

Des No. 1801684

Appendix E

Red Flag and Hazardous Materials



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758-ES
Indianapolis, Indiana 46204

PHONE: (317) 232-5113
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Eric Holcomb, Governor
Joe McGuinness,
Commissioner

Date: December 22, 2020

To: Site Assessment & Management
Environmental Policy Office - Environmental Services Division (ESD)
Indiana Department of Transportation
100 N Senate Avenue, Room N642
Indianapolis, IN 46204

From: Ty Gallahan
Seymour District
1104 Prospect Street
Indianapolis, IN 46203
tgallahan@sjcainc.com

Re: RED FLAG INVESTIGATION
DES 1801684, State Project
Slide Correction Project
SR 7, Approximately 0.5 Mile north of SR 56
Jefferson County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: The Indiana Department of Transportation (INDOT) and the Federal Highway Administration (FHWA) intend to proceed with a slide correction project along SR 7, approximately 0.5 mile north of SR 56, within Madison city limits. This project aims to stabilize three sliding masses along the roadway in order to keep SR 7 open and operational. The preferred alternative is to construct a soil nail wall starting at a distance of approximately 8 feet from the edge of pavement, which will stabilize the downslope roadway embankment. The project will also include curb and gutter along the downslope side in front of the soil wall, mill and resurface, inlet cleaning, replacement of at least 2 drainage pipes, repair of upslope drainage paved ditch, and replacement of guardrail.

Bridge and/or Culvert Project: Yes No Structure #

If this is a bridge project, is the bridge Historical? Yes No , Select Non-Select

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

Proposed right of way: Temporary # Acres _____ Permanent # Acres 0.96 Not Applicable

Type and proposed depth of excavation: Excavation will occur on the western side of the project, approximately 8 feet away from the roadway, with a maximum expected depth of 25 feet.

Maintenance of traffic: A full road closure of SR 7 is expected, with a detour planned to utilize SR 56, & US 421 & SR 62.

Work in waterway: Yes No Below ordinary high water mark: Yes No

State Project: LPA:

Any other factors influencing recommendations: N/A

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Religious Facilities	1	Recreational Facilities	1
Airports ¹	1	Pipelines	4
Cemeteries	5	Railroads	2
Hospitals	N/A	Trails	4
Schools	4	Managed Lands	2

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

Explanation:

Religious Facilities: One (1) religious facility is located within the 0.5 mile search radius. The nearest facility is The Church of Jesus Christ of Latter-day Saints, located 0.35 mile east of the project area. No impact is expected.

Recreational Facilities: One (1) recreational facility is located within the 0.5 mile search radius. The nearest facility is Madison Shawe High School and Pope John XXIII Jr. High and Elementary School, located 0.41 mile northeast of the project area. No impact is expected.

Airports: Although not located within the 0.5 mile search radius, one (1) public airport, Madison Municipal Airport, is located within 3.8 miles (20,000 feet) of the project area. The public airport is located approximately 3.7 mile west of the project area; therefore, early coordination with INDOT Aviation will occur.

Pipelines: Four (4) pipeline segments are located within the 0.5 mile search radius. The nearest segment, associated with Indiana Gas Co. Inc., is located approximately 0.31 mile west of the project area. No impact is expected.

Cemeteries: Seven (7) cemeteries are located within the 0.5 mile search radius. The nearest facility is the Springfield Cemetery, located 0.41 mile southeast of the project area. No impact is expected.

Railroads: Two (2) railroads are located within the 0.5 mile search radius. The nearest segment, an inactive unknown railroad, is located 0.11 mile west of the project area. No impact is expected.

Trails: Four (4) trail segments are located within the 0.5 mile search radius. The nearest segment, Hillside trail, is located 0.24 mile southwest of the project area. No impact is expected.

Schools: Four (4) schools are located within the 0.5 mile search radius. The nearest facility is Madison Juvenile Correctional, located 0.38 mile west of the project area. No impact is expected.

Managed Lands: Two (2) managed lands are located within the 0.5 mile search radius. The nearest facility, Madison Historic Trail, is located 0.16 mile southwest of the project area. No impact is expected.

WATER RESOURCES TABLE AND SUMMARY

Water Resources			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
NWI - Points	N/A	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	1
Canal Structures – Historic	N/A	Lakes	2
NPS NRI Listed	N/A	Floodplain - DFIRM	11
NWI-Lines	2	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	N/A	Sinkhole Areas	N/A
Rivers and Streams	5	Sinking-Stream Basins	N/A

Explanation:

NWI - Lines: Two (2) NWI - Lines are located within the 0.5 mile search radius. One NWI-Line is located 0.24 mile south of the project area. No impact is expected.

Rivers and Streams: Five (5) river and stream segments are located within the 0.5 mile radius. One stream segment is located 0.04 mile west of the project area. No impact is expected.

NWI - Wetlands: One (1) NWI – wetland is located within the 0.5 mile search radius. One wetland is located 0.48 mile north of the project area. No impact is expected.

Lakes: Two (2) Lakes are located within the 0.5 mile search radius. One lake is located 0.43 mile northeast of the project area. No impact is expected.

Floodplains: Eleven (11) Floodplain polygons are located within the 0.5 mile search radius. The nearest floodplain polygon is located 0.12 mile south of the project area. No impact is expected.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

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

Explanation: No mining or mineral resources were identified within the 0.5 mile search radius.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	N/A	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	N/A	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	4	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	N/A
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	3
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	1
Leaking Underground Storage (LUST) Sites	1	Notice of Contamination Sites	N/A

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

Explanation:

Underground Storage Tank (UST) Sites: Four (4) Underground Storage Tank (UST) Sites were found within the 0.5 mile search radius. The nearest facility is Coach House at Hanging Rock, 505 Cragmont St, AI# 43829, located 0.36 mile south of the project area. No impact is expected.

Leaking Underground Storage Tank (LUST) Sites: One (1) Leaking Underground Storage Tank (LUST) Site was found within the 0.5 mile search radius. The nearest facility is Madison State Hospital, 711 Green Rd, AI# 12157, located 0.32 mile west of the project area. No impact is expected.

NPDES Facilities: Three (3) NPDES Facilities are located within the 0.5 mile search radius. The nearest facility, associated with Overlook Estates (Permit ID: INR10M879, Westwood Ln and Westwood Ct) is located 0.16 mile southeast of the project area. No impact is expected.

NPDES Pipe Locations: One (1) NPDES Pipe is located within the 0.5 mile radius. The nearest facility, NPDES ID# IN0025666, is under a permit owned by the Madison Waste Water Treatment Plant, located 0.25 mile south of the project area. No impact is expected.

ECOLOGICAL INFORMATION SUMMARY

The Jefferson County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT ESD did indicate the presence of ETR species within the 0.5 mile search radius.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be

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completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects". Due to the nature of project activities, this project will fall under the guidelines set forth under USFWS Interim Policy for the Review of Highway Transportation Projects in Indiana dated May 29, 2013. No further coordination is necessary.

RECOMMENDATIONS SECTION

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

INFRASTRUCTURE:

- **Airports:** Madison Municipal Airport, is located within 3.8 miles (20,000 feet) of the project area. The public-use airport is located approximately 3.7 mile west of the project area; therefore, early coordination with INDOT Aviation will occur.

WATER RESOURCES: N/A

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

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

INDOT ESD concurrence: Nicole Fohey-Breting Digitally signed by Nicole Fohey-Breting
Date: 2021.04.21 17:14:20 -04'00' (Signature)

Prepared by:
Ty Gallahan
GIS Admin
SJCA, Inc

Graphics:

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

SITE LOCATION: YES

INFRASTRUCTURE: YES

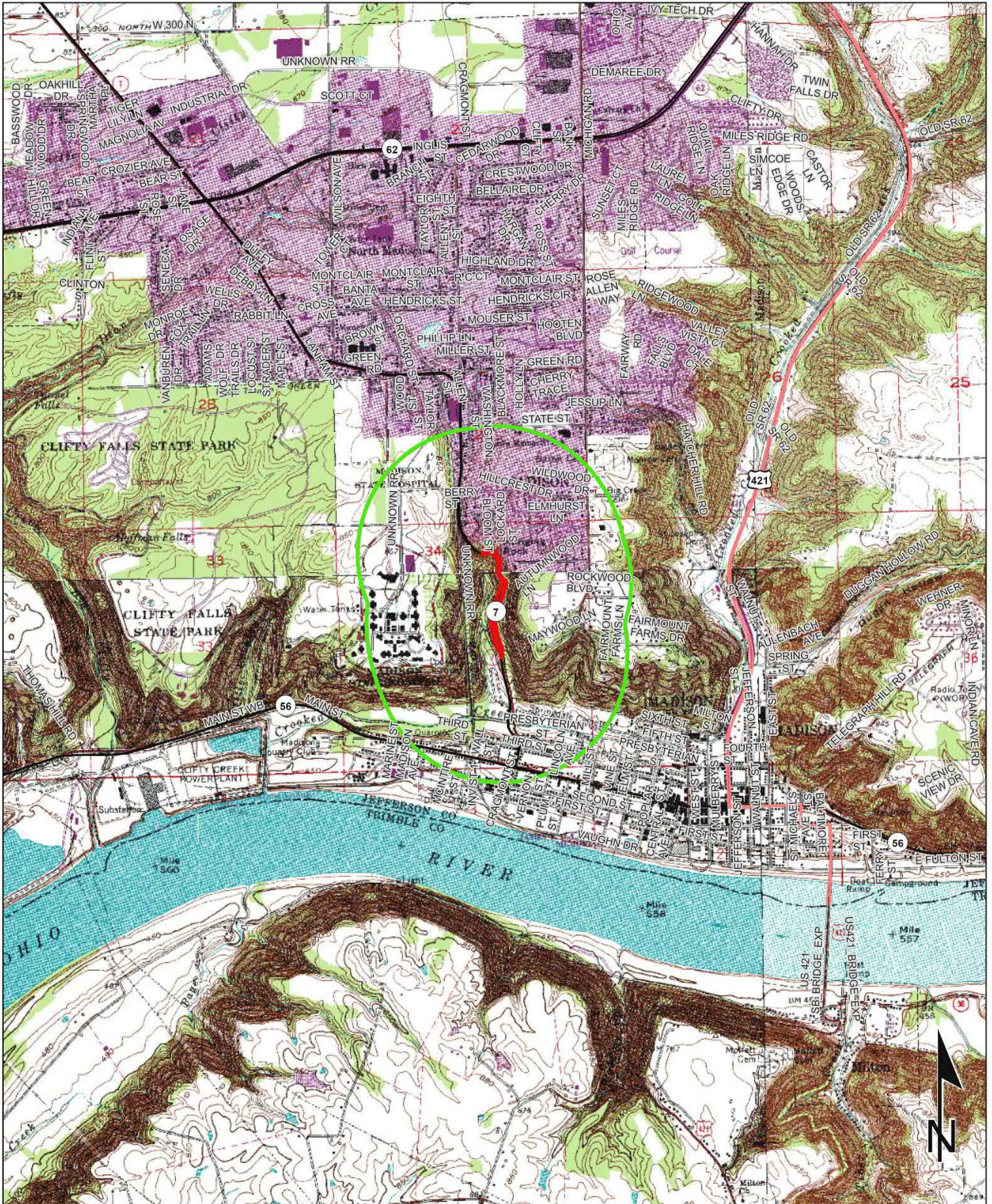
WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: YES

