

**Categorical Exclusion**  
**Appendix C**  
**Early Coordination**



# INDIANA DEPARTMENT OF TRANSPORTATION

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

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

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

Date: January 25, 2024

Sample Early  
Coordination Letter

Re: Early Coordination Letter

Des. Nos.: 2001886 & 1702997

US 6 from State Road (SR) 106 East Junction to 2.03 Miles West of SR 19, State Project  
Marshall and Elkhart Counties, Indiana

To whom it may concern:

The Indiana Department of Transportation (INDOT) LaPorte District, with funding from the Federal Highway administration (FHWA), intends to proceed with a hot mix asphalt (HMA) overlay (Des. No. 2001886) and shoulder widening project (Des. No. 1702997) along US 6 in Marshall and Elkhart Counties, Indiana.

This letter is part of the early coordination phase of the environmental review. At this time, we are requesting comments from your area of expertise regarding any possible environmental effects (social and natural) associated with this project. **Please use the above Des. No. and project description in your reply.** Your comments will be incorporated into the formal environmental study. Your cooperation in this endeavor is appreciated.

### *Project Location and Existing Conditions*

The proposed project is located along US 6 in northeastern Marshall and southwestern Elkhart County. In Marshall County, the project is located in Section 25, Township 35 North, Range 3 East and Sections 29, 30, 32, and 33, Township 35 North, Range 3 East and Range 4 East within German Township. In Elkhart County, the project is located in Sections 34 and 35, Township 35 North, Range 4 East in Locke Township, as depicted on the Bremen and Nappanee West Quadrangles of the U.S. Geological Survey 1:24,000 scale map. Adjacent land use is primarily rural and consists of farm fields, residences, light industrial and commercial properties, and wooded areas.

US 6 is an east/west highway, which is functionally classified as a principal arterial roadway. The typical cross section of US 6 within the project area consists of two 12-foot-wide travel lanes (one in each direction) with paved outside shoulders varying from 1 to 10 feet in width. Additionally, there are 11-foot-wide dedicated right turn lanes at the intersections of Douglas Road (SR 106), Dogwood Road, Beech Road, and Shawnee Street. The posted speed limit along this stretch of US 6 is 55 miles per hour (mph) from Douglas Road/SR 106 to Shawnee Street and 45 mph from Shawnee Street to the eastern terminus.

### *Purpose and Need*

The need for the project stems from the deteriorated condition of the existing pavement, shoulder, and many of the drainage structures along this stretch of US 6. The pavement has extensive transverse cracking, widening crack distress, and longitudinal joint distress. The shoulders are in poor condition. Many of the drainage structures within this stretch of US 6 are in fair condition or worse. Additionally, most of the project area cannot accommodate the large amount of horse-drawn carriage traffic along US 6. The purpose of the project is to extend the life of the pavement and shoulder of US 6, while also providing accommodations for horse-drawn carriage traffic.

### *Proposed Project*

The proposed project involves the application of a hot mix asphalt overlay along US 6 from the east junction of SR 106 to 2.03 miles west of SR 19 within northeastern Marshall County and southwestern Elkhart County (Des. No. 2001886). Approximately, 1.5 inches of the existing pavement will be milled and 4 inches of HMA overlay will be applied. The project also involves widening the shoulders from approximately 0.40 mile east of the east junction of SR 106 to 2.03 miles west of SR 19 (Des. No. 1702997). The existing shoulder will be widened to 8 feet to accommodate horse-drawn carriages and bicyclists in the area. Additionally, there are 47 small structures within the project area that will be added, replaced, repaired, or extended and 36 inch diameter culvert that will be replaced with an 84 inch diameter culvert. The project will also involve grading the roadside ditches to improve the drainage within the project area. With the exception of the shoulder widening and the profile being raised 2.5 inches, the existing roadway cross-section will remain the same throughout the project extent.

The maintenance of traffic (MOT) plan will occur in three phases to accommodate traffic during construction. The first phase will require the closure of both lanes of traffic at the east crossing of George Marberger Ditch to replace the side by side concrete culverts at that location. The second phase consist of a one lane detour that will close the westbound lane of US 6 and the third phase will consist of a one lane detour that will close the eastbound lane; both phases will limit traffic to a single lane and will be controlled by a flagger. A detour will be in place during each phase of construction and will likely utilize SR 19, US 20, and SR 331. Access to all residences and businesses within the project area will be maintained. The MOT plan has not been finalized, but the final MOT plan will be implemented per the *Manual on Uniform Traffic Control Devices (MUTCD)* guidelines. Construction is anticipated to begin in early 2026.

### *Right-of-Way (ROW)*

This project is anticipated to require the acquisition of approximately 12.5 acres of new permanent ROW and may require additional areas of temporary ROW to accommodate construction activity. Tree clearing of up to 1.0 acre may be necessary.

### *Environmental Resources*

A Red Flag Investigation (RFI) was performed within a 0.5-mile radius around the project area. Several “Red Flags” were identified, including religious facilities, recreational facilities, a pipeline, railroad, various water resources and hazardous material concerns. However, not all will impact the proposed project. These resources will be monitored throughout project development. A Waters of the US investigation is ongoing, which will identify and delineate water resources that may be present.

### *Cultural Resources*

Coordination will occur with INDOT Cultural Resources Office (CRO) to evaluate the project area for archaeological and historic resources and for Section 106 compliance. The results of this investigation will be forwarded to the State Historic Preservation Officer (SHPO) for review and concurrence as appropriate.

### *Range-wide Informal Programmatic Consultation*

Both Marshall and Elkhart County are within the range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally endangered northern long-eared bat (NLEB). (*Myotis septentrionalis*). The project is anticipated to qualify for the U.S. Fish and Wildlife Service (USFWS) Range-wide Programmatic Informal Consultation for the Indiana bat and the NLEB.


### *Early Coordination*

This letter is part of the early coordination review process. You are asked to review this information and provide any comments you may have relative to anticipated impacts of the project on areas in which you have jurisdiction or special expertise. We will incorporate your comments into a study of the project's environmental impacts. To facilitate the development of this project, you are asked to reply within **30 calendar days** of receipt of this letter. However, should you find that an extension to the response time is necessary, a reasonable amount may be granted upon request.

If you have any questions regarding this project, please feel free to contact me at (317) 334-6818 or at [CKunkel@lochgroup.com](mailto:CKunkel@lochgroup.com). Additionally, should you want to contact the sponsor of this project, INDOT LaPorte District, please contact Shawna DeGraff at (219) 325-7484 or at [sdegraff@indot.in.gov](mailto:sdegraff@indot.in.gov).

Thank you in advance for your input.

Sincerely,



Chris Kunkel  
Environmental Specialist  
Lochmueller Group, Inc.

### Attachments:

- Location Map
- USGS Quad Map (1:24,000)
- Index
- Aerial and Photo Location Map
- Project Photos
- Red Flag Investigation Maps

Removed to avoid duplication; see Appendices B and E

### Distribution List:

- Federal Highway Administration - Indiana Division
- US Dept. of Agriculture, Natural Resources Conservation Service
- US Department of Housing and Urban Development, Chicago Regional Office
- National Park Service, Midwest Regional Office
- US Army Corps of Engineers, Detroit District
- Kankakee River Basin and Yellow River Basin Development Commission
- INDOT LaPorte District Office, Environmental Section Manager & Project Manager
- Indiana Dept. of Natural Resources, Division of Fish and Wildlife
- Michiana Area Council of Governments (MACOG)
- INDOT Environmental Services Division
- Indiana Geological and Water Survey
- Indiana Department of Environmental Management
- INDOT Utilities and Railroad
- Marshall County Highway Department
- Elkhart County Highway Department
- Bremen Street Department

- Nappanee Street Department
- Marshall County Board of Commissioners
- Elkhart County Board of Commissioners
- Marshall County German Township Trustee
- Elkhart County Locke Township Trustee
- Marshall County Council
- Elkhart County Council
- Bremen Town Council
- Nappanee City Council
- Nappanee Mayor
- City of Nappanee Clerk-Treasurer
- Town of Bremen Clerk-Treasurer
- Marshall County Surveyor's Office and Drainage Board
- Elkhart County Surveyor's Office and Drainage Board
- Marshall County Emergency Management Agency
- Elkhart County Emergency Management Agency
- Marshall County Sheriff Department
- Elkhart County Sheriff Department
- Bremen Police Department
- Nappanee Police Department
- Bremen Fire Department
- Nappanee Fire Department
- Marshall County Health Department
- Elkhart County Health Department
- Marshall County Planning Department, Floodplain Administrator
- Elkhart County Planning Department, Floodplain Administrator
- Bremen Public Schools
- Wa-Nee Community School Corporation
- United Pentecostal Church
- Pla-Mor Park/Campground
- Digger Specialties, Inc
- Elkhart County MS4
- DeWayne Creighton



## Organization and Project Information

**Project ID:**  
**Des. ID:** 1702997/2001886  
**Project Title:** US Roadway Project  
**Name of Organization:** Lochmueller Group  
**Requested by:** Chris Kunkel

## Environmental Assessment Report

### 1. Geological Hazards:

- Moderate liquefaction potential
- Floodway

### 2. Mineral Resources:

- Bedrock Resource: Moderate Potential
- Sand and Gravel Resource: High Potential

### 3. Active or abandoned mineral resources extraction sites:

- None documented in the area

\*Map layers from the [Indiana Geological and Water Survey](#) and [Indiana Map](#)

### DISCLAIMER:

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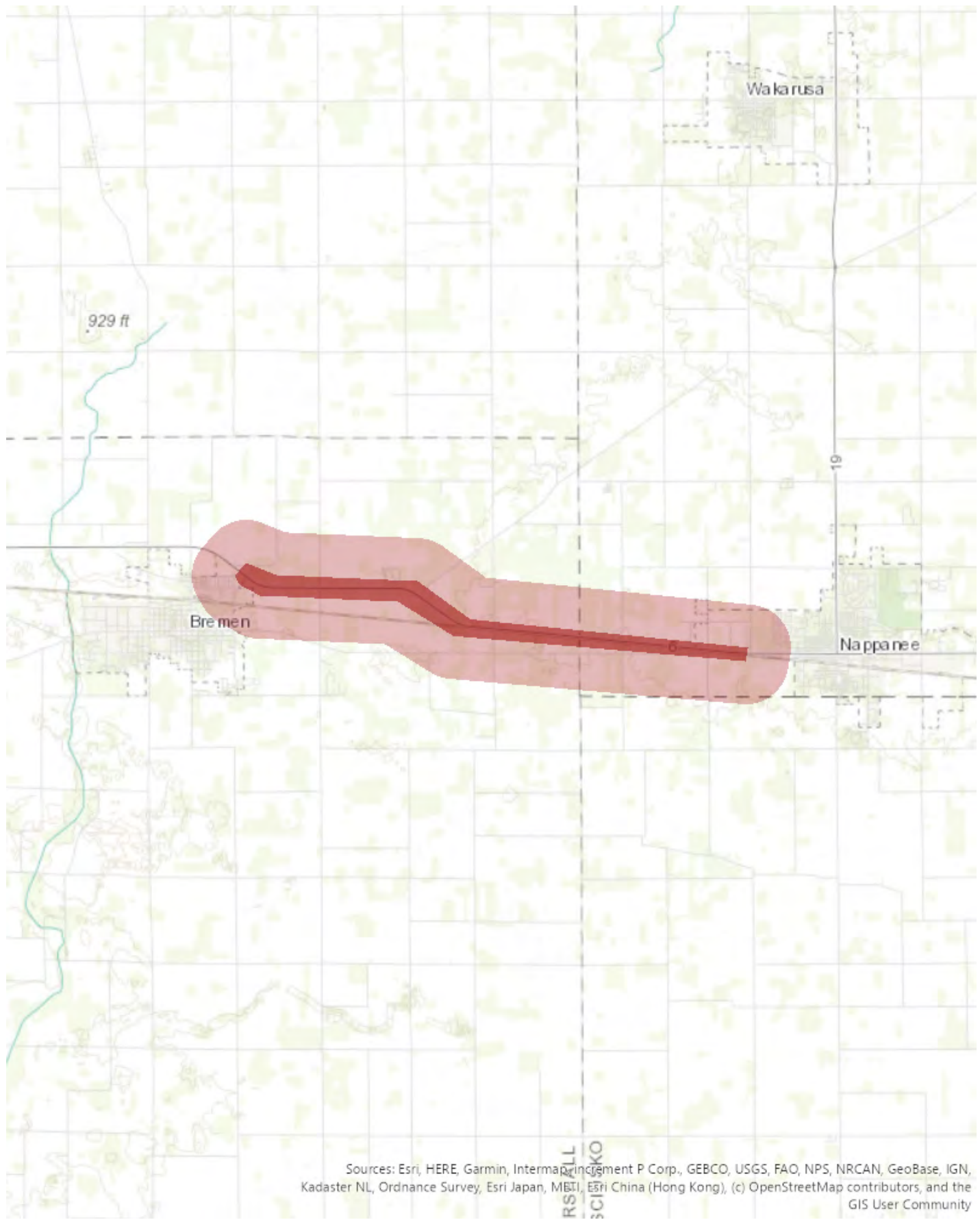
This information was furnished by Indiana Geological Survey

Address: 420 N. Walnut St., Bloomington, IN 47404

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428

Date: January 25, 2024



**From:** [Jason Peters](#)  
**To:** [Chris Kunkel](#)  
**Cc:** [C.J. Cunningham](#); [Barbie Swihart Stutzman](#); [Shawna DeGraff](#); [Michels, Stewart](#)  
**Subject:** Re: US 6 HMA Overlay and Shoulder Widening Project (Des. No. 1702997/2001886) - Early Coordination Letter  
**Date:** Monday, January 29, 2024 8:28:20 AM  
**Attachments:** [image138097.png](#)  
[image798688.png](#)  
[image232336.png](#)  
[image671351.png](#)  
[image603046.png](#)  
[image024973.png](#)  
[image405738.png](#)  
[image418735.png](#)  
[US 6 Roadway Project\\_ECL.pdf](#)

EXTERNAL

Chris,

As I am sure you are aware, there is a sections of road at Beech and US6 (southeast side) that Marshall County get alot of calls on (just as I am sure the State does as well)!

I just want to be sure that section of US6 and Beech intersections north of the RR tacks is part of this project.

Thanks,

Jason Peters  
Superintendent  
Thee Marshall Co. Highway  
9675 King Rd.  
Plymouth,IN 46563  
Ph. (574) 936-2181  
[jasonp@co.marshall.in.us](mailto:jasonp@co.marshall.in.us)

On Jan 25, 2024, at 12:18 PM, Chris Kunkel <[CKunkel@lochgroup.com](mailto:CKunkel@lochgroup.com)> wrote:

You don't often get email from [ckunkel@lochgroup.com](mailto:ckunkel@lochgroup.com). [Learn why this is important](#)

**CAUTION:** This email originated from outside of our organization. Do not click links or open attachments unless you recognize the sender **AND** know the content is safe.

Good afternoon,

Attached you will find the early coordination letter and associated attachments for this roadway project along US 6 in Marshall and Elkhart County.

Should you have any questions pertaining to this project, please call or email me at the contact information listed below.

Thank you for your time and have a great day!





**From:** [Ty Adley](#)  
**To:** [Chris Kunkel](#)  
**Subject:** RE: US 6 HMA Overlay and Shoulder Widening Project (Des. No. 1702997/2001886) - Early Coordination Letter  
**Date:** Tuesday, January 30, 2024 9:14:08 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)

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EXTERNAL

Good Morning Chris Kunkel,

In review of the US 6 HMA Overlay and Shoulder Widening, Des. No. 2001886, I have the following comments.

- Stream (Albert Zeiger Ditch) is a County Regulated ditch and is also a floodplain through the given structure.
- Stream (George Marberger Ditch) is a County Regulated ditch, but does have some flood plain on the North side of US 6.
- There may be a missed wetland depending on limits of construction that is in a wood patch southeast of US 6 and Plymouth-Goshen Trail on page 3 of 6 in the Aerial Photo Location Map set.
- I would recommend also making contact with Ayr Cabinets and Burkholder Buildings (West and East of Beech Road respectively) to assist in the coordination of truck traffic that they receive.

Should you have any questions just let me know.

Thanks,

Ty Adley, AICP  
Plan Director  
Marshall County Plan Commission  
p. 574-935-8540  
[tadley@co.marshall.in.us](mailto:tadley@co.marshall.in.us)

---

**From:** Chris Kunkel <CKunkel@lochgroup.com>  
**Sent:** Thursday, January 25, 2024 12:18 PM  
**Cc:** C.J. Cunningham <CCunningham@lochgroup.com>; Barbie Swihart Stutzman <BStutzman@lochgroup.com>; DeGraff, Shawna <sdegraff@indot.in.gov>; Michels, Stewart <SMichels@indot.IN.gov>  
**Subject:** US 6 HMA Overlay and Shoulder Widening Project (Des. No. 1702997/2001886) - Early Coordination Letter

**From:** [Michels, Stewart](#)  
**To:** [Chris Kunkel](#)  
**Cc:** [C.J. Cunningham](#); [Barbie Swihart Stutzman](#); [DeGraff, Shawna](#)  
**Subject:** RE: US 6 HMA Overlay and Shoulder Widening Project (Des. No. 1702997/2001886) - Early Coordination Letter  
**Date:** Tuesday, February 6, 2024 8:11:52 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)

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EXTERNAL

Chris,

Thank you for providing a copy of the early coordination letter for Des. Nos. 1702997 & 2001886 to the LaPorte District Environmental Services. We do not have any comment at this time. Thank you, again, for contacting us.

Regards,

Stew

**Stewart Michels**

***Environmental Manager Supervisor***

Indiana Department of Transportation

LaPorte District

**Cell:** (219) 402-7315

**Email:** [SMichels@indot.in.gov](mailto:SMichels@indot.in.gov)

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**From:** Chris Kunkel <CKunkel@lochgroup.com>

**Sent:** Thursday, January 25, 2024 11:18 AM

**Cc:** C.J. Cunningham <CCunningham@lochgroup.com>; Stutzman, Barbie <BStutzman@lochgroup.com>; DeGraff, Shawna <SDegraff@indot.IN.gov>; Michels, Stewart <SMichels@indot.IN.gov>

**Subject:** US 6 HMA Overlay and Shoulder Widening Project (Des. No. 1702997/2001886) - Early Coordination Letter

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Good afternoon,

Attached you will find the early coordination letter and associated attachments for this roadway

February 12, 2024

Chris Kunkel  
3502 Woodview Trace, Suite 150  
Indianapolis, Indiana 46268

Dear Mr. Kunkel:

The proposed US 6 HMA Overlay and Shoulder Widening roadway project in Marshall and Elkhart Counties, Indiana (Des. No. 2001886 and 1702997), as referred to in your letter received January 25, 2024, will cause a conversion of prime farmland.

The attached packet of information is for your use competing Parts VI and VII of the AD-1006. After completion, the federal funding agency needs to forward one copy to NRCS for our records.

If you need additional information, please contact John Allen at 317-295-5859 or [john.allen@usda.gov](mailto:john.allen@usda.gov).

Sincerely,

**JOHN ALLEN**

JOHN ALLEN  
State Soil Scientist

Digitally signed by JOHN ALLEN  
Date: 2024.02.13 12:32:28 -05'00'

**FARMLAND CONVERSION IMPACT RATING**

<b>PART I</b> (To be completed by Federal Agency)		Date Of Land Evaluation Request <b>01/25/2024</b>			
Name of Project <b>DES2001886 US 6 Roadway Improvement</b>		Federal Agency Involved <b>Federal Highway</b>			
Proposed Land Use <b>transportation</b>		County and State <b>Elkhart County, Indiana</b>			
<b>PART II</b> (To be completed by NRCS)		Date Request Received By NRCS		Person Completing Form: <b>JRA</b>	
Does the site contain Prime, Unique, Statewide or Local Important Farmland? <i>(If no, the FPPA does not apply - do not complete additional parts of this form)</i>		YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	Acres Irrigated	Average Farm Size <b>105 ac</b>
Major Crop(s) <b>Corn</b>	Farmable Land In Govt. Jurisdiction Acres: <b>257229% 86</b>	Amount of Farmland As Defined in FPPA Acres: <b>16559% 55</b>			
Name of Land Evaluation System Used <b>LESA</b>	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS <b>2/12/2024</b>			
<b>PART III</b> (To be completed by Federal Agency)		Alternative Site Rating			
		Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly		<b>10.5</b>			
B. Total Acres To Be Converted Indirectly					
C. Total Acres In Site		<b>12.5</b>			
<b>PART IV</b> (To be completed by NRCS) Land Evaluation Information					
A. Total Acres Prime And Unique Farmland		<b>0.87</b>			
B. Total Acres Statewide Important or Local Important Farmland		<b>0.00</b>			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted		<b>&lt;0.001</b>			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value		<b>10</b>			
<b>PART V</b> (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)		<b>94</b>			
<b>PART VI</b> (To be completed by Federal Agency) Site Assessment Criteria <i>(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)</i>		<b>Maximum Points</b>	Site A	Site B	Site C
1. Area In Non-urban Use		(15)	<b>5</b>		
2. Perimeter In Non-urban Use		(10)	<b>8</b>		
3. Percent Of Site Being Farmed		(20)	<b>10</b>		
4. Protection Provided By State and Local Government		(20)	<b>20</b>		
5. Distance From Urban Built-up Area		(15)	<b>0</b>		
6. Distance To Urban Support Services		(15)	<b>0</b>		
7. Size Of Present Farm Unit Compared To Average		(10)	<b>3</b>		
8. Creation Of Non-farmable Farmland		(10)	<b>0</b>		
9. Availability Of Farm Support Services		(5)	<b>2</b>		
10. On-Farm Investments		(20)	<b>10</b>		
11. Effects Of Conversion On Farm Support Services		(10)	<b>0</b>		
12. Compatibility With Existing Agricultural Use		(10)	<b>1</b>		
TOTAL SITE ASSESSMENT POINTS		<b>160</b>	<b>59</b>	<b>0</b>	<b>0</b>
<b>PART VII</b> (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)		<b>100</b>	<b>94</b>	<b>0</b>	<b>0</b>
Total Site Assessment (From Part VI above or local site assessment)		<b>160</b>	<b>59</b>	<b>0</b>	<b>0</b>
<b>TOTAL POINTS (Total of above 2 lines)</b>		<b>260</b>	<b>153</b>	<b>0</b>	<b>0</b>
Site Selected: <b>Site A</b>		Date Of Selection <b>2/20/2024</b>		Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
Reason For Selection: <b>Site A is the only site that was considered for the project and as such has the least amount of impact to prime farmland</b>					
Name of Federal agency representative completing this form: <b>Chris Kunkel</b>					Date: <b>2/20/2024</b>

(See Instructions on reverse side)

Form AD-1006 (03-02)

**FARMLAND CONVERSION IMPACT RATING**

<b>PART I</b> (To be completed by Federal Agency)		Date Of Land Evaluation Request <b>01/25/2024</b>			
Name of Project <b>DES2001886 1702997 US 6 Roadway Ir</b>		Federal Agency Involved <b>Federal Highway</b>			
Proposed Land Use <b>transportation</b>		County and State <b>Marshall County, Indiana</b>			
<b>PART II</b> (To be completed by NRCS)		Date Request Received By NRCS		Person Completing Form: <b>JRA</b>	
Does the site contain Prime, Unique, Statewide or Local Important Farmland? <i>(If no, the FPPA does not apply - do not complete additional parts of this form)</i>		YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	Acres Irrigated	Average Farm Size <b>240 ac</b>
Major Crop(s) <b>Corn</b>	Farmable Land In Govt. Jurisdiction Acres: <b>258991% 90</b>	Amount of Farmland As Defined in FPPA Acres: <b>21647% 75</b>			
Name of Land Evaluation System Used <b>LESA</b>	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS <b>2/12/2024</b>			
<b>PART III</b> (To be completed by Federal Agency)		Alternative Site Rating			
		Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly		<b>10.5</b>			
B. Total Acres To Be Converted Indirectly					
C. Total Acres In Site		<b>12.5</b>			
<b>PART IV</b> (To be completed by NRCS) Land Evaluation Information					
A. Total Acres Prime And Unique Farmland		<b>5.13</b>			
B. Total Acres Statewide Important or Local Important Farmland		<b>0.23</b>			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted		<b>0.002</b>			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value		<b>26</b>			
<b>PART V</b> (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)		<b>90</b>			
<b>PART VI</b> (To be completed by Federal Agency) Site Assessment Criteria <i>(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)</i>		<b>Maximum Points</b>	Site A	Site B	Site C
1. Area In Non-urban Use		(15)	<b>8</b>		
2. Perimeter In Non-urban Use		(10)	<b>9</b>		
3. Percent Of Site Being Farmed		(20)	<b>12</b>		
4. Protection Provided By State and Local Government		(20)	<b>20</b>		
5. Distance From Urban Built-up Area		(15)	<b>5</b>		
6. Distance To Urban Support Services		(15)	<b>0</b>		
7. Size Of Present Farm Unit Compared To Average		(10)	<b>3</b>		
8. Creation Of Non-farmable Farmland		(10)	<b>0</b>		
9. Availability Of Farm Support Services		(5)	<b>3</b>		
10. On-Farm Investments		(20)	<b>8</b>		
11. Effects Of Conversion On Farm Support Services		(10)	<b>0</b>		
12. Compatibility With Existing Agricultural Use		(10)	<b>0</b>		
TOTAL SITE ASSESSMENT POINTS		<b>160</b>	<b>68</b>	<b>0</b>	<b>0</b>
<b>PART VII</b> (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)		100	<b>90</b>	<b>0</b>	<b>0</b>
Total Site Assessment (From Part VI above or local site assessment)		160	<b>68</b>	<b>0</b>	<b>0</b>
<b>TOTAL POINTS (Total of above 2 lines)</b>		<b>260</b>	<b>158</b>	<b>0</b>	<b>0</b>
Site Selected: <b>Site A</b>		Date Of Selection <b>2/20/2024</b>		Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
Reason For Selection: <b>Site A is the only site that was considered for the project and as such has the least amount of impact to prime farmland</b>					
Name of Federal agency representative completing this form: <b>Chris Kunkel</b>					Date: <b>2/20/2024</b>

(See Instructions on reverse side)

Form AD-1006 (03-02)

**THIS IS NOT A PERMIT**

**State of Indiana**  
**DEPARTMENT OF NATURAL RESOURCES**  
**Division of Fish and Wildlife**  
Early Coordination/Environmental Assessment

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**DNR#:** ER-26250

**Request Received:** January 25, 2024

**Requestor:**

Chris Kunkel  
Lochmueller Group, Inc.  
3502 Woodview Trace, Suite 150  
Indianapolis, IN 46268

**Project:**

LaPorte District: US 6 road improvements, including HMA overlay (Des #2001886), shoulder widening (Des #1702997), and 47 small structure construction, replacement, repair, or extension, from SR 106 East Junction to 2.03 miles west of SR 19

**County/Site Info:** Elkhart, Marshall Counties

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not have permitting authority, all recommendations are voluntary.

