sand and Gravel Company, Inc.	6/5/23	None	N/A

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

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County	Dearborn	Route	US 52	Des. No	o. <u>2000090 &amp; 2001948</u>	
SECTION	I B – ECOLOGICAL RESO	URCES:				
Stı	reams, Rivers, Watercourses Federal Wild and Scenic River State Natural, Scenic or Recre Nationwide Rivers Inventory (N Outstanding Rivers List for Ind Navigable Waterways	s ational Rivers IRI) listed	onal Features	X X X	Impacts Yes No X X X X X X X	

Linear feet

Total impacted stream(s)

90

Linear feet

1,685

Total stream(s) in project area:

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)
Whitewater River	Riverine, lower perennial, unconsolidated bottom permanently flooded (R2UBH)	410	0	- Located south of US 52, along eastern half of project area - Flows southeast - Traditional navigable water (TNW) - Likely a Water of the U.S. (Appendix B, page 3)
UNT 1 to Whitewater River	Riverine, intermittent, streambed, sand (R4SB3)	390	0	<ul> <li>- Located south of US 52, along western half of project area</li> <li>- Flows southeast into Whitewater River</li> <li>- Likely a Water of the U.S. (Appendix B, page 3)</li> </ul>
UNT 2 to Whitewater River	Riverine, ephemeral (R6)	190	0	- Located south and north of US 52, east of the project area - Flows southwest under US 52 and into the Whitewater River, south of the investigated area Likely a Water of the U.S. (Appendix B, page 3)
UNT 3 to Whitewater River	R6	300	0	- Located south and north of US 52, at the east end of the project area - Flows southwest into Whitewater River, it is parallel to US 52 then flows under the road - Likely a Water of the U.S. (Appendix B, page 3)
UNT 4 to Whitewater River	R6	245	90	- Located south and north of US 52, at the west end of the project area - Flows southwest under US 52 and into UNT 1 to Whitewater River, which flows into Whitewater River - Likely a Water of the U.S. (Appendix B, page 3)
UNT 5 to Whitewater River	R6	150	0	- Located south and north of US 52, west of the project area - Flows southwest into UNT 1 to Whitewater River, which flows into Whitewater River - Likely a Water of the U.S. (Appendix B, page 3)

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

Based on a desktop review, the aerial map of the project area (Appendix B, page 3), and the RFI report (Appendix E, pages 1-11), there are 17 river and stream segments located within the 0.5-mile search radius. There are two river and stream segments, both associated with Whitewater River, within or adjacent to the project area. That number was updated to six streams by the site visit on November 1, 2022, by Little River Consultants.

A Waters of the U.S. Determination/Wetland Delineation Report was approved by INDOT Ecology, Waterway Permitting, and

This is page 9 of 25 Project name: US 52 Slide Correction/Small Structure Replacement Date: September 5, 2024

County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948

Stormwater Office on March 28, 2023. Please refer to Appendix F, pages 1-24 for the *Waters of the U.S. Determination/Wetland Delineation Report*. It was determined that there are six likely jurisdictional streams (Whitewater River and UNTs 1-5 to Whitewater River) within the investigated area. The USACE makes all final determinations regarding jurisdiction.

There are no streams listed as a Federal Wild and Scenic River, a State Natural, Scenic, and Recreational River, nor are there any National Rivers Inventory waterways present in the investigated area. The Whitewater River is listed on the Indiana Register of Outstanding Rivers and Streams in Dearborn County. It is under the following categories: rivers identified in state inventories or assessments, state heritage program sites, canoe trails, and state study rivers. The projects will not impact the Whitewater River.

#### Whitewater River

Whitewater River flows southeast directly south of the project area. A portion of the Whitewater River is within the investigated area. Whitewater River is illustrated as perennial on the USGS 1994 Cedar Grove Quadrangle Map (Appendix B, page 2). Based on field observations, Whitewater River appears to be perennial. Whitewater River is sinuous, with riffle-pool complexes, and moderate riparian investigated Database cover within the area. Per the **USGS** Streamstats (https://water.usgs.gov/osw/streamstats/indiana.html), the upstream drainage area of Whitewater River is 1328.003 square miles. Approximately 410 feet of the Whitewater River flows adjacent to the southwestern portion of the investigated area. Drainage is conveyed towards Whitewater River via a roadside ditch and UNTs.

The Whitewater River is outside of the construction limits and will not be impacted by the projects. The Whitewater River will be marked as "Do Not Disturb" on the roadway plans.

Whitewater River is listed as impaired for Impaired Biotic Communities (IBCs) and Polychlorinated Biphenyls (PCBs). Concerning IBCs, Best Management Practices (BMPs) will be used to avoid further degradation to the stream. Concerning PCBs, 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.

#### **UNT 1 to Whitewater River**

UNT 1 to Whitewater River flows southeast into the Whitewater River within the investigated area. UNT 1 to Whitewater River is not shown on the USGS 1994 Cedar Grove Quadrangle Map (Appendix B, page 2). Based on field observations, UNT 1 to Whitewater River appears to be intermittent as it did not have flowing water during the site visit. UNT 1 to Whitewater River exhibits a maximum ordinary high water mark (OHWM) of 17 feet wide by 1 foot deep. StreamStats reports the upstream drainage area of UNT 1 to Whitewater River as 0.129 square mile. Approximately 390 feet of UNT 1 to Whitewater River flows through the southwestern portion of the investigated area.

UNT 1 to Whitewater River is outside of the construction limits and will not be impacted by the projects. UNT 1 to Whitewater River will be marked as "Do Not Disturb" on the roadway plans.

#### **UNT 2 to Whitewater River**

UNT 2 to Whitewater River is not shown on the USGS 1994 Cedar Grove Quadrangle Map (Appendix B, page 2). Based on field observations, UNT 2 to Whitewater River appears to be ephemeral. UNT 2 to Whitewater River is not shown in StreamStats. UNT 2 to Whitewater River exhibits a maximum OHWM of 3 feet 2 inches wide by 10 inches deep. Approximately 190 feet of UNT 2 to Whitewater River are within the investigated area.

UNT 2 to Whitewater River is outside of the construction limits and will not be impacted by the projects. UNT 2 to Whitewater River will be marked as "Do Not Disturb" on the roadway plans.

#### **UNT 3 to Whitewater River**

UNT 3 to Whitewater River flows adjacent to US 52 then southwest, under US 52 via a culvert, into the Whitewater River within the investigated area. UNT 3 to Whitewater River is not shown on the USGS 1994 Cedar Grove Quadrangle Map (Appendix B, page 2). Based on field observations, UNT 3 to Whitewater River appears to be ephemeral. UNT 3 to Whitewater River is not shown in StreamStats. UNT 3 to Whitewater River exhibits a maximum OHWM of 3 feet 8 inches wide by 1 foot 1 inch deep. Approximately 300 feet of UNT 3 to Whitewater River are within the investigated area.