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Red Flag Investigation - Site Location
 SR 7, Approximately 0.5 Mile North of SR 56
 Des. No. 1801684, Slide Correction
 Jefferson County, Indiana



Sources: 0.45 0.23 0 0.45 Miles
 Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
 Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

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

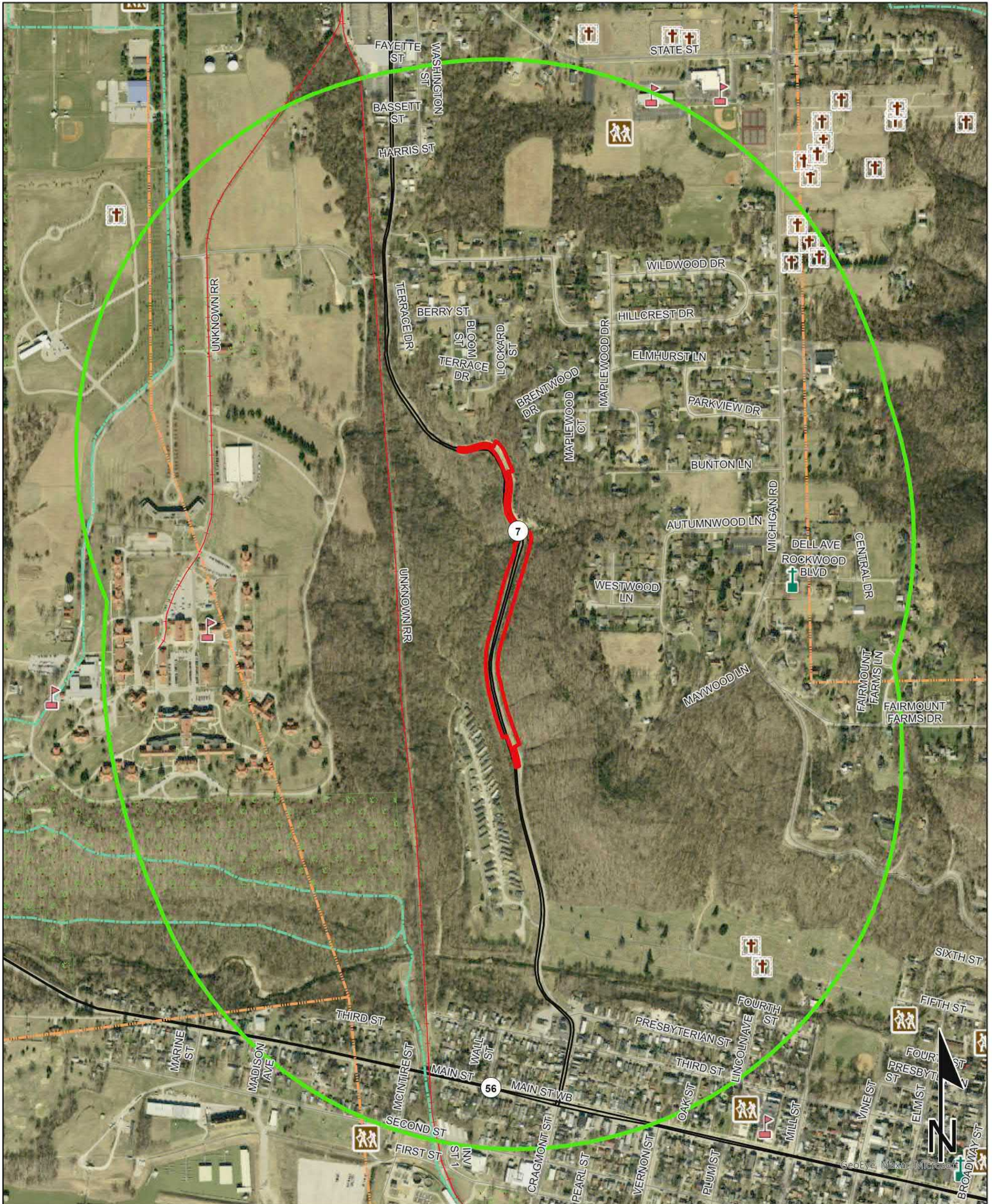
CLIFTY FALLS AND MADISON
 WEST QUADRANGLES
 INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)

Red Flag Investigation - Infrastructure

SR 7, Approximately 0.5 Mile North of SR 56

Des. No. 1801684, Slide Correction

Jefferson County, Indiana



Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
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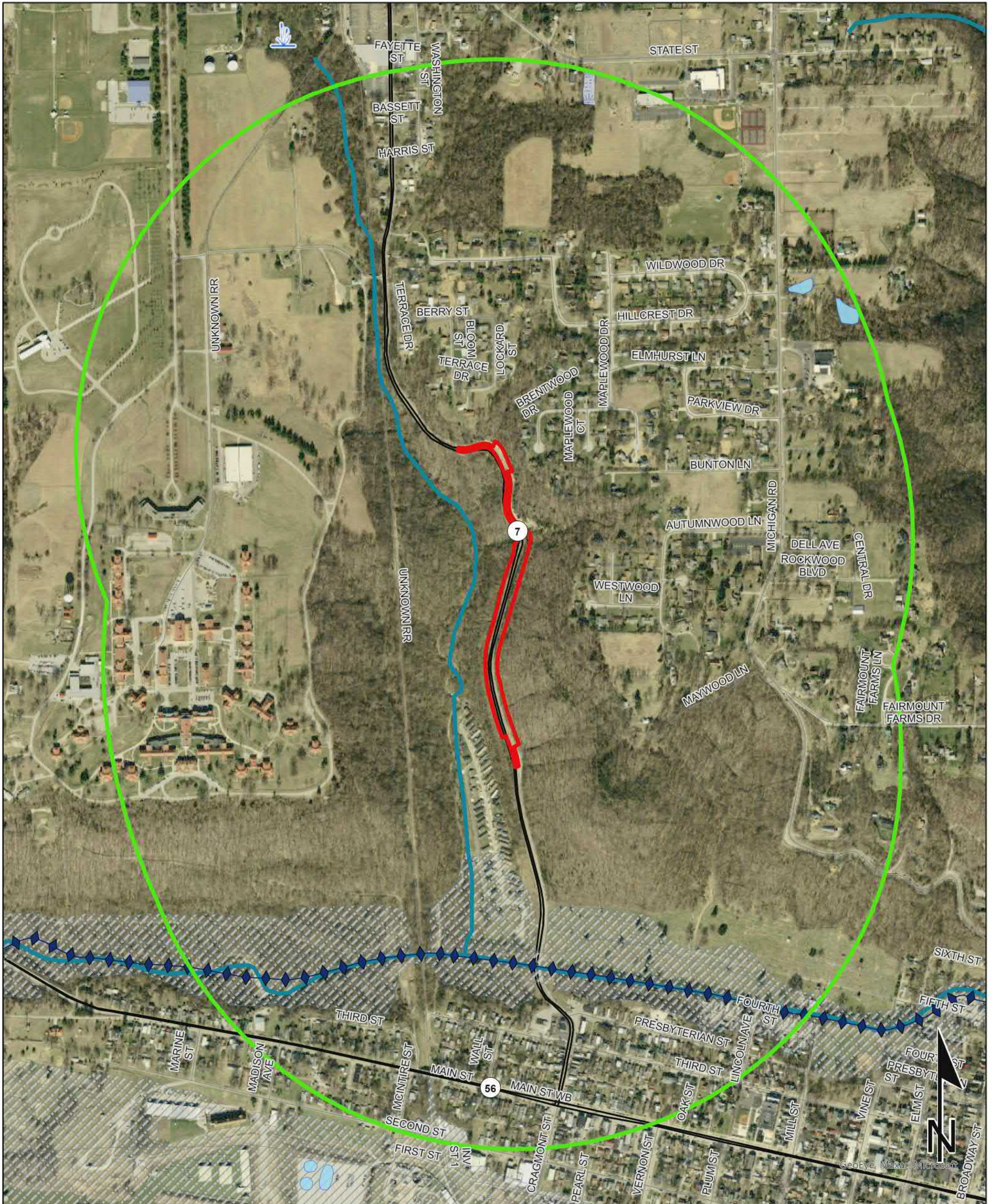
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Water Resources

