

**Categorical Exclusion**

**Appendix E**

**Red Flag Investigation  
& Hazardous Materials**



# INDIANA DEPARTMENT OF TRANSPORTATION

*Driving Indiana's Economic Growth*

100 North Senate Avenue  
Room N642  
Indianapolis, Indiana 46204-2216 (317) 232-5348 FAX: (317) 233-4929

**Eric Holcomb, Governor**  
**Joe McGuinness, Commissioner**

Date: May 2, 2018

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

From: Cinda Bonds  
Lochmueller Group  
5650 Mexico Road, Suite 2  
St. Peters, MO 63376  
cbonds@lochgroup.com

Re: RED FLAG INVESTIGATION  
DES 1400195, State Project  
Intersection Improvements  
State Road 66 and Epworth Road Intersection  
Warrick County, Indiana

## PROJECT DESCRIPTION

Brief Description of Project: The proposed project is an intersection improvement at State Road (SR) 66 and Epworth Road, 0.16 mile east of I-69 in Warrick County, Indiana. The project will eliminate left turning movements from the mainline. Designs under consideration include using displaced left turns or bow tie intersections to the north and south SR 66. The project will include some redesign of signaling. The potential area of impact extends 2,000 feet east and west of the intersection along SR 66; 1,150 feet south of the intersection along Epworth Road; and 750 feet north of the intersection along Epworth Road. Proposed R/W would likely consist of intersection corner cuts. Temporary R/W for grading and drive construction would also likely be required along SR 66 and Epworth Road. No relocations are anticipated.

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 \_\_\_\_\* \*Proposed Permanent and Temporary right of way expected to not exceed 2.52 acres.

Type of excavation: Excavation should be limited to 5-6 feet below grade to install storm sewer and minor re-grading of the roadway to accommodate the intersection improvement. Limited twelve-foot excavation will be required for signal foundations.

Maintenance of traffic: Project will be constructed under traffic with lane restrictions and flagging operations.

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

State Project:  LPA:

[www.in.gov/dot/](http://www.in.gov/dot/)

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Any other factors influencing recommendations: Preferred alternative selection and design is not yet complete; therefore, the project area is a hybrid of the two alternatives under consideration.

**INFRASTRUCTURE TABLE AND SUMMARY**

<b>Infrastructure</b>			
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	<b>3</b>	Recreational Facilities	<b>N/A</b>
Airports <sup>1</sup>	<b>N/A</b>	Pipelines	<b>9</b>
Cemeteries	<b>N/A</b>	Railroads	<b>N/A</b>
Hospitals	<b>17*</b>	Trails	<b>4</b>
Schools	<b>N/A</b>	Managed Lands	<b>NA</b>

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

**Explanation:**

**Religious Facilities:** Three (3) religious facilities are located within the 0.5 mile search radius. One religious facility, Saint Luke Lutheran Church, is adjacent to the project area. Traffic will be maintained throughout construction using lane restrictions, allowing for continued access. No impact is expected; however, coordination with Saint Luke Lutheran Church will occur.

**Hospitals\*:** Seventeen (17) hospitals or clinics are located within the 0.5 mile search radius, as identified on Google Earth and Google Maps. The access to fourteen (14) of the hospitals/clinics (Deaconess Gateway Hospital, Heart Hospital at Deaconess Gateway, Deaconess Women’s Hospital, Riley Children’s Specialty Center, Midwest Radiological Imaging, Deaconess Regional Laboratory, Evansville Surgery Center, Oral Surgery Group, Deaconess Clinic Gateway Heath Center, Deaconess Clinic Urgent Care, Orthopedic Associates East Newburgh, Cindy Basinski, MD, St. Vincent’s Urgent Care, and The Lung Center) is within the project area. No impact is expected by the proposed project as traffic will be maintained with lane restrictions throughout construction; however, coordination with the hospitals and clinics will occur to identify any potential issues arising with emergency services.

**Pipelines:** Nine (9) pipeline segments are located within the 0.5 mile search radius. One (1) pipeline segment crosses the project area and one (1) pipeline segment is adjacent to the project area. Both are associated with Southern Indiana Gas & Electric Co. natural gas pipelines. Coordination with INDOT Utilities and Railroads should occur.

**Trails:** Four (4) trail segments are located within the 0.5 mile search radius. The nearest segment, associated with Warrick Wellness Trail, is located approximately 0.08 mile north of the project area. No impact is expected.

**WATER RESOURCES TABLE AND SUMMARY**

<b>Water Resources</b>			
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	<b>N/A</b>	Canal Routes - Historic	<b>N/A</b>
Karst Springs	<b>N/A</b>	NWI - Wetlands	<b>17</b>
Canal Structures – Historic	<b>N/A</b>	Lakes	<b>24*</b>
NPS NRI Listed	<b>N/A</b>	Floodplain - DFIRM	<b>13</b>
NWI-Lines	<b>6</b>	Cave Entrance Density	<b>N/A</b>

IDEM 303d Listed Streams and Lakes (Impaired)	N/A	Sinkhole Areas	N/A
Rivers and Streams	4	Sinking-Stream Basins	N/A

Explanation:

NWI-Lines: Six (6) NWI lines are located within the 0.5 mile search radius. The nearest NWI line is 0.12 mile west of the project area. No impacted is expected.

Rivers and Streams: Four (4) stream segments are located within the 0.5 mile search radius. One (1) stream, an unnamed tributary (UNT), is located within the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

NWI-Wetlands: Seventeen (17) wetlands are located within the 0.5 mile search radius. One (1) wetland is adjacent to the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

Lakes\*: Twenty-four (24) lakes, ten (10) unmapped as identified on the aerial photography and fourteen (14) mapped, are located within the 0.5 mile search radius. Two (2) unmapped lakes are located adjacent to the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

Floodplains: Thirteen (13) floodplain polygons are located within the 0.5 mile search radius. The nearest floodplain polygon is located approximately 0.11 mile northeast of the project area. No impact is expected.

**URBANIZED AREA BOUNDARY SUMMARY**

Explanation:

Urbanized Area Boundary (UAB): This project lies within the Evansville UAB. Post construction Storm Water Quality Best Management Practices (BMPs) may need to be considered. An early coordination letter with topographic and aerial maps showing the project area should be sent to the Warrick County Storm Water Director at Room 208, 107 W Locust Street, Boonville, IN, 47601.

**MINING AND MINERAL EXPLORATION TABLE AND SUMMARY**

<b>Mining/Mineral Exploration</b>			
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	1

Explanation:

Mines – Underground: One (1) underground mine is located within the 0.5 mile search radius. The underground mine is located within the project area. Coordination with IDNR Reclamation Division will occur.

**HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY**

<b>Hazardous Material Concerns</b>			
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	1	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	15
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	N/A
Leaking Underground Storage (LUST) Sites	N/A	Notice of Contamination Sites	N/A

**Explanation:**

Underground Storage Tank (UST) Sites: One (1) UST is located within the 0.5 mile search radius. It is associated with Deaconess Hospital and is located adjacent to the project area.

- Deaconess Hospital, 4211 Gateway Blvd, Newburgh, IN, AI# 60842: IDEM conducted an Underground Storage Tank Inspection on June 16, 2017, and the facility was found to be in compliance with equipment, operating, and maintenance requirements set forth in Indiana’s UST Rule 329 IAC 9. No impact is expected.

NPDES Facilities: Fifteen (15) NPDES facilities are located within the 0.5 mile search radius. Two (2) NPDES facilities, Deaconess Parking Garage Expansion and St. Mary’s Borrow/Disposal Site #2, are located adjacent to the project area. No impact is expected at either location.

**ECOLOGICAL INFORMATION SUMMARY**

The Warrick 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 Environmental Services did not indicate the presence of endangered species. Coordination with USFWS and IDNR will occur.

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 with USFWS is necessary.

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 completed according to “Using the USFWS’s IPaC System for Listed Bat Consultation for INDOT Projects”.

An inquiry using the USFWS Information for Planning and Consultation (IPaC) website did not indicate the presence of the federally endangered species, the Rusty Patched Bumble Bee, in or within 0.5 mile of the project area. No impact is expected.

## **RECOMMENDATIONS SECTION**

### **INFRASTRUCTURE:**

- Religious Facilities: One (1) religious facility is located within the project area. Coordination with Saint Luke Lutheran Church will occur.
- Hospitals: Access to fourteen (14) hospitals and clinics is located adjacent to the project area, as mapped on Google Earth and Google Maps. Coordination with Deaconess Gateway Hospital, Heart Hospital at Deaconess Gateway, Deaconess Women’s Hospital, Riley Children’s Specialty Center, Midwest Radiological Imaging, Deaconess Regional Laboratory, Evansville Surgery Center, Oral Surgery Group, Deaconess Clinic Gateway Health Center, Deaconess Clinic Urgent Care, Orthopedic Associates East Newburgh, Cindy Basinski, MD, St. Vincent’s Urgent Care, and The Lung Center will occur.
- Pipelines: One (1) pipeline segment crosses the project area and one (1) pipeline segment is adjacent to the project area. Both are associated with Southern Indiana Gas & Electric Co. natural gas pipelines. Coordination with INDOT Utilities and Railroads should occur.

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

- One (1) stream, an UNT, is located within the project area.
- One (1) wetland is located adjacent to the project area.
- Two (2) unmapped lakes are located adjacent to the project area.

**URBANIZED AREA BOUNDARY:** This project lies within the Evansville UAB. Post construction Storm Water Quality Best Management Practices (BMPs) may need to be considered. An early coordination letter with topographic and aerial maps showing the project area should be sent to the Warrick County Storm Water Director at Room 208, 107 W Locust Street, Boonville, IN, 47601.

### **MINING/MINERAL EXPLORATION:**

- Mines – Underground: One (1) underground mine is located within the project area. Coordination with IDNR Reclamation Division will occur.

**HAZMAT CONCERNS:** N/A

### **ECOLOGICAL INFORMATION:**

Coordination with USFWS and IDNR will occur. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to “Using the USFWS’s IPaC System for Listed Bat Consultation for INDOT Projects”.

INDOT Environmental Services concurrence:

*Ronald E. Baker*

Date: 2018.07.20

13:03:14 -04'00'

(Signature)

Prepared by:

Cinda Bonds

Environmental Biologist

Lochmueller Group

**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

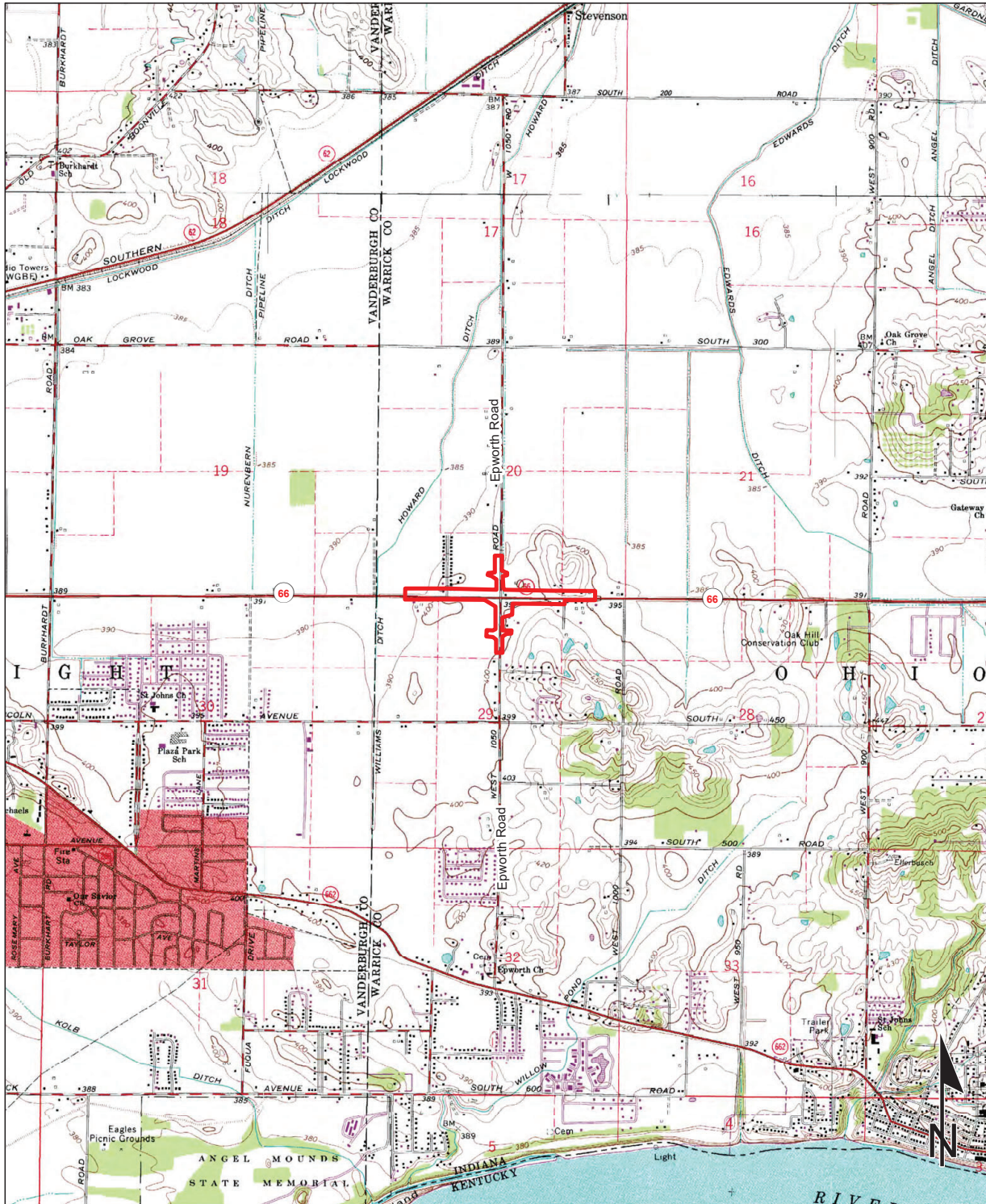
WATER RESOURCES: YES

URBANIZED AREA BOUNDARY: YES

MINING/MINERAL EXPLORATION: YES

HAZMAT CONCERNS: YES

Red Flag Investigation - Site Location  
 SR66 and Epworth Road Intersection, 0.16 mile east of I-69  
 DES#1400195, Intersection Improvements  
 Warrick County, Indiana



Sources: 0.5 0.25 0 0.5 Miles  
**Non Orthophotography**  
 Data - Obtained from the State of Indiana Geographical Information Office Library  
**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://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.