This is page 10 of 25	Project name:	US 52 Slide Correction/Small Structure Replacement	_ Date:	September 5, 2024	

County	Dearborn	Route	US 52	_	Des. No.	2000090 & 2001948
the stream	ately 80 feet of UNT 3 to Whitewa or to the RCB and it will not be n the roadway plans.					
UNT 4 to within the B, page 2 drainage a	Whitewater River Whitewater River flows adjacent to investigated area. UNT 4 to White to Based on field observations, UN rea of UNT 4 to Whitewater River by 1 foot deep. Approximately 245	ewater River is no NT 4 to Whitewa as 0.044 square	ot shown on thater River app mile. UNT 4	e USGS 1994 (ears to be ephe to Whitewater	Cedar Grove emeral. Stre River exhib	e Quadrangle Map (Appendix amStats reports the upstream its a maximum OHWM of 11
replaceme	cts will result in approximately 9 nt and riprap installation. Approxidewatering.					
UNT 5 to area. UNT field obser UNT 5 to	Whitewater River Whitewater River flows southwes 5 to Whitewater River is not show vations, UNT 5 to Whitewater River water River exhibits a maximum River River are within the investig	wn on the USGS ver appears to be num OHWM of	1994 Cedar ( ephemeral. U	Grove Quadrang NT 5 to White	gle Map (A <sub>l</sub> water River	ppendix B, page 2). Based on is not shown in Stream Stats.
	Whitewater River is outside of the be marked as "Do Not Disturb" on			not be impacte	ed by the pr	ojects. UNT 5 to Whitewater
are not and	ets are anticipated to require USAC ticipated to meet the threshold require repair the landslide and replace the	uiring mitigation.				
minimizin constructing graded ag	W responded on April 6, 2023 g in-channel disturbance, not working temporary runarounds, using signegate or geotextile, erosion and the Environmental Commitments	king in the water x-inch grade rips I sediment meas	way from Apprap, not using sures (Append	ril 1 – June 30, broken concret	not excava te as riprap,	ting in the low flow area, not underlaying riprap with well
				Presence	Impac	te
Ор	en Water Feature(s) Reservoirs Lakes Farm Ponds Retention/Detention Basin		<u>-</u>   	resence	Yes	No

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 likely subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

Storm Water Management Facilities

Other: \_\_

Based on the desktop review, the aerial map of the project area (Appendix B, page 3), and the RFI report (Appendix E, pages 2-3), there are no open water features located within the 0.5-mile search radius. This was confirmed by the site visit on November 1, 2022, by Little River Consultants. Therefore, no impacts are expected.

This is page 11 of 25	Project name:	US 52 Slide Correction/Small Structure Replacement	Date:	September 5, 2024	
			_		

County _	Dearborn	_ Rou	te US 5	2	Des. No.	2000090 & 2001948
Stormwater Delineation	Office on March 28, 2	023. Please referned that there are	to Appendix F, p	pages 1-24 for the	Waters of the	, Waterway Permitting, and <i>U.S. Determination/Wetland</i> area. The USACE makes all
Wetla	ands			<u>Prese</u>		Impacts 'es No
Total wetland	d area: nation has not been ma			vetland area impac s, fill in the total we		O Acre(s) eacted above.)
Wetland No	o. Classification N/A	Total Size (Acres) N/A	Impacted Acres	Comments (i.e. lo reference)	cation, likely V	Vater of the US, appendix
1011	1011	TVIX	Document	ation	ESD A	pproval Dates
Improvous Improvous Improvous S S S S S S S S S S S S S S S S S S S	the features identified. It is mitigate if impacts will be desktop review, the state of the U.S. Determination of the U.S. Determination of the U.S. Determination of the U.S. Although one River, and is considered.	t result in any we at apply and explay and explay and explay acts to adjacent hyproject costs; (ffic, maintenance, cial, economic, or at the identified need the ent or within the proclude if features a coccur.  There are three we are aby the site visit on/Wetland Delin (2023. Please refer the jurisdictional with a city and in-stream fereigned and extractions.)	etland impacts arain): nomes, business of or safety problemenvironmental impacts.  Project area. Inclurate likely subject to project area, and tlands mapped with ton November 1, the action Report was to Appendix F, pretland was identicature. The in-streeting impacts of the same identicature.	e not practicable land of other improved process; practs, or the RFI report (Apthin or adjacent to 2022, by Little Rivers approved by IN ages 1-24 for the same feature is within	mpacts (both purisdiction. Distribution Distribution Distribution DOT Ecology Waters of the ite visit, it is not the Whitewar	n avoidance  Determanent and temporary) cuss measures to avoid,  ge 3), there are 17 wetlands a. That number was updated
	responded on April 6, All applicable recomme					parian wetland (Appendix C, f this CE document.

This is page 12 of 25 Project name: <u>US 52 Slide Correction/Small Structure Replacement</u> Date: <u>September 5, 2024</u>

County	Dearborn	Route _	US 52		Des. No.	2000090 &	2001948
Τe	errestrial Habitat			<u>Presence</u>	Impa Yes X	ots NO	
Total terre	estrial habitat in project area:	0.98	Acre(s)	Total tree clea	aring:	0.63	Acre(s)
or not impa	ypes of terrestrial habitat (i.e. fo acts will occur to habitat identifi a avoid, minimize, and mitigate	ed. Include total ter	restrial habita				
(Appendi the project green ash	a desktop review, a site visit x B, page 3) there is maintain ct area includes boxelder map ( <i>Fraxinus pennsylvanica</i> ), blocanadensis), and daisy fleaba	ed roadside habitat ple ( <i>Acer negundo</i> ), ack walnut ( <i>Juglan</i> a	and forested in silver maple of silver maple of silver maple of silver maple of silver in silver	nabitat on the ad c ( <i>Acer sacchari</i>	jacent slopes. num), Americ	Dominant van elm ( <i>Uln</i>	egetation within nus americana),
culvert re required t smallest e disturbed	ects will require approximately eplacement. Of that 0.98 acre, for the correction of the lands extent possible to complete the areas will be reseeded according.	0.63 acre is tree cl lide and replacement e proposed scope of ing to the current IN	earing. Avoid at of the culver of work. Mitig DOT standard	lance alternative ert. Terrestrial has ation for terrest specifications.	s are not feas abitat impacts rial habitat im	ible as the p have been n spacts is not	roject limits are ninimized to the anticipated. All
revegetation of small-	FW responded on April 6, 2 ion measures, minimizing tree bodied wildlife (Appendix nents section of this CE docum	and brush clearing, C, pages 4-7). A	using erosion	control blankets	that minimize	e the entrapn	nent and snaring
	rotected Species ederally Listed Bats Information for Planning and Section 7 informal consultation Section 7 formal consultation	on completed (IPaC	cannot be cor	npleted)	Yes		No X X
De	etermination Received for Liste	ed Bats from USFWS	S: N	E 1	NLAA X	] LAA	
O	ther Species not included in Additional federal species for State species (not bird) found	ınd in project area (b			Yes X	] [	No
М	igratory Birds Known usage or presence of State bird species based upo		DNR		Yes	] [	No X X
oat and no	NR coordination and species in the coordination and species in the coordination that was and the determination that was a second coordinated the determination that was a second coordinated the determination that was a second coordinated the determination and species in the coordinated the determination and the determination	Discuss if other fed	erally listed sp	oecies were iden	tified. If so, in	clude consult	

occurred 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, pages 1-11), completed by HNTB on June 8, 2023, the IDNR Dearborn

Based on a desktop review and the RFI report (Appendix E, pages 1-11), completed by HNTB on June 8, 2023, the IDNR Dearborn County Endangered, Threatened and Rare (ETR) Species List has been checked. According to the IDNR DFW early coordination response letter dated April 6, 2023 (Appendix C, pages 4-7), the Natural Heritage Program's Database has been checked and the state endangered variegate darter (*Etheostoma variatum*) has been documented within 0.5 mile of the project area. IDNR DFW stated no impacts to the above-mentioned darter should occur as long as proper erosion and sediment control measures are in place.