SR 7, Approximately 0.5 Mile North of SR 56

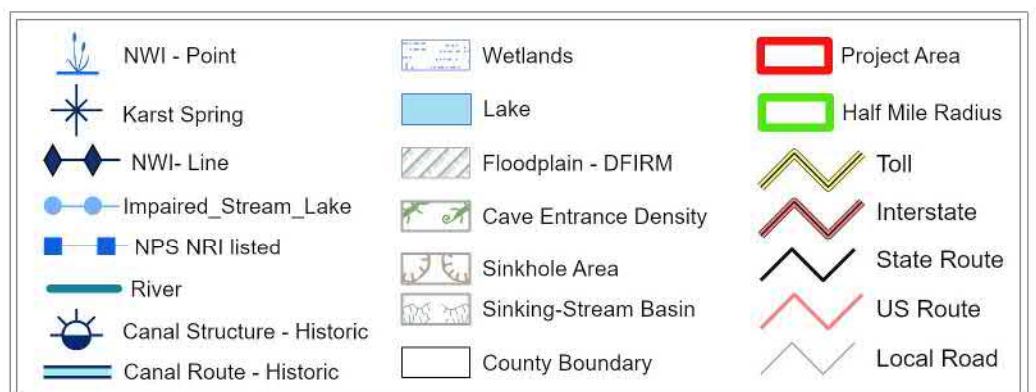
Des. No. 1801684, Slide Correction

Jefferson County, Indiana

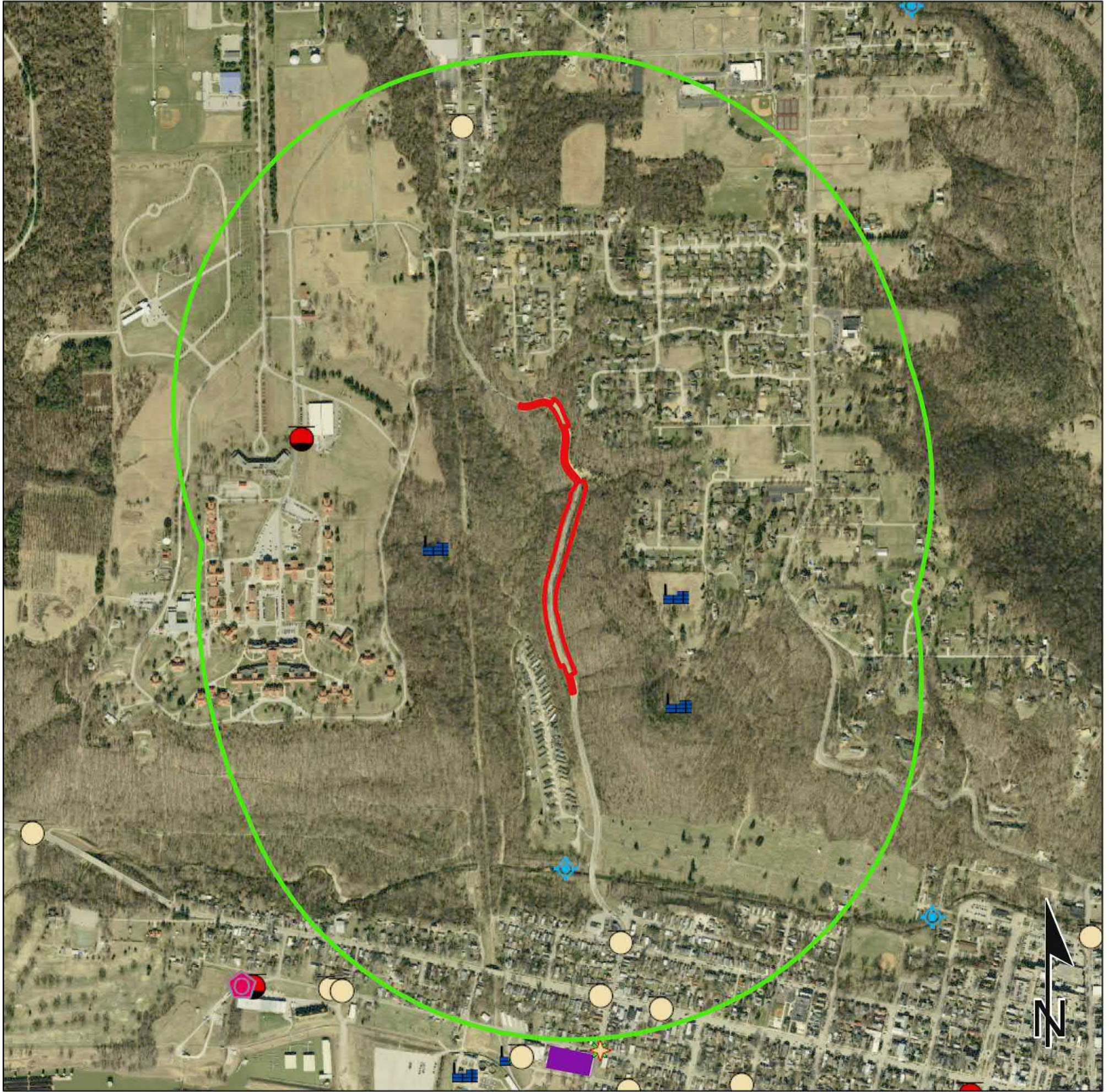


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Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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Red Flag Investigation - Hazardous Materials Concerns
 SR 7, Approximately 0.5 Mile North of SR 56
 Des. No. 1801684, Slide Correction
 Jefferson County, Indiana



	Brownfield		RCRA Generator/TSD		Institutional Controls
	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation		Septage Waste Site		Project Area
	Notice_Of_Contamination		Solid Waste Landfill		Half Mile Radius
	Construction/Demolition Site		State Cleanup Site		Toll
	Infectious/Medical Waste Site		Superfund		Interstate
	Leaking Underground Storage Tank		Tire Waste Site		State Route
	Manufactured Gas Plant		Underground Storage Tank		US Route
	NPDES Facilites		Voluntary Remediation Program		Local Road
	NPDES Pipe Locations		Waste Transfer Station		
	Open Dump Waste Site				

0.15 0.07 0 0.15
 Miles

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Sources:

Non Orthophotography

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

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

Map Projection: UTM Zone 16 N **Map Datum:** NAD83

Indiana County Endangered, Threatened and Rare Species List

County: Jefferson



Species Name	Common Name	FED	STATE	GRANK	SRANK
Platyhelminthes (Flatworms)					
<i>Sphalloplana weingartneri</i>	Weingartner's Cave Flatworm		WL	G4	S3
Crustacean: Malacostraca					
<i>Caecidotea rotunda</i>	Northeastern Cave Isopod		SR	G2G4	S3
<i>Crangonyx lewisi</i>	Lewis Cave Amphipod		SR	G2	S2
<i>Crangonyx packardii</i>	Packard's Cave Amphipod		WL	G4	S3
Crustacean: Copepoda					
<i>Diacyclops indianensis</i>	Indiana Groundwater Copepod		SE	G2	S1
<i>Diacyclops lewisi</i>	Lewis' Groundwater Copepod		SE	G1	S1
Mollusk: Bivalvia (Mussels)					
<i>Epioblasma triquetra</i>	Snuffbox	LE	SE	G3	S1
<i>Lampsilis ovata</i>	Pocketbook		SSC	G5	S2
<i>Ligumia recta</i>	Black Sandshell		SSC	G4G5	S2
<i>Obovaria subrotunda</i>	Round Hickorynut	C	SE	G4	S1
<i>Plethobasus cyphus</i>	Sheepnose	LE	SE	G3	S1
<i>Pleurobema cordatum</i>	Ohio Pigtoe		SSC	G4	S2
<i>Ptychobranthus fasciolaris</i>	Kidneyshell		SSC	G4G5	S2
<i>Simpsonaias ambigua</i>	Salamander Mussel	C	SSC	G3	S2
<i>Toxolasma lividus</i>	Purple Lilliput	C	SSC	G3Q	S2
<i>Villosa lienosa</i>	Little Spectaclecase		SSC	G5	S3
Ellipluran: Collembola					
<i>Pseudosinella fonsa</i>	Fountain Cave Springtail		ST	G3G4	S2
<i>Sminthurides hypogramme</i>	springtail		WL	GNR	S1
Insect: Coleoptera (Beetles)					
<i>Atheta troglaphila</i>			SR	G4	S2
<i>Pseudanophthalmus chthonius</i>	Cave Ground Beetle		SR	G3	S3
Insect: Odonata (Dragonflies & Damselflies)					
<i>Archilestes grandis</i>	Great Spreadwing		WL	G5	S3
Arachnida					
<i>Calymmaria cavicola</i>	Cave Funnel-web Spider			GNR	S1
Amphibian					
<i>Acris blanchardi</i>	Blanchard's Cricket Frog		SSC	G5	S4
<i>Ambystoma barbouri</i>	Streamside Salamander	C	SSC	G4	S3
<i>Cryptobranchus alleganiensis alleganiensis</i>	Eastern Hellbender	C	SE	G3T2	S1
<i>Hemidactylium scutatum</i>	Four-toed Salamander		SSC	G5	S2
<i>Lithobates areolatus circulosus</i>	Northern Crawfish Frog		SE	G4T4	S2
Reptile					
<i>Clonophis kirtlandii</i>	Kirtland's Snake		SE	G2	S2
<i>Opheodrys aestivus</i>	Rough Green Snake		SSC	G5	S3

Indiana Natural Heritage Data Center
Division of Nature Preserves
Indiana Department of Natural Resources
This data is not the result of comprehensive county surveys.

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting
State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list
GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long-term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank
SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long-term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

Indiana County Endangered, Threatened and Rare Species List

County: Jefferson



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Terrapene carolina carolina</i>	Eastern Box Turtle		SSC	G5T5	S3
Bird					
<i>Aimophila aestivalis</i>	Bachman's Sparrow			G3	SXB
<i>Ammodramus henslowii</i>	Henslow's Sparrow		SE	G4	S3B
<i>Buteo platypterus</i>	Broad-winged Hawk		SSC	G5	S3B
<i>Cistothorus platensis</i>	Sedge Wren		SE	G5	S3B
<i>Falco peregrinus</i>	Peregrine Falcon		SSC	G4	S2B
<i>Haliaeetus leucocephalus</i>	Bald Eagle		SSC	G5	S2
<i>Lanius ludovicianus</i>	Loggerhead Shrike		SE	G4	S3B
<i>Setophaga cerulea</i>	Cerulean Warbler		SE	G4	S3B
<i>Setophaga citrina</i>	Hooded Warbler		SSC	G5	S3B
<i>Tyto alba</i>	Barn Owl		SE	G5	S2
Mammal					
<i>Myotis lucifugus</i>	Little Brown Bat	C	SE	G3	S2
<i>Myotis septentrionalis</i>	Northern Long Eared Bat	LT	SE	G1G2	S2S3
<i>Myotis sodalis</i>	Indiana Bat	LE	SE	G2	S1
<i>Perimyotis subflavus</i>	Tricolored Bat		SE	G2G3	S2S3
<i>Taxidea taxus</i>	American Badger		SSC	G5	S2
Vascular Plant					
<i>Asplenium ruta-muraria</i>	wallrue spleenwort		ST	G5	S3
<i>Baptisia australis</i>	wild false indigo		ST	G5	S3
<i>Cardamine dissecta</i>	divided toothwort		SE	G4?	S1
<i>Carex eburnea</i>	ebony sedge		ST	G5	S3
<i>Carex pedunculata</i>	longstalk sedge		WL	G5	S3
<i>Carex seorsa</i>	weak stellate sedge		ST	G5	S3
<i>Carex straminea</i>	straw sedge		ST	G5	S2
<i>Chaerophyllum shortii</i>	wild chervil		ST	G5T3T4Q	S2
<i>Chimaphila maculata</i>	spotted wintergreen		WL	G5	S3
<i>Clinopodium vulgare</i>	American wild basil		WL	G5	S3
<i>Cornus amomum ssp. amomum</i>	silky dogwood		SE	G5	S1
<i>Cyperus pseudovegetus</i>	green flatsedge		ST	G5	S3
<i>Dendrolycopodium obscurum</i>	tree clubmoss		ST	G5	S3
<i>Dichanthelium scoparium</i>	broom panic-grass		SE	G5	S1
<i>Eleocharis wolfii</i>	Wolf's spikerush		ST	G3G5	S2
<i>Helianthus angustifolius</i>	swamp sunflower		SE	G5	S1
<i>Hydrocotyle americana</i>	American water-pennywort		SE	G5	S1
<i>Hypericum frondosum</i>	golden St. John's-wort		SX	G4	SX
<i>Hypopitys monotropa</i>	American pinesap		WL	G5	S3
<i>Isotria verticillata</i>	large whorled pogonia		WL	G5	S3
<i>Juglans cinerea</i>	butternut		ST	G3	S2