**Regulatory Assessment:**

This proposal may require the formal approval of our agency pursuant to the Flood Control Act (IC 14-28-1) for any proposal to construct, excavate, or fill in or on the floodway of a stream or other flowing waterbody which has a drainage area greater than one square mile, unless it qualifies for a bridge exemption (see enclosure) or qualifies under the INDOT and IDNR Memorandum of Understanding for Maintenance Activity Exemption, dated March 2023. Please include a copy of this letter with the permit application, if required.

**Natural Heritage Database:**

The Natural Heritage Program's data have been checked. The State special concern Least Weasel (*Mustela nivalis*) has been documented within the project area.

**Fish and Wildlife Comments:**

Avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest extent possible, and compensate for impacts. The following are recommendations that address potential impacts identified in the proposed project area:

A) Heritage Species

The Division of Fish and Wildlife does not anticipate any major impacts to the Least Weasel due to this project, although precautions should still be taken. Moving earth for shoulder widening may impact areas utilized by Least Weasels. To minimize impacts to the species, conduct earth moving activities outside of the breeding season (April – July).

## B) Wildlife Passage

Maintaining or improving fish and wildlife passage at existing and proposed crossings is a priority for the Division of Fish and Wildlife (DFW) to reduce wildlife mortality along roadways. The DFW has outlined different requirements for different types of crossing structure impacts. For brand new crossings in areas that currently do not have a crossing, the new structure must accommodate white-tailed deer passage where appropriate. Minimum structure dimensions for white-tailed deer passage are 20 feet of width clearance (overall size of the structure span) and 8 feet of height clearance measured from the ordinary high-water mark (OHWM) to the low chord elevation and where deer passage is provided. For crossing replacements, the new structure must include wildlife passage appropriate for the type of replacement structure being proposed. If the existing structure is sized to accommodate white-tailed deer passage, then it should be included in the design of the new structure. If white-tailed deer passage is not possible with the existing structure, deer passage still needs to be considered in the design and at minimum the bank lines must be restored within structures to allow for smaller wildlife passage above the OHWM. Wildlife passage designs should include a smooth level pathway preferably 3 feet wide but a minimum of 1-2 feet in width composed of natural substrate (soil, sand, gravel, etc.) or compacted aggregate fill over riprap (#2, #53, #73, etc.) tied into existing elevations both upstream and downstream. The stream crossing repairs or modifications, and any bank stabilization under or around the structure, must not create conditions that are less favorable for wildlife passage when compared to existing conditions. Upgrading wildlife passage for rehabilitated/modified structures is encouraged whenever possible to improve wildlife/vehicle safety.

There are several techniques and materials for incorporating wildlife passage into the design of a crossing structure. Coordination with a Regional Environmental Biologist to address wildlife passage issues before submitting a permit application (if required) is encouraged to avoid delays in the permitting process. The following links are good resources to consider in the design of stream crossing structures to maintain fish and wildlife passage:

<https://www.fs.usda.gov/ccrc/tool/fishxing-fish-passage-learning-systems>  
<https://www.fs.usda.gov/wildlifecrossings/library/index.php>  
[https://www.fhwa.dot.gov/clas/ctip/wildlife\\_crossing\\_structures/](https://www.fhwa.dot.gov/clas/ctip/wildlife_crossing_structures/)  
<https://www.fhwa.dot.gov/engineering/hydraulics/pubs/11008/hif11008.pdf>

## C) Pavement Rehabilitation

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

## D) Riparian Habitat

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

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

Seeding and stabilizing disturbed areas is required regardless of the impact amount and location. If floodway impacts to forested wetland and non-wetland habitat areas combine to be 0.10 acres or more, mitigation should be done and coordinated with the biologist, as needed.

The mitigation site should be located in the floodway, downstream of the one (1) square mile drainage area of that stream (or another stream within the 8-digit HUC, preferably as close to the impact site as possible) and adjacent to existing forested riparian habitat.

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

1. Revegetate all bare and disturbed areas that are not currently mowed and maintained with a mixture of grasses, sedges, and wildflowers native to Northern Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion; turf-type grasses (including low-endophyte, friendly endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in currently mowed areas only. A native herbaceous seed mixture must include at least 5 species of grasses and sedges and 5 species of wildflowers.
2. Minimize and contain within the project limits in-channel disturbance and the clearing of trees and brush.
3. Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife.
4. Do not cut any trees suitable for Indiana Bat or Northern Long-eared Bat roosting (3 inches or greater diameter-at-breast height, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
5. Use minimum average 6-inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
6. Do not use broken concrete as riprap.
7. Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.
8. Minimize the movement of resuspended bottom sediment from the immediate project area.
9. Do not deposit or allow construction/demolition materials or debris to fall or otherwise enter the waterway. Any incidental fallen material or debris in the waterway must be removed within 24 hours using best management practices, particularly lifting material out of the waterway and not dragging it across the streambed whenever possible.
10. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the waterbody or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
11. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.
12. Do not excavate or place fill in any riparian wetland.

**Contact Staff:**

Our agency appreciates this opportunity to be of service. Please contact me at [RVanVoorhis@dnr.IN.gov](mailto:RVanVoorhis@dnr.IN.gov) or (317) 232-8163 if we can be of further assistance.

*Rachel Van Voorhis*  
Rachel Van Voorhis  
Environmental Coordinator  
Division of Fish and Wildlife

**Date:** February 23, 2024





## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Indiana Ecological Services Field Office  
620 South Walker Street  
Bloomington, IN 47403-2121  
Phone: (812) 334-4261 Fax: (812) 334-4273

In Reply Refer To:

05/15/2024 14:51:55 UTC

Project Code: 2024-0043784

Project Name: US 6 HMA Overlay (Des. No. 2001886) & Shoulder Widening (Des. No. 1702997) Project

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - <http://www.fws.gov/midwest/endangered/section7/>

[s7process/index.html](#). This website contains step-by-step instructions which will help you determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process. For all **wind energy projects** and **projects that include installing towers that use guy wires or are over 200 feet in height**, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

**Migratory Birds:** In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both

migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. **Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.**

Attachment(s):

- Official Species List
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

## OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

### **Indiana Ecological Services Field Office**

620 South Walker Street  
Bloomington, IN 47403-2121  
(812) 334-4261

## PROJECT SUMMARY

Project Code: 2024-0043784  
Project Name: US 6 HMA Overlay (Des. No. 2001886) & Shoulder Widening (Des. No. 1702997) Project  
Project Type: Road/Hwy - Maintenance/Modification  
Project Description: The Indiana Department of Transportation (INDOT) LaPorte District, with funding from the Federal Highway Administration (FHWA), intends to proceed with a hot mix asphalt (HMA) overlay (Des. No. 2001886) and shoulder widening project (Des. No. 1702997) along US 6 in Marshall and Elkhart Counties, Indiana.

The proposed project involves the application of an HMA overlay along US 6 from the east junction of SR 106 to 2.03 miles west of SR 19 within northeastern Marshall County and southwestern Elkhart County (Des. No. 2001886). Approximately 1.5 inches of the existing pavement will be milled and 4 inches of HMA overlay will be applied. The project also involves widening the shoulders from approximately 0.40 mile east of the east junction of SR 106 to 2.03 miles west of SR 19 (Des. No. 1702997). The existing shoulder will be widened to 8 feet to accommodate horse-drawn carriages and bicyclists in the area. Additionally, there are 41 small structures within the project area that will be replaced, repaired, or extended, which includes the replacement of a 36-inch diameter corrugated metal pipe (CMP) culvert (CLV-100157) with an 84 inch diameter culvert. The project will also involve grading the roadside ditches to improve the drainage within the project area. With the exception of the shoulder widening and the profile being raised 2.5 inches, the existing roadway cross-section will remain the same throughout the project extent. No new permanent lighting will be constructed and no existing lighting will be replaced. Temporary lighting may be used during the active season if project work occurs at night. Suitable bat habitat exists within the project action area and 1.0 acre of trees is anticipated to be removed within 100 feet of the existing roadway. Tree removal will occur outside of the bat active season. Trees to be removed mainly consist of silver maple (*Acer saccharinum*), sugar maple (*Acer saccharum*), American basswood (*Tilia americana*), sandbar willow (*Salix interior*), American sycamore (*Platanus occidentalis*), and eastern cottonwood (*Populus deltoides*). Mitigation is not anticipated.

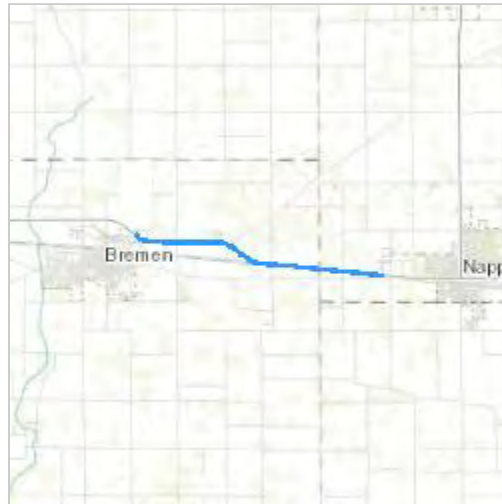
Project construction is anticipated to begin in early 2026 and occur throughout the 2026 construction season.

INDOT LaPorte District conducted a check of the USFWS Database for the presence of endangered bats within 0.5 mile of the project area on February 7, 2022, and none were found.

All of the structures within the project area were investigated for evidence of use by bats by Lochmueller Group on June 5, 6, and 7, 2023. No such evidence was found.

**Project Location:**

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@41.44976305,-86.09050578159977,14z>



Counties: Elkhart and Marshall counties, Indiana

## ENDANGERED SPECIES ACT SPECIES

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 2 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## MAMMALS

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5949">https://ecos.fws.gov/ecp/species/5949</a>	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: <ul style="list-style-type: none"> <li>This species only needs to be considered if the project includes wind turbine operations.</li> </ul> Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Endangered
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: <ul style="list-style-type: none"> <li>This species only needs to be considered if the project includes wind turbine operations.</li> </ul> Species profile: <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a>	Proposed Endangered

## BIRDS

NAME	STATUS
Whooping Crane <i>Grus americana</i> Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY) No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/758">https://ecos.fws.gov/ecp/species/758</a>	Experimental Population, Non- Essential

## CLAMS

NAME	STATUS
Salamander Mussel <i>Simpsonaias ambigua</i> There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/6208">https://ecos.fws.gov/ecp/species/6208</a>	Proposed Endangered

## INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate

## CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

# BALD & GOLDEN EAGLES

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

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

- 
1. The [Bald and Golden Eagle Protection Act](#) of 1940.
  2. The [Migratory Birds Treaty Act](#) of 1918.
  3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to [Bald Eagle Nesting and Sensitivity to Human Activity](#)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <a href="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a>	Breeds Dec 1 to Aug 31

## PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "[Supplemental Information on Migratory Birds and Eagles](#)", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

### Breeding Season (■)

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

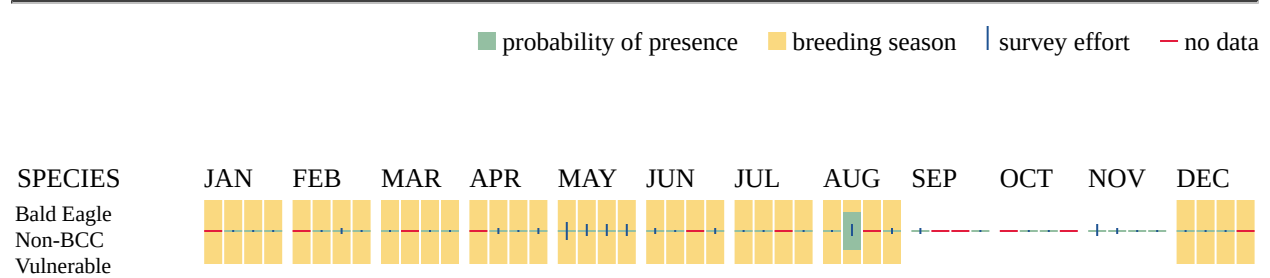


**Survey Effort (|)**

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

**No Data (-)**

A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

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

## MIGRATORY BIRDS

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

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
<p><b>Bald Eagle <i>Haliaeetus leucocephalus</i></b>            This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  <a href="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a></p>	Breeds Dec 1 to Aug 31
<p><b>Canada Warbler <i>Cardellina canadensis</i></b>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9643">https://ecos.fws.gov/ecp/species/9643</a></p>	Breeds May 20 to Aug 10
<p><b>Chimney Swift <i>Chaetura pelagica</i></b>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9406">https://ecos.fws.gov/ecp/species/9406</a></p>	Breeds Mar 15 to Aug 25
<p><b>Lesser Yellowlegs <i>Tringa flavipes</i></b>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9679">https://ecos.fws.gov/ecp/species/9679</a></p>	Breeds elsewhere
<p><b>Pectoral Sandpiper <i>Calidris melanotos</i></b>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9561">https://ecos.fws.gov/ecp/species/9561</a></p>	Breeds elsewhere
<p><b>Red-headed Woodpecker <i>Melanerpes erythrocephalus</i></b>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9398">https://ecos.fws.gov/ecp/species/9398</a></p>	Breeds May 10 to Sep 10
<p><b>Semipalmated Sandpiper <i>Calidris pusilla</i></b>            This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA  <a href="https://ecos.fws.gov/ecp/species/9603">https://ecos.fws.gov/ecp/species/9603</a></p>	Breeds elsewhere
<p><b>Short-billed Dowitcher <i>Limnodromus griseus</i></b>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9480">https://ecos.fws.gov/ecp/species/9480</a></p>	Breeds elsewhere
<p><b>Wood Thrush <i>Hylocichla mustelina</i></b>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9431">https://ecos.fws.gov/ecp/species/9431</a></p>	Breeds May 10 to Aug 31

## PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "[Supplemental Information on Migratory Birds and Eagles](#)", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

### Breeding Season (■)

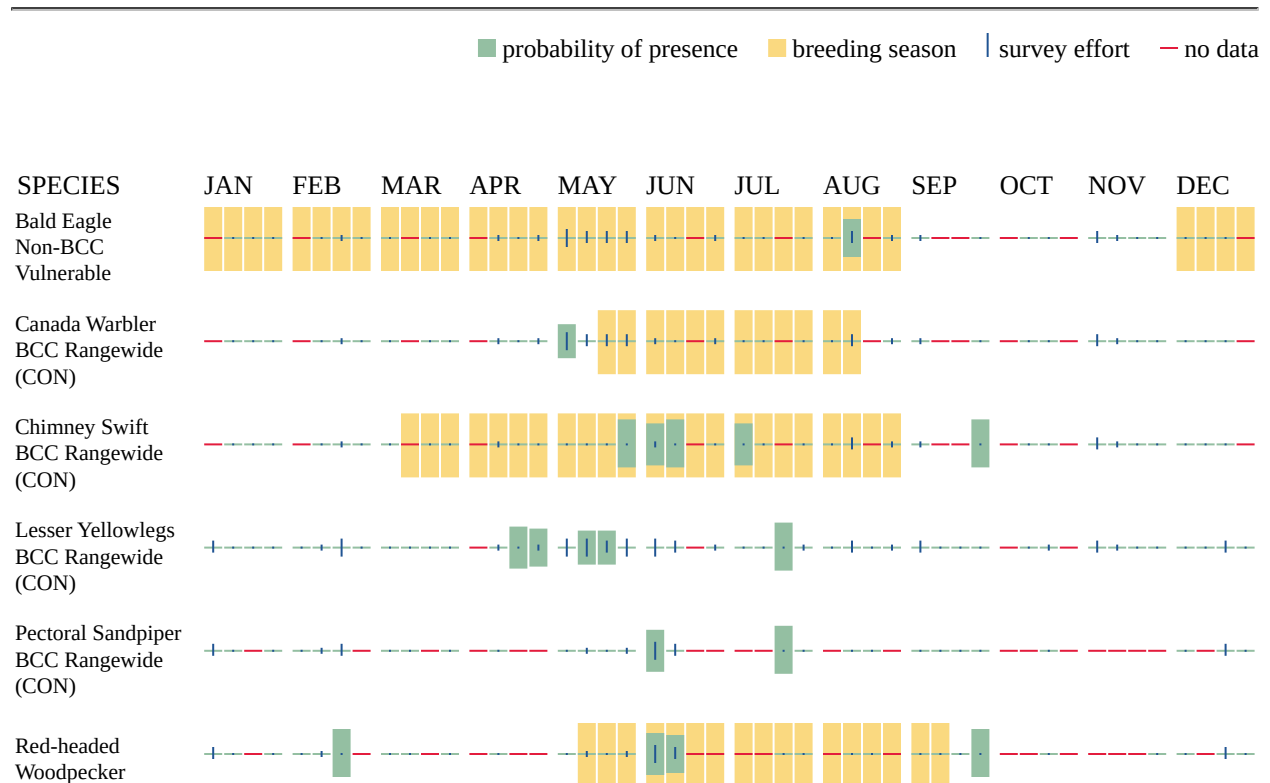
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

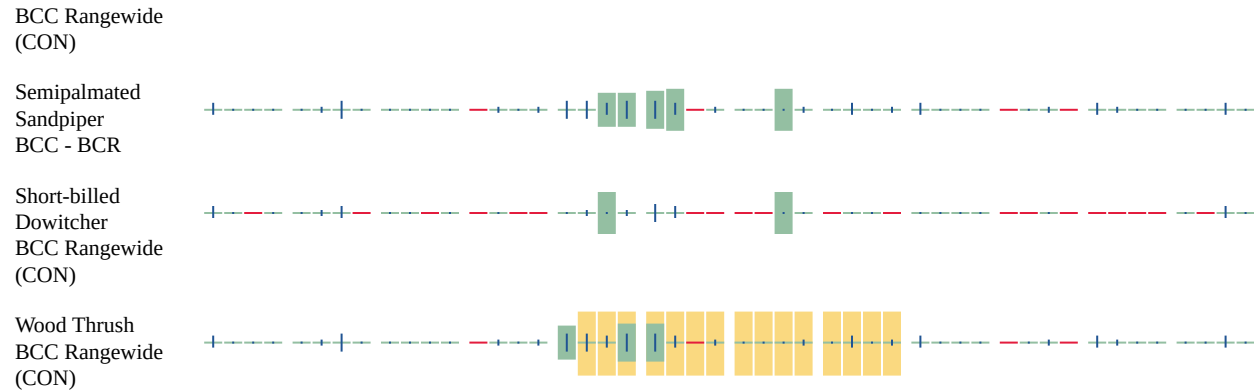
### Survey Effort (|)

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

### No Data (-)

A week is marked as having no data if there were no survey events for that week.





Additional information can be found using the following links:

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

## WETLANDS

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

### RIVERINE

- R2UBFx

### FRESHWATER EMERGENT WETLAND

- PEM1Af
- PEM1A

### FRESHWATER FORESTED/SHRUB WETLAND

- PFO1C

## **IPAC USER CONTACT INFORMATION**

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City: Indianapolis  
State: IN  
Zip: 46268  
Email: ckunkel@lochgroup.com  
Phone: 3173346818

## **LEAD AGENCY CONTACT INFORMATION**

Lead Agency: Federal Highway Administration

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

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Indiana Ecological Services Field Office  
620 South Walker Street  
Bloomington, IN 47403-2121  
Phone: (812) 334-4261 Fax: (812) 334-4273

In Reply Refer To:

03/14/2024 16:36:59 UTC

Project code: 2024-0043784

Project Name: US 6 HMA Overlay (Des. No. 2001886) & Shoulder Widening (Des. No. 1702997) Project

Subject: Concurrence verification letter for the 'US 6 HMA Overlay (Des. No. 2001886) & Shoulder Widening (Des. No. 1702997) Project' project under the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (NLEB).

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request dated March 14, 2024 to verify that the **US 6 HMA Overlay (Des. No. 2001886) & Shoulder Widening (Des. No. 1702997) Project** (Proposed Action) may rely on the concurrence provided in the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures. **At least one of the qualification interview questions indicated an activity or portion of your project is consistent with a not likely to adversely affect determination therefore, the overall determination for your project is, may affect, and is not likely to adversely affect (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the endangered northern long-eared bat (*Myotis septentrionalis*).** Consultation with the Service pursuant to section 7(a)(2) of ESA (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required.

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Proposed Action does not meet the criteria for a NLAA determination under the PBO. If we do not notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Proposed

Action under the terms of the NLAA concurrence provided in the PBO. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances, Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO.

**For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities:** If your initial bridge/culvert or structure assessment documented signs of bat use or occupancy, or an assessment failed to detect Indiana bats and/or NLEBs, yet are later detected prior to, or during construction, please submit the Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form (User Guide Appendix E) to this Service Office within 2 working days of any potential take. In these instances, potential incidental take of Indiana bats and/or NLEBs is covered under the Incidental Take Statement in the 2018 FHWA, FRA, FTA PBO (provided that the take is reported to the Service).

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required.

**For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities:**

If your initial bridge/culvert or structure assessments failed to detect Indiana bats and/or NLEB use or occupancy, yet bats are later detected prior to, or during construction, please submit the Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form (User Guide Appendix E) to this Service Office within 2 working days of the incident. In these instances, potential incidental take of Indiana bats and/or NLEBs may be exempted provided that the take is reported to the Service.

If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation between the lead Federal action agency and this Service Office is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

The following species may occur in your project area and **are not** covered by this determination:

- Monarch Butterfly *Danaus plexippus* Candidate
- Salamander Mussel *Simpsonias ambigua* Proposed Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered
- Whooping Crane *Grus americana* Experimental Population, Non-Essential

## PROJECT DESCRIPTION

The following project name and description was collected in IPaC as part of the endangered species review process.

### NAME

US 6 HMA Overlay (Des. No. 2001886) & Shoulder Widening (Des. No. 1702997) Project

### DESCRIPTION

The Indiana Department of Transportation (INDOT) LaPorte District, with funding from the Federal Highway Administration (FHWA), intends to proceed with a hot mix asphalt (HMA) overlay (Des. No. 2001886) and shoulder widening project (Des. No. 1702997) along US 6 in Marshall and Elkhart Counties, Indiana.

The proposed project involves the application of an HMA overlay along US 6 from the east junction of SR 106 to 2.03 miles west of SR 19 within northeastern Marshall County and southwestern Elkhart County (Des. No. 2001886). Approximately 1.5 inches of the existing pavement will be milled and 4 inches of HMA overlay will be applied. The project also involves widening the shoulders from approximately 0.40 mile east of the east junction of SR 106 to 2.03 miles west of SR 19 (Des. No. 1702997). The existing shoulder will be widened to 8 feet to accommodate horse-drawn carriages and bicyclists in the area. Additionally, there are 41 small structures within the project area that will be replaced, repaired, or extended, which includes the replacement of a 36-inch diameter corrugated metal pipe (CMP) culvert (CLV-100157) with an 84 inch diameter culvert. The project will also involve grading the roadside ditches to improve the drainage within the project area. With the exception of the shoulder widening and the profile being raised 2.5 inches, the existing roadway cross-section will remain the same throughout the project extent. No new permanent lighting will be constructed and no existing lighting will be replaced. Temporary lighting may be used during the active season if project work occurs at night. Suitable bat habitat exists within the project action area and 1.0 acre of trees is anticipated to be removed within 100 feet of the existing roadway. Tree removal will occur outside of the bat active season. Trees to be removed mainly consist of silver maple (*Acer saccharinum*), sugar maple (*Acer saccharum*), American basswood (*Tilia americana*), sandbar willow (*Salix interior*), American sycamore (*Platanus occidentalis*), and eastern cottonwood (*Populus deltoides*). Mitigation is not anticipated.