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County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948
An INDO		occurred on June 23, 2022, a	and did not indicat	e the presence of endan	gered bat species (Appendix
species lis sodalis) a	t was generated (Apper nd the federally threa	ndix C, pages 14-25). The pr	ojects are within rabat (NLEB) (My	ange of the federally en	(IPaC) portal, and an official dangered Indiana bat ( <i>Myotis</i> No additional species were
(NLEB), of Administrates bats/birds and based the NLEB USFWS's concluded removal, tworking in	lated May 2016 (revisation (FTA), and USF found using the struction the responses provise (Appendix C, pages review of the finding they concur with the femporary lighting, and	sed February 2018), between WS. Culvert inspections occures (Appendix C, pages 41 ided, the projects were found 27-40). INDOT reviewed g. No response was received finding. The USFWS provided operator, employee, and control was received and control of the contro	en FHWA, Federa curred on August -42). An effect de d to "may affect – and verified the d from USFWS ed Avoidance and ontractor awarenes	al Railroad Administra 18, 2022, and there we termination key was co not likely to adversely of effect finding on Mar within the 14-day revie Minimization Measures of environmental con	and northern long-eared bat tion (FRA), Federal Transit ere no bats/birds or signs of impleted on March 29, 2023, affect" the Indiana bat and/or ich 29, 2023, and requested ew period; therefore, it was is (AMMs) pertaining to tree imitments and AMMs while convironmental Commitments
42). USFV inspection bats/bat in birds are d	WS Bridge/Structure A of the structures by a dicators and/or present ocumented during this	Assessments are only valid qualified individual, must be ce of birds. The results of the	for two years. If e performed. Inspe e inspection must rict Environmenta	construction will begin ection of the structures a indicate no signs of bat	ares (Appendix C, pages 41- n after August 18, 2024, an should check for presence of s or birds. If signs of bats or acted immediately. This firm
		luded 1.19 acres of tree clea – not likely to adversely affe			as been reduced to 0.63 acre
amended.					Endangered Species Act, as are changed, USFWS will be
Ge	Karst features identifie	Resources the Indiana Karst Region d within or adjacent to the pr abandoned wells identified in		Yes	No X X X

Discuss if project is located in the Indiana Karst Region and if any karst features have been identified in the project area (from RFI). Discuss response received from IGWS coordination. Discuss if any mines, oil/gas, or exploration/abandoned wells were identified and if impacts will occur. Include discussion of karst study/report was completed and results. (Karst investigation must comply with the current Protection of Karst Features during Planning and Construction guidance and coordinated and reviewed by INDOT EWPO)

Based on a desktop review and the Indiana Karst Region map, the projects are located in the designated Indiana Karst Region as outlined in the most current *Protection of Karst Features during Project Development and Construction*. According to the topo map of the project area (Appendix B, page 2), the RFI report (Appendix E, pages 1-11), and the site visit on November 1, 2022, by HNTB, there are no karst features identified within or adjacent to the project area. In the early coordination response dated March 8, 2023, the IGWS did not indicate that karst features exist in the project area (Appendix C, pages 12-13). IGWS also stated that there is high liquefaction potential, a floodway, potential slope instability, low potential for bedrock resources, high potential for

This is page 14 of 25 Project name: US 52 Slide Correction/Small Structure Replacement Date: September 5, 2024

		•	•		
County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948
	gravel resources, and no document esponse from IGWS was shared wi				
located wi	the RFI report (Appendix E, page thin the 0.5-mile search radius. In letter was sent to Harrison Sand	This sand and grav	rel facility is 0.26 mil	le northwest of	the project area. An early
SECTION	C – OTHER RESOURCES				
	nking Water Resources Wellhead Protection Area(s) Source Water Protection Area(s) Water Well(s) Urbanized Area Boundary Public Water System(s)		Presence	Yes	acts No
Check the a	he project located in the St. Joseph If Yes, is the FHWA/EPA SSA MOU If Yes, is a Groundwater Assessme ppropriate boxes and discuss each presponses and any mitigation com-	J Applicable? nt Required? topic below. Provid	le details about impacts		No X e resource-specific
sole source	ts are in Dearborn County, which is e aquifer in the state of Indiana. The to these projects, a detailed ground	nerefore, the FHWA	/EPA Sole Source Aq	uifer Memorand	lum of Understanding is not
	coordination letter dated March 15 ater Assessment Area (Appendix C,			ocated within a	Wellhead Protection Area or
	Water Well Record Database wo wells are located near these project			5.htm) was acc	eessed on July 8, 2023, by
	a desktop review of the INDOT! e not located within an Urban Area				TB on June 23, 2023, these
Based on a	a desktop review, a site visit on N B, page 3), no public water system	ovember 1, 2022, bus were identified. T	y Little River Consult herefore, no impacts an	ants, and the ae	rial map of the project area
	odplains Project located within a regulated fl Longitudinal encroachment Transverse encroachment Homes located in floodplain within	·	Presen  X  X  m from project	Yes X	
This is	page 15 of 25  Project name: _	US 52 Slide Correction	on/Small Structure Replac	cement Date:	September 5, 2024

County Dearborn	Route	US 52	Des. No.	2000090 & 2001948
If applicable, indicate the Flood	plain Level?			
Level 1 Level 2	X Level 3	Level 4	Level 5	
Use the IDNR Floodway Information Polaccording to the classification system. It during design to insure consistency with	f encroachment on a flo	od plain will occur, co		
Based on the desktop review of the I water/indiana-floodplain-mapping/ind project construction limits are within page 9). An early coordination lett administrator did not respond within Manual because the culvert to be replained.	iana-floodplain-informa a regulatory floodplain er was sent on Marc the 30-day time fram	ation-portal/) by HN n as determined from h 8, 2023, to the le. The projects quali	TB, on June 23, 20 approved IDNR floocal Floodplain Actify as a Category 2	023, a small portion of the bodplain maps (Appendix F, Iministrator. The floodplain
- Category 2 – "This project vaddition of any new drainage project will not increase floor routes; therefore, it has been determined by the control of the c	e structures. As a resud risks or damage, and	lt, this project will n it will not adversely	ot affect flood heigh affect existing emer	nts or floodplain limits. This
<b>Farmland</b> Agricultural Lands Prime Farmland (per NRCS	)	Prese		Impacts /es No
Total Points (from Section VI *If 160 or greater, see CE Manua		)		
Discuss existing farmland resources in to considered.	he project area, impacts	s that will occur to farr	mland, and mitigation	and minimization measures
Based on a desktop review, a site vis (Appendix B, page 3), there is no lar within or adjacent to the project area expected.	nd that meets the defin	nition of farmland un	der the Farmland Pr	rotection Policy Act (FPPA)
An early coordination letter was sent projects will not cause a conversion of			CS responded on Ma	arch 9, 2023, stating that the
•				
SECTION D - CULTURAL RESOL	JRCES			
Minor Projects PA Cates	gory(ies) and Type(s) gory B, Types 3, 9, and 10		INDOT Approva January 22,	
Full 106 Effect Finding No Historic Properties Affec	ted No Ad	dverse Effect	Adverse Effect	
This is page 16 of 25 Project na	ne: US 52 Slide Corr	ection/Small Structure	Renlacement Date	: September 5-2024