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SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long-term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

Indiana County Endangered, Threatened and Rare Species List

County: Jefferson



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Juniperus communis</i> var. <i>depressa</i>	ground juniper		ST	G5T5	S3
<i>Lilium canadense</i>	Canada lily		ST	G5	S3
<i>Linum striatum</i>	ridged yellow flax		WL	G5	S3
<i>Ludwigia decurrens</i>	primrose willow		WL	G5	S3
<i>Lygodium palmatum</i>	climbing fern		SE	G4	S1
<i>Matelea obliqua</i>	angle pod		ST	G4?	S3
<i>Oenothera perennis</i>	small sundrops		ST	G5	S3
<i>Oenothera triloba</i>	stemless evening-primrose		SX	G4	SX
<i>Orobancha riparia</i>	bottomland broomrape		SE	G4?	S1
<i>Panax quinquefolius</i>	American ginseng		WL	G3G4	S3
<i>Panax trifolius</i>	dwarf ginseng		WL	G5	S3
<i>Patis racemosa</i>	black-fruit mountain-ricegrass		ST	G5	S3
<i>Phlox amplifolia</i>	large-leaved phlox		ST	G3G5	S3
<i>Platanthera peramoena</i>	purple fringeless orchid		WL	G5	S3
<i>Poa alsodes</i>	grove meadow grass		ST	G4G5	S3
<i>Ranunculus pusillus</i>	Pursh's buttercup		SE	G5	S1
<i>Rhexia mariana</i> var. <i>mariana</i>	Maryland meadow beauty		ST	G5T5	S1
<i>Sagittaria australis</i>	longbeak arrowhead		ST	G5	S3
<i>Schoenoplectiella purshiana</i>	weakstalk bulrush		ST	G4G5	S3
<i>Sida hermaphrodita</i>	Virginia mallow		SE	G3	S1
<i>Strophostyles leiosperma</i>	slick-seed wild-bean		WL	G5	S3
<i>Sullivantia sullivantii</i>	Sullivantia		ST	G4	S2
<i>Symphotrichum oblongifolium</i>	aromatic aster		ST	G5	S3
<i>Thalictrum pubescens</i>	tall meadowrue		ST	G5	S3
<i>Tragia cordata</i>	heart-leaved noseburn		WL	G4	S3
<i>Triadenum walteri</i>	Walter's St. John's-wort		WL	G5	S3
<i>Tsuga canadensis</i>	eastern hemlock		WL	G5	S3
<i>Valerianella chenopodiifolia</i>	goose-foot corn-salad		WL	G4	S3
<i>Viburnum molle</i>	softleaf arrow-wood		ST	G5	S3
<i>Wisteria frutescens</i>	American wisteria		ST	G5	S3
<i>Woodwardia areolata</i>	netted chainfern		ST	G5	S3
High Quality Natural Community					
<i>Forest - flatwoods bluegrass till plain</i>	Bluegrass Till Plain Flatwoods		SG	G3	S2
<i>Forest - upland dry Bluegrass</i>	Bluegrass Dry Upland Forest		SG	GNR	S1
<i>Forest - upland dry-mesic Bluegrass</i>	Bluegrass Dry-mesic Upland Forest		SG	GNR	S1
<i>Forest - upland mesic Bluegrass</i>	Bluegrass Mesic Upland Forest		SG	GNR	S3
<i>Primary - cliff limestone</i>	Limestone Cliff		SG	GU	S1
Other Significant Feature					
<i>Freshwater Mussel Concentration Area</i>	Mussel Bed		SG	G3	SNR

Indiana Natural Heritage Data Center
Division of Nature Preserves
Indiana Department of Natural Resources
This data is not the result of comprehensive county surveys.

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting
State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list
GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long-term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank
SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long-term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

Indiana County Endangered, Threatened and Rare Species List

County: Jefferson



Species Name	Common Name	FED	STATE	GRANK	SRANK
<i>Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade</i>	Water Fall and Cascade			GNR	SNR

Indiana Natural Heritage Data Center
Division of Nature Preserves
Indiana Department of Natural Resources
This data is not the result of comprehensive county surveys.

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting
 State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list
 GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long-term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank
 SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long-term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room 758-ES
Indianapolis, Indiana 46204

PHONE: (317) 694-8283

Eric Holcomb, Governor
Joe McGuinness,
Commissioner

Date: July 22, 2021

To: Site Assessment & Management
Environmental Policy Office – Environmental Services Division
Indiana Department of Transportation
100 N Senate Avenue, Room N642
Indianapolis, IN 46204

From: Victoria Veach
Seymour District
1104 Prospect St
Indianapolis, IN 46203
vveach@sjcainc.com

Re: RED FLAG INVESTIGATION ADDENDUM
DES # 1801684, State Project
Slide Correction Project
SR 7, 0.51 mile N to 0.77 mile N of SR 56
Jefferson County, Indiana

Scope changes have occurred to the Des 1801684 Slide Correction project since the approval of the original RFI on April 21, 2021. Repairs to the culvert located at the north end of the project alignment have been added to this project. The culvert (CV 007-039-00.80) is a 4-foot (ft) by 4 ft reinforced concrete box (RCB) with a length of 40 ft located approximately 0.77 mile north of SR 56. The project proposes to remove the wingwall located on the southwest side of the outlet and replace it with a soil nail wall that will be placed for the length of the alignment. The project will also repair the deteriorated headwall at the outlet of the structure. Three (3) 24-inch (in) RCBs and two (2) 24 in corrugated metal pipes (CMP) with drop inlets located in a concrete lined ditch on the east side of SR 7 and outlets on the west side of SR 7 will be replaced as part of this project. Riprap lined ditches will be placed at the outlets of each of these structures to direct water away from the soil nail wall.

Bridge and/or Culvert Project: Yes No Structure # CV 007-039-00.80

If this is a bridge project, is the bridge Historical? Yes No , Select Non-Select

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

Work in waterway: Yes No Below ordinary high water mark: Yes No

State Project: LPA:

Any other factors influencing recommendations: N/A

The following features and/or items were not detailed in the original RFI document (Approved April 21, 2021), but have since been identified as having an impact on the project area and requiring additional coordination.

Water Resources

1. One (1) stream segment is located 0.04 mile west of the project area at the bottom of a steeply sloped valley. Due to the proximity of the culvert CV 007-039-00.80 and the five (5) 24-in drainage structures, it is likely that additional water resources, such as unnamed tributaries, regulated drains, wetlands, and roadside ditches are located in the project area. The work related to the culvert headwall will take place entirely from the roadway, and no work will occur within the stream located at the bottom of the valley. A Waters of the US Report may be required. Coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Ecological Information:

The April 2, 2020, inspection report for Culvert 007-039-00.80 states that no evidence of bats was seen or heard in the culvert. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

The size of the project area was also decreased since the RFI was approved. All graphics included in the original RFI have been revised to show the current project area.

Water Resource Recommendations:

The presence of the following water resources may require the preparation of a Waters of the US Report and will require coordination with INDOT ES Ecology and Waterway Permitting:

- One (1) stream segment is located 0.04 mile west of the project area. Due to the proximity of the culvert CV 007-039-00.80 and the five (5) 24-in drainage structures, it is likely that additional water resources, such as unnamed tributaries, regulated drains, wetlands, and roadside ditches are located in the project area. The work related to the culvert headwall will take place entirely from the roadway, and no work will occur within the stream located at the bottom of the valley. A Waters of the US Report may be required. Coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Nicole Fohey
Breting

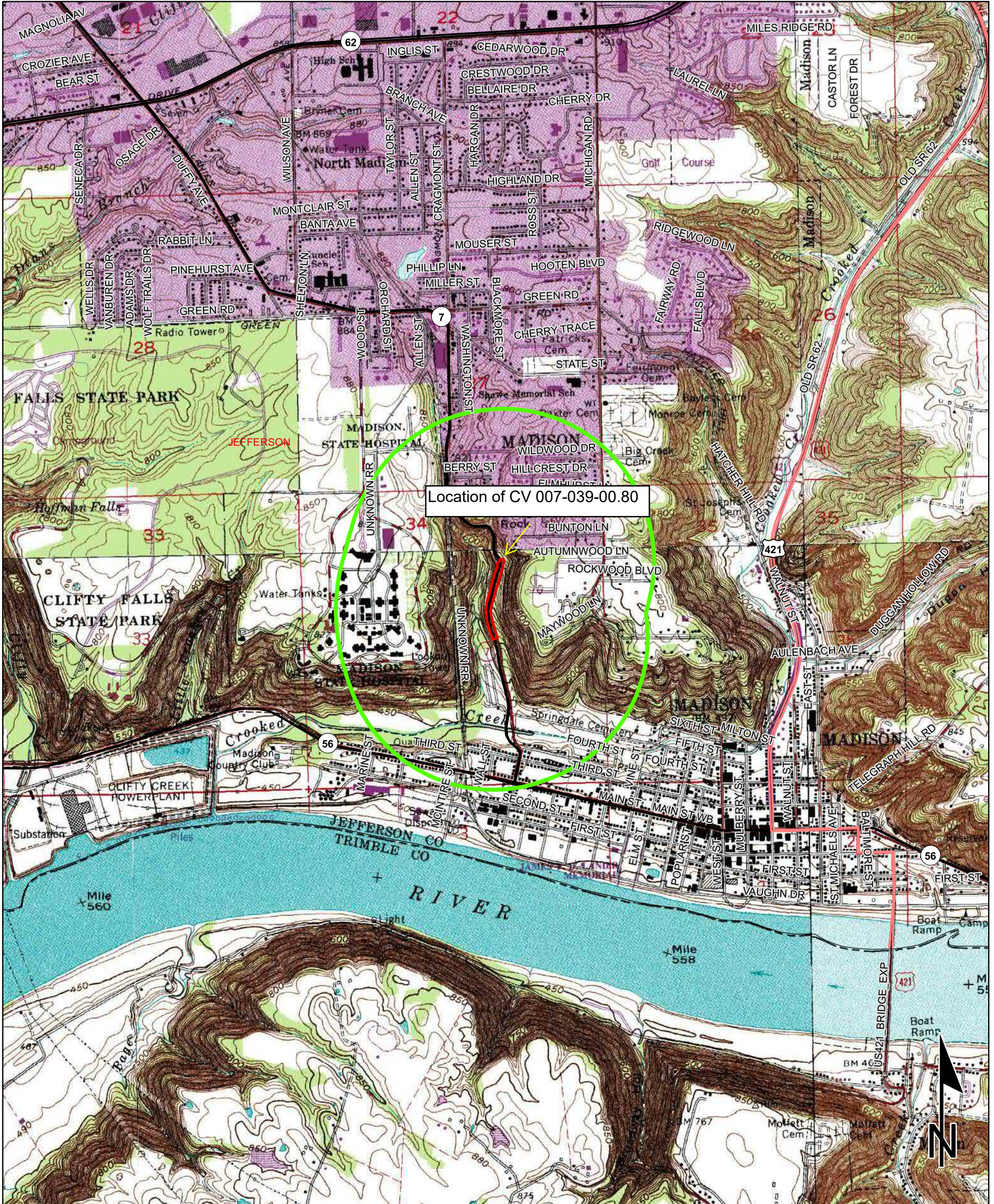
Digitally signed by
 Nicole Fohey-Breting
 Date: 2021.07.27
 18:34:10 -04'00'

INDOT Environmental Services concurrence: _____ (Signature)

Prepared by:

Victoria Veach
 Ecologist
 SJCA Inc.