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

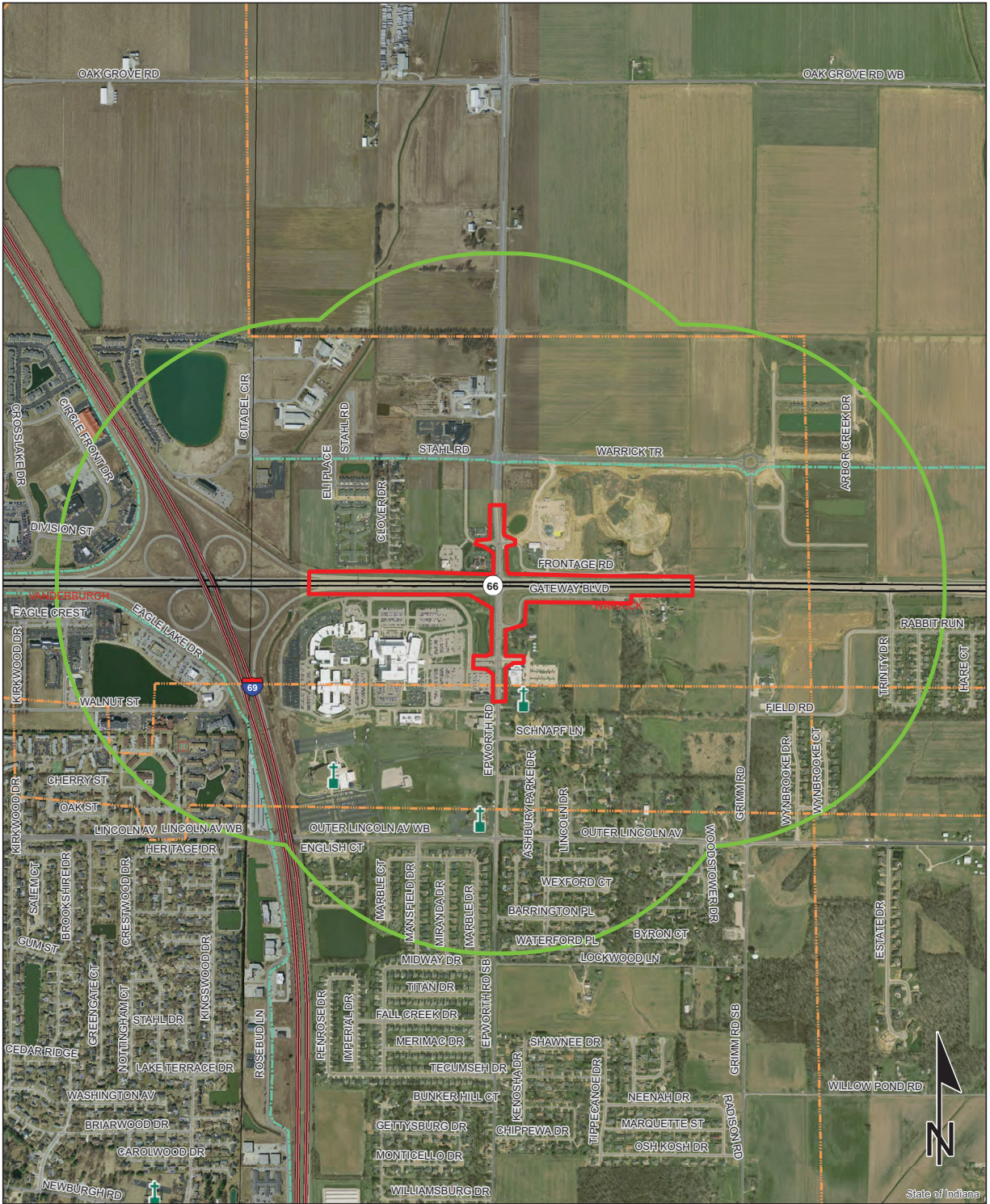


# Red Flag Investigation - Infrastructure

## SR66 and Epworth Road Intersection, 0.16 mile east of I-69

### DES#1400195, Intersection Improvements

#### Warrick County, Indiana



Sources: 0.25 0.125 0 0.25 Miles

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

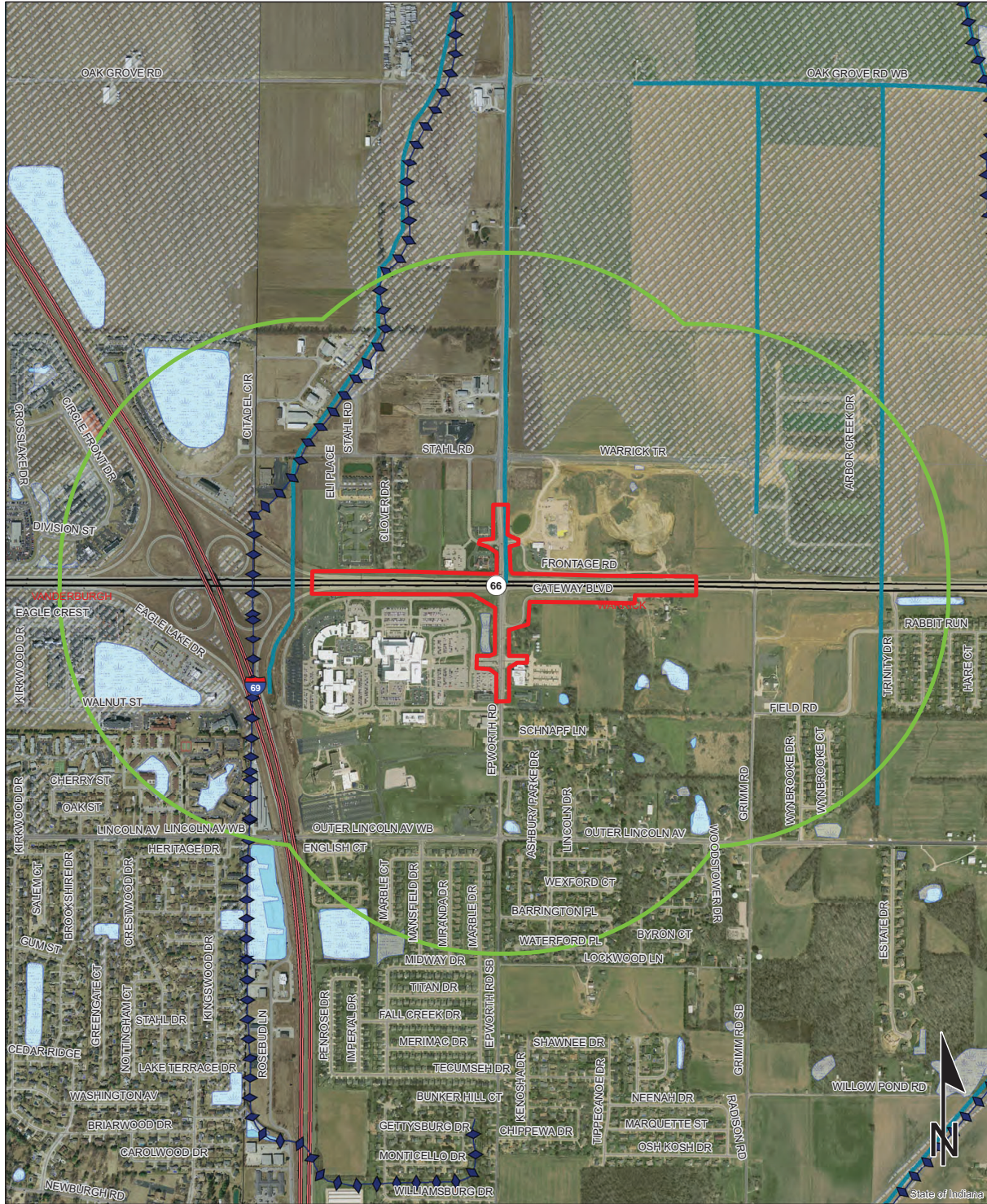
**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))

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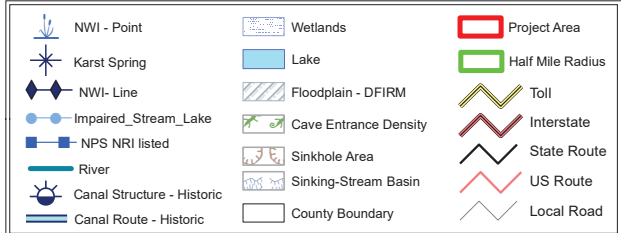
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
	County Boundary		US Route		Local Road

Red Flag Investigation - Water Resources  
 SR66 and Epworth Road Intersection, 0.16 mile east of I-69  
 DES#1400195, Intersection Improvements  
 Warrick County, Indiana