Version: December 2021

County	Dearborn	Route	US 52	•	Des. No.	2000090 & 2001948	
County	Beardon				DC3. 110.	2000030 & 20013 10	_
EI	igible and/or Listed Resources Pre NRHP Building/Site/District(s)	esent Archae	eology	NF	RHP Bridge(s)		
Do	APE, Eligibility and Effect Determina 800.11 Documentation Historic Properties Report or Short I Archaeological Records Check and Archaeological Phase Ia Survey Re Archaeological Phase Ic Survey Re Other:	Report Assessment port	X	January 22, 2024 January 22, 2024		N/A N/A	
	Memorandum of Agreement (MOA)		MO	A Signature Da	ates (List all s	signatories)	
full Section local newsp	ot falls under the MPPA, describe the 106, use the headings provided. The papers. Please indicate the publication of work which must be completed at a	e completion of to on date, name of	he Section 106 the paper(s) a	on process requinate the process required the commer	res that a Leg nt period dead	al Notice be publishe Iline. Include any furt	ed in
MPPA C acceleration that no N area.	ry 22, 2024, the INDOT Cultural IB, Types 3, 9, and 10 under the Minategory B-3 projects include conson and deceleration lanes) and shoulational Register-listed or potentially attegory B-9 projects include the in	or Projects Prog struction of ad- alder widening in y National Reg	rammatic Agro ded travel, tu n undisturbed ister-eligible a	eement (Appendrning, auxiliar soils when an archaeological a	dix D, pages ry lanes (e.g archaeologic resources are	1-7).  bicycle, truck cli al investigation dete present within the	mbing, ermines project
structures	when work occurs in undisturbed so y National Register-eligible archaeol	oils and an archa	aeological inve	estigation deter	mines that no		
when an	ategory B-10 projects include slide archaeological investigation deter gical resources are present within the	mines that no					
conducted During th not eligib inclusion;	a archaeological survey was comple l, and no previously conducted stude e field reconnaissance, three previousle for inclusion in the National Re however, the right-of-way and control is recommended at the site in ass	lies or previous usly unrecorded gister of Histor nstruction limits	ly recorded an archaeologica ic Places (NR for the property)	chaeological si l sites were loc HP). One of the osed projects a	ites were fou cated, each of the sites could are outside of	nd within the project which were recommend not be fully assess	et area. nended sed for
No furthe have been	r consultation is required. This com fulfilled.	pletes the Section	on 106 proces	s and responsil	oilities of the	FHWA under Section	on 106

County Dearborn	Route _	US 52	Des. No.	2000090 & 2001948
SECTION E – SECTION 4(f) RESOURC	ES/ SECTION	l 6(f) RESOURCE	S	
Parks and Other Recreational Land Publicly owned park Publicly owned recreation area Other (school, state/national forest, bikewa 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 NRHP	Pres		Se No	
Programmatic Section 4(f) "De minimis" Impact Individual Section 4(f) Any exception included in 23 CFR 774.13  Discuss Programmatic Section 4(f) and "de minimust be included in the appendix and summaris FHWA has identified various exceptions to the section 4(f) of the U.S. Department of Transfunded transportation facilities unless there parks, recreation areas, wildlife / waterfowl r subject to this law are considered Section 4(f)  Based on a desktop review, the aerial map of there is a potential Section 4(f) resource (a additional research and the Phase 1a archaeol	portation Act of is no feasible a efuges, and NF or resources.  The project are historic canal	f 1966 prohibits the and prudent alternat RHP eligible or listed the (Appendix B, page), Whitewater Canal	use of certain public active. The law applies to this toric properties rege 3), and the RFI reposition within the 0.5-mile	requirements of Section 4(f). 274.13 - Exceptions. and historic lands for federally to significant publicly owned gardless of ownership. Lands out (Appendix E, pages 1-11), search radius. According to
resources are anticipated to be impacted by texpected.  Section 6(f) Involvement  Section 6(f) Property				
Discuss Section 6(f) resources present or not p will occur, discuss the conversion approval.	resent. Discuss	s if any conversion w	rould occur as a result (	of this project. If conversion
The U.S. Land and Water Conservation Fundamental to preserve, develop, and assure access of lands purchased with LWCF monies to a n	essibility to out	door recreation reso		
A review of 6(f) properties on the INDOT EST Dearborn County (Appendix I, page 1). None will be no impacts to 6(f) resources.				

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County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948
SECTIO	N F – Air Quality				
ls Is Is	TIP/TIP and Conformity Statu the project in the most current the project located in an MPO the project in an air quality nor Yes, then: Is the project in the most curr Is the project exempt from co If No, then: Is the project in the Transp Is a hot spot analysis requ	STIP/TIP? Area? n-attainment or mainteent MPO TIP? nformity? portation Plan (TP)?	enance area?	Yes No X X X X	
	ocation in STIP:		O	Y 2024-2028 STIP Amendm hio-Kentucky-Indiana Regio	
	ame of MPO (if applicable): cation in TIP (if applicable):			overnments Y 2024-2027 TIP Administra	ative Modification #5
	evel of MSAT Analysis required	12	<u></u>	. 202 . 202 , 111 1 201111111	
	evel 1a X Level 1b	Level 2	Level 3	Level 4 Level 5	
The projestandard, Requests  The projestandard, Requests	the project is listed in the STIF dicate whether the project is extended in the Fiscal action Improvement Program (2024-2028 Statewide Transports are located in Dearborn Coaccording to IDEM's Current for Redesignation and Maintended acts are of a type qualifying as printy rule under 40 CFR 93.15	empt from a conformalysis is required and I Year (FY) 2024-20 TIP) in Administrative ortation Improvement bunty, but is outside cand Historical List of mance Plans). Therefore a categorical exclusi	ity determination. the MSAT Level. 27 Ohio-Kentuc ve Modification # Program (STIP) of the Lawrence T Nonattainment A ore, the conformit on (Group 1) und	ky-Indiana Regional Cou †5 (November 7, 2023) w via Amendment 7 (Apper Fownship maintenance are Areas by County (IDEM: ty procedures of 40 CFR I der 23 CFR 771.117(c) or	incil of Governments (OKI) thich is directly incorporated adix H, pages 1-5).  The afor the 2008 8-hour ozone of the Implementation Plans: Part 93 do not apply.  Example 1 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -
SECTIO	N G - NOISE				
ls Da Describe if	oise a noise analysis required in ac ate Noise Analysis was approv the project is a Type I or Type fied. If noise impacts were ider	ed/technically sufficie	nt by INDOT ESD pe I project, desc	o:ribe the studies completed	d to date and if noise impacts
	ojects are Type III projects. In a laysis Procedure, this action do				nt of Transportation Traffic
This is	s page 19 of 25 Project nam	e: US 52 Slide Cor	rection/Small Struc	cture Replacement Date	: _September 5, 2024

Coun	ty Dearborn	Route	US 52	Des. No.	2000090 8	<u> </u>	
SECT	ION H - COMMUNITY IMPA	стѕ					
	Regional, Community & Neig	hborhood Factors			Yes	No	
	Will the proposed action complete	y with the local/regiona	al development patter	ns for the area?	X		
Will the proposed action result in substantial impacts to community cohesion?						X	
	Will the proposed action result	in substantial impacts	to local tax base or p	roperty values?		X	
	Will construction activities impa	ct community events (	festivals, fairs, etc.)?			X	
	Does the community have an a	pproved transition plan	า?		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.