Red Flag Investigation - Site Location
 SR 7, 0.51 mi to 0.77 mi N of SR 56
 Des. No. 1801684, Slide Correction Project
 Jefferson County, Indiana



Sources: 0.4 0.2 0 0.4 Miles
 Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
 Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

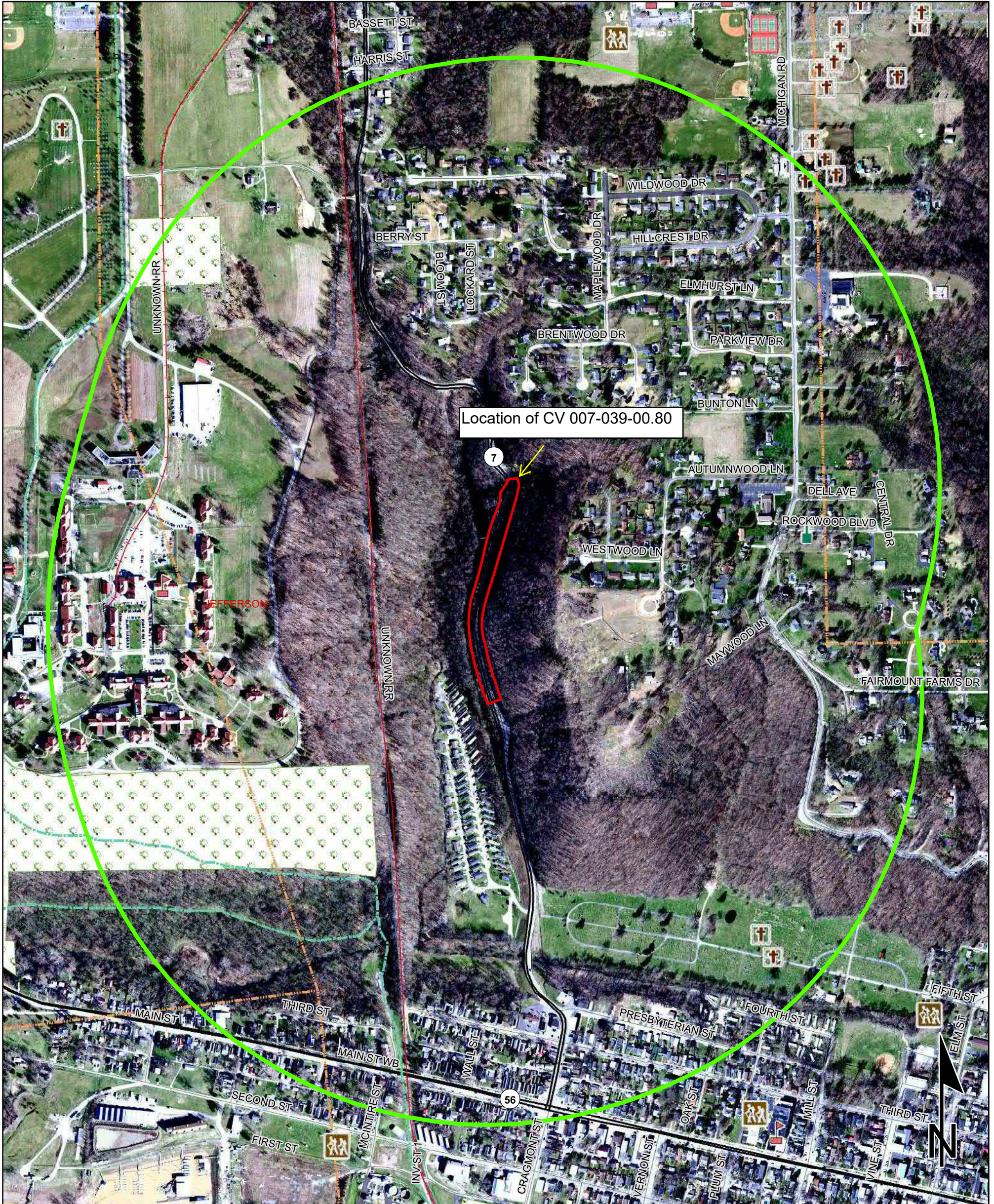
{NAME} QUADRANGLE
 INDIANA
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)

Red Flag Investigation - Infrastructure

SR 7, 0.51 mi to 0.77 mi N of SR 56

Des. No. 1801684, Slide Correction Project

Jefferson County, Indiana

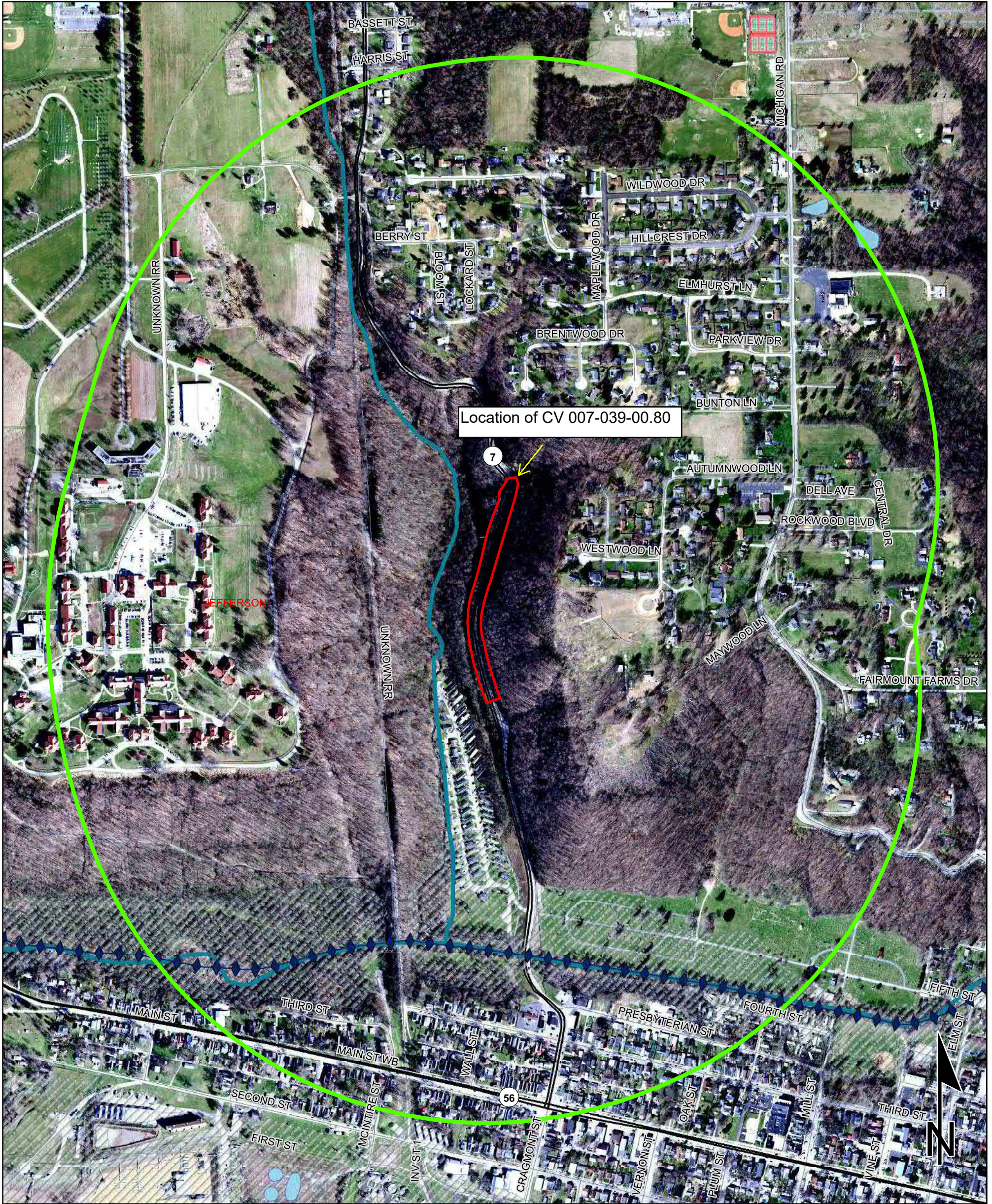


Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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

	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Water Resources
 SR 7, 0.51 mi to 0.77 mi N of SR 56
 Des. No. 1801684, Slide Correction Project
 Jefferson County, Indiana



Sources: 0.15 0.075 0 0.15 Miles
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
 Map Projection: UTM Zone 16 N Map Datum: NAD83