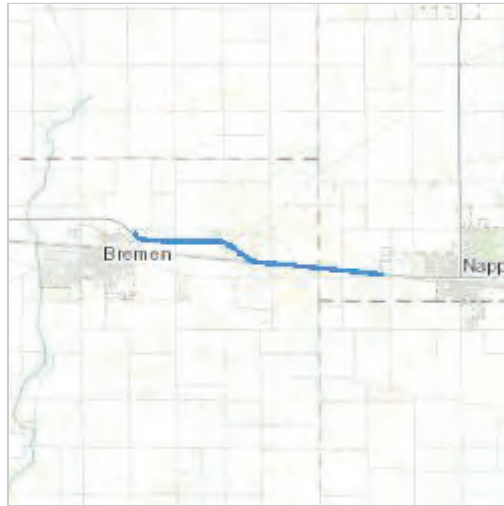
Project construction is anticipated to begin in early 2026 and occur throughout the 2026 construction season.

INDOT LaPorte District conducted a check of the USFWS Database for the presence of endangered bats within 0.5 mile of the project area on February 7, 2022, and none were found.

All of the structures within the project area were investigated for evidence of use by bats by Lochmueller Group on June 5, 6, and 7, 2023. No such evidence was found.



The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@41.44976305,-86.09050578159977,14z>



## DETERMINATION KEY RESULT

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the endangered Indiana bat and/or the endangered northern long-eared bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

## QUALIFICATION INTERVIEW

1. Is the project within the range of the Indiana bat<sup>[1]</sup>?

[1] See [Indiana bat species profile](#)

**Automatically answered**

Yes

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

[1] See [northern long-eared bat species profile](#)

**Automatically answered**

Yes

3. Which Federal Agency is the lead for the action?

A) *Federal Highway Administration (FHWA)*

4. Are *all* project activities limited to non-construction<sup>[1]</sup> activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)

[1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting.

No

5. Does the project include *any* activities that are **greater than** 300 feet from existing road/rail surfaces<sup>[1]</sup>?

[1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

No

6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum<sup>[1]</sup>?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

No

7. Is the project located **within** a karst area?

*No*

8. Is there *any* suitable<sup>[1]</sup> summer habitat for Indiana Bat or NLEB **within** the project action area<sup>[2]</sup>? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

[2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the [User's Guide for the Range-wide Programmatic Consultation for Indiana Bat and Northern Long-eared Bat](#).

*Yes*

9. Will the project remove *any* suitable summer habitat<sup>[1]</sup> and/or remove/trim any existing trees **within** suitable summer habitat?

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

*Yes*

10. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail?

*No*

11. Have presence/probable absence (P/A) summer surveys<sup>[1][2]</sup> been conducted<sup>[3][4]</sup> **within** the suitable habitat located within your project action area?

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

[2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.

[3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.

[4] Negative presence/probable absence survey results obtained using the [summer survey guidance](#) are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

*No*

12. Does the project include activities **within documented Indiana bat habitat**<sup>[1][2]</sup>?

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

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

*No*

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

*Yes*

14. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors occur<sup>[1]</sup>?

[1] Coordinate with the local Service Field Office for appropriate dates.

*B) During the inactive season*

15. Does the project include activities **within documented NLEB habitat**<sup>[1][2]</sup>?

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

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

*No*

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

*Yes*

17. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?

*B) During the inactive season*

18. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces?

*Yes*

19. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

*No*

20. Are *all* trees that are being removed clearly demarcated?  
Yes
21. Will the removal of habitat or the removal/trimming of trees include installing new or replacing existing **permanent** lighting?  
No
22. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?  
No
23. Does the project include slash pile burning?  
No
24. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?  
Yes
25. Is there *any* suitable habitat<sup>[1]</sup> for Indiana bat or NLEB **within** 1,000 feet of the bridge? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's current [summer survey guidance](#) for our current definitions of suitable habitat.

Yes

26. Has a bridge assessment<sup>[1]</sup> been conducted **within** the last 24 months<sup>[2]</sup> to determine if the bridge is being used by bats?

[1] See [User Guide Appendix D](#) for bridge/structure assessment guidance

[2] Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges that meet the physical characteristics described in the Programmatic Consultation, regardless of whether assessments have been conducted in the past. Due to the transitory nature of bat use, a negative result in one year does not guarantee that bats will not use that bridge/structure in subsequent years.

Yes

#### **SUBMITTED DOCUMENTS**

- *US 6\_StructureAssessmentForm\_update.pdf* <https://ipac.ecosphere.fws.gov/project/6T7ICZGIMRDPXM523WE6NOTG7U/projectDocuments/138588481>

27. Did the bridge assessment detect *any* signs of Indiana bats and/or NLEBs roosting in/under the bridge (bats, guano, etc.)<sup>[1]</sup>?

[1] If bridge assessment detects signs of *any* species of bats, coordination with the local FWS office is needed to identify potential threatened or endangered bat species. Additional studies may be undertaken to try to identify which bat species may be utilizing the bridge prior to allowing *any* work to proceed.

Note: There is a small chance bridge assessments for bat occupancy do not detect bats. Should a small number of bats be observed roosting on a bridge just prior to or during construction, such that take is likely to occur or does occur in the form of harassment, injury or death, the PBO requires the action agency to report the take. Report all unanticipated take within 2 working days of the incident to the USFWS. Construction activities may continue without delay provided the take is reported to the USFWS and is limited to 5 bats per project.

No

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

No

29. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

No

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

Yes

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

Yes

32. Will the project install new or replace existing **permanent** lighting?

No

33. Does the project include percussives or other activities (**not including tree removal/trimming or bridge/structure work**) that will increase noise levels above existing traffic/background levels?

No

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

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

Yes

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

No

36. Are the project activities that are not associated with habitat removal, tree removal/trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives consistent with a No Effect determination in this key?

**Automatically answered**

*Yes, other project activities are limited to actions that DO NOT cause any additional stressors to the bat species as described in the BA/BO*

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

**Automatically answered**

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

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

**Automatically answered**

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

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

**Automatically answered**

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

40. **General AMM 1**

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

*Yes*

**41. Tree Removal AMM 1**

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

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

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

Yes

**42. Tree Removal AMM 3**

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

Yes

**43. Tree Removal AMM 4**

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

[1] The word documented means habitat where bats have actually been captured and/or tracked.

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

Yes

**44. Lighting AMM 1**

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

Yes

## PROJECT QUESTIONNAIRE

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

N/A

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

N/A



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

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

1.0

4. Please describe the proposed bridge work:

*The project will remove, replace, or extend 41 structures which includes larger mainline culverts under US 6 as well as smaller driveway culverts running parallel to US 6.*

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

*Early 2026 and continue through the remainder of the 2026 construction season*

6. Please enter the date of the bridge assessment:

*June 5, 6 & 7, 2023*

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

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

### **TREE REMOVAL AMM 1**

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

### **LIGHTING AMM 1**

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

### **TREE REMOVAL AMM 2**

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

### **TREE REMOVAL AMM 3**

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

### **TREE REMOVAL AMM 4**

Do not remove **documented** Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or **documented** foraging habitat any time of year.

### **GENERAL AMM 1**

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

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

This key was last updated in IPaC on October 30, 2023. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the endangered **northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should only be used to verify project applicability with the Service's [amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion \(dated March 23, 2023\) for Transportation Projects](#). The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

## **IPAC USER CONTACT INFORMATION**

Agency: Indiana Department of Transportation  
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State: IN  
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Email: smichels@indot.in.gov  
Phone: 2193257560

## **LEAD AGENCY CONTACT INFORMATION**

Lead Agency: Federal Highway Administration

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

- BIPARTISAN INFRASTRUCTURE LAW (BIL) (OTHER)

## Impacted Structure Details

Des. No.	Structure Number	INDOT Asset No.	Type of Structure	Size of Structure (in)	Length of Structure (ft)	Location	Waterbody	Date of Inspection	Evidence of Bats	Evidence of Birds	Work Type
2001886	101	CLV-49242	Corrugated Metal	18	42	Mainline Culvert	Wetland 2	6/5/2023	No	No	Replacement
1702997	103	N/A	Steel Pipe	12	26	Driveway Culvert	N/A	6/5/2023	No	No	Removal
1702997	104	CLV-64128	Corrugated Metal	18	105	Mainline Culvert	N/A	6/5/2023	No	No	Replacement
1702997	105	N/A	Corrugated Metal	12	16	Driveway Culvert	N/A	6/5/2023	No	No	Removal
1702997	106	N/A	Corrugated Metal	12	20	Driveway Culvert	N/A	6/5/2023	No	No	Removal
1702997	107	N/A	Corrugated Metal	12	20	Driveway Culvert	N/A	6/5/2023	No	No	Removal
1702997	110	CLV-64129	Reinforced Concrete	12	50	Mainline Culvert	N/A	6/5/2023	No	No	Replacement
1702997	114	N/A	Corrugated Metal	12	49	Driveway Culvert	N/A	6/5/2023	No	No	Replacement
1702997	122	CLV-64131	Reinforced Concrete	18	72	Mainline Culvert	N/A	6/5/2023	No	No	Replacement
1702997	123B	CLV-100153	Reinforced Concrete	24	39	Mainline Culvert Extension	Wetland 5 & Wetland 6	6/5/2023	No	No	Removal
1702997	124	CLV-100157	Reinforced Concrete	36	94	Mainline Culvert	George Marberger Ditch	6/5/2023	No	No	Replacement
1702997	125	CLV-100155	Concrete Box	48	41	Box Culvert	N/A	6/5/2023	No	No	Removal
1702997	127	CLV-64132	Reinforced Concrete	18	66	Mainline Culvert	N/A	6/5/2023	No	No	Replacement
1702997	128	N/A	PVC Pipe	15	31	Driveway Culvert	N/A	6/5/2023	No	No	Replacement
1702997	129	N/A	Storm Pipe	15	60	Driveway Culvert	N/A	6/5/2023	No	No	Replacement
1702997	130	N/A	Corrugated Metal	15	29	Driveway Culvert	N/A	6/5/2023	No	No	Replacement
2001886	132	CLV-64133	Corrugated Metal	18	40	Mainline Culvert	Wetland 8	6/5/2023	No	No	Replacement
1702997	134	N/A	Corrugated Metal	15	26	Driveway Culvert	N/A	6/5/2023	No	No	Replacement
1702997	137	CLV-64134	Reinforced Concrete	18	59	Mainline Culvert	N/A	6/6/2023	No	No	Replacement
2001886	138	CLV-64135	Corrugated Metal	15	54	Mainline Culvert	Wetland 10	6/6/2023	No	No	Replacement
1702997	139	N/A	Corrugated Metal	15	55	Driveway Culvert	N/A	6/6/2023	No	No	Replacement
1702997	140	N/A	Corrugated Metal	8	102	Driveway Culvert	N/A	6/6/2023	No	No	Replacement
1702997	141	N/A	Corrugated Metal	8	24	Driveway Culvert	N/A	6/6/2023	No	No	Replacement
1702997	144	N/A	Steel Pipe	15	44	Driveway Culvert	N/A	6/6/2023	No	No	Replacement
1702997	145	N/A	Corrugated Metal	15	48	Driveway Culvert	N/A	6/6/2023	No	No	Replacement
1702997	146	N/A	Corrugated Metal	15	42	Driveway Culvert	N/A	6/6/2023	No	No	Replacement
2001886	147	CLV-64136	Corrugated Metal	18	56	Mainline Culvert	Wetland 11	6/6/2023	No	No	Replacement
2001886	148	N/A	Reinforced Concrete	15	unknown	Driveway Culvert	N/A	6/6/2023	No	No	Replacement
2001886	149	N/A	Reinforced Concrete	12	unknown	Driveway Culvert	Wetland 13	6/6/2023	No	No	Replacement
2001886	150	CLV-64137	Corrugated Metal	24	59	Mainline Culvert	Wetland 12 & Wetland 13	6/6/2023	No	No	Replacement
1702997	151	N/A	Corrugated Metal	15	116	Driveway Culvert	N/A	6/6/2023	No	No	Replacement
1702997	152	N/A	Corrugated Metal	24	50	Driveway Culvert	Wetland 15	6/6/2023	No	No	Replacement
1702997	154	N/A	8" PVC	15	44	Driveway Culvert	N/A	6/6/2023	No	No	Replacement
1702997	155	N/A	Corrugated Metal	15	30	Driveway Culvert	N/A	6/6/2023	No	No	Replacement
1702997	156	N/A	Corrugated Metal	15	40	Driveway Culvert	N/A	6/6/2023	No	No	Replacement
1702997	157	CLV-64139	Reinforced Concrete	24	55	Mainline Culvert	Wetland 18 & Wetland 19	6/7/2023	No	No	Replacement
1702997	158	N/A	Corrugated Metal	12	29	Driveway Culvert	N/A	6/7/2023	No	No	Removal
1702997	165	N/A	Corrugated Metal	15	458	Driveway Culvert	Wetland 21	6/7/2023	No	No	Replacement
1702997	167	N/A	Corrugated Metal	15	49	Driveway Culvert	Wetland 23 & Wetland 24	6/7/2023	No	No	Removal
1702997	168	N/A	Corrugated Metal	15	33	Driveway Culvert	Wetland 25	6/7/2023	No	No	Replacement
1702997	169	CLV-64141	Corrugated Metal	15	84	Mainline Culvert	Wetland 26	6/7/2023	No	No	Replacement

**From:** [Allen, John - FPAC-NRCS, IN](#)  
**To:** [Chris Kunkel](#)  
**Cc:** [C.J. Cunningham](#)  
**Subject:** Re: [External Email]US 6 Roadway Improvement Project (Des. No. 1702997 & 2001886) - updated AD-1006 form  
**Date:** Monday, July 8, 2024 9:24:56 AM  
**Attachments:** [image431622.png](#)  
[image546106.png](#)  
[image248238.png](#)  
[image307208.png](#)  
[image367740.png](#)  
[image963082.png](#)  
[image623313.png](#)  
[image922050.png](#)  
[image505988.png](#)  
[DES2001886\\_1702997\\_US6\\_Marshall\\_Portion\\_Update\\_1006.pdf](#)  
[DES2001886\\_1702997\\_US6\\_Elkhart\\_Portion\\_Update1006.pdf](#)

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EXTERNAL

Hi Chris,

Attached are the revised 1006 forms for Elkhart and Marshall reflecting the revised numbers for each county.

Thanks!

John

John Allen  
State Soil Scientist  
USDA-Natural Resources Conservation Service  
6013 Lakeside Boulevard  
Indianapolis, IN 46278

317-295-5859  
317-670-1924 (cell)

[www.soils.usda.gov](http://www.soils.usda.gov)

[Soil Explorer](#)

[SoilWeb: An Online Soil Survey Browser | California Soil Resource Lab \(ucdavis.edu\)](#)

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**From:** Chris Kunkel <CKunkel@lochgroup.com>  
**Sent:** Tuesday, June 25, 2024 4:27 PM  
**To:** Allen, John - FPAC-NRCS, IN <john.allen@usda.gov>  
**Cc:** C.J. Cunningham <CCunningham@lochgroup.com>  
**Subject:** [External Email]US 6 Roadway Improvement Project (Des. No. 1702997 & 2001886) - updated AD-1006 form

**FARMLAND CONVERSION IMPACT RATING**

<b>PART I</b> (To be completed by Federal Agency)		Date Of Land Evaluation Request <b>6/25/2024</b>			
Name of Project <b>DES2001886 US 6 Roadway Improvements Update</b>		Federal Agency Involved <b>Federal Highway</b>			
Proposed Land Use <b>transportation</b>		County and State <b>Elkhart County, Indiana</b>			
<b>PART II</b> (To be completed by NRCS)		Date Request Received By NRCS		Person Completing Form: <b>JRA</b>	
Does the site contain Prime, Unique, Statewide or Local Important Farmland? <i>(If no, the FPPA does not apply - do not complete additional parts of this form)</i>		YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	Acres Irrigated	Average Farm Size <b>105 ac</b>
Major Crop(s) <b>Corn</b>	Farmable Land In Govt. Jurisdiction Acres: <b>257229 % 86</b>	Amount of Farmland As Defined in FPPA Acres: <b>165596% 55</b>			
Name of Land Evaluation System Used <b>LESA</b>	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS			
<b>PART III</b> (To be completed by Federal Agency)		Alternative Site Rating			
		Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly		<b>11.91</b>			
B. Total Acres To Be Converted Indirectly		<b>0.00</b>			
C. Total Acres In Site		<b>12.59</b>			
<b>PART IV</b> (To be completed by NRCS) Land Evaluation Information					
A. Total Acres Prime And Unique Farmland		<b>1.03</b>			
B. Total Acres Statewide Important or Local Important Farmland		<b>0.00</b>			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted		<b>&lt;0.001</b>			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value		<b>10</b>			
<b>PART V</b> (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)		<b>94</b>			
<b>PART VI</b> (To be completed by Federal Agency) Site Assessment Criteria <i>(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)</i>		<b>Maximum Points</b>	Site A	Site B	Site C
1. Area In Non-urban Use		(15)	<b>5</b>		
2. Perimeter In Non-urban Use		(10)	<b>8</b>		
3. Percent Of Site Being Farmed		(20)	<b>10</b>		
4. Protection Provided By State and Local Government		(20)	<b>20</b>		
5. Distance From Urban Built-up Area		(15)	<b>0</b>		
6. Distance To Urban Support Services		(15)	<b>0</b>		
7. Size Of Present Farm Unit Compared To Average		(10)	<b>3</b>		
8. Creation Of Non-farmable Farmland		(10)	<b>0</b>		
9. Availability Of Farm Support Services		(5)	<b>2</b>		
10. On-Farm Investments		(20)	<b>10</b>		
11. Effects Of Conversion On Farm Support Services		(10)	<b>0</b>		
12. Compatibility With Existing Agricultural Use		(10)	<b>1</b>		
TOTAL SITE ASSESSMENT POINTS		<b>160</b>	<b>59</b>	<b>0</b>	<b>0</b>
<b>PART VII</b> (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)		<b>100</b>	<b>94</b>	<b>0</b>	<b>0</b>
Total Site Assessment (From Part VI above or local site assessment)		<b>160</b>	<b>59</b>	<b>0</b>	<b>0</b>
<b>TOTAL POINTS (Total of above 2 lines)</b>		<b>260</b>	<b>153</b>	<b>0</b>	<b>0</b>
Site Selected: <b>Site A</b>		Date Of Selection <b>7/8/2024</b>		Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
Reason For Selection: <b>Site A is the only site that was considered for the project and as such has the least amount of impact to prime farmland</b>					
Name of Federal agency representative completing this form: <b>Chris Kunkel</b>					Date: <b>7/8/2024</b>

(See Instructions on reverse side)

Form AD-1006 (03-02)

**FARMLAND CONVERSION IMPACT RATING**

<b>PART I</b> (To be completed by Federal Agency)		Date Of Land Evaluation Request <b>6/25/2024</b>			
Name of Project <b>DES2001886_1702997 US 6 Marshall Portion Update</b>		Federal Agency Involved <b>Federal Highway</b>			
Proposed Land Use <b>transportation</b>		County and State <b>Marshall County, Indiana</b>			
<b>PART II</b> (To be completed by NRCS)		Date Request Received By NRCS		Person Completing Form: <b>JRA</b>	
Does the site contain Prime, Unique, Statewide or Local Important Farmland? <i>(If no, the FPPA does not apply - do not complete additional parts of this form)</i>		YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	Acres Irrigated	Average Farm Size <b>240 ac</b>
Major Crop(s) <b>Corn</b>	Farmable Land In Govt. Jurisdiction Acres: <b>258991 % 90</b>	Amount of Farmland As Defined in FPPA Acres: <b>216471% 75</b>			
Name of Land Evaluation System Used <b>LESA</b>	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS			
<b>PART III</b> (To be completed by Federal Agency)		Alternative Site Rating			
		Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly		<b>11.91</b>			
B. Total Acres To Be Converted Indirectly		<b>0.00</b>			
C. Total Acres In Site		<b>12.59</b>			
<b>PART IV</b> (To be completed by NRCS) Land Evaluation Information					
A. Total Acres Prime And Unique Farmland		<b>6.10</b>			
B. Total Acres Statewide Important or Local Important Farmland		<b>0.28</b>			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted		<b>0.002</b>			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value		<b>26</b>			
<b>PART V</b> (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)		<b>90</b>			
<b>PART VI</b> (To be completed by Federal Agency) Site Assessment Criteria <i>(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)</i>		<b>Maximum Points</b>	Site A	Site B	Site C
1. Area In Non-urban Use		(15)	<b>8</b>		
2. Perimeter In Non-urban Use		(10)	<b>9</b>		
3. Percent Of Site Being Farmed		(20)	<b>12</b>		
4. Protection Provided By State and Local Government		(20)	<b>20</b>		
5. Distance From Urban Built-up Area		(15)	<b>5</b>		
6. Distance To Urban Support Services		(15)	<b>0</b>		
7. Size Of Present Farm Unit Compared To Average		(10)	<b>3</b>		
8. Creation Of Non-farmable Farmland		(10)	<b>0</b>		
9. Availability Of Farm Support Services		(5)	<b>3</b>		
10. On-Farm Investments		(20)	<b>8</b>		
11. Effects Of Conversion On Farm Support Services		(10)	<b>0</b>		
12. Compatibility With Existing Agricultural Use		(10)	<b>0</b>		
TOTAL SITE ASSESSMENT POINTS		<b>160</b>	<b>68</b>	<b>0</b>	<b>0</b>
<b>PART VII</b> (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)		100	<b>90</b>	<b>0</b>	<b>0</b>
Total Site Assessment (From Part VI above or local site assessment)		160	<b>68</b>	<b>0</b>	<b>0</b>
<b>TOTAL POINTS (Total of above 2 lines)</b>		<b>260</b>	<b>158</b>	<b>0</b>	<b>0</b>
Site Selected: <b>Site A</b>		Date Of Selection <b>7/8/2024</b>		Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
Reason For Selection: <b>Site A is the only site that was considered for the project and as such has the least amount of impact to prime farmland</b>					
Name of Federal agency representative completing this form: <b>Chris Kunkel</b>					Date: <b>7/8/2024</b>

(See Instructions on reverse side)

Form AD-1006 (03-02)

**Categorical Exclusion**

# **Appendix D**

**Section 106 of the National Historic  
Preservation Act (NHPA)**



# Minor Projects PA Project Submittal and Assessment Form

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## SECTION 1

*Submittal of this form is only required for projects where Category B applies. Projects qualifying under Category A do not require submittal of this form. SECTION 2 (for Conditions of Category B-1 for curb/sidewalk) or SECTION 3 (for Conditions of Category B-9 for drainage structures) may be required as determined by INDOT-Cultural Resources Office (INDOT-CRO) review. INDOT-CRO will notify applicant if the Minor Projects PA does not apply.*

### **Part I: Project Information-Completed by Applicant (Consultant/PM/Project Sponsor/INDOT District Staff)\***

*\*A qualified professional historian (QP) is not required to complete Part I. INDOT-CRO staff will be responsible for completion of Part II.*

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**Original Submission Date:** April 25, 2024

**Amended Submission Date\*:**

*\*Consult with INDOT-CRO to determine whether an amendment is required. For revisions/updates to original form, please detail in applicable sections below. Please use **red font** to distinguish the revisions/updates.*

**Submitted By (Provide Name and Firm/Organization):** Hannah Blad, Lochmueller Group

**Project Designation Number:** 2001886

**Route Number:** United States Highway (US) 6

**Feature crossed (if applicable):**

**City/Township:** German Township (Marshall County) & Locke Township (Elkhart County)

**County:** Marshall & Elkhart

### **Project Description:\***

*\*Provide a full project description—include the same level of specificity and detail as expected in the NEPA document—in order to ensure a timely review by INDOT-CRO staff. For bridge and culvert projects, include specific details on the rehab or replacement including potential changes to width, height, and materials. Be sure to include the specific elements listed below as applicable.*

The proposed project is located along US Highway 6, also known as Michigan St, in northeastern Marshall and southwestern Elkhart County. Specifically, the project is located in Section 25, Township 35 North, Range 4 East and Sections 29, 30, 32, 33, 34 and 35, Township 35 North, Range 3 East within German Township of Marshall County and Locke Township of Elkhart County as depicted on the Bremen and Nappanee West Quadrangles of the U.S. Geological Survey 1:24,000 scale map. Adjacent land use is primarily rural and consists of farm fields, residences, light industrial and commercial properties, and wooded areas.

US 6 is functionally classified as principal arterial. The typical cross section of US 6 within the project area consists of two, 12-foot travel lanes (two in each direction) with shoulders along both sides varying from 1 to 10 feet in width. Additionally, there are 11-foot dedicated right turn lanes at the intersections of Douglas Road (SR 106), Bittersweet Drive, Dogwood Road, Beech Road, and Shawnee Street. The posted speed limit along this stretch of US 6 is 55 miles per hour.

## Minor Projects PA Project Submittal and Assessment Form

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The need for the project stems from the deteriorated condition of the existing pavement, shoulder, and many of the drainage structures along this stretch of US 6. The pavement has extensive transverse cracking, widening crack distress, and longitudinal joint distress. The shoulders are in poor condition. Many of the drainage structures within this stretch of US 6 are in fair condition or worse. Additionally, throughout most of the project area, cannot safely accommodate the large amount of non-motorized traffic such as horse-drawn carriages and bicycles along US 6. The purpose of the project is to extend the life of the pavement and shoulder of US 6, while also providing safe accommodations for non-motorized traffic.