If No, are steps being made to advance the community's transition plan?

Does the project comply with the transition plan? (explain in the discussion below)

The projects will ultimately be beneficial to local businesses and properties due to mitigating the potential for future slide activity along US 52 within the project limits. Overall, the negative impacts to property owners within the project area will be minimal and will consist primarily of short-term construction impacts. Property owners will be provided access throughout the duration of construction to reduce impacts to the greatest extent feasible. The projects are not anticipated to result in substantial impacts to community cohesion, because it will not change access to properties within the area. The projects are not expected to impact the surrounding community or cause economic impacts to the surrounding area. If these project improvements are not implemented, there would be continued sliding of the roadway slope and eventual failure of the road, which would incur long standing adverse community and economic impacts.

Per the 2021 Indiana Festival Guide (<a href="https://indianafestivals.org/">https://indianafestivals.org/</a>) accessed on June 23, 2023 by HNTB, there are two scheduled festivals in Dearborn County, which are located at the opposite (southeast) end of the county, at least 15 miles away in Lawrenceburg and Aurora. The projects will close US 52 and utilize a detour during construction, which will last approximately three months.

The MOT may pose delays and temporary inconveniences to traveling motorists; however, all inconveniences will cease upon project completion.

Dearborn County has an approved Americans with Disabilities Act (ADA) Transition Plan. However, the projects are within a rural portion of the County without pedestrian facilities and is not included in the ADA Transition Plan.

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

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

Based on a desktop review, the aerial map of the project area (Appendix B, page 3), and the RFI report (Appendix E, page 2), there are no public facilities within the 0.5-mile search radius, which was confirmed by the site visit on November 1, 2022, by Little River Consultants. Therefore, no impact is expected. Access to all properties will be maintained during construction.

Early coordination letters were sent to Sunman-Dearborn Community Schools, Dearborn County Commissioner's Office, Dearborn County Council, Dearborn County Highway Department, Dearborn County Planning and Zoning, Dearborn County Emergency Management Agency, Dearborn County Surveyor's Office, Dearborn County Sheriff's Department, Harrison Township Fire Department, and the Harrison Town Council on March 8, 2023. To date, no response was received from these entities, other than the Dearborn County Surveyor's Office, who indicated that they were not aware of any concerns.

It is the responsibility of the projects' 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 20 of 25	Project name:	US 52 Slide Correction/Small Structure Replacement	Date:	September 5, 2024

County	Dearborn	Route	US 52	Des. No.	2000090	& 2001948
Er	nvironmental Justice	(EJ) (Presidential EO 12898)	)		Yes	No
During the development of the project were EJ issues identified?					X	
Do	pes the project require	an EJ analysis?			Х	
If `	YES, then:	•				
	Are any EJ populat	tions located within the projec	t area?			X
	Will the project res	ult in adversely high and disp	roportionate impacts t	o EJ populations?		X

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

Under FHWA Order 6640.23A, FHWA and INDOT, as 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 Preparation Manual, an Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 acre or greater of additional permanent ROW. These projects do not require relocations but will require approximately 1.18 acres of new permanent ROW. Therefore, an EJ analysis is required.

Potential EJ impacts are detected by locating minority and low-income populations relative to a reference population to determine if populations of EJ concern exist 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 these projects, the COC is Dearborn County. The community that overlaps the project area is called the affected community (AC). In these projects, the AC is Census Tract 802.04.

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 American Community Survey five-year estimates data (2017-2021) was obtained from the U.S. Census Bureau website (<a href="https://data.census.gov/">https://data.census.gov/</a>) on April 14, 2024. The data collected for minority and low-income populations within the AC are summarized in the table below.

	COC – Dearborn County, Indiana	AC 1 – Census Tract 802.04, Dearborn County, Indiana
MINORITY POPULATION		
Percent minority	4.45%	6.03%
125 Percent of COC	5.56%	
AC Percent Minority Greater Than 125 Percent of COC?		Yes
AC Percent Minority Greater Than 50 Percent?		No
Population of EJ Concern?		Yes
LOW- INCOME POPULATION		
Percent Low-Income	8.46%	4.68%
125 Percent of COC	10.58%	
AC Percent Low-Income Greater Than 125 Percent of COC?		No
AC Percent Low-Income Greater Than 50 Percent?		No
Population of EJ Concern?		No

The AC, Census Tract 802.04, has a percent minority population of 6.03%, which is below 50%; however, it is greater than the 125% COC threshold. Therefore, the AC Census Tract has a minority population of EJ concern.

The AC, Census Tract 802.04, has a percent low-income population of 4.68%, which is below 50% and below the 125% COC threshold. Therefore, the AC Census Tract does not have a low-income population of EJ concern.

The census data sheets, map, and calculations can be found in Appendix I, pages 14-16. All the aforementioned ROW is located

This is page 21 of 25	Project name:	US 52 Slide Correction/Small Structure Replacement	Date:	September 5, 2024

County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948
and still a					etely avoid ROW acquisition rork cannot be accomplished
provided is expecte Road, as v	during the closure. The det d to be in place for three r	our route will use US 52 nonths. Additionally, loc project area. This local re	, I-74, and SR 1, a al roads can be ut oute is approximate	and will be approximate ilized, specifically along ely 7 miles long. Access	nstruction. A detour will be ly 20 miles long. The detour g St. Peters Road and Barber to private properties will be
without E		will cease upon completion	on of the projects.		J concerns and populations associated with construction
stabilizing for future	g the roadway embankmen	t south of US 52, and reing traffic mobility and	storing hydraulic a safety for the tra	adequacy in the area; th	improving the failed slope, us, minimizing the potential ion is taken, the slope will
EJ analys adverse e	is on May 15, 2024, statin ffect on minority and/or leading to the state of the sta	g that the impacts associ ow-income populations of	ated with the proj of EJ concern rela	ects would not cause a ntive to non-EJ populat	rred with the findings of the disproportionately high and ions in accordance with the ired (Appendix I, page 13).
Re	elocation of People, Busir	esses or Farms			Yes No
W	ill the proposed action resu a BIS or CSRS required?		ole, businesses or	farms?	X
Νι	umber of relocations:	Residences: 0	Businesses:	0 Farms: 0	Other: 0
Discuss an	y relocations that will occur	due to the project. If a BI	S or CSRS is requ	ired, discuss the results	in the discussion below.
No reloca	tions of people, businesses	or farms will take place	as a result of these	e projects.	
SECTIO	N I – HAZARDOUS MAT	ERIALS & REGULAT	ED SUBSTANC	ES	
				<u>Document</u>	ation
	azardous Materials & Reg ed Flag Investigation (RFI)	<b>ulated Substances</b> (Mar	k all that apply)	X	٦
	nase I Environmental Site A	ssessment (Phase I ESA	)	_ X	
	nase II Environmental Site A esign/Specifications for Rer		A)		
Da	ate RFI concurrence by IND	OT SAM (if applicable):	June 30, 2023		