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

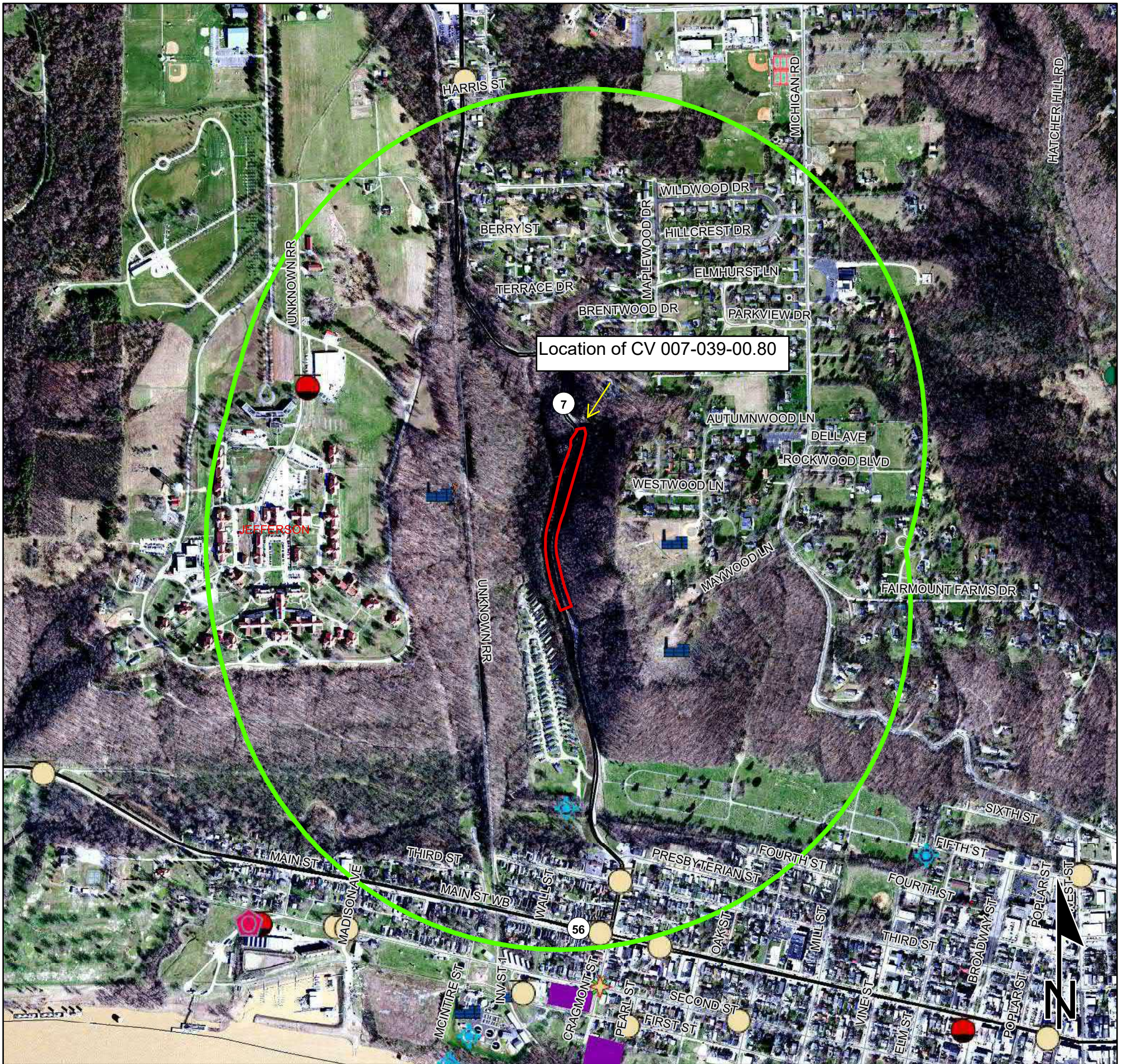
NWI - Point	Wetlands	Project Area
Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
River	Sinking-Stream Basin	US Route
Canal Structure - Historic	County Boundary	Local Road
Canal Route - Historic		

Red Flag Investigation - Hazardous Material Concerns

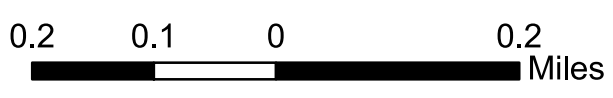
SR 7, 0.51 mi to 0.77 mi N of SR 56

Des. No. 1801684, Slide Correction Project

Jefferson County, Indiana



	Brownfield		RCRA Generator/TSD		Institutional Controls
	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation		Septage Waste Site		Project Area
	Notice_of_Contamination		Solid Waste Landfill		Half Mile Radius
	Construction/Demolition Site		State Cleanup Site		Toll
	Infectious/Medical Waste Site		Superfund		Interstate
	Leaking Underground Storage Tank		Tire Waste Site		State Route
	Manufactured Gas Plant		Underground Storage Tank		US Route
	NPDES Facilities		Voluntary Remediation Program		Local Road
	NPDES Pipe Locations		Waste Transfer Station		
	Open Dump Waste Site				



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

Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

Des No. 1801684

Appendix F

Public Involvement



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Land & Aerial Survey Office
Division of Materials & Tests Building
120 South Shortridge Road
Indianapolis, Indiana 46219-6705

PHONE: (317) 610-7251
FAX: (317) 356-9351

Eric J. Holcomb, Governor
Joe McGuinness, Commissioner

11/27/18

Sample Notice of Survey Letter

NOTICE OF SURVEY

Dear Property Owner:

The Indiana Department of Transportation (INDOT) will perform a survey for the proposed Slide Correction project on SR7, Des No. 1801684, in Jefferson County, Indiana. A portion of this survey work may be performed on your property in order to provide design engineers information for project design. The survey work will include mapping the location of features such as trees, buildings, fences, drives, ground elevations, etc. The survey is needed for the proper planning and design of this highway project.

At this stage we generally do not know what effect, if any, our project may eventually have on your property. If we determine later that your property is involved, we will contact you with additional information.

Indiana Code 8-23-7-26 allows USI Consultants Inc., as the authorized employees of INDOT, *Right of Entry* to the project site (including private property) upon proper notification. A copy of a Notice of Survey discussion sheet, as found on INDOT's website (<https://www.in.gov/indot/2888.htm>), is attached to this letter. Pursuant to Indiana Code 8-23-7-27, this letter serves as written notification that we will be performing the above noted survey in the vicinity of your property after 11/28/18.

USI Consultants employees will show you their identification, if you are available, before coming onto your property.

If you own but are not the tenant of this property (i.e. rental, sharecrop), please inform us so that we may also contact the actual tenant of the property prior to commencement of our work. If you have any questions or concerns regarding our proposed survey work or schedule, please contact the Survey Operations Manager. This contact information is as follows:

Mark Schepers, PLS
Survey Operations Manager
8415 E. 56th St. Suite A
Indianapolis, IN 46216
mschepers@usiconsultants.com
317-522-2486

Under Indiana Code 8-23-7-28, you have a right to compensation for any damage that occurs to your land or water as a result of the entry or work performed during the entry. To obtain such compensation, you should

www.in.gov/dot/
An Equal Opportunity Employer



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Land & Aerial Survey Office
Division of Materials & Tests Building
120 South Shortridge Road
Indianapolis, Indiana 46219-6705

PHONE: (317) 610-7251
FAX: (317) 356-9351

Eric J. Holcomb, Governor
Joe McGuinness, Commissioner

contact the Seymour District Real Estate Manager; contact information is below. The District Real Estate Manager can provide you with a form to request compensation for damages. Once you fill out this form, you can return it to the District Real Estate Manager for consideration. If you are not satisfied with the compensation that INDOT determines is owed to you, Indiana Code 8-23-7-28 provides the following:

The amount of damages shall be assessed by the county agricultural extension educator of the county in which the land or water is located and two (2) disinterested residents of the county, one (1) appointed by the aggrieved party and one (1) appointed by the department. A written report of the assessment of damages shall be mailed to the aggrieved party and the department by first class United States mail. If either the department or the aggrieved party is not satisfied with the assessment of damages, either or both may file a petition, not later than fifteen (15) days after receiving the report, in the circuit or superior court of the county in which the land or water is located.

If you have questions regarding the rights and procedures outlined in this letter, please contact the Seymour Real Estate Manager. This contact information is as follows:

Jerry Hoover
185 Agrico Ln
Jackson County, Seymour, IN 47274
Jhoover@indot.in.gov
812-524-3736

Thank you in advance for your cooperation in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark A. Schepers", written over a horizontal line.

Mark Schepers, PLS
Survey Operations Manager

Des No. 1801684

Appendix G

Air Quality

Indiana Department of Transportation (INDOT)
 State Preservation and Local Initiated Projects FY 2018 - 2021

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	MATCH	2018	2019	2020	2021
Indiana Department of Transportation	40938 / 1800991	A 17	SR 62	HMA Overlay, Preventive Maintenance	US 421 to 1.6 miles E of US 421 (Old SR 62)	Seymour	1.568	STP	\$703,002.00	Road Construction	CN	\$549,601.60	\$137,400.40				\$687,002.00
Comments:Amend PE phase in FY 2019 and CN phase in FY 2021 to the current STIP. No MPO.																	
Indiana Department of Transportation	40960 / 1801106	A 17	SR 62	Surface Treatment, Thin HMA Overlay	1.4 miles W of SR 7 (Bridge over Big Clifty Creek) to US 421	Seymour	4.079	NHPP	\$1,021,306.00	Road Construction	CN	\$785,044.80	\$196,261.20				\$981,306.00
										Road Consulting	PE	\$32,000.00	\$8,000.00		\$40,000.00		
Comments:Amend PE phase in FY 2019 and CN phase in FY 2021 to the current STIP. No MPO.																	
Indiana Department of Transportation	40994 / 1600307	A 17	SR 250	Bridge Deck Overlay	0.05 mile E of SR 62 over Wilson Fork Creek	Seymour	0	STP	\$613,471.00	Bridge Consulting	PE	\$80,000.00	\$20,000.00		\$100,000.00		
										Bridge Construction	CN	\$410,776.80	\$102,694.20				\$513,471.00
Comments:Amend PE phase in FY 2019 and CN in 2021 to current STIP. No MPO.																	
Indiana Department of Transportation	41293 / 1500069	M 10	SR 62	Small Structure Maint and Repair	4.22 miles E of the W SR 250 junction	Seymour	0	STP	\$155,763.00	Bridge Construction	CN	\$0.00	\$0.00			(\$136,763.00)	\$135,763.00
Comments:Move CN phase from FY 2020 to FY 2021. No MPO.																	
Indiana Department of Transportation	41528 / 1800211	A 27	SR 62	Intersect. Improv. W/ Added Turn Lanes	Intersection of Cragmont Street	Seymour	0	NHPP	\$96,710.00	Safety Consulting	PE	\$20,800.00	\$5,200.00		\$26,000.00		
Comments:Amend PE phase to the current STIP for FY 2019. No MPO.																	
Indiana Department of Transportation	41534 / 1801684	A 27	SR 7	Slide Correction	In Madison from Fayette to Green Road	Seymour	.23	STP	\$3,067,796.00	Road Consulting	PE	\$160,000.00	\$40,000.00		\$200,000.00		
										Road ROW	RW	\$120,000.00	\$30,000.00				\$150,000.00
Comments:Amend PE phase in FY 2019 and RW in 2021 to current STIP. No MPO.																	
Indiana Department of Transportation	41838 / 1801786	A 28	SR 62	HMA Overlay, Preventive Maintenance	1.6 miles E of US 421 (Old SR 62) to W Jct SR 250	Seymour	3.69	STP	\$975,471.00	District Other Construction	CN	\$748,376.80	\$187,094.20				\$935,471.00
										District Other Consulting	PE	\$32,000.00	\$8,000.00		\$40,000.00		
Comments:Amend PE in FY 2019 and CN in 2021 to current STIP. No MPO.																	
Indiana Department of Transportation	41839 / 1801789	A 28	SR 250	HMA Overlay, Preventive Maintenance	From US 421 to W Jct SR 62	Seymour	2.11	STP	\$479,394.00	District Other Consulting	PE	\$24,000.00	\$6,000.00		\$30,000.00		
Comments:Amend PE in FY 2019 to current STIP. No MPO.																	