The proposed project involves the application of a new hot mix asphalt (HMA) overlay along US 6 from the east junction of SR 106 to 2.03 miles west of SR 19 within northeastern Marshall County and southwestern Elkhart County (Des. No. 2001886). Approximately, 1.5 inches of the existing pavement will be milled and an HMA overlay will be applied. The project also involves widening the shoulders from approximately 0.40 mile east of the east junction of SR 106 to 2.03 miles west of SR 19 (Des. No. 1702997). The existing shoulder will be widened to 8 feet to accommodate horse-drawn carriages and bicyclists in the area. Additionally, there are 41 structures within the project area that will be removed, replaced, repaired, or extended. The project will also involve grading the roadside ditches to upgrade the drainage within the project area. With the exception of the shoulder widening, the existing roadway cross-section will remain the same throughout the project extent. Guardrails will be removed and replaced at the southeast corner of the intersection of SR 106 and US 6, at the culvert carrying the west crossing of George Marberger Ditch, and at the side-by-side culverts carrying the east crossing of George Marberger Ditch. This project is anticipated to require the acquisition of approximately 20.43 acres of new permanent right of way (ROW). Tree clearing of up to 1.0 acre will also likely be necessary.

The maintenance of traffic (MOT) plan will occur in three phases to accommodate traffic during construction. A pre-phase utilizing a flagger to direct traffic will be completed for shoulder widening. The first phase will require the closure of both lanes of traffic at the east crossing of George Marberger Ditch to replace the side-by-side concrete culverts at that location. The second phase will close the eastbound lane of US 6 and the final phase will close the westbound lane. A detour will be in place during construction and will likely utilize SR 19, US 20, and SR 331. All access to residences and businesses within the project area will be maintained. The MOT plan has not been finalized, but the final MOT plan will be implemented per the *Indiana Design Manual* guidelines. Construction is anticipated to begin in early 2026.

**If the project includes any curb, curb ramp, or sidewalk work, please specify the location(s) of such work:**

N/A

**For bridge or small structure projects, please list feature crossed, structure number, NBI number, and structure type:**

See attachments for list of small structures and maps showing their locations.

**For bridge projects, is the bridge included in INDOT's Historic Bridge Inventory (<https://www.in.gov/indot/2531.htm>)?**

Yes

No

## Minor Projects PA Project Submittal and Assessment Form

If yes, did the inventory determine the bridge eligible for or listed in the National Register of Historic Places? Please provide page # of entry in Historic Bridge Inventory.

Yes  No

Inventory Page # \_\_\_\_\_

Will there be right-of-way acquisition as part of this project?

Yes  No

If yes was checked above, please check all that apply:

Permanent  Temporary  Reacquisition

If applicable, identify right-of-way acquisition locations in text below and in attached mapping. Please specify how much (both temporary and permanent) and indicate what activities are included in the proposed right-of-way:

The project requires approximately 1.05 acre of temporary ROW on the north and south sides of US 6 for the replacement and removal of driveway culverts. The project requires approximately 20.43 acres of permanent ROW on the north and south sides of US 6 for ditch regrading, additional culvert work, and shoulder widening.

Is there any potential for additional temporary right-of-way to be needed later for purposes such as access, staging, etc.?

Yes  No

Archaeology (check one):

All proposed activities are presumed to occur in previously disturbed soils.\*

*\*INDOT-CRO will notify you if project area includes undisturbed soils and requires an archaeological reconnaissance.*

Project takes place in undisturbed soils and the archaeology report is included with the submission.\*

*\*If an archaeology report is required, the Minor Projects PA Form will not be finalized until the report is reviewed and approved by INDOT-CRO. For INDOT-sponsored projects, INDOT-CRO may be able to complete the archaeological investigation. If you would like to request that INDOT-CRO complete an archaeological investigation, please contact the INDOT-CRO Archaeology Team Lead. See CRM Pt. 1 Ch. 3 for current contact information.*

Please specify all applicable categories and condition(s) (INDOT will highlight applicable conditions in yellow):

B-3. Construction of added travel, turning, or auxiliary lanes (e.g., bicycle, truck climbing, acceleration and deceleration lanes) and shoulder widening under the following conditions [**BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied**]:

**Condition A (Archaeological Resources)**

One of the two conditions listed below must be met (*EITHER Condition i or Condition ii must be satisfied*):

i. Work occurs in previously disturbed soils; *OR*

## Minor Projects PA Project Submittal and Assessment Form

- ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on IN SCOPE.

### **Condition B (Above-Ground Resources)**

Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource.

- B-4. Installation of new safety appurtenances, including but not limited to, guardrails, barriers, glare screens, and crash attenuators, under the following conditions [*BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied*]:

### **Condition A (Archaeological Resources)**

One of the two conditions listed below must be met (*EITHER Condition i or Condition ii must be satisfied*):

- i. Work occurs in previously disturbed soils; *OR*
- ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on IN SCOPE.

### **Condition B (Above-Ground Resources)**

Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource.

- B-9. Installation, replacement, repair, lining, or extension of culverts and other drainage structures under the conditions listed below [*BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied*]:

### **Condition A (Archaeological Resources)**

One of the two conditions listed below must be met (*EITHER Condition i or Condition ii must be satisfied*):

- i. Work occurs in previously disturbed soils; *OR*
- ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on IN SCOPE.

## Minor Projects PA Project Submittal and Assessment Form

### **Condition B (Above-Ground Resources)**

One of the conditions below must be met (*EITHER Condition i or Condition ii must be satisfied*):

- i. Work does not involve installation of a new culvert and other drainage structure, and there are no impacts to unusual features, including but not limited to historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under one of the following conditions (*Condition a, Condition b, or Condition c must be satisfied*):
  - a. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*
  - b. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*
  - c. The structure exhibits non-modern wood, stone, or brick structures or parts therein and the following conditions are met (*BOTH Condition 1 AND Condition 2 must be met*):
    1. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
    2. The structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.
- ii. Work involves the installation of a new culvert and other drainage structures *AND/OR* there may be impacts to unusual features, including historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under the following conditions (*BOTH Condition a and Condition b must be satisfied*):
  - a. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
  - b. The subject structure exhibits one of the characteristics described below (*Condition 1, Condition 2 or Condition 3 must be satisfied*).
    1. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*
    2. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*
    3. The structure exhibits non-modern wood, stone, or brick structures or parts therein but lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.

- B-10. Slide corrections, slope repairs, and other erosion control measures, in undisturbed soils under the conditions listed below [*BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied*]:

### **Condition A (Archaeological Resources)**

An archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register listed or potentially National Register eligible archaeological resources, then full Section 106 review will be required. Copies of any reports will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on IN SCOPE.

## Minor Projects PA Project Submittal and Assessment Form

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### **Condition B (Above-Ground Resources)**

Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource.

Check  if SECTION 2: Minor Projects PA Category B-1, Condition B-ii Submission is included.

Check  if SECTION 3: Minor Projects PA Category B-9, Condition B-i-c-2 or B-ii-b-3 Submission is included.

## Minor Projects PA Project Submittal and Assessment Form

### Part II: Completed by INDOT-CRO

#### Information reviewed (please check all that apply):

General project location map  USGS map  Aerial photograph  Soil survey data

General project area photos  Archaeology Reports  Historic Property Reports

Indiana Historic Buildings, Bridges, and Cemeteries Map/Interim Report

Bridge inspection information/iTAMS  Historic Bridge Inventory Database

SHAARD  SHAARD GIS  Streetview Imagery  County GIS Data/Property Cards

**Other (please specify):** Multiple Property Documentation Form (MPDF) *Residential Planning and Development in Indiana, 1940-1973*; Higgins, 2018; INDOT Bridge and Drainage Assets Viewer database.

Lawhorn, Ashley and Sidney Travis

2024 A Phase Ia Archaeological Reconnaissance for the Proposed US 6 Improvements Project in Marshall and Elkhart Counties, Indiana (INDOT Des. Nos. 2001886 and 1702997). Report on file, Indiana Department of Transportation, Cultural Resources Office, Indianapolis, IN.

**Are there any commitments associated with this project? If yes, please explain and include in the Additional Comments Section below.** Yes  No

**Does the project result in a de minimis impact to a Section 4(f) protected historic resource? If yes, please explain in the Additional Comments Section below.** Yes  No

#### Additional Comments:

**The following firm commitment must be entered into INDOT's Project Commitment Database and included in the environmental documentation for the project:**

The portions of archaeological sites 12MR516 and 12MR521 beyond the surveyed limits within the proposed project area must be avoided by all ground disturbing activities and other project-related activities. The areas must be marked on plans as "DO NOT DISTURB – Environmentally Sensitive Area" and should be marked similarly on the ground for avoidance during construction. The avoidance areas shall not be identified as archaeological sites.

#### Above-ground Resources

An INDOT-Cultural Resources Office (CRO) historian who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 first performed a desktop review, checking the Indiana Register of Historic Sites and Structures (State Register) and National Register of Historic Places (National Register) lists for Elkhart and Marshall counties. No listed resources in either county are present along or adjacent to the project area, a distance that would serve as an adequate area of potential effects (APE) given the scope of the project and the surrounding terrain.

## Minor Projects PA Project Submittal and Assessment Form

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The Indiana Historic Sites and Structures Inventory (IHSSI) and National Register information for Elkhart and Marshall counties are available in the Indiana State Historic Architectural and Archaeological Research Database (SHAARD) and the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM). All sites were reviewed through the IHBBCM, which contains the most recently updated SHAARD information. No IHSSI-surveyed resources in either county were recorded along or adjacent to the project route.

According to the IHSSI rating system, generally properties rated "contributing" do not possess the level of historical or architectural significance necessary to be considered individually National Register eligible, although they would contribute to a historic district. If they retain material integrity, properties rated "notable" might possess the necessary level of significance after further research. Properties rated "outstanding" usually possess the necessary level of significance to be considered National Register eligible if they retain material integrity. Historic districts identified in the IHSSI are usually considered eligible for the National Register.

Land along the project route is mostly rural/agricultural with scattered commercial/industrial properties, single-family residences, an RV campground, and farm properties present. For most of the project's length, an active railroad line runs parallel to the US 6 roadway on the south side. Area topography is generally flat.

The INDOT-CRO historian reviewed structures adjacent to the project area utilizing available online aerial, street-view photography, and county property records/GIS websites. Above-ground resources along the project route that are—or that will be—50 years of age by the project's proposed 2025 letting include large farms that are located along and set back from the southern side of the US 6 roadway. Most of these properties appear to date from the mid-to-late 20<sup>th</sup> century and most have been highly altered through multiple additions and the installation of modern replacement materials. None appear to retain the material integrity to be considered eligible to the National Register.

A few postwar houses are interspersed along the US 6 route—mostly on the northern side of the roadway. Several linear and massed ranch houses are located on—and along the approach to—the western edge of Bremen. At least one altered American Small House is also present. For the purposes of this determination, none of the properties appear to meet the *Residential Planning and Development in Indiana, 1940-1973* requirements to be individually eligible to the National Register.

No other above-ground resources that are currently—or that will be—50 years of age by the 2025 letting were recorded.

With regard to the 41 small structures proposed to be "...removed, repaired, replaced or extended..." as part of this project, none were included in the iTAMS database due to each having a diameter of less than 4 feet. Examination of photographs of the individual structures--provided by the consultant--confirm that the structures contain "...no wood, stone or brick structures or parts therein..." The structures' inspection information was accessed through the INDOT Bridge and Drainage Assets Viewer database. The list of structures and associated photographs is provided as an appendix to this determination form.

Based on the available information, as summarized above, no above-ground concerns exist as long as the project scope does not change.



## Minor Projects PA Project Submittal and Assessment Form

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### Archaeological Resources

An INDOT-CRO archaeologist who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 reviewed the archaeological report submitted by Cultural Resources Analysts, Inc. on behalf of Lochmueller Group (Lawhorn and Travis 2024).

A 79-acre survey area was examined through a combination of systematic shovel probing, pedestrian survey, and visual inspection of disturbed areas. The area encompassing US 6 has been previously disturbed from the construction of the highway, road grade and fill, existing culverts with associated drainages, embankments, residential and commercial infrastructure, gravel driveways, and buried utilities. The north and south sides of US 6 within the survey area boundaries were subject to shovel probing in 15 m intervals in open, grassy fields along the highway and pedestrian survey in agricultural fields with greater than 30 percent visibility in 5 m intervals. Two new archaeological sites, 12MR516 and 12MR521, were documented as a result of this survey. The portions of sites 12MR516 and 12MR521 within the proposed project area do not contain intact archaeological deposits or potential for further information. Thus, no further work is recommended for the sites within the proposed project area. The remaining unsurveyed portions of these sites beyond the project area must be marked for avoidance (Lawhorn and Travis 2024).

Therefore, there are no archaeological concerns as long as the project scope and footprint do not change.

**Accidental Discovery:** If any archaeological artifacts or human remains are uncovered during construction, demolition, or earth moving activities, construction within 100 feet of the discovery will be stopped, and INDOT-CRO and the Indiana Department of Natural Resources-Division of Historic Preservation and Archaeology (IDNR-DHPA) will be notified immediately.

**INDOT-CRO staff reviewer(s):** Susan Branigin and KayLee Blum

**INDOT Approval Date:** 7/31/2024

**Amendment Approval Date (if applicable):**

*\*\*\*Be sure to attach this form to the National Environmental Policy Act documentation for this project. Also, the NEPA documentation shall reference and include the description of the specific stipulation in the PA that qualifies the project as exempt from further Section 106 review.*

# A PHASE IA ARCHAEOLOGICAL RECONNAISSANCE FOR THE PROPOSED US 6 IMPROVEMENTS PROJECT IN MARSHALL AND ELKHART COUNTIES, INDIANA (INDOT DES. NOS. 2001886 AND 1702997)



by  
*Ashley Lawhorn, MA,  
and Sidney Travis, MA*

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*Prepared for*



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*Prepared by*



Kentucky | West Virginia | Wyoming  
Indiana | Louisiana | Tennessee | Virginia

A PHASE IA ARCHAEOLOGICAL RECONNAISSANCE  
FOR THE PROPOSED US 6 IMPROVEMENTS PROJECT  
IN MARSHALL AND ELKHART COUNTIES, INDIANA  
(INDOT DES. NOS. 2001886 AND 1702997)

By

Ashley Lawhorn, MA, and Sidney Travis, MA

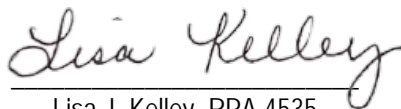
With contributions by Katharine Alexander, RPA 5461,  
Aaron Harth, and Andrew V. Martin, RPA 61710

*Prepared for*

C.J. Cunningham  
Lochmueller Group  
112 W Jefferson Boulevard, Suite 500  
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Phone: (317) 334-6803  
Email: Ccunningham@lochgroup.com

*Prepared by*

Cultural Resource Analysts, Inc.  
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Evansville, Indiana 47708  
Phone: (812) 253-3009  
Email: amartin@crai-ky.com  
CRA Project No.: I220075



Lisa J. Kelley, RPA 4535  
Principal Investigator

February 9, 2024

Lead Agency: Federal Highway Administration  
Applied Anthropology Laboratories, Ball State University Accession No. 22.09

# ABSTRACT

On March 21–24, 2022, and January 7–11, 2024, Cultural Resource Analysts, Inc., personnel conducted a phase Ia archaeological reconnaissance for the proposed US 6 improvements project in Elkhart and Marshall Counties, Indiana (Indiana Department of Transportation Designation Numbers 2001886 and 1702997). The survey was conducted at the request of Lochmueller Group. The survey area encompassed approximately 31.2 ha (77.0 acres) and was investigated in its entirety with systematic screened shovel testing, intensive pedestrian survey, and visual inspection of disturbed or water-inundated areas.

Prior to initiating the fieldwork, a records review was conducted utilizing data from the Division of Historic Preservation and Archaeology's State Historic Architectural and Archaeological Research Database. The records review revealed that no previously recorded sites are within or near the survey area. One previously conducted archaeological survey is within the survey area boundaries and was reinvestigated during the reconnaissance.

Two new sites were located during the current investigation (Sites 12MR516 and 12MR521). Site 12MR516 is a precontact lithic scatter with no temporal affiliation. Site 12MR521 is a historic artifact scatter. Neither of the sites within the survey area are recommended for further work. However, both may extend outside the survey area and their eligibility for the National Register of Historic Places remains unassessed. Because there are no sites listed in, or eligible for, the National Register of Historic Places, archaeological clearance is recommended for the proposed project.

Chris Kunkel

---

**From:** Blum, Kaylee <KBlum@indot.IN.gov>  
**Sent:** Wednesday, July 31, 2024 8:21 AM  
**To:** Hannah Blad  
**Cc:** Coon, Matthew; Branigin, Susan; Gary Francis Quigg; C.J. Cunningham; Chris Kunkel; Lisa Kelley; Barbie Swihart Stutzman; DeGraff, Shawna; Blum, Kaylee  
**Subject:** RE: US 6 HMA Overlay Project, Des. No. 2001886, MPPA and Phase Ia

EXTERNAL

Good morning,

Thank you for providing the archaeological report and related materials for our review of this project under the MPPA. We have determined that B-3, B-4, B-9, and B-10 of the MPPA are applicable, and therefore no further Section 106 work is necessary. The completed determination form is available in ProjectWise for use in the CE document:

[US6HMAOverlayProject\\_Des2001886\\_MPPA Determination Form\\_B3\\_B4\\_B9\\_B10\\_2024-7-31.docx](#)  
[US6HMAOverlayProject\\_Des2001886\\_PhaseIa\\_AR\\_2024-07-29 signed.pdf](#)

The following firm commitment must be entered into INDOT's Project Commitment Database and included in the environmental documentation for the project:

The portions of archaeological sites 12MR516 and 12MR521 beyond the surveyed limits within the proposed project area must be avoided by all ground disturbing activities and other project-related activities. The areas must be marked on plans as "DO NOT DISTURB – Environmentally Sensitive Area" and should be marked similarly on the ground for avoidance during construction. The avoidance areas shall not be identified as archaeological sites.

Please upload the revised report to SHAARD and also upload to IN SCOPE for a 30-day review period. Once released in IN SCOPE, please email one PDF copy of the current Review Request Submittal Form to [dhpareview@dnr.IN.gov](mailto:dhpareview@dnr.IN.gov) and forward one hard copy of the form to DHPA for review, indicating that the project qualified as a Minor Project and therefore the report is for their records only and no formal review is required under Section 106. In addition, we ask that a copy of the DHPA submittal be sent to INDOT-CRO c/o KayLee Blum at [kblum@indot.in.gov](mailto:kblum@indot.in.gov) during the time of submission.

Please keep in mind that if the scope of the project or the project limits should change, our office will need to re-examine the information to determine whether the MPPA still applies. Please do not hesitate to contact us should you have any questions or need additional information.

Best,

**KayLee A. Blum, M.S.**

**Archaeologist**

Indiana Department of Transportation, Cultural Resources Office

100 North Senate Ave., N758 — Environmental Services

Indianapolis, IN 46204

**Office:** (317) 439-3337

**Email:** [kblum@indot.in.gov](mailto:kblum@indot.in.gov)

**Categorical Exclusion**

**Appendix E**

**Red Flag Investigation  
& Hazardous Materials**



# INDIANA DEPARTMENT OF TRANSPORTATION

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

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

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

Date: December 30, 2022

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

From: C.J. Cunningham  
Lochmueller Group, Inc.  
112 West Jefferson Blvd, Suite 500  
South Bend, IN 46601  
ccunningham@lochgroup.com

Re: RED FLAG INVESTIGATION  
Des. No. 2001886, State Project Des. No. 1702997 is also covered under this RFI  
Hot Mix Asphalt (HMA) Overlay with Minor Structural  
US 6, From East Junction of State Route (SR) 106 to 2.03 Miles West of SR 19 (Shawnee Drive)  
Marshall and Elkhart Counties, Indiana

## PROJECT DESCRIPTION

Brief Description of Project: This project involves an HMA Overlay, Minor Structural project on US 6 from the east junction of SR 106 (Marshall County) to 2.03 miles west of SR 19 (Elkhart County), approximately 5.5 miles in length. Eight (8) small structures have been identified as needing replaced due to their deteriorated condition. Due to their size, none of the affected structures are documented in the Indiana Bridge Inspection Application System (BIAS). Existing guardrail within the project limits will be replaced as necessary to meet current design standards. Cross slope correction and superelevation corrections will be made where necessary to bring the project in compliance with National Highway System (NHS) standards. The pipe replacements and slope corrections may require excavation beyond the existing roadway footprint. All work is anticipated to occur within existing right-of-way. Temporary right-of-way may be necessary to accommodate construction of the pipe replacements.

Bridge Work Included in Project: Yes  No  Structure #(s) \_\_\_\_\_  
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).

Culvert Work Included in Project: Yes  No  Structure #(s) (none recorded in BIAS)

Proposed right of way: Temporary  # Acres <0.5 acres Permanent  # Acres \_\_\_\_\_, Not Applicable

Type and proposed depth of excavation: Maximum depth of excavation will be approximately 13 feet below ground

surface (bgs), which is necessary to replace a small structure near the western project terminus. The remaining small structures requiring replacement are 5 to 8 feet bgs, located throughout the project. Excavation along the roadway shoulders necessary for cross slope correction will occur at a maximum depth of approximately 2 feet bgs.

Maintenance of traffic (MOT): The MOT will involve phased construction with lane closures. Work will be performed under traffic using flaggers with single-lane restrictions. Temporary closures may be necessary for pipe replacement work.

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

State Project:  LPA:

Any other factors influencing recommendations:

Below is a list of small structures to be replaced as part of this project:

Pipe ID	Material	Pipe Diameter	Estimated Cover	Latitude	Longitude
1	Metal	36"	5' - 10'	41.45594731	-86.1341013
2	Metal	36"	> 10'	41.45584418	-86.13374465
3	Concrete	TBD (Pending Survey)	< 5'	41.45380226	-86.11048395
4	Metal	TBD (Pending Survey)	< 5'	41.44845704	-86.08816135
5	Metal	15"	< 5'	41.44720524	-86.08145155
6	Metal	18"	5' - 10'	41.44665346	-86.07574096
7	Metal	24"	< 5'	41.44658100	-86.07292472
8	Concrete	TBD (Pending Survey)	< 5'	41.44348700	-86.03309600

### **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>1</b>	Recreational Facilities	<b>1</b>
Airports <sup>1</sup>	<b>1</b>	Pipelines	<b>6</b>
Cemeteries	<b>2</b>	Railroads	<b>5</b>
Hospitals	<b>N/A</b>	Trails	<b>N/A</b>
Schools	<b>N/A</b>	Managed Lands	<b>N/A</b>

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

**Explanation:**

*Religious Facilities:* Although not mapped on the GIS layer, one (1) religious facility is located within the 0.5 mile search radius. The nearest facility, United Pentecostal Church, is located adjacent to the project area. Coordination with United Pentecostal Church will occur.

*Recreational Facilities:* One (1) recreational facility is located within the 0.5 mile search radius. The nearest facility, Pla-Mor Park, is located adjacent to the project area. Coordination with Pla-Mor Park will occur.



*Airports:* One (1) airport is located within the 0.5 mile search radius. The airport, Creighton Airport, is a private airport and is located approximately 0.23 mile north of the project area. Coordination with Dewayne Creighton (1434 N. Douglas Bremen, IN 46506), will occur.

*Pipelines:* Six (6) pipeline segments are located within the 0.5 mile search radius. One (1) pipeline segment, a natural gas line owned by Northern Indiana Public Service Co. (NIPSCO), crosses the project area near the eastern terminus. Coordination with INDOT Utilities and Railroads should occur.

*Cemeteries:* Two (2) cemeteries are located within the 0.5 mile search radius. The nearest cemetery, Bremen Cemetery is 0.11 mile west of the project area. No impact is expected.

*Railroads:* Five (5) railroad segments are located within the 0.5 mile search radius. Four (4) railroad segments, all operated by CSX Railroad, are adjacent to the project area. Standard coordination will occur with INDOT Utilities and Railroads by the Project Management Team or their consultant no later than the Ready for Contracts (RFC) date.

**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>87</b>
Canal Structures – Historic	<b>N/A</b>	Lakes	<b>8</b>
NPS NRI Listed	<b>N/A</b>	Floodplain - DFIRM	<b>9</b>
NWI-Lines	<b>N/A</b>	Cave Entrance Density	<b>N/A</b>
IDEM 303d Listed Streams and Lakes (Impaired)	<b>5</b>	Sinkhole Areas	<b>N/A</b>
Rivers and Streams	<b>5</b>	Sinking-Stream Basins	<b>N/A</b>

If unmapped water features are identified that might impact the project area, direct coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Explanation:

*IDEM 303d Listed Streams and Lakes (Impaired):* Five (5) impaired streams and lakes are located within the 0.5 mile search radius. Zeiger Ditch is located near the western terminus adjacent to Douglas Road. George Marberger Ditch is located approximately 1.1 miles east of the western project terminus. Zeiger Ditch and George Marberger Ditch are listed as impaired for *E. coli*. Workers who are working in or near water with *E. coli* should take care to wear appropriate personal protective equipment (PPE), observe proper hygiene procedures, including regular handwashing, and limit personal exposure.