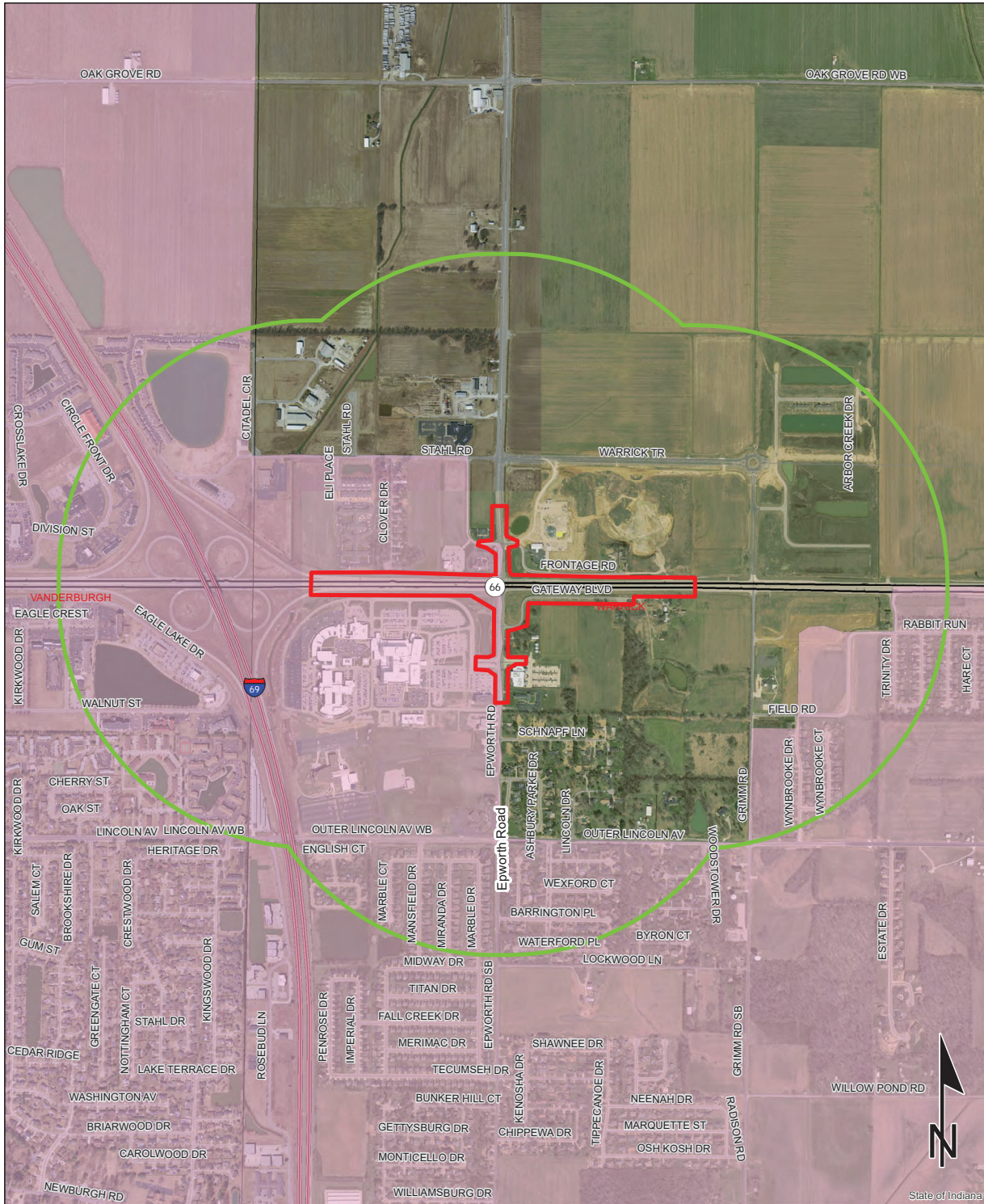


**Sources:**  
**Non Orthophotography**  
 Data - Obtained from the State of Indiana Geographical Information Office Library  
**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))  
**Map Projection:** UTM Zone 16 N **Map Datum:** NAD83

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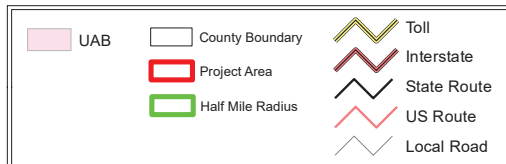


Red Flag Investigation - Urbanized Area Boundary  
 SR66 and Epworth Road Intersection, 0.16 mile east of I-69  
 DES#1400195, Intersection Improvements  
 Warrick County, Indiana

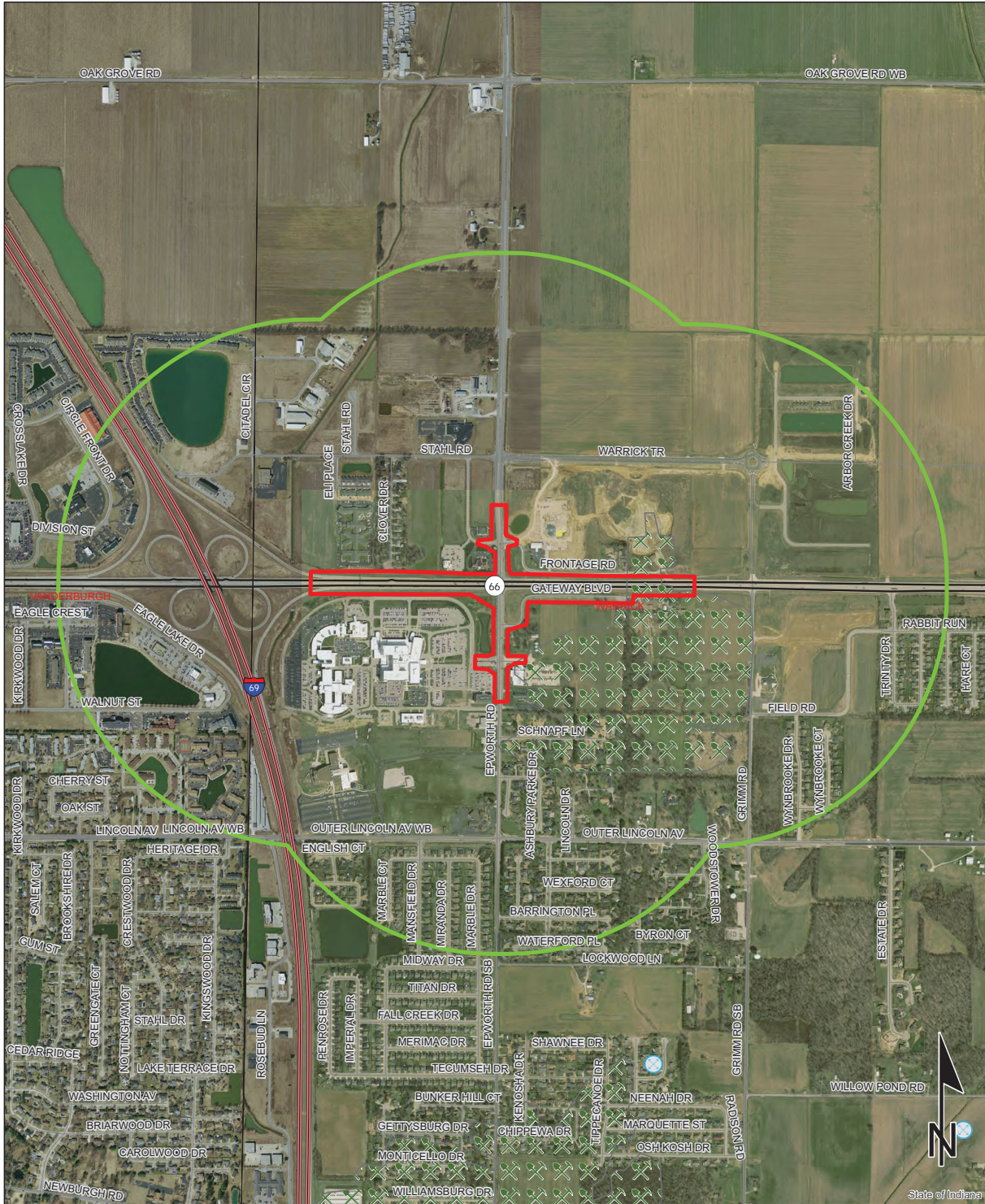


Sources: 0.25 0.125 0 0.25 Miles  
 Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library  
 Orthophotography - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://www.indianamap.org))  
 Map Projection: UTM Zone 16 N Map Datum: NAD83

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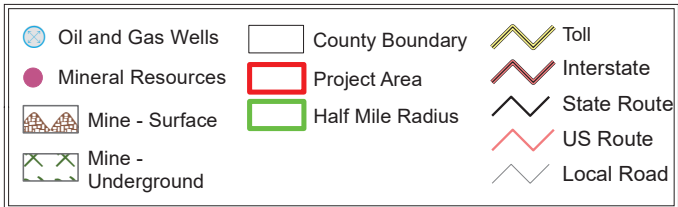
Red Flag Investigation - Mining and Mineral Exploration  
 SR66 and Epworth Road Intersection, 0.16 mile east of I-69  
 DES#1400195, Intersection Improvements  
 Warrick County, Indiana



0.25 0.125 0 0.25 Miles

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

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# Red Flag Investigation - Hazmat Concerns

## SR66 and Epworth Road Intersection, 0.16 mile east of I-69

### DES#1400195, Intersection Improvements

#### Warrick 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				



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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](http://www.indianamap.org))  
 Map Projection: UTM Zone 16 N Map Datum: NAD83