This is page 22 of 25 Project name: <u>US 52 Slide Correction/Small Structure Replacement</u> Date: <u>September 5, 2024</u>

County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948
adjacent to,	ummary of the potential hazardous or ones that could impact the pro pay quantities, etc.) will be needed	ject area. Refer to	current INDOT SAM	guidance. If addition	
provided project are	a review of GIS and available patheir concurrence on June 30, 20 ea. The hazmat site identified with this time.	023 (Appendix E,	pages 1-11). One N	PDES facility is loc	cated within 0.5 mile of the
	<u>Part</u>	IV – Permit	s and Comm	<u>itments</u>	
PERMITS	S CHECKLIST				
Pe	ermits (mark all that apply)		Likely Required		
IN (40 IN Mi US Ot	my Corps of Engineers (404/Sec Nationwide Permit (NWP) Regional General Permit (RO Individual Permit (IP) Other  Department of Environmental No O1/Rule 5) Nationwide Permit (NWP) Regional General Permit (RO Individual Permit (IP) Isolated Wetlands Rule 5 Other  Department of Natural Resourc Construction in a Floodway Navigable Waterway Permit Other tigation Required S Coast Guard Section 9 Bridge hers (Please discuss in the dis	Management  GP)  es  Permit cussion below)	X  X  Average of the permits are needed.	ded including permi	ts designated as "Other"
A USACE be require disturbance placed bel	E Section 404 Nationwide Permit ed for the projects. An IDEM of the will be less than one acre. An I low the base flood elevation.	and IDEM Section  Construction Stori  DNR Construction	a 401 Nationwide War mwater General Perr a in a Floodway (CIF)	ter Quality Certificat nit (CSGP) is not permit is not antici	tion Permit are anticipated to anticipated because ground pated because fill will not be
document	e recommendations provided by . If permits are found to be necess mmendations.				
It is the re	sponsibility of the projects' spons	or to identify and	obtain all required per	rmits.	
This is	page 23 of 25 Project name:	US 52 Slide Corre	ection/Small Structure F	Replacement Date	: _September 5, 2024

		Indiana Departi	ment of Trans	portation	
County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948
ENVIR	ONMENTAL COMMITM	IENTS			
	mmitments and include the numbered.	e name of agency/organiza	tion requesting/requ	uiring the commitment(s	). Listed commitments
Firm:					
1.					OT Environmental Services 7. (INDOT ESD and INDOT
2.		the project sponsor to noti would block or limit access		ons and emergency serv	ices at least two weeks prior
3.		JNT 1 to Whitewater River be marked as "Do Not Dis			/hitewater River, and UNT 5
4.	will begin after August 1 the structure should chee indicate no signs of bat	8, 2024, an inspection of the ck for presence of bats/bat	he structure by a que indicators and/or page or birds are document	nalified individual, must resence of birds. The re-	construction. If construction be performed. Inspection of esults of the inspection must pection, the INDOT District
5.	Biotic Communities (II (BMPs) will be used to	BCs) and Polychlorinated avoid further degradation g workers are not eating l	Biphenyls (PCBs to the stream. Con	). Concerning IBCs, Incerning PCBs, exposu	ed as impaired for Impaired Best Management Practices are to PCBs in fish tissue is water body. Workers will be
6.					n or presumed bat habitat are uding all applicable AMMs.
7.	Lighting AMM 1: Direct (USFWS)	temporary lighting away f	rom suitable habitat	during the active seaso	on (April 1 to September 30).
8.	Tree Removal AMM 1:	Modify all phases/aspects	of the project (e.g.,	temporary work areas,	alignments) to avoid tree

removal. (USFWS)

- Tree Removal AMM 2: Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/rail surface and outside of documented roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed. (USFWS & IDNR DFW)
- 10. Tree Removal AMM 3: Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits). (USFWS)
- 11. Tree Removal AMM 4: Do not remove documented Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or documented foraging habitat any time of year. (USFWS)

This is page 24 of 25	Project name:	US 52 Slide Correction/Small Structure Replacement	Date:	September 5, 2024

County	Dearborn	Route	US 52	Des. No.	2000090 & 2001948

#### For Further Consideration:

- 1. 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). Where riprap must be used, we recommend placing only enough riprap to provide stream bank toe protection, such as from the toe of the bank up to the ordinary high water mark (OHWM). The banks above the OHWM should be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to the area and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. (IDNR DFW)
- 2. Soft armoring and bioengineering techniques should be considered first, with hard armoring (e.g. riprap or glacial stone) used only where absolutely necessary. In many instances, one or more methods are necessary to increase the likelihood of vegetation establishment. Combining vegetation with most bank stabilization methods can provide additional bank protection and help reduce impacts upon fish and wildlife. If hard armoring is needed, wildlife passage can be facilitated by using a smooth-surfaced armoring material instead of riprap, such as articulated concrete block mats, fabric-formed concrete mats, or other similar smooth surfaced material. (IDNR DFW)
- 3. For crossing replacements, the new structure must include wildlife passage appropriate for the type of replacement structure being proposed. All wildlife passage designs must include a smooth level pathway a minimum of 1-2 feet in width composed of natural substrate (soil, sand, gravel, etc.) or compacted aggregate fill over riprap (#2, #53, #73, etc.) tied into existing elevations both upstream and downstream. The stream crossing repairs or modifications, and any bank stabilization under or around the structure, must not create conditions that are less favorable for wildlife passage when compared to existing conditions. Upgrading wildlife passage for rehabilitated/modified structures is encouraged whenever possible to improve wildlife/vehicle safety. (IDNR DFW)
- 4. When designing a new or replacement structure, bridges are recommended over culverts, and three-sided culverts are recommended over box or pipe culverts. Multiple culverts or culverts with multiple openings are not recommended. These types of structures are often problematic for fish and wildlife passage as they tend to accumulate debris and become blocked. If box and pipe culverts must be used, the culvert bottoms should be sumped a minimum of 6" (or 20% of the culvert height or diameter, whichever is greater up to a maximum of 2') below the stream bed elevation. Sumping is not required for bridges or three-sided culverts. Crossings must span the entire channel width (a minimum of 1.2 times the ordinary high water mark width). Crossings must maintain the natural stream substrate within the structure (natural stream substrate must be replaced in sumped box and pipe culverts up to the existing flowline). Scour protection at the inlet and outlet must not extend above the existing flowline elevation to maintain aquatic organism passage. Stream depth, channel width and water velocities in the crossing structure during low-flow conditions must approximate those in the natural stream channel. (IDNR DFW)
- 5. Impacts to non-wetland forest of one acre or more in a rural or urban area should be mitigated at a minimum 2:1 ratio based on area of impact. Impacts to non-wetland forest under one acre but at least 0.10 acre in a rural or urban area should be mitigated at a minimum 1:1 ratio based on area of impact. Seeding and stabilizing disturbed areas is required regardless of the impact amount and location. If floodway impacts to forested wetland and non-wetland habitat areas combine to be 0.10 acres or more, mitigation should be done and coordinated with the biologist, as needed. (IDNR DFW)
- 6. Do not excavate in the low flow area except for the placement of the shotcrete wall, new structure, or riprap and reshaping the bank or removal of the old structure. (IDNR DFW)
- 7. Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds. (IDNR DFW)
- 8. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids. (IDNR DFW)
- 9. Erosion control blankets should be heavy-duty, biodegradable, and net free or that use loose-woven/Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles. (IDNR DFW)