*Rivers and Streams:* Five (5) river and stream segments are located within the 0.5 mile search radius. Two (2) river and stream segments are located within the project area. Zeiger Ditch is located near the western terminus adjacent to Douglas Road. George Marberger Ditch is located approximately 1.1 miles east of the western project terminus. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

*NWI- Wetlands:* Eighty-seven (87), wetlands are located within the 0.5 mile search radius. Four (4) wetlands are located adjacent to the project area in the following locations:

- Approximately 0.75 miles east of the western project terminus, south of US 6
- Approximately 1.50 miles east of the western project terminus, north of US 6
- Approximately 2.20 miles east of the western project terminus, north of US 6
- Approximately 2.50 miles east of the western project terminus, north of US 6

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

*Lakes:* Eight (8) lakes are located within the 0.5 mile search radius. One (1) lake is located adjacent to the project area, approximately 2.20 miles east of the western project terminus, north of US 6 . A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

*Floodplain - DFIRM:* Nine (9) floodplain polygons are located within the 0.5 mile search radius. The project area is located within two (2) of the floodplain polygons. Zeiger Ditch and its associated floodplain is located near the western terminus adjacent to Douglas Road. George Marberger Ditch and its associated floodplain is located approximately 1.1 miles east of the western project terminus. Coordination with INDOT ESD Ecology and Waterway Permitting will occur.

**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	N/A

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

**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	3	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	1	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	N/A	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	N/A
Construction Demolition Waste	N/A	Institutional Controls	1
Solid Waste Landfill	N/A	NPDES Facilities	7
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	N/A

Leaking Underground Storage (LUST) Sites	6	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:

*RCRA Generator/ TSD:* Three (3) RCRA Generator/ TSD sites are located within the 0.5 mile search radius. One RCRA Generator/ TSD site, represented by two icons, is located adjacent to the project area.

- C&C Fiberglass Inc. (also known as Better Way Products, Inc.), 3659 Destiny Dr., Bremen, AID 11842, is located 0.07 mile south of US 6 near the western end of the project. The site contains fiberglass fabrication facility, consisting of three (3) plants, which are considered one (1) major pollutant source. IDEM conducted as record review on May 21, 2021 and determined the facility had achieved compliance with the terms of the Agreed Order issued on April 8, 2021. Subsequent quarterly monitoring reports demonstrate that the site remains in compliance. No impact is expected.

*State Cleanup Sites:* One (1) State Cleanup site is located within the 0.5 mile search radius. The site, Bellman Oil Company, 550 East 2<sup>nd</sup> Street, Bremen, AID 13966, is located 0.23 mile southwest of the project area. A release of petroleum was reported at the facility on June 25, 2007 and was referred to the State Cleanup Program. See the LUST section for additional details.

*Leaking Underground Storage (LUST) Sites:* Six (6) LUST sites are located within the 0.5 mile search radius:

- Bellman Oil Company, 550 East 2nd Street, Bremen, AID 13966, is located 0.23 mile southwest of the project area. IDEM issued a No Further Action Approval Determination Pursuant to Risk Integrated System of Closure letter, dated November 7, 2012. The NFA was issued following the recorded of an ERC on the deed of the property. Residual petroleum contamination remains on-site and does not extend to the project area.
- Omega Wire Facility, 833 Lenger St., Bremen, AID 11598, is located 0.37 mile southwest of the project area. The VFC contains files associated to a LUST dating to the early 1990's. Sampling data indicated analytes were not detected above the laboratory detection levels.
- Schmucker's LP Gas, 890 US 6, Nappanee, AID 14223, is located adjacent to the middle portion of the project area, and used to be located on the northeast corner of the intersection of US 6 and Beech Road. USTs were removed from the site in 1990. Two (2) 1,000 unleaded gallon tanks and associated pump island were located between the main building and US 6 and one (1) 500-gallon gasoline tank was located at the southeast corner of the building. A product pipeline connected the 500-gallon tank to the pump island. In June 1990, all suspect contaminated soil to the north and south of the 1,000-gallon tanks was removed between the US-6 right of way (ROW) and the main building. Contaminated soil may still be present within the US-6 ROW. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination.
- Burger Dairy Store, 1054 W Market St., Nappanee, AID 31931, is incorrectly mapped 0.12 mile south of the east end of the project area. The actual location of the site is 1.08 miles east of the project area. No impact is expected.
- B & M Service Station, now a Countryside Inn, 29477 US 6, Nappanee, AID 33396, is located 0.20 mile east of the project area. IDEM issued a No Further Action Approval Determination Pursuant to Remediation Closure Guide on August 13, 2009. Low levels of groundwater contamination remain on the site and an Environmental Restrictive Covenant (ERC) was placed on the property on June 23, 2009. Residual contamination remains on-site and does not extend toward the project area. No impact is expected.
- Fabwell, 1802 Cheyenne St., Nappanee, AID 30483, is located 0.46 mile northeast of the project area. No impact is expected.

*Institutional Controls:* Bellman Oil Company, 550 East 2nd Street, Bremen, AID 13966, is located 0.32 mile west of the project area. No impact is expected.

*NPDES Facilities:* Seven (7) NPDES Facilities are located within the 0.5 mile search radius. One (1) NPDES Facility is located adjacent to the project area:

- Digger Specialties Incorporated, 3639 Destiny Drive, Bremen, AID 47351, permit number INRM01030, is located adjacent to the west end of the project area. No information is present in the IDEM Stormwater nSITE website. According to the GIS database, the permit was issued on February 26, 2019 and is set to expire February 25, 2024. The files in the VFC indicate that the site is being monitored for air quality. Coordination with the facility owner should occur.

## **ECOLOGICAL INFORMATION SUMMARY**

The Marshall County and Elkhart County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities are provided at ([https://www.in.gov/dnr/nature-preserves/files/np\\_marshall.pdf](https://www.in.gov/dnr/nature-preserves/files/np_marshall.pdf); [https://www.in.gov/dnr/nature-preserves/files/np\\_elkhart.pdf](https://www.in.gov/dnr/nature-preserves/files/np_elkhart.pdf)). A preliminary review of the Indiana Natural Heritage Database by INDOT ESD *did not* indicate the presence of ETR species within the 0.5 mile search radius. Coordination with USFWS and IDNR will occur.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The range-wide programmatic 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”. Additional investigation to confirm the presence or absence of bats in the affected pipes and structures will be necessary.

## **RECOMMENDATIONS SECTION**

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

### **INFRASTRUCTURE:**

*Religious Facilities:* United Pentecostal Church, is located adjacent to the project area. Coordination with United Pentecostal Church will occur.

*Recreational Facilities:* Pla-Mor Park, is located adjacent to the project area. Coordination with Pla-Mor Park will occur.

*Airports:* Creighton Airport, is a private airport and is located approximately 0.23 mile north of the project area. Coordination with Dewayne Creighton (1434 N. Douglas Bremen, IN 46506), will occur.

*Pipelines:* A natural gas pipeline owned by Northern Indiana Public Service Co. (NIPSCO), crosses the project area near the eastern terminus. Coordination with INDOT Utilities and Railroads should occur.

*Railroads:* Four (4) railroad segments, all operated by CSX Railroad, are adjacent to the project area. Standard coordination will occur with INDOT Utilities and Railroads by the Project Management Team or their consultant no later than the RFC date.

### **WATER RESOURCES:**

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

- Two (2) river and stream segments are located within the project area

- Four (4) wetlands are located adjacent to the project area
- One (1) lake is located adjacent to the project area
- The project area is located within two (2) floodplains (coordination only)

Zeiger Ditch and Armev Ditch are located within the project area. Zeiger Ditch and Armev Ditch are listed as impaired for *E. coli*. Workers who are working in or near water with *E. coli* should take care to wear appropriate personal protective equipment (PPE), observe proper hygiene procedures, including regular handwashing, and limit personal exposure.

MINING/MINERAL EXPLORATION: N/A

**HAZARDOUS MATERIAL CONCERNS:**

*Leaking Underground Storage Tank (LUST) Sites:* Schmucker’s LP Gas, 890 US 6, Nappanee, AID 14223, is located adjacent to the middle portion of the project area, and used to be located on the northeast corner of the intersection of US 6 and Beech Road. USTs were removed from the site in 1990. Two (2) 1,000 unleaded gallon tanks and associated pump island were located between the main building and US 6 and one (1) 500-gallon gasoline tank was located at the southeast corner of the building. A product pipeline connected the 500-gallon tank to the pump island. In June 1990, all suspect contaminated soil to the north and south of the 1,000-gallon tanks was removed between the US-6 right of way (ROW) and the main building. Contaminated soil may still be present within the US-6 ROW. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary. Refer to Appendix G of the SAM Manual for the recommended procedure to manage and report contamination

*NPDES Facilities:* Digger Specialties Incorporated, 3639 Destiny Drive, Bremen, AID 47351, permit number INRM01030, is located adjacent to the west end of the project area. According to the GIS database, the permit was issued on February 26, 2019 and is set to expire February 25, 2024. Coordination with the facility owner should occur.

**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 the most recent “Using the USFWS’s IPaC System for Listed Bat Consultation for INDOT Projects”. Additional investigation to confirm the presence or absence of bats in the affected pipes and structures will be necessary.

INDOT ESD concurrence: Nicole Fohey-Breting (Signature)

Nicole Fohey-  
Breting

Digitally signed by Nicole Fohey-  
Breting  
Date: 2023.01.04 09:26:31 -05'00'

Prepared by:  
C.J. Cunningham  
Environmental Project Manager  
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 Removed to avoid duplication

INFRASTRUCTURE: YES

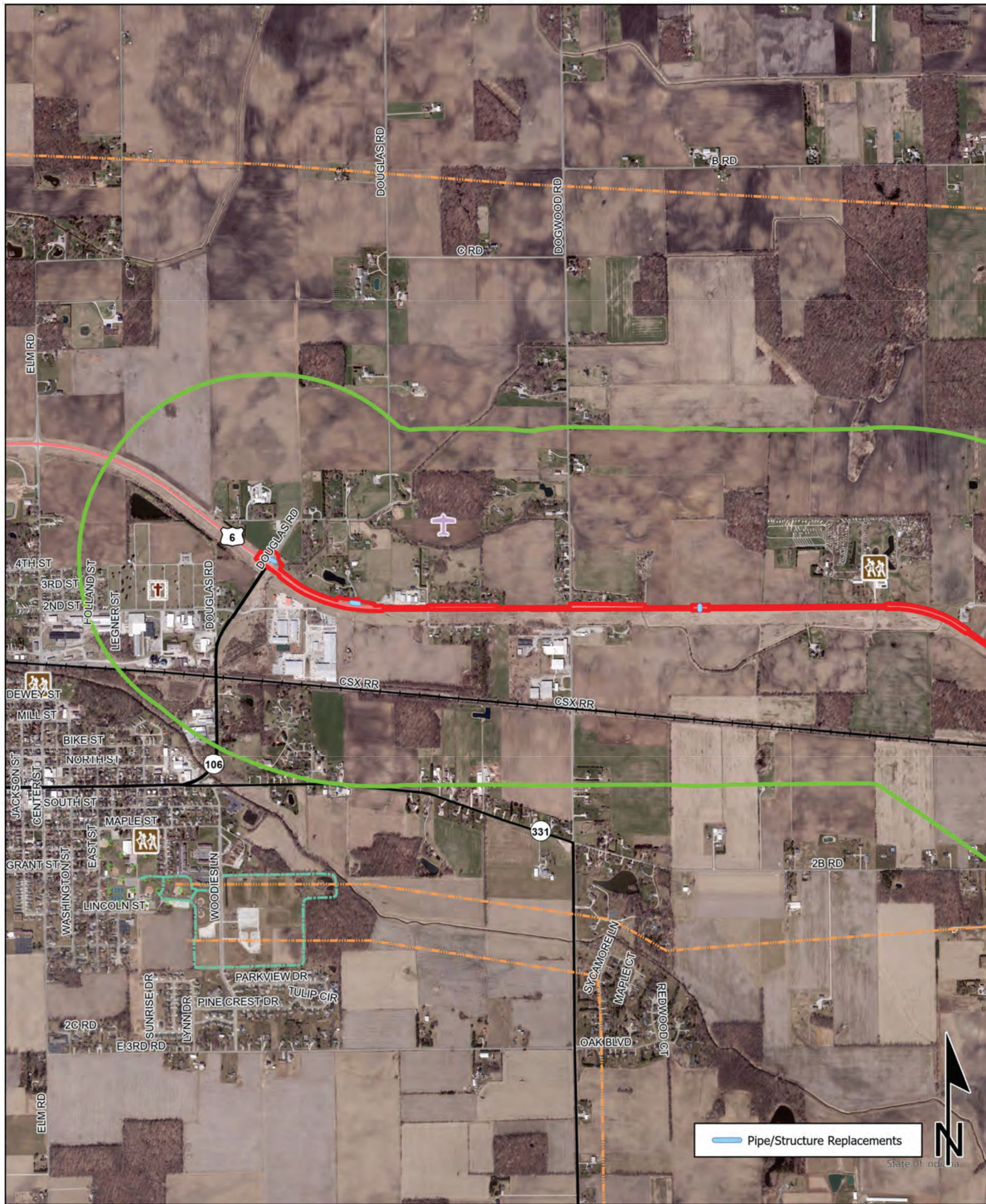
WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: YES

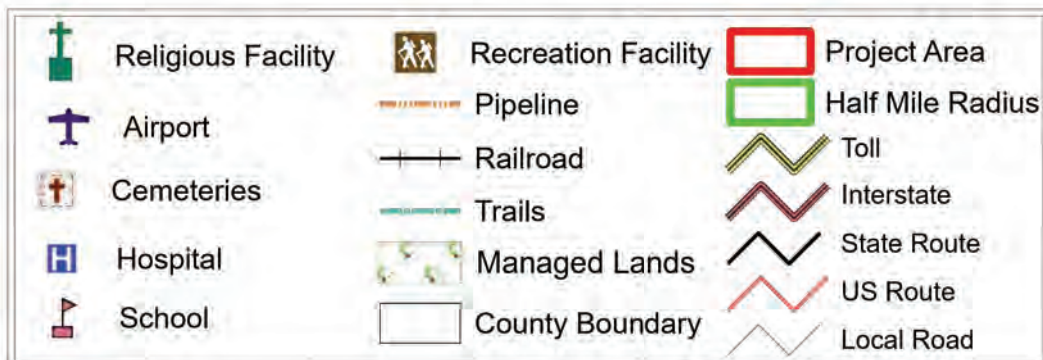
# Red Flag Investigation - Infrastructure (1 of 3)

US 6, from E. Junction of SR 106 to 2.03 Miles West of SR 19 (Shawnee Drive)  
 Des. No. 2001886, HMA Overlay, Minor Structural  
 Marshall and Elkhart Counties, 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

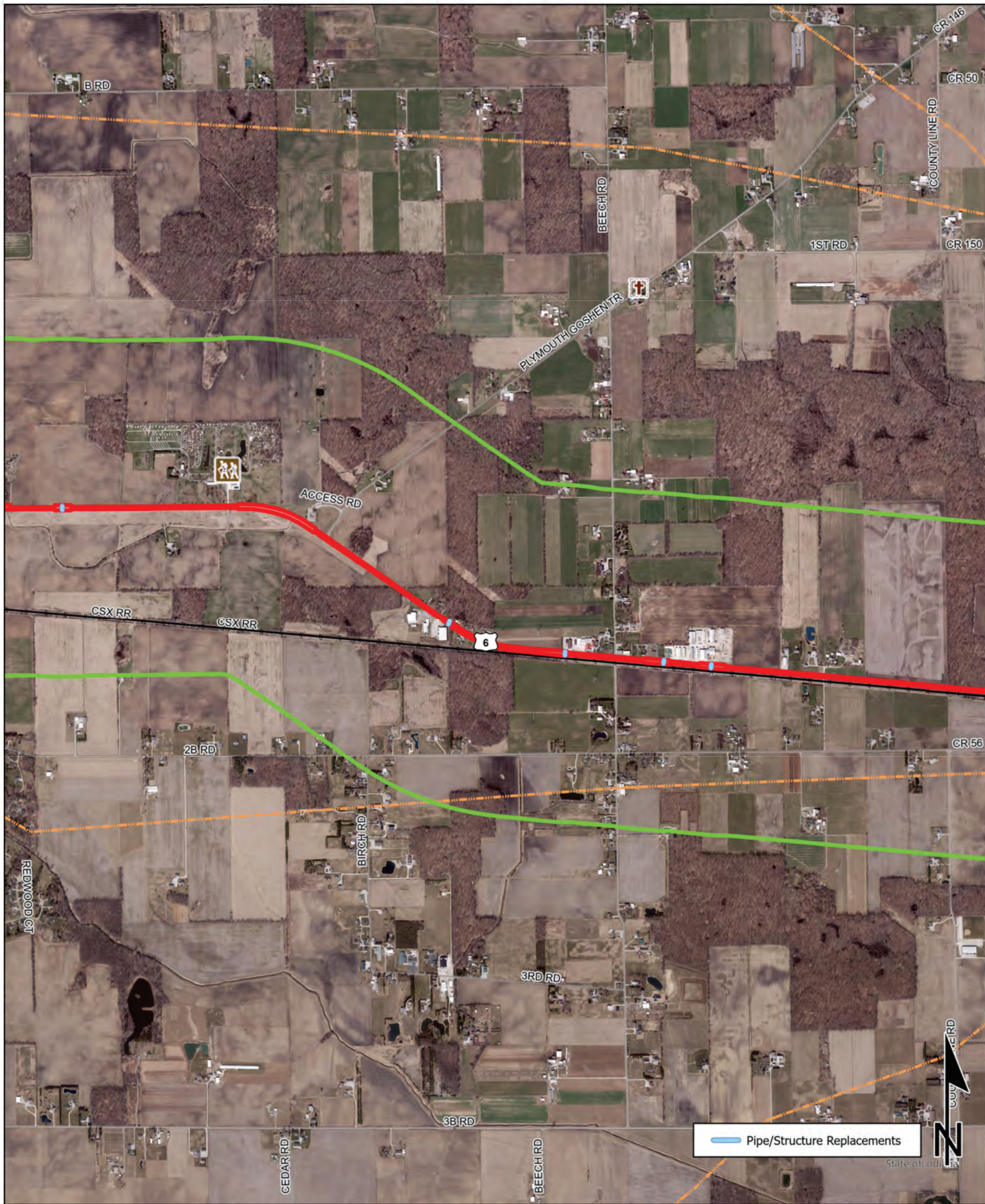
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# Red Flag Investigation - Infrastructure (2 of 3)

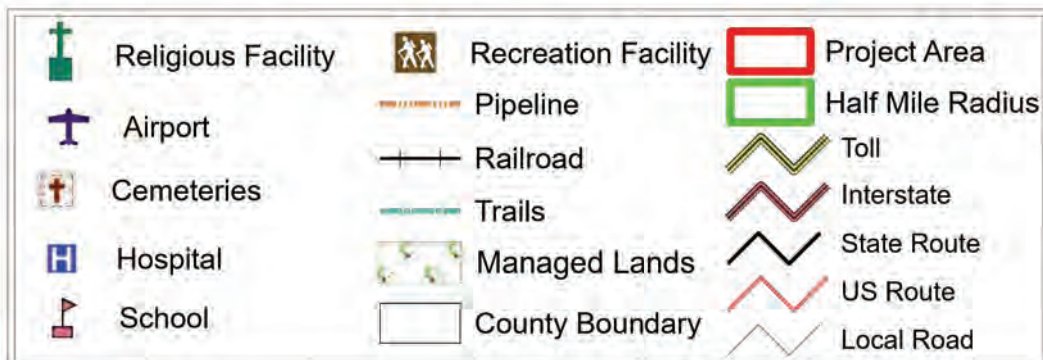
US 6, from E. Junction of SR 106 to 2.03 Miles West of SR 19 (Shawnee Drive)

Des. No. 2001886, HMA Overlay, Minor Structural  
Marshall and Elkhart Counties, 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))  
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# Red Flag Investigation - Infrastructure (3 of 3)

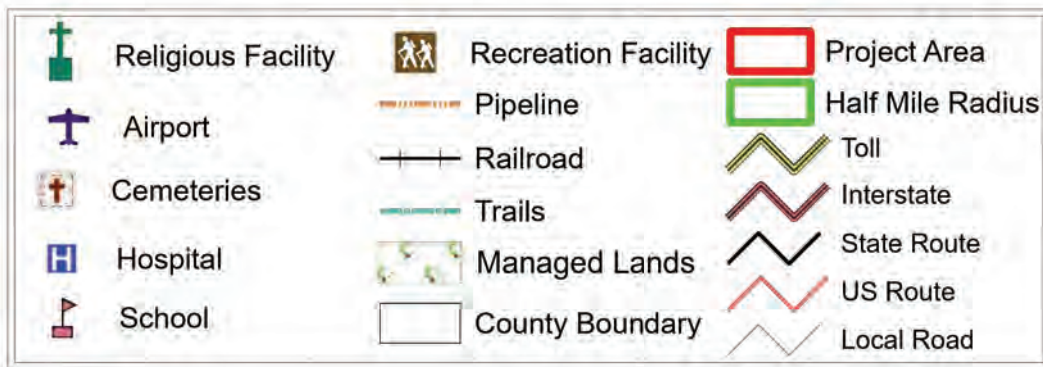
US 6, from E. Junction of SR 106 to 2.03 Miles West of SR 19 (Shawnee Drive)

Des. No. 2001886, HMA Overlay, Minor Structural  
Marshall and Elkhart Counties, Indiana



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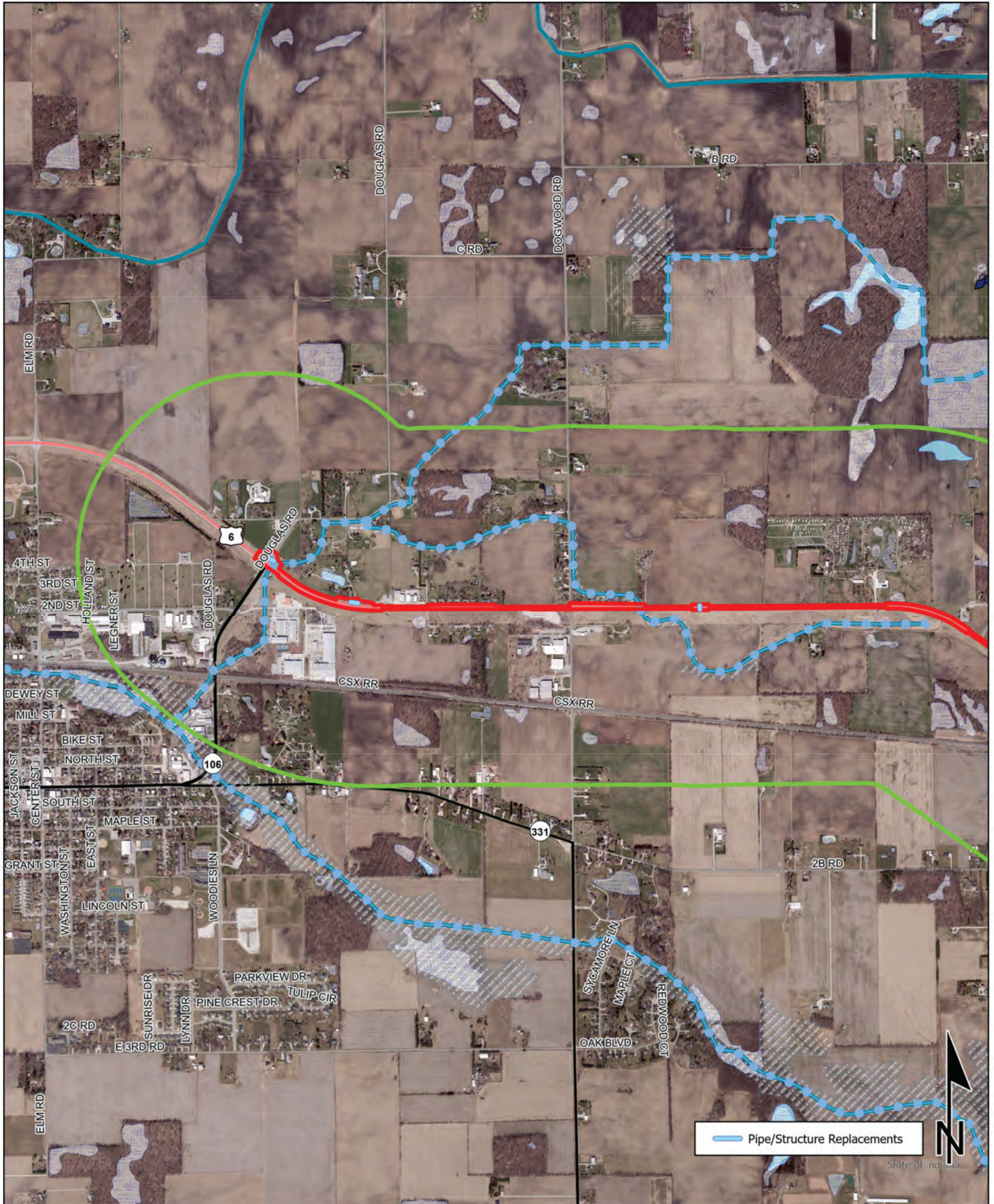