## Indiana County Endangered, Threatened and Rare Species List

County: **Warrick**

Species Name	Common Name	FED	STATE	GRANK	SRANK
<b>Mollusk: Bivalvia (Mussels)</b>					
Lampsilis ovata	Pocketbook			G5	S2
Ligumia recta	Black Sandshell			G4G5	S2
<b>Plethobasus cyphus</b>	<b>Sheepnose</b>	<b>LE</b>	<b>SE</b>	<b>G3</b>	<b>S1</b>
Pleurobema cordatum	Ohio Pigtoe		SSC	G4	S2
<b>Fish</b>					
Etheostoma squamiceps	Spottail Darter			G4G5	S2S3
<b>Reptile</b>					
<b>Nerodia erythrogaster neglecta</b>	<b>Copperbelly Water Snake</b>	<b>PS:LT</b>	<b>SE</b>	<b>G5T3</b>	<b>S2</b>
Opheodrys aestivus	Rough Green Snake		SSC	G5	S3
<b>Bird</b>					
<b>Ammodramus henslowii</b>	<b>Henslow's Sparrow</b>		<b>SE</b>	<b>G4</b>	<b>S3B</b>
<b>Asio flammeus</b>	<b>Short-eared Owl</b>		<b>SE</b>	<b>G5</b>	<b>S2</b>
<b>Botaurus lentiginosus</b>	<b>American Bittern</b>		<b>SE</b>	<b>G5</b>	<b>S2B</b>
Buteo lineatus	Red-shouldered Hawk		SSC	G5	S3
<b>Circus hudsonius</b>	<b>Northern Harrier</b>		<b>SE</b>	<b>G5</b>	<b>S2</b>
<b>Cistothorus platensis</b>	<b>Sedge Wren</b>		<b>SE</b>	<b>G5</b>	<b>S3B</b>
Haliaeetus leucocephalus	Bald Eagle		SSC	G5	S2
Helmitheros vermivorus	Worm-eating Warbler		SSC	G5	S3B
Ictinia mississippiensis	Mississippi Kite		SSC	G5	S1B
<b>Ixobrychus exilis</b>	<b>Least Bittern</b>		<b>SE</b>	<b>G5</b>	<b>S3B</b>
<b>Lanius ludovicianus</b>	<b>Loggerhead Shrike</b>		<b>SE</b>	<b>G4</b>	<b>S3B</b>
<b>Nyctanassa violacea</b>	<b>Yellow-crowned Night-heron</b>		<b>SE</b>	<b>G5</b>	<b>S2B</b>
<b>Pandion haliaetus</b>	<b>Osprey</b>		<b>SE</b>	<b>G5</b>	<b>S1B</b>
<b>Rallus limicola</b>	<b>Virginia Rail</b>		<b>SE</b>	<b>G5</b>	<b>S3B</b>
<b>Setophaga cerulea</b>	<b>Cerulean Warbler</b>		<b>SE</b>	<b>G4</b>	<b>S3B</b>
<b>Tyto alba</b>	<b>Barn Owl</b>		<b>SE</b>	<b>G5</b>	<b>S2</b>
<b>Mammal</b>					
Lasiurus borealis	Eastern Red Bat		SSC	G3G4	S4
<b>Myotis sodalis</b>	<b>Indiana Bat or Social Myotis</b>	<b>LE</b>	<b>SE</b>	<b>G2</b>	<b>S1</b>
<b>Nycticeius humeralis</b>	<b>Evening Bat</b>		<b>SE</b>	<b>G5</b>	<b>S1</b>
<b>Sylvilagus aquaticus</b>	<b>Swamp Rabbit</b>		<b>SE</b>	<b>G5</b>	<b>S1</b>
Taxidea taxus	American Badger		SSC	G5	S2
<b>Vascular Plant</b>					
<b>Bacopa rotundifolia</b>	<b>Roundleaf Water-hyssop</b>		<b>ST</b>	<b>G5</b>	<b>S1</b>
<b>Carex bushii</b>	<b>Bush's Sedge</b>		<b>ST</b>	<b>G4</b>	<b>S1</b>
<b>Carex socialis</b>	<b>Social Sedge</b>		<b>SR</b>	<b>G4</b>	<b>S2</b>
<b>Catalpa speciosa</b>	<b>Northern Catalpa</b>		<b>SR</b>	<b>G4?</b>	<b>S2</b>
<b>Clematis pitcheri</b>	<b>Pitcher Leather-flower</b>		<b>SR</b>	<b>G4G5</b>	<b>S2</b>
<b>Croton willdenowii</b>	<b>Elliptical Rushfoil</b>		<b>SE</b>	<b>G5</b>	<b>S1</b>

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: **Warrick**

Species Name	Common Name	FED	STATE	GRANK	SRANK
<b>Dicliptera brachiata</b>	<b>Wild Mudwort</b>		<b>SE</b>	<b>G5</b>	<b>S1</b>
<b>Didiplis diandra</b>	<b>Water-purslane</b>		<b>SE</b>	<b>G5</b>	<b>S2</b>
<b>Eleocharis wolfii</b>	<b>Wolf Spikerush</b>		<b>SR</b>	<b>G3G5</b>	<b>S2</b>
<b>Festuca paradoxa</b>	<b>Cluster Fescue</b>		<b>ST</b>	<b>G5</b>	<b>S1</b>
<b>Hypericum denticulatum</b>	<b>Coppery St. John's-wort</b>		<b>ST</b>	<b>G5</b>	<b>S2</b>
<b>Iresine rhizomatosa</b>	<b>Eastern Bloodleaf</b>		<b>SR</b>	<b>G5</b>	<b>S2</b>
<b>Nothoscordum bivalve</b>	<b>Crow-poison</b>		<b>SR</b>	<b>G4</b>	<b>S2</b>
<b>Orobanche riparia</b>	<b>Bottomland Broomrape</b>		<b>SE</b>	<b>G4?</b>	<b>S2</b>
<b>Perideridia americana</b>	<b>Eastern Eulophus</b>		<b>SE</b>	<b>G4</b>	<b>S1</b>
<b>Poa wolfii</b>	<b>Wolf Bluegrass</b>		<b>SR</b>	<b>G4</b>	<b>S2</b>
Rudbeckia fulgida var. fulgida	Orange Coneflower		WL	G5T4?	S2
Scutellaria parvula var. australis	Southern Skullcap		WL	G4T4?	S2
<b>Stenanthium gramineum</b>	<b>Eastern Featherbells</b>		<b>ST</b>	<b>G4G5</b>	<b>S1</b>
<b>Strophostyles leiosperma</b>	<b>Slick-seed Wild-bean</b>		<b>ST</b>	<b>G5</b>	<b>S2</b>
Styrax americanus	American Snowbell		WL	G5	S3
<b>Taxodium distichum</b>	<b>Bald Cypress</b>		<b>ST</b>	<b>G5</b>	<b>S2</b>
<b>Thalictrum pubescens</b>	<b>Tall Meadowrue</b>		<b>ST</b>	<b>G5</b>	<b>S2</b>
<b>Trachelospermum difforme</b>	<b>Climbing Dogbane</b>		<b>SR</b>	<b>G4G5</b>	<b>S2</b>
<b>Trifolium reflexum var. glabrum</b>	<b>Buffalo Clover</b>		<b>SE</b>	<b>G5T2T4Q</b>	<b>S1</b>
<b>High Quality Natural Community</b>					
Forest - flatwoods dry	Dry Flatwoods		SG	G2?	S2
Forest - floodplain wet	Wet Floodplain Forest		SG	G3?	S3
Forest - upland dry-mesic Southern Bottomlands	Southern Bottomlands Dry-mesic Upland Forest			GNR	S1
<b>Other Significant Feature</b>					
Freshwater Mussel Concentration Area	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 DEPARTMENT OF TRANSPORTATION