This is page 25 of 25	Project name:	US 52 Slide Correction/Small Structure Replacement	Date:	September 5, 2024	

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US 52 Slide Correction and Small Structure Replacement Dearborn County, Indiana Des. Nos. 2000090 & 2001948

**Appendix A: INDOT Supporting Documentation** 

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

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

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

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

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

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

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

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

<sup>&</sup>lt;sup>7</sup> Avoidance and Mitigation Measures (AMMs) determined by the IPAC determination key to be required that are not tree AMMs, bridge AMMs, or structure AMMs.

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

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

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

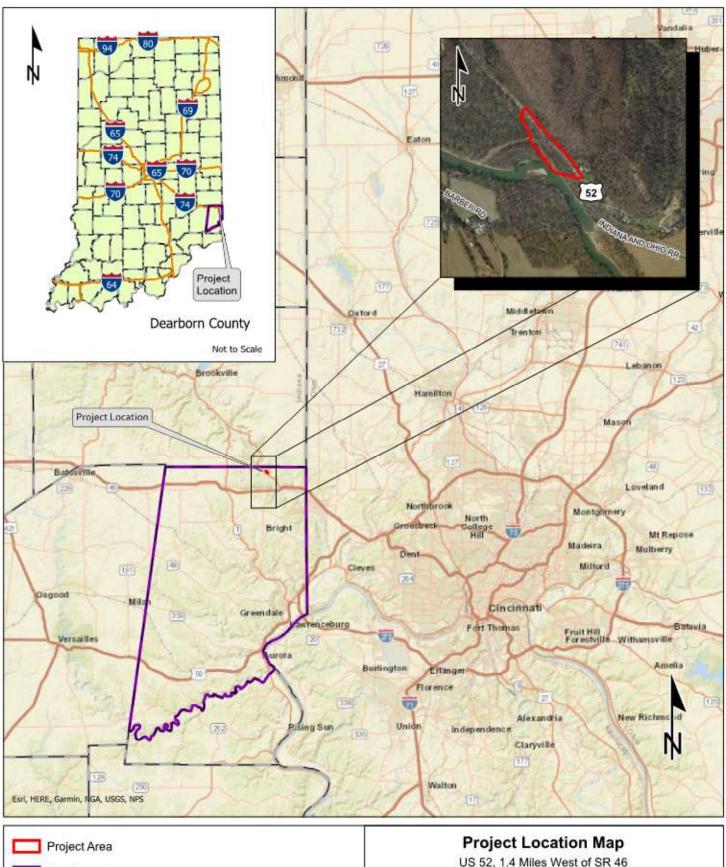
<sup>&</sup>lt;sup>11</sup> Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

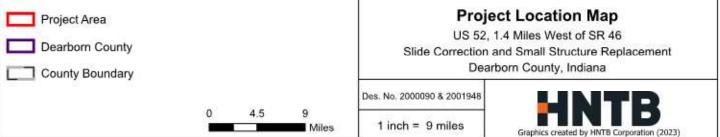
<sup>\*</sup> Includes the threatened/endangered species critical habitat

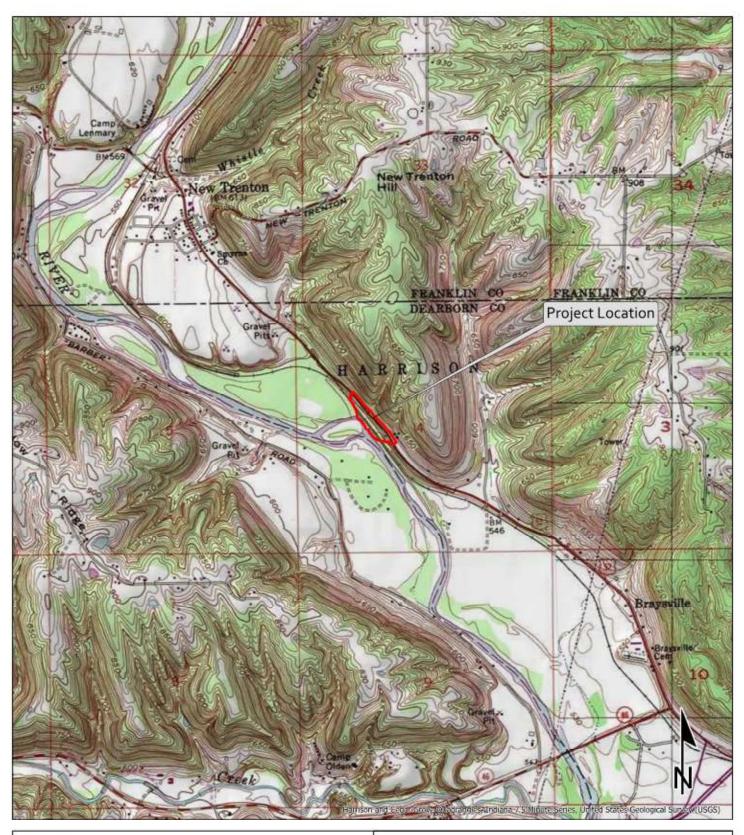
Note: Substantial public or agency controversy may require a higher-level NEPA document.

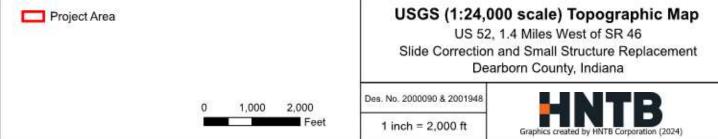
US 52 Slide Correction and Small Structure Replacement Dearborn County, Indiana Des. Nos. 2000090 & 2001948

**Appendix B: Graphics** 

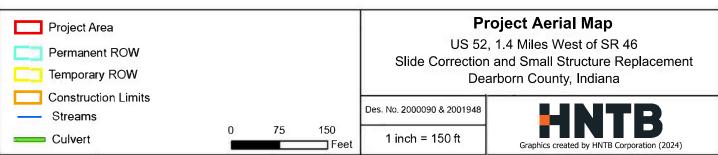




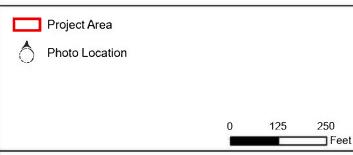












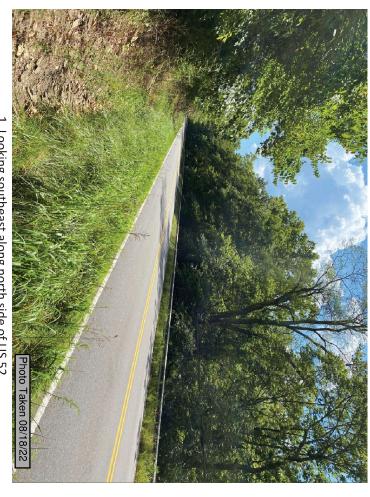
## **Photo Location Map**

US 52, 1.4 Miles West of SR 46 Slide Correction and Small Structure Replacement Dearborn County, Indiana