# Red Flag Investigation - Water Resources (1 of 3)

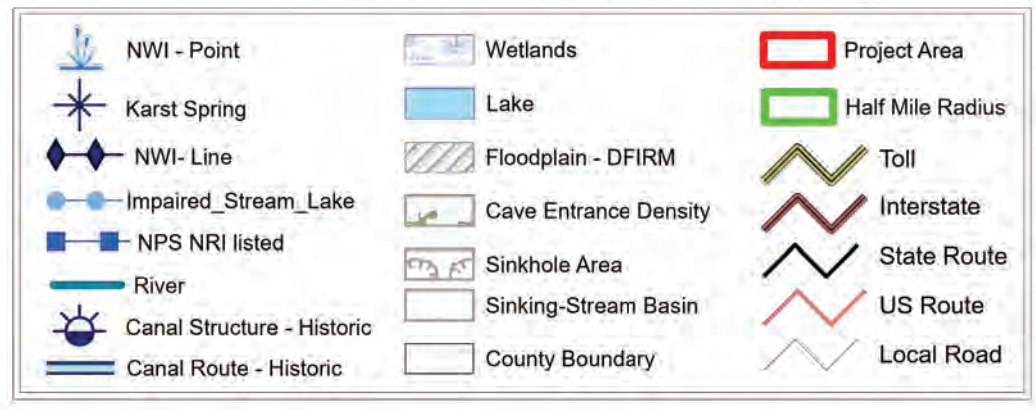
## US 6, from E. Junction of SR 106 to 2.03 Miles West of SR 19 (Shawnee Drive)

### Des. No. 2001886, HMA Overlay, Minor Structural Marshall and Elkhart Counties, 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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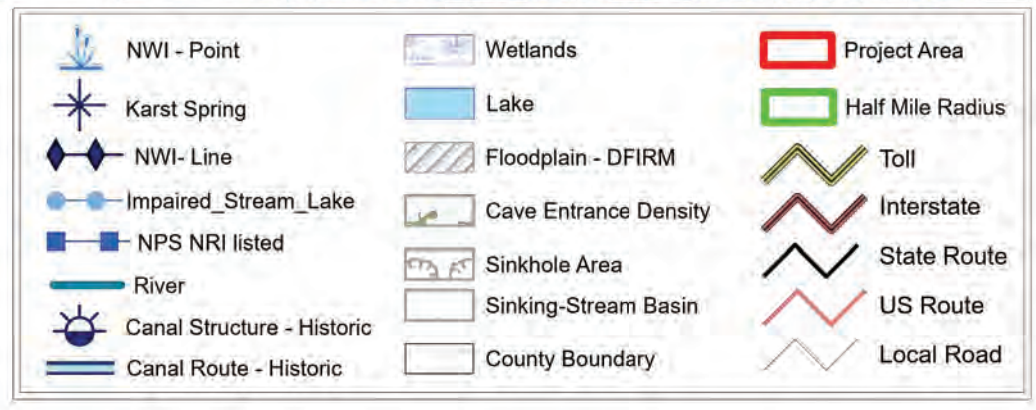


**Red Flag Investigation - Water Resources (2 of 3)**  
**US 6, from E. Junction of SR 106 to 2.03 Miles West of SR 19 (Shawnee Drive)**  
**Des. No. 2001886, HMA Overlay, Minor Structural**  
**Marshall and Elkhart Counties, Indiana**



**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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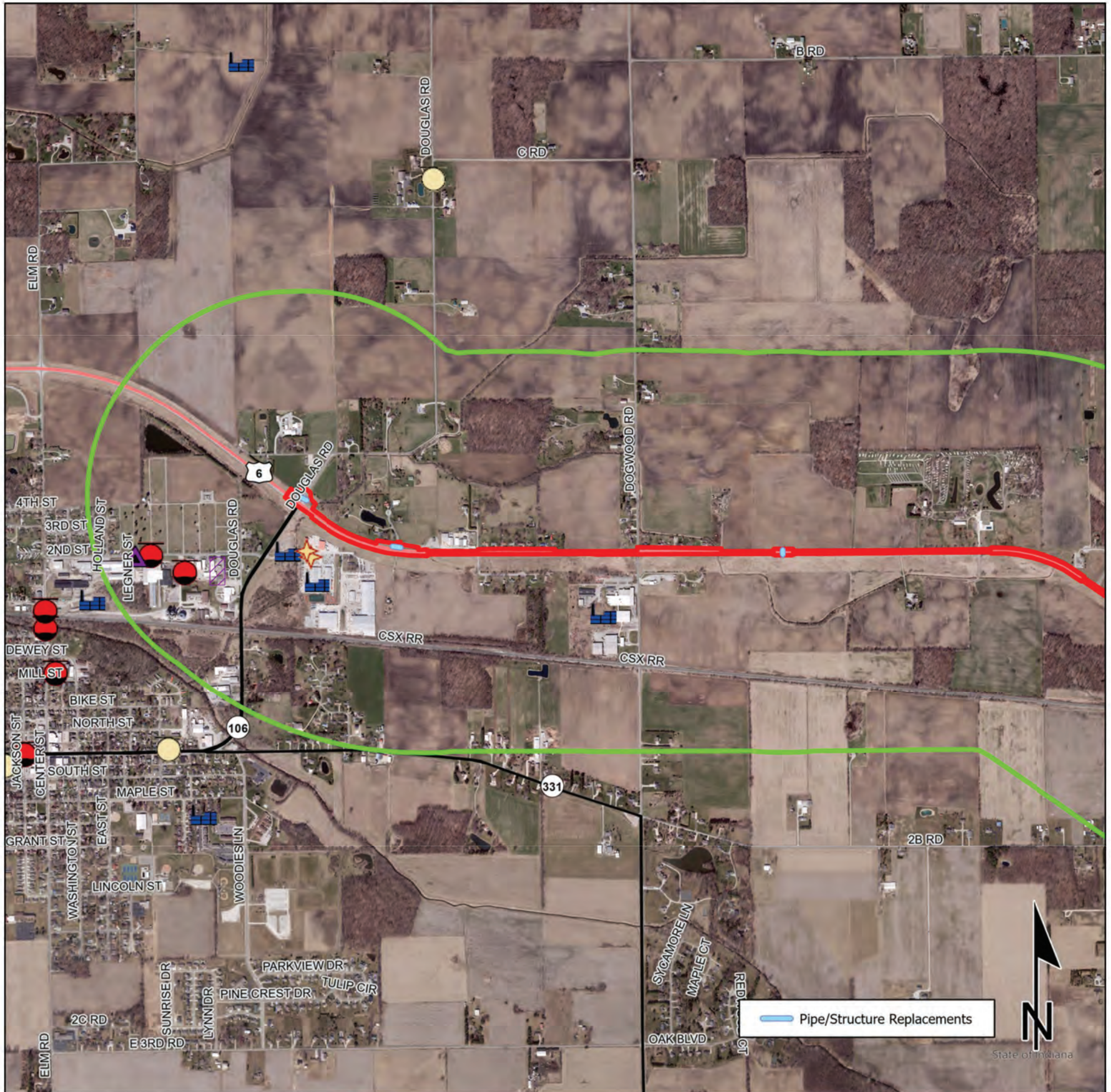




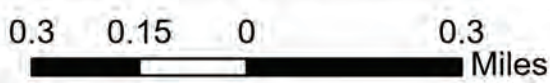
# Red Flag Investigation - Hazardous Material Concerns (1 of 3)

## US 6, from E. Junction of SR 106 to 2.03 Miles West of SR 19 (Shawnee Drive)

### Des. No. 2001886, HMA Overlay, Minor Structural Marshall and Elkhart Counties, 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				



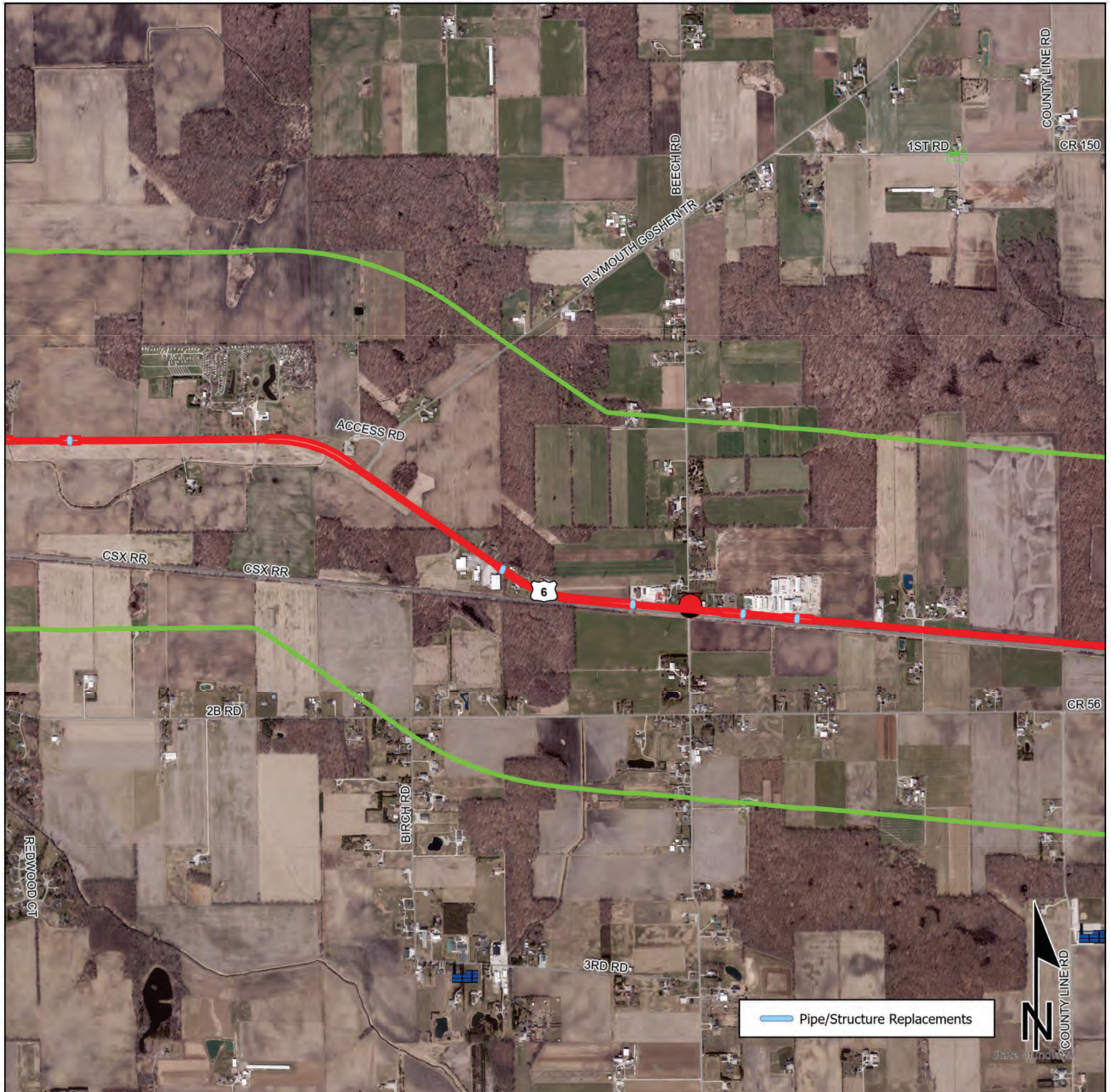
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

**Sources:**  
**Non Orthophotography**  
**Data** - Obtained from the State of Indiana Geographical Information Office Library  
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**Map Projection:** UTM Zone 16 N **Map Datum:** NAD83

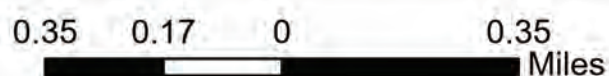
# Red Flag Investigation - Hazardous Material Concerns (2 of 3)

## US 6, from E. Junction of SR 106 to 2.03 Miles West of SR 19 (Shawnee Drive)

### Des. No. 2001886, HMA Overlay, Minor Structural Marshall and Elkhart Counties, 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				



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](http://www.indianamap.org))

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

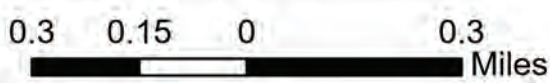
# Red Flag Investigation - Hazardous Material Concerns (3 of 3)

## US 6, from E. Junction of SR 106 to 2.03 Miles West of SR 19 (Shawnee Drive)

### Des. No. 2001886, HMA Overlay, Minor Structural Marshall and Elkhart Counties, 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

**Categorical Exclusion**  
**Appendix F**  
**Water Resources**



- Point of Interest
- Base Flood Elevation Point
- CreateINFIPReport\_PointOfInteres
- CreateINFIPReport\_PointOfInteres

**POI**

- POI

**FLOOD\_FEPv2**

- 1.0

**FloodHazard\_BestAvai\_DN**

- FEMA Zone AE Floodway; FEMA Administrative Floodway
- FEMA Zone AE
- Additional Floodplain Area; DNR .2 Percent Flood Hazard
- Not Mapped

Long: -86.1336661838378

Lat: 41.45540990544243

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

County: **Marshall**

Approximate Ground Elevation: **825.2 feet (NAVD88)**

Stream Name:  
**Albert Zeiger Ditch**

Base Flood Elevation: **811.7 Feet (NAVD88)**

Drainage Area: **Not Available**

Best Available Flood Hazard Zone: **FEMA Zone AE Floodway**

National Flood Hazard Zone: **FEMA Zone AE Floodway**

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

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

Floodplain Administrator: **Ty Adley**

Community Jurisdiction: **Marshall County, County proper**

Phone: **(574) 935-8540**

Email: **tadley@co.marshall.in.us**

US Army Corps of Engineers District: **Detroit**

Date Generated: 3/15/2024



**Waters of the U.S. Determination  
US 6 HMA Overlay with  
Minor Structural and Shoulder Rehabilitation Project  
Marshall and Elkhart Counties, Indiana  
Des. Nos. 2001886 & 1702997**

**Date(s) of Field Reconnaissance:**

June 28 & 29, 2022; June 5, 6 & 7, 2023

**Report Completion Date:**

April 5, 2024

**Location**

The project is located along US 6, from SR 106 to 2.03 miles west of SR 19.

- Section 25, Township 35 North, Range 3 East
- Sections 29, 30, 32, 33, 34 and 35, Township 35 North, Range 4 East
- Bremen and Nappanee West United States Geological Survey (USGS) Quadrangles
- German Township, Marshall County, Indiana
- Locke Township, Elkhart County, Indiana
- Latitude: 41.449785, Longitude: -86.091013

**Project Description**

The proposed project involves the application of a hot mix asphalt (HMA) overlay along US 6 from the east junction of SR 106 to 2.03 miles west of SR 19 within eastern Marshall County and southwestern Elkhart County (Des. No. 2001886). Approximately 1.5 inches of the existing pavement will be milled and an HMA overlay will be applied. The project also involves widening the shoulders from approximately 0.40 mile east of the east junction of SR 106 to 2.03 miles west of SR 19 (Des. No. 1702997). The existing shoulder, which is approximately 2 feet along the entire length of this stretch of US 6, will be widened to 8 feet to accommodate horse-drawn carriages and bicyclists in the area. Additionally, there are 44 structures within the project area that will be replaced, repaired, or extended. The project will also involve grading the roadside ditches to upgrade the drainage within the project area. The existing roadway cross-section will remain the same throughout the project extent.

During field investigations on June 28 & 29, 2022 and June 5, 6, & 7, 2023, 3 streams and 27 wetlands were identified within the investigation area. The surrounding landscape is mainly rural and consists of agricultural land, forested parcels, residential areas, and commercial/industrial areas.

**Soils**

According to the 2020 United States Department of Agriculture (USDA) Soil Survey Geographic (SSURGO) Database for Marshall and Elkhart Counties, Indiana, the investigation area contains soil areas with hydric soils (A8 to A13).

**Soil Summary Table**

Soil Unit Name	Symbol	NRCS Flooding Frequency	NRCS Drainage Class	NRCS Hydric Soil Category	SSURGO Hydric Rating
Bronson sandy loam, 0 to 1 percent slopes	BufA	None	Moderately well drained	Predominantly nonhydric (1-32%)	6
Brookston loam, 0 to 1 percent slopes	BuuA	None	Poorly drained	Predominantly hydric (66-99%)	92
Crosier loam, 0 to 1 percent slopes	CvdA	None	Somewhat poorly drained	Predominantly nonhydric (1-32%)	5
Crosier loam, 1 to 4 percent slopes	CvdB	None	Somewhat poorly drained	Predominantly nonhydric (1-32%)	10
Maxinkuckee muck, drained, 0 to 1 percent slopes	MaxAN	None	Very poorly drained	Hydric (100%)	100
Milford silty clay loam, 0 to 1 percent slopes	MouA	None	Poorly drained	Predominantly hydric (66-99%)	93
Rensselaer loam, 0 to 1 percent slopes	ReyA	None	Poorly drained	Predominantly hydric (66-99%)	88
Riddles-Metea complex, 1 to 5 percent slopes	RoqB	None	Well drained	Nonhydric (0%)	0
Riddles-Oshtemo fine sandy loams, 0 to 1 percent slopes	RopA	None	Well drained	Nonhydric (0%)	0
Riddles-Oshtemo fine sandy loams, 1 to 5 percent slopes	RopB	None	Well drained	Nonhydric (0%)	0
Whitaker loam, 0 to 1 percent slopes	WtbA	None	Somewhat poorly drained	Nonhydric (0%)	0

**National Wetlands Inventory Information**

Four National Wetlands Inventory (NWI) features were identified within the investigation area (A14 to A19). Wetland type is based on *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al. 1979).

**NWI Summary Table**

Wetland Type	Description	Location: Lat/Long
PFO1C	Palustrine, forested, broad-leaved deciduous, seasonally flooded	41.452054 -86.093202
PEM1Af	Palustrine, emergent, persistent, temporarily flooded, farmed	41.453413 -86.118978

PEM1A	Palustrine, emergent, persistent, temporarily flooded	41.451824 -86.092101
R2UBFx	Riverine, lower perennial, unconsolidated bottom, semi-permanently flooded, excavated	41.473249 -86.104235

**12-digit HUC**

The US 6 Project investigation area is within the Amery Ditch (071200010303) 12-digit HUC watershed (A2 to A6). The USGS StreamStats webpage (<https://streamstats.usgs.gov/ss/>) generated three watersheds for likely Waters of the US within the investigation area (Page A26). The watershed for Albert Zeiger Ditch is 4.653 square miles and the watershed for George Marberger Ditch is 1.019 square miles. An additional watershed (Watershed 3) that was not associated with a field identified stream was 1.425 square miles. The watershed for George Marberger Ditch is contained within the watershed of Albert Zeiger Ditch. The Indiana Floodplain Information Portal (<https://indnr.maps.arcgis.com/apps/webappviewer/index.html?id=05026dabc2e8461983e196d56a213c1e>) Best Available Flood Zones data indicate that the investigation area is within a regulatory floodway (A20 to A25).

**Attached Documents**

- Location Map
  - USGS Quad Map (1:24,000)
  - USGS Quad Map (1:12,000)
  - Soil, NWI, & Flood Hazard Index Map
  - USDA SSURGO Soils Map
  - USFWS NWI Map
  - Best Available Flood Hazard & National Hydrography Dataset (NHD) Line Map
  - StreamStats Watershed Map
  - Water Resources & Photo Index Map
  - Water Resources Map
  - Photo Location Map and Project Photos
  - Wetland Data Sheets
  - Preliminary Jurisdictional Determination
- Removed to avoid duplication
- 

**Field Reconnaissance**

The area was investigated for water resources on five separate dates. Initial investigations occurred on June 28 and 29, 2022. Due to a change in scope for the project a follow-up investigation occurred on June 5, 6 and 7, 2023. An additional field visit occurred on December 11, 2023 to take photos of drainage structures. The Waters of the U.S. (WOTUS) investigation area limits were established based on the scope of work expected for the US 6 Project. A total of 3 streams and 27 wetlands were identified during the field reconnaissance. Additionally, 6 roadside ditches (RSDs) were identified. Weather during both investigations was sunny and warm. Preceding field investigations, the last precipitation events in the area (Lakeville station) were 0.30 inch on June 28, 2022 and 0.24 inch on May 20, 2023 according to NOAA online weather data (<https://www.weather.gov/wrh/Climatwfo=iwx>). It should be noted that drought conditions were present during the June 2023 field investigation.

Water resource boundaries were mapped using an EOS Arrow and Trimble R1 receiver (sub-meter accuracy) and ArcCollector as the GIS data collection platform. Wetland determinations were conducted in accordance with the Corps of Engineers Wetland Delineation Manual (U.S. Army Corps of Engineers 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region Version 2.0 (U.S. Army Corps of Engineers 2010). Wetland Data sheets from the U.S. Army Corps of Engineers Headquarters website ([https://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/reg\\_supp/](https://www.usace.army.mil/Missions/Civil-Works/Regulatory-Program-and-Permits/reg_supp/)) were used to make wetland determinations. For those features that displayed bed and bank, the ordinary high-water mark (OHWM) width and depth were measured at the maximum dimension observed beyond the influence of bridge and culvert structures.

### **Stream Feature(s)**

According to the USGS Bremen and Nappanee West 1:24,000 topographic quadrangles, twenty-four solid blue-line features are present within the investigation area (A2 to A6). The June 2022 and June 2023 field investigation concluded that all three stream features were represented by solid blue-line features. Two solid blue-line features were perennial and identified as Albert Zeiger Ditch and George Marberger Ditch. George Marberger Ditch crosses the project area in two locations. The other solid blue-line feature was intermittent and identified as UNT to Arney Ditch. The NHD GIS dataset includes 22 classified flowline features within the investigation area (A20 to A25). Four of these features are classified as Connectors and the remaining 19 features are classified as Canal/Ditch. One of the connectors and canal/ditch features represents Albert Zeiger Ditch. Two other canal/ditch features represent the two locations where George Marberger Ditch crosses the investigation area. RSDs 1, 3, 4 and 6 were associated with canal/ditch features. Nine of the canal/ditch features represent wetland features. Three of the canal/ditch features and the other two connector features did not represent a field identified stream or RSD feature.

#### *Albert Zeiger Ditch*

Albert Zeiger Ditch is a perennial channel flowing southwest underneath US 6 through a corrugated metal pipe (CMP) culvert east of SR 106 near the western terminus of the investigation area. Approximately 187 feet of the stream is within the investigation area. Albert Zeiger Ditch is a channelized feature that functions as drainage for the agricultural fields and roadways in the area. The ordinary high water mark (OHWM) is 12 feet wide by 1.4 feet deep. The upstream drainage area is 4.653 square miles. The substrate within this reach of Albert Zeiger Ditch is silt (80%) and sand (20%). The channel morphology within this reach of Albert Zeiger Ditch is 100% run. According to a qualitative analysis of Albert Zeiger Ditch, the stream would be considered a poor-quality feature due to its channelized nature and lack of available aquatic habitat.

Albert Zeiger Ditch is considered to be a relatively permanent water (RPW) and would likely be considered a Water of the U.S. due its hydrologic connection to the Yellow River, a traditional navigable water (TNW) via Middle Fork Yellow River. Yellow River is considered navigable from its junction with the Kankakee River for 41.0 river miles to Plymouth.

#### *George Marberger Ditch*

George Marberger Ditch is a perennial stream flowing through the project area under US 6 at two different locations (George Marberger Ditch – East and George Marberger Ditch – West). The western crossing flows southeast to northwest through a concrete box culvert east of Dogwood Drive. The

OHWL is 9.5 feet wide by 1.7 feet deep. The substrate is sand (70%) and silt (30%). The channel morphology within this reach is 100% run. The eastern crossing flows northeast to southwest through a CMP under US 6 west of Plymouth Goshen Trail. The OHWM of this reach of George Marberger Ditch is 2.8 feet by 0.2 feet deep. The substrate is sand (80%) and silt (20%). The channel morphology within this reach is 100% run. The upstream drainage area is 1.01 square mile. A total of approximately 336 linear feet (140 feet west and 196 feet east) of this stream flows within the investigation area. According to a qualitative analysis of George Marberger Ditch, the stream would be considered a poor-quality feature due to its channelized nature and lack of available aquatic habitat.

George Marberger Ditch is considered to be a RPW and would likely be considered a Water of the US due its hydrologic connection to the Yellow River, a TNW, via Albert Zeiger Ditch, and Middle Fork Yellow River. Yellow River is considered navigable from its junction with the Kankakee River for 41.0 river miles to Plymouth.

*UNT to Arme y Ditch*

UNT to Arme y Ditch is an intermittent channel flowing east to west along the north side of US 6. The stream begins at the outlet of a culvert under US 6 near the eastern terminus of the project and terminates at Wetland 26. Approximately 99 linear feet of this stream flows within the investigation area. The OHWM is 1.2 feet wide by 0.3 feet deep. The substrate is silt (60%) and sand (40%). The channel morphology is 100% run. No upstream drainage area was identified on the USGS StreamStats website; therefore, it is assumed the upstream drainage is less than 0.1 square mile.

UNT to Arme y Ditch is considered to be a RPW and would likely be considered a Water of the US due to its intermittent nature and connection to the Yellow River, a TNW via Arme y Ditch and Middle Fork Yellow River. Yellow River is considered navigable from its junction with the Kankakee River for 41.0 river miles to Plymouth.