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

PHONE: (855) 463-6848  
(855) INDOT4U

**Eric Holcomb, Governor**  
**Joe McGuinness, Commissioner**

Date: January 6, 2022

To: Site Assessment & Management (SAM)  
Environmental Policy Office - Environmental Services Division (ESD)  
Indiana Department of Transportation  
100 N Senate Avenue, Room N758-ES  
Indianapolis, IN 46204

From: Holly Hume  
Lochmueller Group, Inc.  
6200 Vogel Road  
Evansville, IN 47715  
hhume@lochgroup.com

Re: RED FLAG INVESTIGATION ADDENDUM  
DES 1400195, State Project  
Intersection Improvements  
State Road (SR) 66 at Epworth Road, 0.16 mile east of I-69  
Warrick County, Indiana

A review of the original RFI signed on July 20, 2018, for the above DES # indicated substantive changes have occurred within the 0.5 mile radius and/or project area limits that will have an impact to the project. The proposed project is an intersection improvement on SR 66 at Epworth Road, 0.16 mile east of I-69 in Warrick County, Indiana. The project area has been expanded to include an additional 900 feet west, 600 feet east, and 250 feet north of the SR 66/Epworth Road intersection. This project will require approximately 0.20 acre of permanent right-of-way (ROW) and 0.05 acre of temporary ROW. Culvert #066-87-08751 is located within the expanded project area, but no work is occurring to the culvert. Several small structures are now planned to be replaced or extended throughout the project area including two culverts under the NB to EB I-69 exit ramp, one under the WB to NB I-69 entrance ramp, and a 36-inch pipe beneath SR 66 on the eastern side of the SR 66/Epworth Road intersection. None of the small structures have structure numbers due to their size.

The following features and/or items were not detailed in the original RFI signed on July 20, 2018, but have since been identified as having an impact on the project area and requiring additional coordination.

1. Infrastructure -  
Hospitals: As indicated above, the project extents have expanded to take in additional areas to the north, east, and west of the SR 66/Epworth Road intersection. As such, access to the unmapped Deaconess Orthopedic Neuroscience Hospital is now within the project area. Coordination with Deaconess Orthopedic Neuroscience Hospital will occur.
2. Water Resources -  
NWI Lines: Two (2) NWI lines are now located within the project area. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

[www.in.gov/dot/](http://www.in.gov/dot/)

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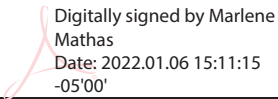


Rivers and Streams: An additional stream, an unnamed tributary (UNT), is now located within the project area. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Floodplains: Three (3) floodplain polygons are now located within the project area. Coordination with INDOT ESD Ecology and Water Permitting will occur.

3. Ecological Information: This statement was inadvertently left in the previously approved RFI and does not apply to this project: *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 with USFWS is necessary.*

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the expanded project area. 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".

INDOT ESD concurrence: **Marlene Mathas**  (Signature)  
Digitally signed by Marlene Mathas  
Date: 2022.01.06 15:11:15 -05'00'

Prepared by:  
Holly Hume  
Environmental Specialist I  
Lochmueller Group, Inc.

**Graphics:**

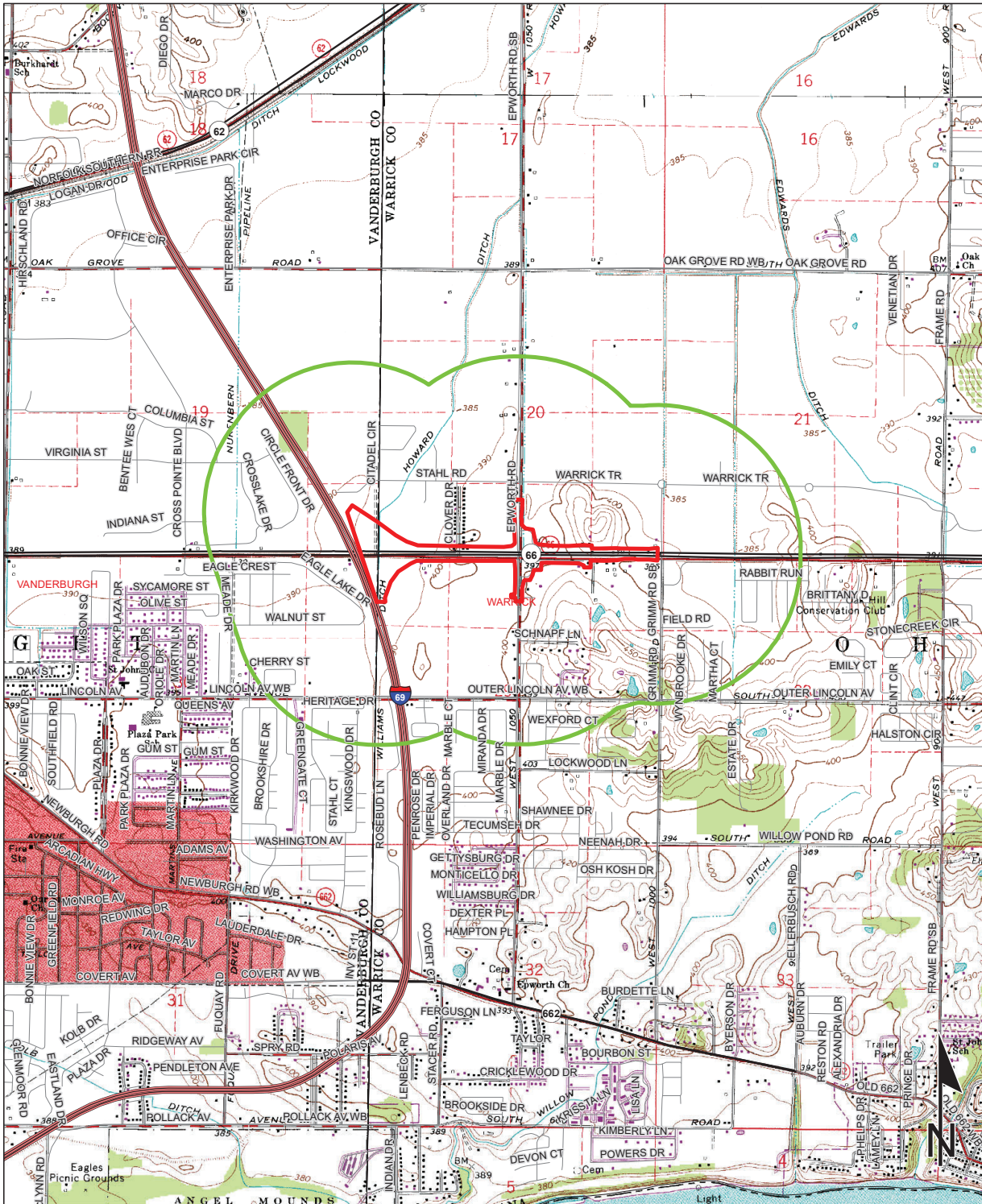
A map for each report section with a 0.5 mile search radius buffer around all project area(s) showing all items identified as possible items of concern is attached. If there is not a section map included, please change the YES to N/A:

SITE LOCATION: YES

INFRASTRUCTURE: YES

WATER RESOURCES: YES

Red Flag Investigation Addendum - Site Location  
 SR 66 at Epworth Road, 0.16 Mile East of I-69  
 Des. No.1400195, Intersection Improvements  
 Warrick 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](http://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.

NEWBURGH QUADRANGLE  
 INDIANA  
 7.5 MINUTE SERIES  
 (TOPOGRAPHIC)

Red Flag Investigation Addendum - Infrastructure  
 SR 66 at Epworth Road, 0.16 Mile East of I-69  
 Des. No.1400195, Intersection Improvements  
 Warrick County, Indiana



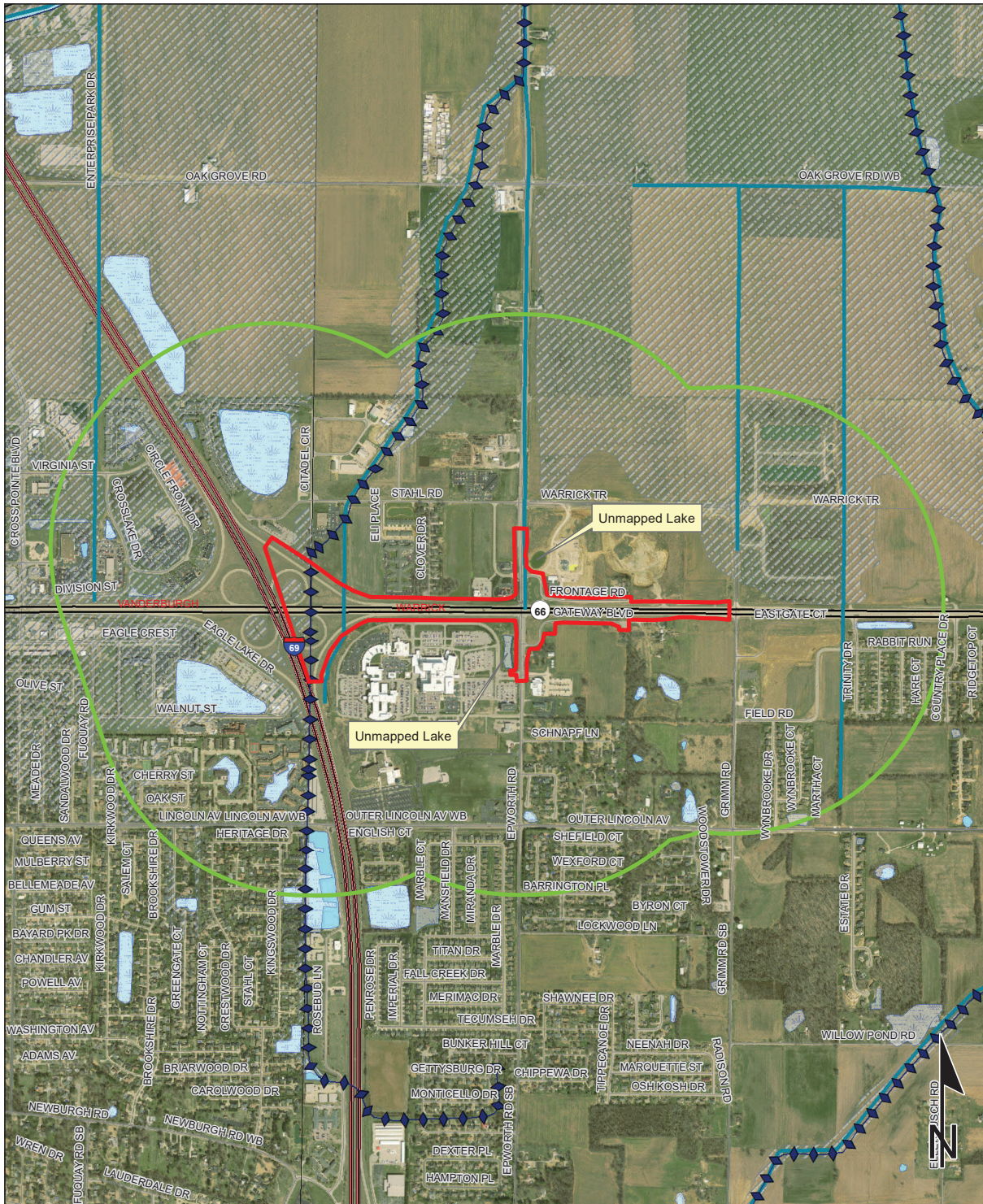
Sources: 0 0.125 0.25 Miles

**Non Orthophotography**  
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**Orthophotography** - Obtained from Indiana Map Framework Data ([www.indianamap.org](http://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 Addendum - Water Resources  
 SR 66 at Epworth Road, 0.16 Mile East of I-69  
 Des. No.1400195, Intersection Improvements  
 Warrick County, Indiana



Sources:  
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