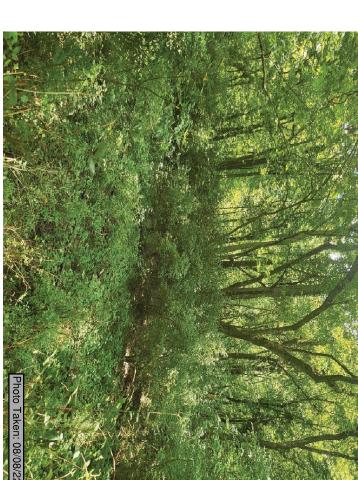
Des. No. 2000090 & 2001948

1 inch = 250 ft

Graphics created by HNTB Corporation (2023)



1. Looking southeast along north side of US 52



2. Looking south to wooded area south of US 52

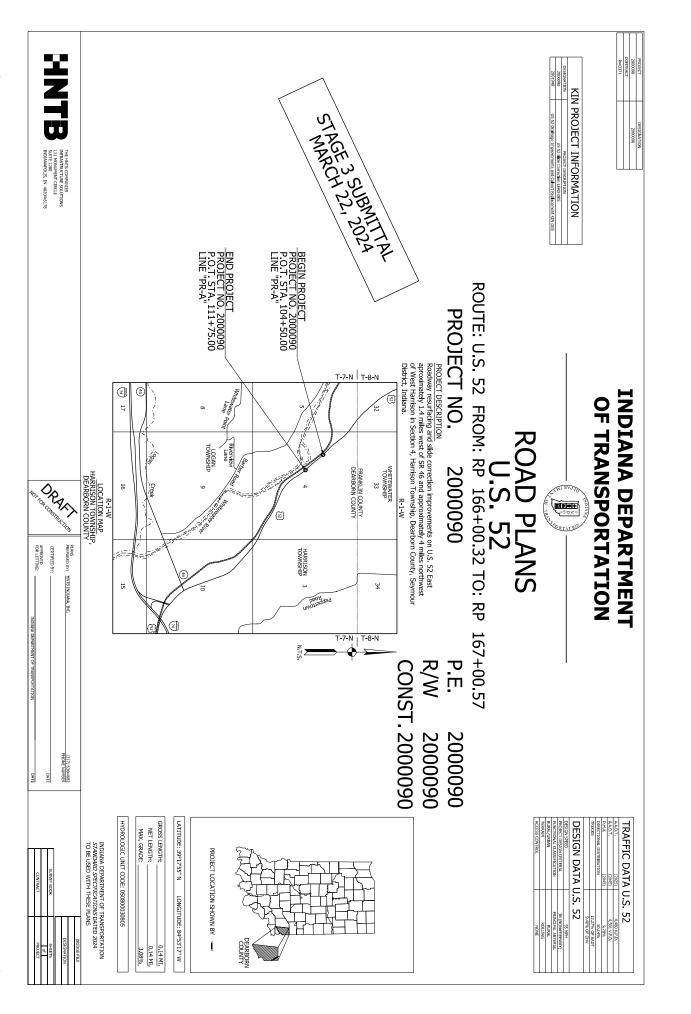


4. Looking northwest along south side of US 52, note the steep slope adjacent to the road



5. Looking southeast along north side of US 52





STIER, VINCENT ET UX.

109+00

Blectric Basement in favor of Whitewater Couporation (procise location unknown)

Corporation (procise location unknown)

110+00

111+00

112+00

113+00

114+00

1,15+00

US 52 Slide Correction and Small Structure Replacement Dearborn County, Indiana Des. Nos. 2000090 & 2001948

**Appendix C: Early Coordination** 



## INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (855) 463-6848 (855) INDOT-4U

Eric J. Holcomb, Governor Michael Smith, Commissioner

March 9, 2023

**Example Early Coordination Letter** 

Via Email to Early Coordination List

Re: Early Coordination Letter

Des. Nos. 2000090 and 2001948, State Project US 52, 1.4 Miles West of State Road (SR) 46

Slide Correction

Dearborn County, Indiana

To Whom it May Concern:

The Indiana Department of Transportation (INDOT), with federal funding, intends to proceed with a Slide Correction project on US 52 in Dearborn County, Indiana. This letter is part of the early coordination phase of the environmental review process. We request comments from you regarding any potential environmental or community effects associated with this proposed project of which you are aware. **Please use the above designation numbers and description in your reply.** We will incorporate your comments into a study of the project's environmental effects.

**Project Location:** This project is located on US 52, approximately 1.4 miles west of SR 46. More specifically, the project is located in Section 4, Township 7 North, Range 1 West, in Harrison Township, Indiana.

**Existing Conditions**: This section of US 52 is a two-lane Principal Arterial with a speed limit of 45 miles per hour (mph). The existing roadway has 12-foot lanes with 2-foot usable shoulders and guardrail along the south roadway edge. The guardrail is in poor condition and does not appear to meet height requirements. In addition, the existing horizontal alignment does not meet minimum INDOT Design Manual horizontal alignment design criteria as the existing horizontal curves have inconsistent super-elevations.

There is an existing 4-foot by 4-foot reinforced concrete box (RCB) culvert (CV 052-015-166.97) within the project area, located approximately 0.09 mile southeast of the northern project area terminus. The culvert is in poor condition, with significant spalling and cracking on the interior and exposed rebar. The channel on the inlet side (north side of US 52) is not in line with the structure, causing moderate erosion. There is also heavy debris and evidence of overtopping. There is a 3-foot by 3-foot concrete culvert (CV 52-015-166.70) within the project area, located approximately 0.06 mile northwest of the southern project area terminus. There is spalling and cracking at the culvert inlet and outlet.

**Purpose and Need**: The purpose of the project is to mitigate soil erosion on the south side of the US 52 roadway. The need for this project is due to continued bank erosion along the south side of US 52.

**Proposed Project**: The proposed project includes the excavation of the slope south of US 52 and the installation of a soil nail wall to stabilize the land slide. Steel wire mesh encased in shotcrete will be placed against the excavated slope. The heads of the soil nail anchors will be encased in shotcrete. The roadway within the project area will be milled and overlaid. Guardrail will be replaced along the eastbound lane. The aggregate shoulder along the south edge of the roadway will be replaced with hot mix asphalt (HMA). Culvert CV 052-015-166.97 will be replaced with a 5-foot by 5-foot RCB under Des. No. 2001948. Riprap will be placed at the inlet and outlet. The inlet and outlet location for Culvert CV 52-015-166.70 will be regraded, and riprap will be placed at the inlet and outlet. Existing overhead electric poles along the south edge of the roadway will be reset or relocated.

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