**Stream Summary Table**

Water Feature Name	Photos	Lat/Long (OHWM)	OHWL Width (ft) Depth (ft)	Stream Length (ft)	USGS Blue-line? Type?	Class	Connection	Riffles? Pools?	Quality	Substrate	Drainage Area (sq. mi.)	Likely Waters of U.S.?
Albert Zeiger Ditch	18-19, 22-26	41.455708 -86.133355	12 1.4	187	Yes Perennial	Perennial	Yellow River	No No	Poor	Silt (80%) Sand (20%)	4.653	Yes
George Marberger Ditch	(West) 104-107, 109-111, (East) 163-166, 168-172	West: 41.453882 -86.113749 East 41.453055 -86.097223	9.5 1.7	336	Yes Perennial	Perennial	Yellow River	No No	Poor	Sand (70%) Silt (30%)	1.01	Yes
UNT to Arme y Ditch	491, 493-495	41.443616 -86.033032	1.2 0.3	99	Yes Perennial	Intermittent	Yellow River	No No	Poor	Silt (60%) Sand (40%)	0.1 (est)	Yes

**Wetlands**

The June 2022 and June 2023 field investigation identified 27 wetland features, Wetlands 1 through 27, within the investigation area of the US 6 Project. Many of these features are fed by agriculture drains

and underdrains below US 6 and have formed within excavated concave drainage areas along US 6. Depending on the strength of hydrologic connection, similarity of vegetative community, and distance between these areas, some wetland areas separated by a culvert were combined into one feature (i.e. Wetlands 2, 20, and 26). According to the Indiana Department of Environmental Management (IDEM) under stipulations provided in IC 13-18-22, all of the wetlands, with the exception of Wetlands 1, 2, 3, 5, 6, 11, 12, 13, 20, and 21, would be considered exempt isolated wetlands based on their classification as Class I wetlands, lack of surface connection to a RPW, and being located within a roadside ditch ([www.in.gov/idem/wetlands/information-about/state-regulated-wetlands-program/understanding-state-regulated-wetland-exemptions/](http://www.in.gov/idem/wetlands/information-about/state-regulated-wetlands-program/understanding-state-regulated-wetland-exemptions/)). INDOT acknowledges that these wetlands would not likely meet the definition of a Waters of the U.S. under the Clean Water Act. However, INDOT may request that the USACE take jurisdiction of these wetlands. These wetlands have therefore been included on the Preliminary Jurisdictional Determination form (A355 to A358). All other wetlands drain to one of two jurisdictional streams; therefore; the remaining wetlands were given a preliminary "Waters of the U.S." determination. These streams include George Marberger Ditch and Albert Zeiger Ditch. All streams within the investigation area eventually drain to Yellow River, a TNW. The total area of mapped wetlands is 3.117 acres.

Wetlands located along the roadside were generally emergent wetlands dominated by narrow-leaf cat-tail (*Typha angustifolia*, OBL), reed canary grass (*Phalaris arundinacea*, FACW), and various graminoid species. Some wetlands were bordered by fence rows allowing for sparse overhanging shrub vegetation.

Due to the number of wetlands delineated within the investigation area, data points and confirmed wetlands are summarized in the tables below. The Data Point Summary Table contains information on collected data points. The Wetland Summary Table depicts characteristic data that can be found on the wetland determination forms (A154 to A354).

Wetland Summary Table

Wetland ID	Type	Acreage	Quality	Photo IDs	Associated structure ID	Likely WOTUS?	Data Point ID (DP)	Lat/Long	Dominant Vegetation	Hydric Soil Indicator(s)	Hydrology Indicator(s)	Within Wetland?	Notes
Wetland 1	EM	0.03	Poor	5-12	CLV-89622	Yes	1	41.456111/f -86.133884	<i>Salix nigra, Schedonorus arundinaceus, Solidago gigantea, Solidago altissima, Vitis vulpina</i>	F3	B10, D2	Yes	Located west of Douglas road and north of US 6 within a roadside ditch containing <i>Salix</i> species.
							2	41.456092/-86.133889	<i>Schedonorus arundinaceus, Cirsium arvense</i>	None	None	No	
Wetland 2	EM	0.21	Poor	30, 34-42	Unnamed	Yes	3	41.453964/-86.128354	<i>Phalaris arundinacea</i>	S3, S7	C9, D5	Yes	Located within roadside depression, containing <i>Phalaris</i> species, east of Bittersweet Drive and North of US 6.
							4	41.454011/-86.128342	<i>Schedonorus arundinaceus</i>	None	None	No	
Wetland 3	EM	0.008	Poor	47, 49, 52, 54-55, 57, 60, 62, 64, 66	CLV-64127	Yes	5	41.453703/-86.127692	<i>Phalaris arundinacea</i>	F3, A11	D2, D5	Yes	Located on south side of US 6 along roadside depression containing <i>Phalaris</i> species.
							6	41.453716/-86.127635	<i>Schedonorus arundinaceus</i>	F6	None	No	
NA	NA	NA	NA	67-70	None	NA	7	41.453686/-86.121373	<i>Carex hyalinolepis, Poa pratensis</i>	None	D5	No	Taken on the south side of US 6 at the lowest elevation within a roadside ditch containing <i>Carex</i> species.
NA	NA	NA	NA	71-74	CLV-64129	NA	8	41.453684/-86.120398	<i>Carex hyalinolepis</i>	None	None	No	Taken on the south side of US 6 at the lowest elevation within a roadside depression containing <i>Carex</i> species
Wetland 4	EM	0.101	Poor	88-97	None	No*	9	41.45361/-86.115839	<i>Phalaris arundinacea, Carex vulpinoidea</i>	F3	D2, D5	Yes	Located on the south side of US 6, east of Dogwood Drive, within a roadside depression containing <i>Phalaris</i> species
							10	41.453636/-86.115551	<i>Schedonorus arundinaceus</i>	F3	None	No	
NA	NA	NA	NA	115-117	None	NA	11	41.453784/-86.112110	<i>Phalaris arundinacea, Schedonorus arundinaceus</i>	None	D2	No	Taken on the north side of US 6 at the lowest elevation within a roadside depression containing <i>Phalaris</i> species, south of an agricultural field.
Wetland 5	EM	0.009	Poor	144-155, 158	CLV-100153	Yes	12	41.453508/-86.099441	<i>Typha angustifolia</i>	F3	D2, D5	Yes	Located on the south side of US 6, west of Plymouth-Goshen Trail Road, within a roadside depression containing <i>Typha</i> species.
							13	41.453521/-86.099527	<i>Schedonorus arundinaceus</i>	F3	None	No	
Wetland 6	EM	0.004	Poor	140-142, 160	CLV-100153	Yes	14	41.453758/-86.099348	<i>Phalaris arundinacea</i>	F1	A3, C2, D5	Yes	Located on the north side of US 6 within a freshly mowed roadside depression containing <i>Phalaris</i> species. DP 14 is located outside of a culvert below roadside embankment.
							15	41.453756/-86.099301	<i>Festuca rubra, Elymus canadensis</i>	S7	None	No	
NA	NA	NA	NA	191-194	None	NA	16	41.451067/-86.092685	<i>Phalaris arundinacea</i>	None	D5	No	Taken on the north side of US 6. The location was more or less level terrain, within a patch of <i>Phalaris</i> species.
NA	NA	NA	NA	195-196	None	NA	17	41.450429/-86.091575	<i>Phalaris arundinacea</i>	None	D2, D5	No	Taken on the north side of US 6 within a roadside ditch containing <i>Phalaris</i> species, in a narrow concave slope at the lowest elevation.
Wetland 7	EM	0.016	Poor	199-208	None	No*	18	41.449919/-86.090901	<i>Phalaris arundinacea, Poa pratensis</i>	S7	D2, D5	Yes	Located on the south side of US 6 at the lowest elevation within a roadside depression containing <i>Phalaris</i> species
							19	41.449908/-86.090921	<i>Acer saccharinum, Tilia americana, Acer saccharum, Fraxinus pennsylvanica, Dactylis glomerata, Toxicodendron radicans</i>	None	None	No	

Wetland 8	EM	0.011	Poor	215-217, 219-220, 222-225	CLV-64133	No*	20	41.448583/-86.088101	<i>Phalaris arundinacea, Typha angustifolia, Juncus tenuis</i>	F3	C3, B10, D2, D5	Yes	Located on the north side of US 6 at the lowest elevation within a roadside drainage conveyance containing Phalaris species.
							21	41.448586/-86.088076	<i>Cercis canadensis, Ulmus americana, Solidago altissima, Dactylis glomerata</i>	None	None	No	
NA	NA	NA	NA	230-232	None	NA	22	41.447414/-86.085541	<i>Phalaris arundinacea</i>	None	D5	No	Taken within a roadside depression, at the lowest elevation, within a patch of Phalaris species
Wetland 9	EM	0.036	Poor	235-236, 239-247	None	No*	23	41.447139/-86.083345	<i>Typha angustifolia, Carex vulpinoidea</i>	A11, F3	D2, D5	Yes	Located on the south side of US 6 in roadside depression at the lowest elevation within a patch of Typha species
							24	41.447161/-86.083373	<i>Schedonorus arundinaceus</i>	A11, F3	None	No	
Wetland 10	EM	0.066	Poor	249-258	CLV-64135	No*	25	41.44704/-86.081648	<i>Carex lacustris</i>	F6	C3, D2, D5	Yes	Located on the south side of US 6 within a roadside ditch at the lowest elevation within patch of Carex species.
							26	41.447007/-86.081657	<i>Solidago altissima</i>	S7	None	No	
Wetland 11	EM	0.18	Poor	276-277, 279, 281, 283	CLV-64136	Yes	27	41.446585/-86.075677	<i>Phalaris arundinacea</i>	F1	A1, A2, A3, D5	Yes	Located on the south side of US 6 at the lowest elevation within a roadside ditch containing Phalaris species
							28	41.446601/-86.075534	<i>Schedonorus arundinaceus, Poa pratensis</i>	F3	None	No	
Wetland 12	EM	0.34	Poor	278, 280, 288-289, 293	CLV-64137	Yes	29	41.44639/-86.072715	<i>Salix interior, Phalaris arundinacea</i>	A11, F3	A1, C4, D5	Yes	Located on the south side of US 6 within a roadside depression at the lowest elevation within a patch of Phalaris species
							30	41.446410/-86.073104	<i>Phalaris arundinacea, Schedonorus arundinaceus, Poa pratensis</i>	None	None	No	
Wetland 13	EM	0.081	Poor	285-287, 290-291	CLV-64137	Yes	31	41.446569/-86.072803	<i>Phalaris arundinacea</i>	F6	D2, D5	Yes	Located on the north side of US 6 within a roadside depression containing Phalaris species at the toe of the slope
							32	41.446564/-86.072687	<i>Phalaris arundinacea</i>	F6	D5	No	
Wetland 14	EM	0.072	Poor	296-304, 306-307, 310	None	No*	33	41.446048/-86.068536	<i>Typha angustifolia</i>	F6	D2, D5	Yes	Located on the south side of US 6 within a patch of Typha sp. existing between the railroad and US 6
							34	41.446086/-86.068528	<i>Solidago altissima</i>	None	None	No	
Wetland 15	EM	0.082	Poor	309, 326-330	Unnamed	No*	35	41.445911/-86.064242	<i>Carex vulpinoidea, Carex molesta</i>	A11, F3	B10, C8, D2, D5	Yes	Located on the north side of US 6, west of an agricultural field, within a roadside depression containing Carex species
							36	41.445926/-86.064241	<i>Plantago lanceolata</i>	None	None	No	
Wetland 16	EM	0.279	Poor	311-325, 331-332, 335-343	CLV-64138	No*	37	41.445843/-86.065123	<i>Carex lupulina, Scirpus atrovirens</i>	A11, F2	B6, D5	Yes	Located on the south side of US 6 within the lowest elevation of a roadside ditch containing Carex species
							38	41.445828/-86.065100	<i>Schedonorus arundinaceus</i>	None	None	No	
							39	41.445601/-86.061992	<i>Carex trichocarpa</i>	A11, F3	B10, D2, D5	Yes	Second wetland DP taken due to size of Wetland 16
							40	41.445578/-86.062093	<i>Carex trichocarpa, Euthamia graminifolia</i>	None	None	No	
Wetland 17	EM	0.014	Poor	353-354, 356-363	None	No*	41	41.445233/-86.057486	<i>Phalaris arundinacea</i>	None	None	No	
							42	41.445235/-86.057417	<i>Sambucus nigra, Phalaris arundinacea, Panicum capillare</i>	F6	A3, C8, D2, D5	Yes	Located within roadside ditch south of US 6 and north of railroad tracks
Wetland 18	EM	0.027	Poor	367-370, 373-377	CLV-64139	No*	43	41.445106/-86.055555	<i>Phalaris arundinacea</i>	A11, F2, F6	A3, C8, D2, D5	Yes	Located within roadside ditch south of US 6 adjacent to two culverts
							44	41.445097/-86.055757	<i>Schedonorus arundinaceus, Poa pratensis</i>	F3	None	No	
Wetland 19	EM	0.009	Poor	378-383	CLV-64139	No*	45	41.445245/-86.055423	<i>Phalaris arundinacea</i>	A11, F3	B10, D2, D5	Yes	Located on the north side of US 6 within a roadside drainage ditch containing Phalaris species
							46	41.445256/-86.055387	<i>Schedonorus arundinaceus, Dactylis glomerata, Poa pratensis</i>	None	None	No	



US 6 HMA Overlay with Minor Structural Project (Des. No. 2001886) US 6 Shoulder  
Rehabilitation Project (Des. No. 1702997)  
Marshall and Elkhart Counties, Indiana  
Waters of the U.S. Determination

Wetland 20	EM	0.287	Poor	393-395, 399-400, 415	CLV-99335, CLV-99331, CLV-89604	Yes	47	41.444639/-86.04942	<i>Schoenoplectus tabernaemontani, Phalaris arundinacea</i>	A11, F2, F6	C3, B10, D2, D5	Yes	Located on the south side of US 6 within a roadside drainage ditch containing Phalaris species
							48	41.444627/-86.049488	<i>Nepeta cataria</i>	None	None	No	
Wetland 21	EM	0.184	Poor	401-405, 407, 409-413	Unnamed	Yes	49	41.444785/-86.049311	<i>Phalaris arundinacea, Poa pratensis</i>	F6	D2, D5	Yes	Located on the north side of US 6 within a roadside ditch containing Phalaris species
							50	41.444803/-86.049281	<i>Schedonorus arundinaceus</i>	None	None	No	
							51	41.444497/-86.045325	<i>Phalaris arundinacea</i>	A11, F3	D2, D5	Yes	Second wetland DP taken due to size of Wetland 21
							52	41.444510/-86.045291	<i>Schedonorus arundinaceus, Verbascum thapsus, Cirsium arvense</i>	None	None	No	
Wetland 22	EM	0.746	Poor	425-432, 451-452, 463-469	None	No*	53	41.443944/-86.04003	<i>Acer saccharinum, Typha angustifolia</i>	A11, F3, F6	C3, C8 D2, D5	Yes	Located on the south side of US 6 within a roadside ditch within a patch of Typha species
							54	41.443621/-86.035585	<i>Typha angustifolia</i>	F3	B10, C8, D5	Yes	Second wetland DP taken due to size of Wetland 22
							55	41.443595/-86.035567	<i>Schedonorus arundinaceus</i>	F3	None	No	
Wetland 23	EM	0.134	Poor	424, 430, 433-440	Unnamed	No*	56	41.444034/-86.038643	<i>Typha angustifolia, Phalaris arundinacea</i>	F3	B6, D2, D5	Yes	Located within a mowed and highly disturbed, possibly filled, strip of wetland vegetation in front of a business on the north side of US 6.
							57	41.444001/-86.038649	<i>Schedonorus arundinaceus, Festuca rubra, Phragmites australis</i>	F3	None	No	
Wetland 24	EM	0.028	Poor	441-450	Unnamed	No*	58	41.44397/-86.037987	<i>Carex vulpinoidea, Typha angustifolia</i>	A11, F3	B6, D5	Yes	Located on the north side of US 6 within a depression containing Carex and Typha species
							59	41.444005/-86.038006	<i>Schedonorus arundinaceus, Eupatorium serotinum</i>	F6	None	No	
Wetland 25	EM	0.051	Poor	453-462	Unnamed	No*	60	41.443866/-86.036935	<i>Phalaris arundinacea</i>	F6	B4, D2, D5	Yes	Located on the north side of US 6 within a roadside depression within a patch of Phalaris species
							61	41.443901/-86.036939	<i>Phalaris arundinacea</i>	None	None	No	
Wetland 26	EM	0.015	Poor	475-490	CLV-64141	No*	62	41.443636/-86.033364	<i>Typha angustifolia</i>	F6	D2, D5	Yes	Located within a roadside ditch at the eastern end of the project area on the north side of US 6, at the toe of the slope within a patch of Typha species
							63	41.443661/-86.033349	<i>Schedonorus arundinaceus, Poa pratensis</i>	None	None	No	
							64	41.443656, -86.033582	<i>Hordeum jubatum, Poa pratensis, Festuca rubra</i>	A11, F6	B6, B10, D2	Yes	Second DP for Wetland 26 taken west of driveway culvert
Wetland 27	EM	0.097	Poor	492, 497-502, 504-505	None	No*	65	41.443367/-86.033026	<i>Acer saccharinum, Apocynum cannabinum, Lythrum salicaria</i>	A11	B10, D2, D5	Yes	Located on the south side of US 6 within a vegetated roadside depression containing sedges
							66	41.443304/-86.032422	<i>Daucus carota, Asclepias syriaca</i>	A12	None	No	
NA	NA	NA	NA	470-472	None	NA	67	41.443529/-86.034947	<i>Apocynum cannabinum, Schedonorus arundinaceus</i>	F1	None	No	Taken along the south side of US 6 at the lowest elevation within a roadside ditch containing Carex species

\*INDOT acknowledges that the wetland would likely not meet the definition of a Waters of the US. However, INDOT is requesting that the USACE take jurisdiction of the wetland.

**Roadside Ditch Features**

The June 2022 and June 2023 field review identified six RSD features within the investigation area. RSDs were located within roadside depressions excavated for drainage. RSDs lacked a defined bed and bank and sufficient wetland indicators, therefore the RSD features identified would not be considered Waters of the U.S. Some RSD features contained sparse wetland vegetation such as narrow-leaf cat-tail (*Typha angustifolia*) and wetland sedges (*Carex sp.*, *Cyperus sp.*), but would not be considered wetlands due to a lack of sufficient soil development and lack of any indicators of wetland hydrology. The total length of RSD features within the investigation area was 4,720 linear feet.

**Roadside Ditch Summary Table**

Name	Photos	Length (feet)	Coordinates
RSD 1	3-4, 15-16, 22	198	41.455750 -86.133656
RSD 2	118, 124-125	1,342	41.453745 -86.109643
RSD 3	292, 294	506	41.446326 -86.069810
RSD 4	349-351, 365-366	1,526	41.445468 -86.058650
RSD 5	346-347, 352	749	41.445307 -86.058666
RSD 6	420, 422-423	399	41.444168 -86.041256

**Open Water**

The June 2022 and June 2023 field investigation did not identify open water features within the investigation area.

**Structures**

Approximately 44 structures are proposed to be repaired, removed, or replaced throughout the project within the US 6 investigation area. These structures ranged from large concrete box culverts to small pipe culverts under driveways. All 44 structures within the investigated area that could potentially be impacted by the project were examined on June 28 and 29, 2022 and again on June 5, 6 and 7, 2023, for the presence of bat species or evidence of usage of the structure by bat species. The investigation area did not document direct or indirect signs of bat species within any structure within the investigated area. Investigation for the presence of bird species was conducted during these field visits as well. Birds were not observed nesting on structures or in areas that will be impacted by the project. No other evidence of wildlife using structures was observed. The locations of the 44 structures are shown in the attached maps (A28 to A61).

**Conclusions**

The May 2022, April 2023, and June 2023 field review for the US 6 Project identified 3 streams and 27 wetlands within the investigation area. Two of the stream features (Albert Zeiger Ditch and George Marberger Ditch) and 10 of 27 wetlands would likely be subject to USACE jurisdiction under Section 404

of the Clean Water Act due to their connection to Yellow River, a TNW. The remaining wetlands would likely be considered exempt isolated wetlands due to their lack of connection to a TNW, Class I classification, and location within a roadside ditch. However, INDOT may request USACE to take jurisdiction of these wetlands.

Every effort should be taken to avoid and minimize impacts to wetland features. If impacts are necessary, then mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps.

**Acknowledgement**

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

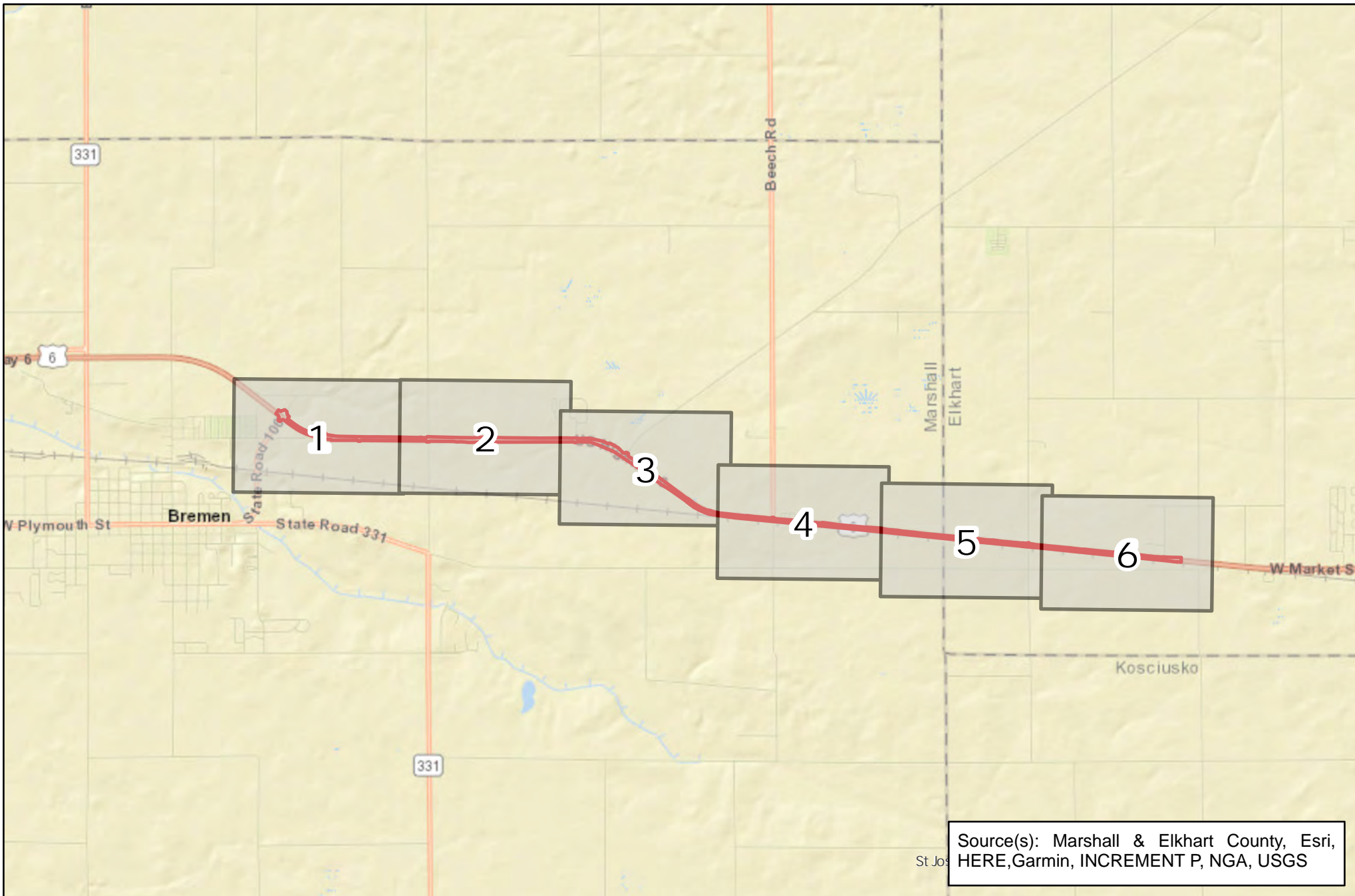
Chris Kunkel



Environmental Specialist  
Lochmueller Group, Inc.