Jefferson County Total
 Federal: \$25,686,352.77 Match :\$6,421,588.19 2018: \$5,243,772.00 2019: \$14,196,867.81 2020: \$5,284,548.94 2021: \$7,382,752.21

*Estimated Costs left to Complete Project column is for costs that may extend beyond the four years of a STIP. This column is not fiscally constrained and is for information purposes.

Indiana Department of Transportation (INDOT)
 State Preservation and Local Initiated Projects FY 2020 - 2024

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	MATCH	2020	2021	2022	2023	2024
Madison	41345 / 1801506	M 21	MS 0	Bike/Pedestrian Facilities	SR62/Clifty Drive from Michigan Road to Wilson Avenue (Stellar Project)	Seymour	1	STBG	\$3,180,526.50	Local Transportation Alternatives	CN	\$0.00	\$0.00		(\$2,000,000.00)		\$2,000,000.00	
Performance Measure Impacted: Reliability and Freight Reliability																		
Comments: Moving CN funds from FY 2021 to FY 2023 in the amount of \$2,800,000. No MPO.																		
Indiana Department of Transportation	41534 / 1801684	Init.	SR 7	Slide Correction	In Madison from Fayette to Green Road	Seymour	.23	STPBG		Road Construction	CN	\$2,174,236.80	\$543,559.20					\$2,717,796.00
										Road ROW	RW	\$120,000.00	\$30,000.00		\$150,000.00			
Performance Measure Impacted: Safety																		
Indiana Department of Transportation	41639 / 1801789	Init.	SR 250	HMA Overlay, Preventive Maintenance	From US 421 to W Jct SR 62	Seymour	2.11	STPBG		District Other Construction	CN	\$359,515.20	\$89,878.80			\$449,394.00		
Performance Measure Impacted: Pavement Condition																		
Indiana Department of Transportation	41639 / 1801789	A 04	SR 250	HMA Overlay, Preventive Maintenance	From US 421 to W Jct SR 62	Seymour	2.11	STBG	\$479,394.00	District Other Consulting	PE	\$24,000.00	\$6,000.00	\$30,000.00				
Performance Measure Impacted: Pavement Condition																		
Comments: Amend PE phase in FY 2020 to current STIP. No MPO.																		
Madison	41919 / 1802886	A 07	ST 2369	Added Travel Lanes	Wilson Avenue, between Industrial Drive/Scott Court and Hutchinson Lane (aka JA Berry	Seymour	.56	STBG	\$2,717,370.00	Group III Program	RW	\$212,000.00	\$0.00		\$212,000.00			
										Group III Program	CN	\$280,000.00	\$0.00			\$80,000.00	\$200,000.00	
										Local Funds	RW	\$0.00	\$53,000.00		\$53,000.00			
										Local Funds	CN	\$0.00	\$70,000.00			\$20,000.00	\$50,000.00	
Performance Measure Impacted: Pavement Condition																		
Comments: Amending PE phase for RW for FY 2021 in the amount of \$265,000. Amending CN phase for FY 2022 in the amount of \$100,000. Amending the CN phase for FY 2023 in the amount of \$250,000.																		
Indiana Department of Transportation	42117 / 1900687	A 04	SR 56	HMA Overlay, Preventive Maintenance	N Jct of SR 3 to 0.19 miles W of E Jct of SR 62	Seymour	12.05	STBG	\$6,223,365.00	Road Construction	CN	\$4,874,692.00	\$1,218,673.00				\$6,093,365.00	
										Road Consulting	PE	\$104,000.00	\$26,000.00	\$130,000.00				
Performance Measure Impacted: Pavement Condition																		
Comments: Amend PE phase in 2020 and CN phase in 2022 to current STIP. No MPO.																		
Indiana Department of Transportation	42855 / 2000163	A 19	SR 7	Bridge Deck Overlay	Bridge over Big Creek, 03.66 miles N of SR 250	Seymour	0	STBG	\$1,949,616.00	Bridge Consulting	PE	\$192,000.00	\$48,000.00		\$240,000.00			
										Bridge Construction	CN	\$1,367,692.80	\$341,923.20			\$10,000.00	\$1,699,616.00	
Performance Measure Impacted: Bridge Condition																		
Comments: No MPO. Add PE phase of \$240,000 in 2021 and CN phase of \$1,709,616 in 2023. AQC-NA																		

*Estimated Costs left to Complete Project column is for costs that may extend beyond the four years of a STIP. This column is not fiscally constrained and is for information purposes.

Wanda Gaines, CFM

From: Miller, Brandon <BraMiller1@indot.IN.gov>
Sent: Thursday, May 6, 2021 12:54 PM
To: Wanda Gaines, CFM
Cc: Victoria Veach
Subject: RE: Des No. 1801684, SR 7 Slide Correction

It would be exempt.

Brandon Miller

INDOT Environmental Services Division

New Work Cell Number: (317) 439-7500

From: Wanda Gaines, CFM <wgaines@sjcainc.com>
Sent: Tuesday, April 27, 2021 8:21 AM
To: Miller, Brandon <BraMiller1@indot.IN.gov>
Cc: Victoria Veach <vveach@sjcainc.com>
Subject: FW: Des No. 1801684, SR 7 Slide Correction

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

Brandon,

I was working on the CE-2 document for the above project. Jefferson County, where the project is located, is a maintenance area for PM2.5. Standard language within the CE form states that coordination with INDOT ESD must occur, and I am not sure if this project qualifies as an exempt project. Here is an aerial of the project area and a project description. Let me know if you need anything else.

Project Description:

The proposed project will utilize soil nails to stabilize the downslope (west) side of the roadway embankment along the entire length of the project limits. Soil nails are usually constructed design/build with a performance-based specification. A 1400' soil nail wall will be placed along the entire length of the project limits between the historic stone retaining wall to the south and the culvert, CV-007-039-00.80, to the north. In order to increase stability of the wall, concrete curb and gutters will be placed along the west side of SR 7 to help redirect water from behind the soil nail wall. On the east side of SR 7, the existing paved ditch will be repaired and replaced with a uniform riprap lined ditch. This project will also replace the five (5) existing drop inlets and drainage structures. All of these are smaller than the 48" requirement to receive a unique structure number. New riprap lined ditched will be placed at the outlets of all of these structures. One culvert (CV 007-039-00.80) will be repaired as part of this project. The project will replace the damaged headwall and stabilize the ground south of the culvert. SR 7 will be milled and a new HMA overlay will be placed. Guardrail will also be replaced throughout the project alignment, and the existing shoulder will be removed and replaced with aggregate. There will be some tree clearing in the downslope area of the roadway for construction access. At the bottom of the downslope, mulched seeding will be placed to the construction limits to help prevent erosion.

Best,

Wanda Gaines

Des No. 1801684

Appendix H

Additional Studies/Reports

Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated July 2020)

ProjectNumber	SubProjectCode	County	Property
1800161	1800161H	Jefferson	Clifty Falls State Park
1800171	1800171C	Jefferson	Clifty Falls State Park
1800177	1800177A	Jefferson	Clifty Falls State Park
1800183	1800183	Jefferson	Clifty Falls State Park & Clifty Canyon Nature Preserve
1800218	1800218	Jefferson	Clifty Falls State Park & Clifty Canyon Nature Preserve
1800305	1800305D	Jefferson	Clifty Falls State Park
1800312	1800312C	Jefferson	Clifty Falls State Park
1800363	1800363F	Jefferson	Clifty Falls State Park
1800409	1800409	Jefferson	Clifty Falls State Park & Clifty Canyon Nature Preserve
1800413	1800413K	Jefferson	Clifty Falls State Park

*Park names may have changed. If acquisition of publically owned land or impacts to publically owned land is anticipated, coordination

Census Tract Selection Map

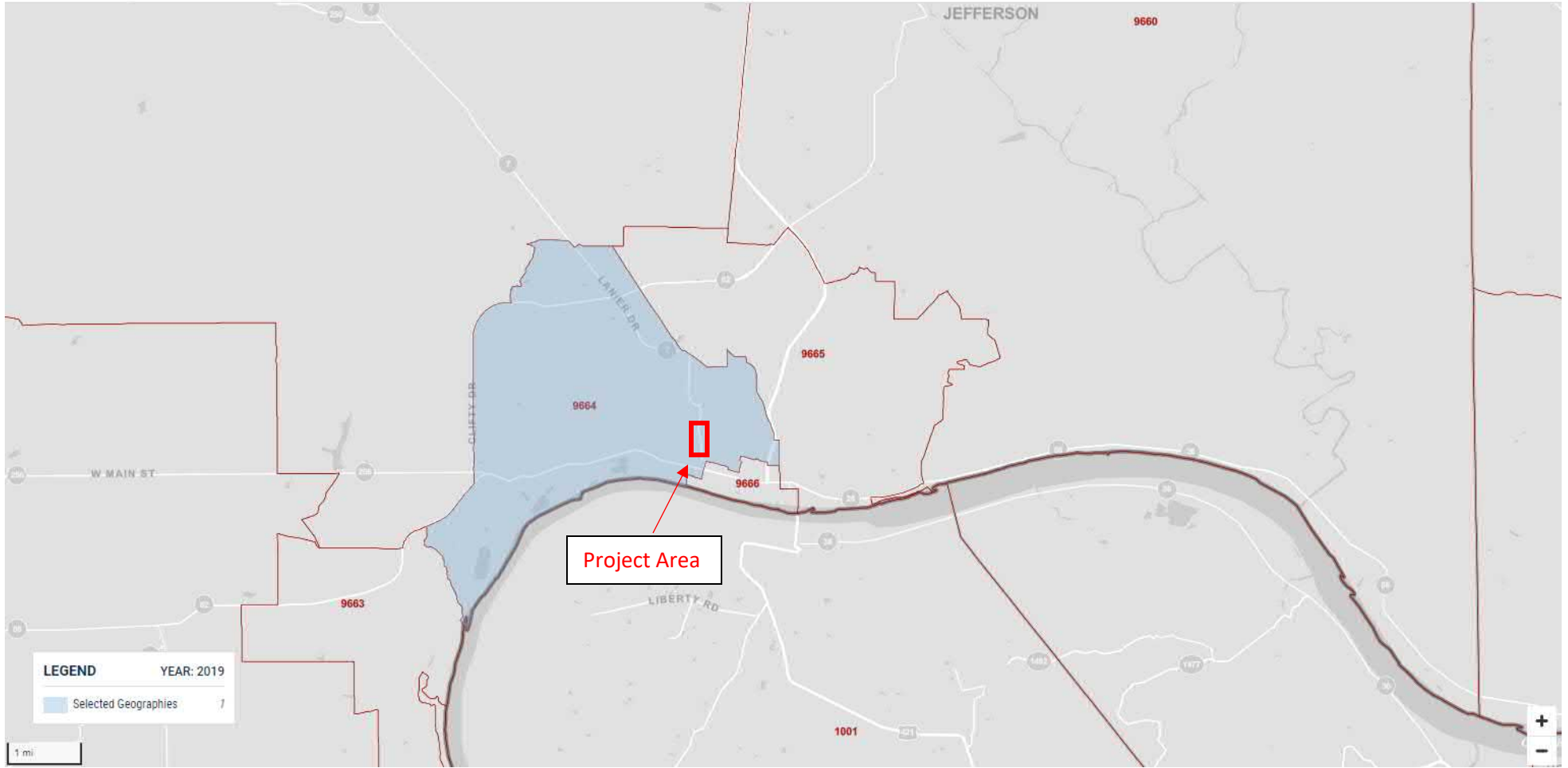
Geographies:

Census Tract

Year:

2019

- Select
- Clear Geos
- Table
- Notes



County Subdivision Selection Map

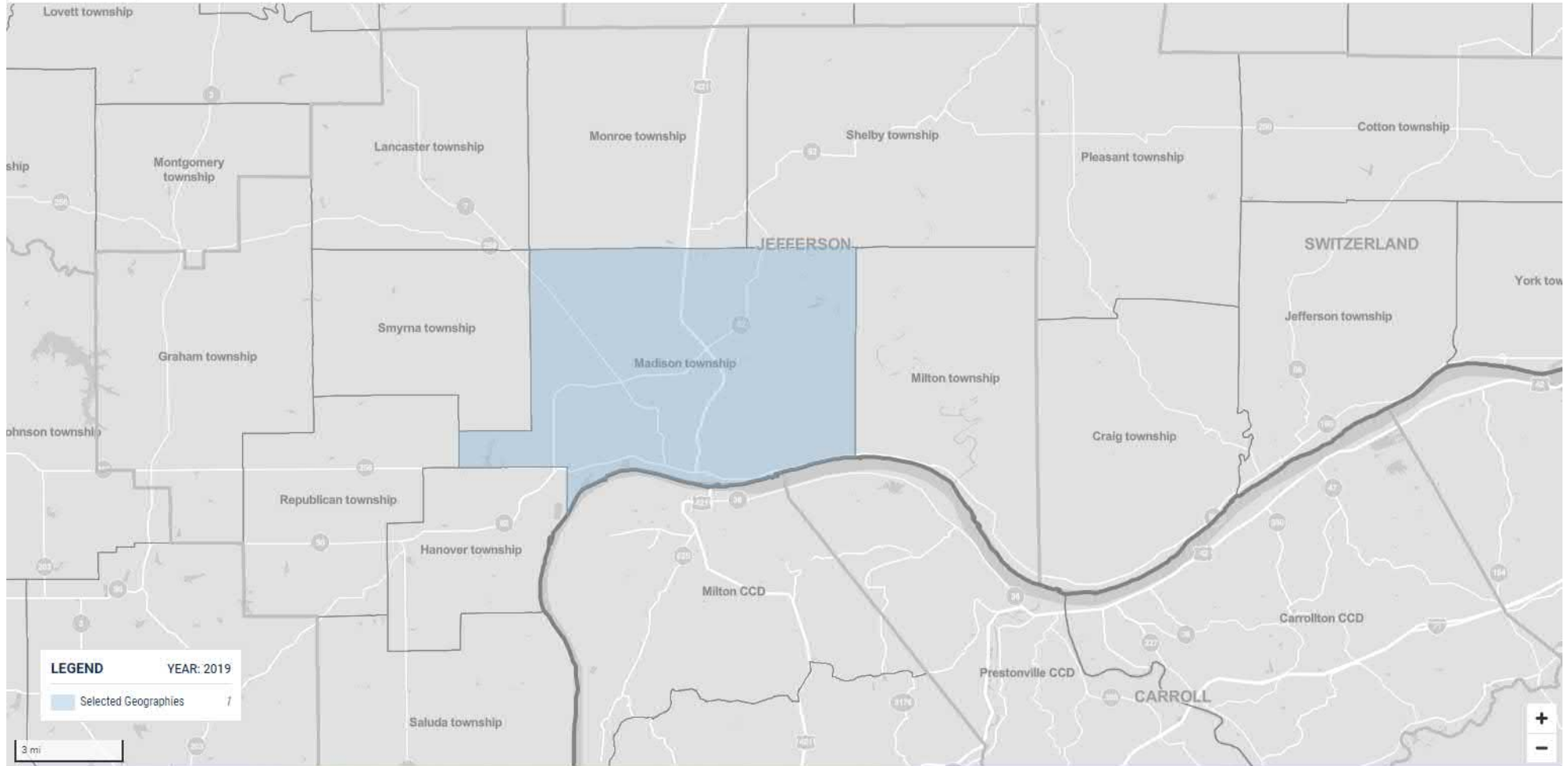
Geographies:

County Subdivision

Year:

2019

Select Clear Geos Table Notes



POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE



Note: This is a modified view of the original table produced by the U.S. Census Bureau. This download or printed version may have missing information from the original table.

	Madison township, Jefferson County, Indiana	Census Tract 9664, Jefferson County, Indiana
Label	Estimate	Estimate
▼ Total:	15,765	4,551
▼ Income in the past 12 months below poverty level:	2,894	797
➤ Male:	1,102	371
➤ Female:	1,792	426
▼ Income in the past 12 months at or above poverty level:	12,871	3,754
➤ Male:	6,441	1,829
➤ Female:	6,430	1,925

Table Notes

POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE

Survey/Program:

American Community Survey

Universe:

Population for whom poverty status is determined

Year:

2019

Estimates:

5-Year

Table ID:

B17001

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Source: U.S. Census Bureau, 2015-2019 American Community Survey 5-Year Estimates

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation). The effect of nonsampling error is not represented in these tables.

The 2015-2019 American Community Survey (ACS) data generally reflect the September 2018 Office of Management and Budget (OMB) delineations of metropolitan and micropolitan statistical areas. In certain instances, the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB delineation lists due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Explanation of Symbols:

An "**" entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

An "-" entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution, or the margin of error associated with a median was larger than the median itself.

An "-" following a median estimate means the median falls in the lowest interval of an open-ended distribution.

An "+" following a median estimate means the median falls in the upper interval of an open-ended distribution.

An "***" entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

An "*****" entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.

An "N" entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.

An "(X)" means that the estimate is not applicable or not available.

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

HISPANIC OR LATINO ORIGIN BY RACE



Note: This is a modified view of the original table produced by the U.S. Census Bureau. This download or printed version may have missing information from the original table.

	Madison township, Jefferson County, Indiana	Census Tract 9664, Jefferson County, Indiana
Label	Estimate	Estimate
▼ Total:	17,311	5,924
▼ Not Hispanic or Latino:	16,574	5,616
White alone	15,546	5,174
Black or African American alone	498	207
American Indian and Alaska Native alone	8	8
Asian alone	201	30
Native Hawaiian and Other Pacific Islander alone	0	0
Some other race alone	74	64
▶ Two or more races:	247	133
▼ Hispanic or Latino:	737	308
White alone	506	139
Black or African American alone	0	0
American Indian and Alaska Native alone	0	0
Asian alone	0	0
Native Hawaiian and Other Pacific Islander alone	0	0
Some other race alone	231	169
▶ Two or more races:	0	0

Table Notes

HISPANIC OR LATINO ORIGIN BY RACE

Survey/Program:

American Community Survey

Universe:

Total population

Year:

2019

Estimates:

5-Year

Table ID:

B03002

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities, and towns and estimates of housing units for states and counties.

Source: U.S. Census Bureau, 2015-2019 American Community Survey 5-Year Estimates

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see ACS Technical Documentation). The effect of nonsampling error is not represented in these tables.

The 2015-2019 American Community Survey (ACS) data generally reflect the September 2018 Office of Management and Budget (OMB) delineations of metropolitan and micropolitan statistical areas. In certain instances, the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB delineation lists due to differences in the effective dates of the geographic entities.

Estimates of urban and rural populations, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Explanation of Symbols:

An "**" entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.

An "-" entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution, or the margin of error associated with a median was larger than the median itself.

An "-" following a median estimate means the median falls in the lowest interval of an open-ended distribution.

An "+" following a median estimate means the median falls in the upper interval of an open-ended distribution.

An "***" entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

An "*****" entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.

An "N" entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.

An "(X)" means that the estimate is not applicable or not available.

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Technical Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Environmental Justice Analysis for SR 7 Slide Correction (Des 1801684)

COC AC-1
 Madison Census Tract
 Township 9664, Jefferson
 County, Indiana

LOW-INCOME

B 17001001	Population for whom poverty status is determined: Total	15,765	4,551
B 17001002	Population for whom poverty status is determined: Income in past 12 months below poverty	2,894	797

Percent Low-Income	18.36%	17.51%
125 Percent of COC	22.95%	AC<125% COC
Potential Low-Income EJ Impact?		No

MINORITY

B 03002001	Total population: Total	17,311	5,924
B 03002002	Total population: Not Hispanic or Latino	16,574	5,616
B 03002003	Total population: Not Hispanic or Latino; White alone	15,546	5,174
B 03002004	Total population: Not Hispanic or Latino; Black or African American alone	498	207
B 03002005	Total population: Not Hispanic or Latino; American Indian and Alaska Native alone	8	8
B 03002006	Total population: Not Hispanic or Latino; Asian alone	201	30
B 03002007	Total population: Not Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	0	0
B 03002008	Total population: Not Hispanic or Latino; Some other race alone	74	64
B 03002009	Total population: Not Hispanic or Latino; Two or more races	274	133
B 03002010	Total population: Hispanic or Latino	737	308
B 03002011	Total population: Hispanic or Latino; White alone	506	139
B 03002012	Total population: Hispanic or Latino; Black or African American alone	0	0
B 03002013	Total population: Hispanic or Latino; American Indian and Alaska Native alone	0	0
B 03002014	Total population: Hispanic or Latino; Asian alone	0	0
B 03002015	Total population: Hispanic or Latino; Native Hawaiian and Other Pacific Islander alone	0	0
B 03002016	Total population: Hispanic or Latino; Some other race alone	231	169
B 03002017	Total population: Hispanic or Latino; Two or more races	0	0

Number Non-White/Minority (P007001-P007003)	1,765	750
Percent Non-White/Minority	10.20%	12.66%
125 Percent of COC	12.74%	AC<125% COC
Potential Minority EJ Impact?		No