**Preparers**

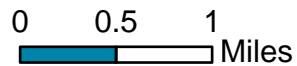
Lochmueller Group, Inc. Staff	Position	Contributing Effort
Chris Kunkel	Environmental Specialist	Field Data Collection, Report Preparation
Brenten Reust, PWS	Environmental Specialist	Field Data Collection
Carson Hoogewerf	Environmental Specialist	Field Data Collection
Samantha Beupre	Environmental Specialist	Field Data Collection
Kaylee Kloer	Environmental Specialist	Field Data Collection



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**Soil, NWI, & Flood Hazard Index Map**

**Des. No. 1702997 & 2001886  
 Waters of the U.S. Report**

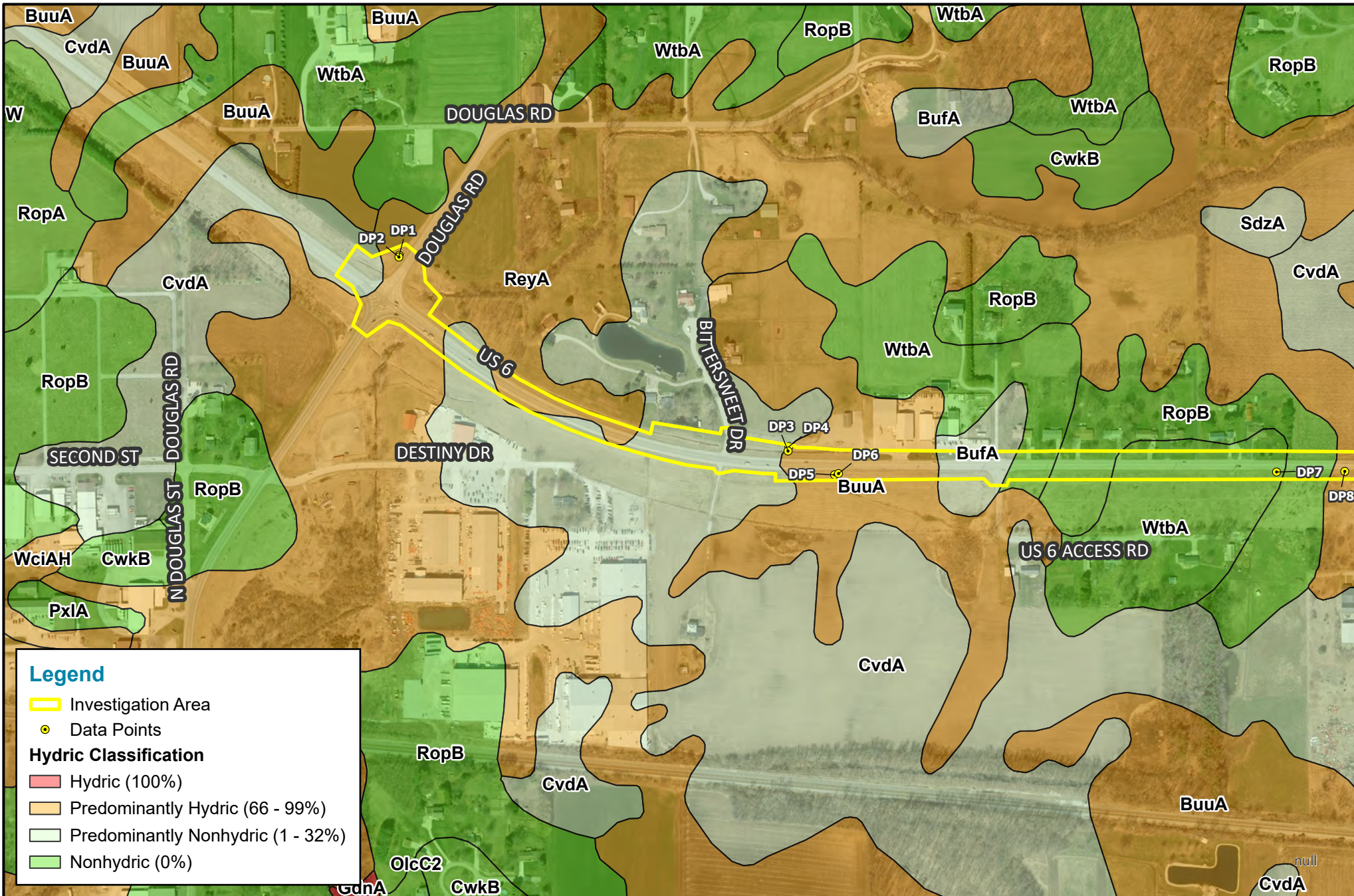


County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 1/19/2024, CKunkel

**Legend**

-  Map Viewshed
-  Project Area



**Legend**

Investigation Area

Data Points

**Hydric Classification**

Hydric (100%)

Predominantly Hydric (66 - 99%)

Predominantly Nonhydric (1 - 32%)

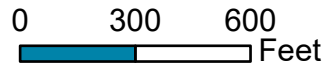
Nonhydric (0%)



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**USDA SSURGO Soils Map**

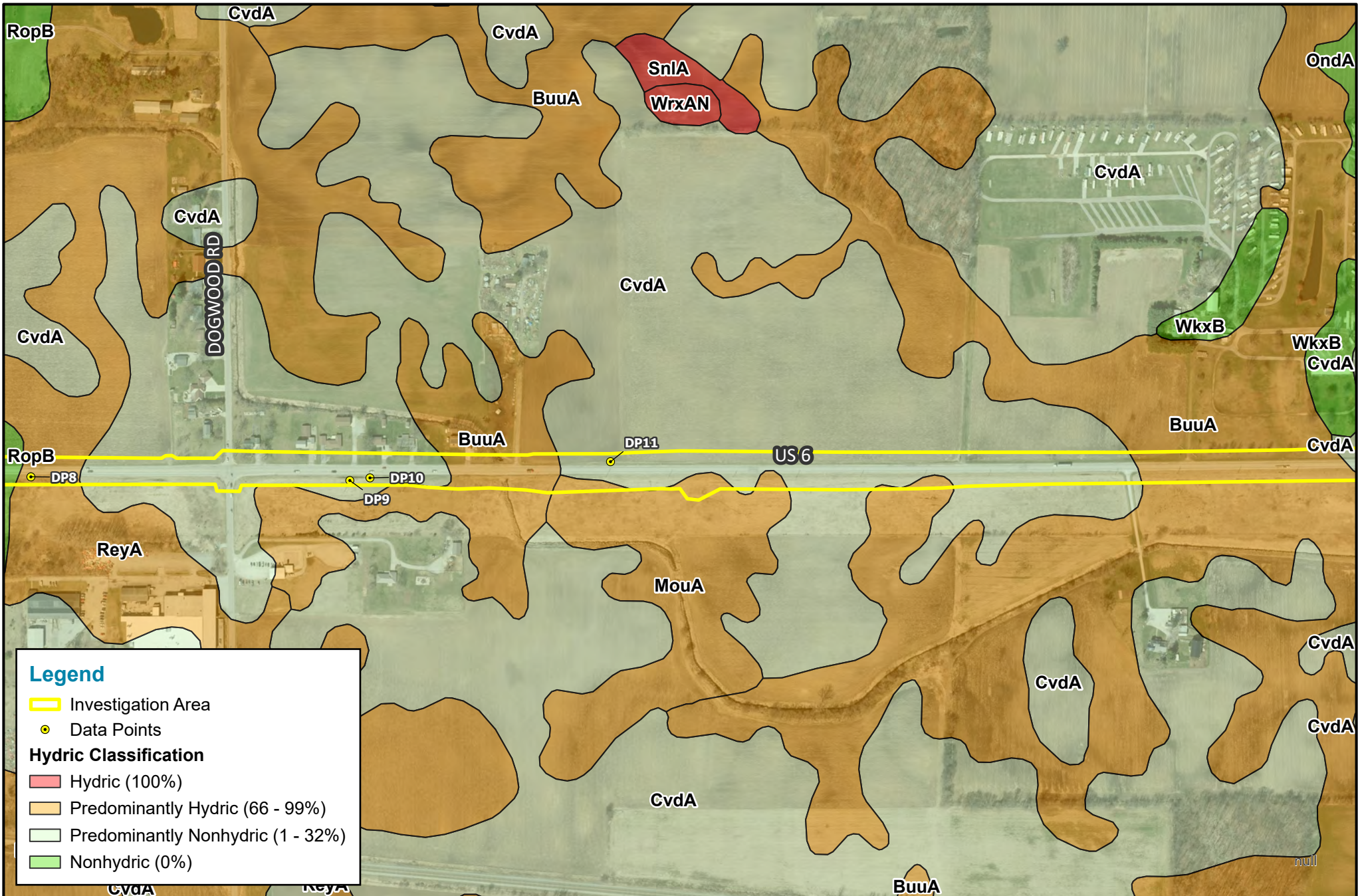
Des. No. 1702997 & 2001886  
 Waters of the U.S. Report



County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 4/5/2024, CKunkel

Aerial Source: 2021 Indiana Current Imagery  
 Soil Source: Soil Survey Geographic (SSURGO) database 06/2020 for Marshall and Elkhart County, Indiana



**Legend**

- Investigation Area
- Data Points

**Hydric Classification**

- Hydric (100%)
- Predominantly Hydric (66 - 99%)
- Predominantly Nonhydric (1 - 32%)
- Nonhydric (0%)

**LOCHMUELLER GROUP**

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**USDA SSURGO Soils Map**  
 Des. No. 1702997 & 2001886  
 Waters of the U.S. Report

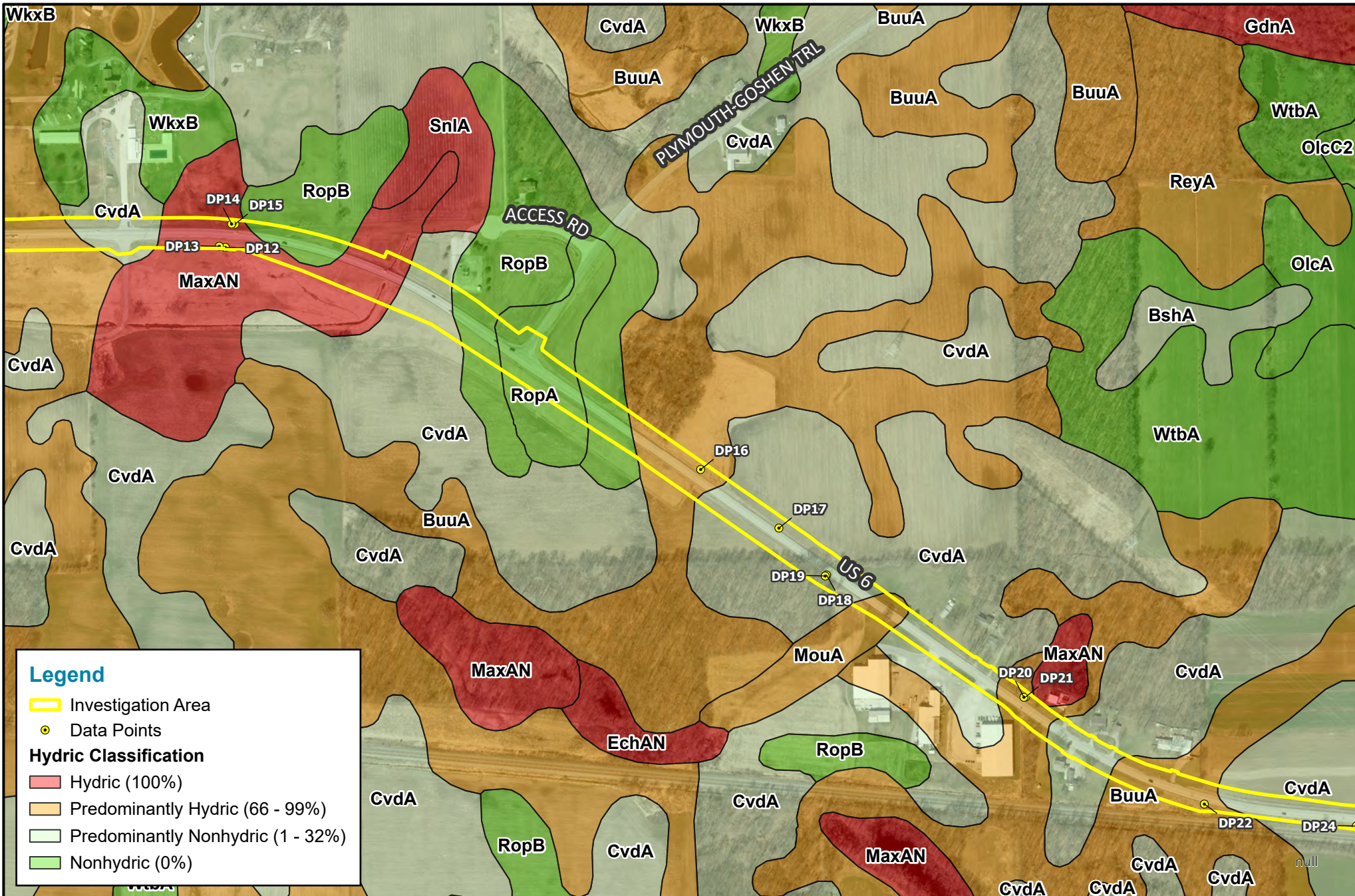
0      300      600  
 Feet

County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 4/5/2024, CKunkel

Aerial Source: 2021 Indiana Current Imagery  
 Soil Source: Soil Survey Geographic (SSURGO) database 06/2020 for Marshall and Elkhart County, Indiana

**Page 2 of 6**



**Legend**

- Investigation Area
- Data Points

**Hydric Classification**


- Hydric (100%)
- Predominantly Hydric (66 - 99%)
- Predominantly Nonhydric (1 - 32%)
- Nonhydric (0%)



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**USDA SSURGO Soils Map**  
 Des. No. 1702997 & 2001886  
 Waters of the U.S. Report

0    300    600  
 Feet

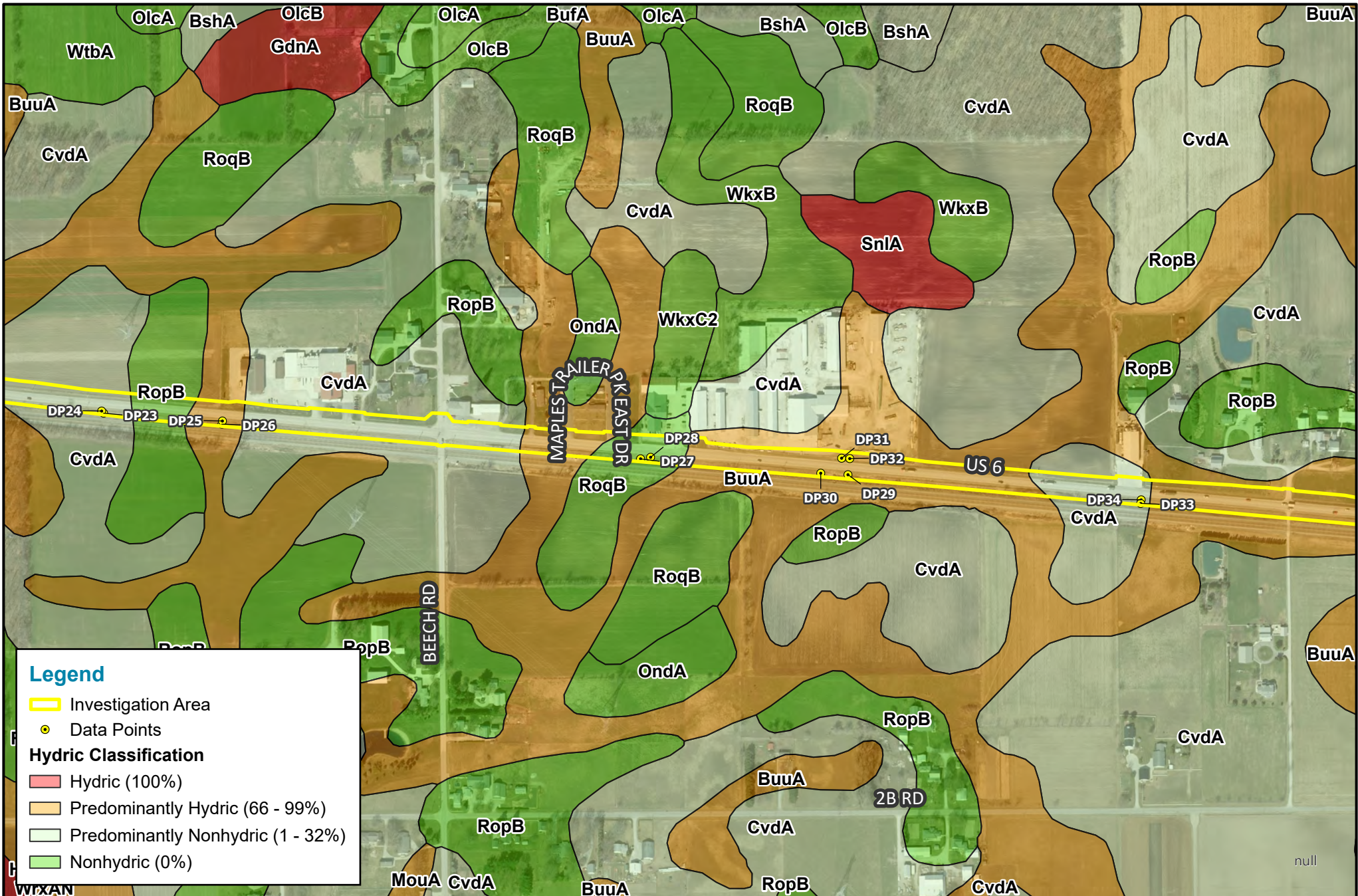


County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 4/5/2024, CKunkel

Aerial Source: 2021 Indiana Current Imagery  
 Soil Source: Soil Survey Geographic (SSURGO) database 06/2020 for Marshall and Elkhart County, Indiana

**Page 3 of 6**



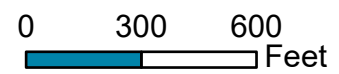
**Legend**

- Investigation Area
- Data Points
- Hydric Classification**
- Hydric (100%)
- Predominantly Hydric (66 - 99%)
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- Nonhydric (0%)



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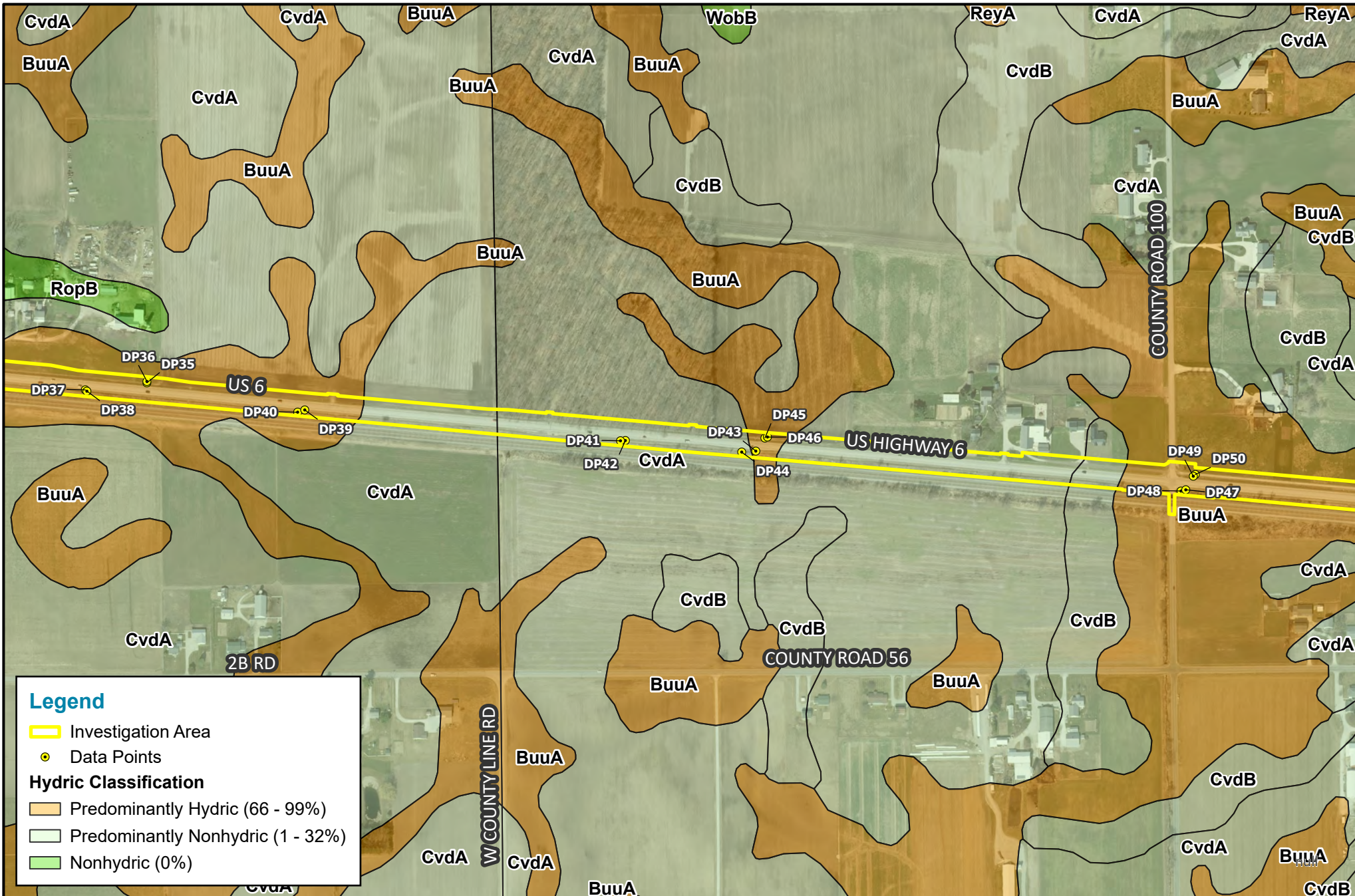


County: Marshall and Elkhart  
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**Legend**

- Investigation Area
- Data Points

**Hydric Classification**

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**USDA SSURGO Soils Map**  
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 Waters of the U.S. Report

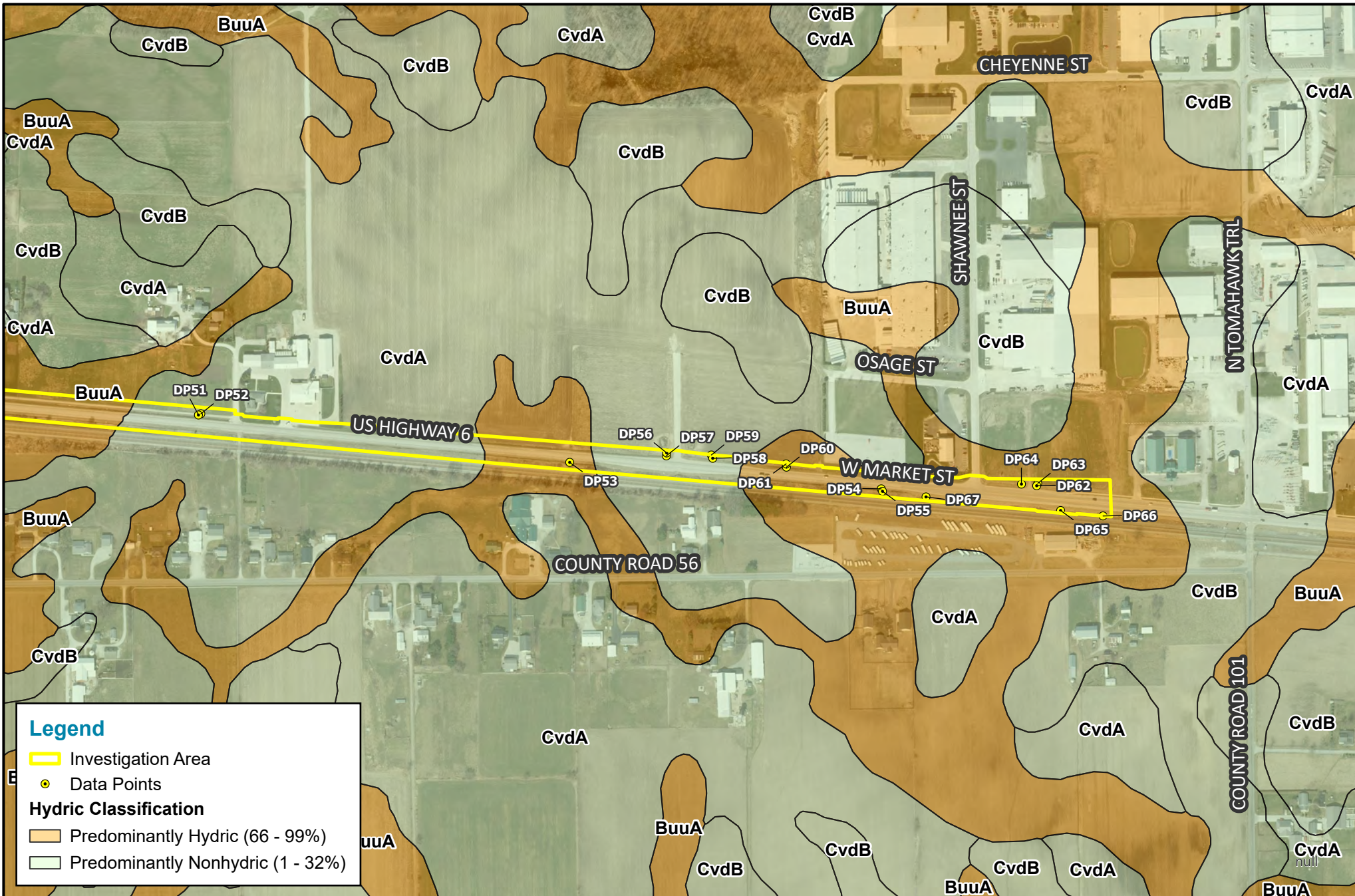
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County: Marshall and Elkhart  
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HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
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**Legend**

- Investigation Area
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**Hydric Classification**


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 Waters of the U.S. Report

0      300      600  
 Feet

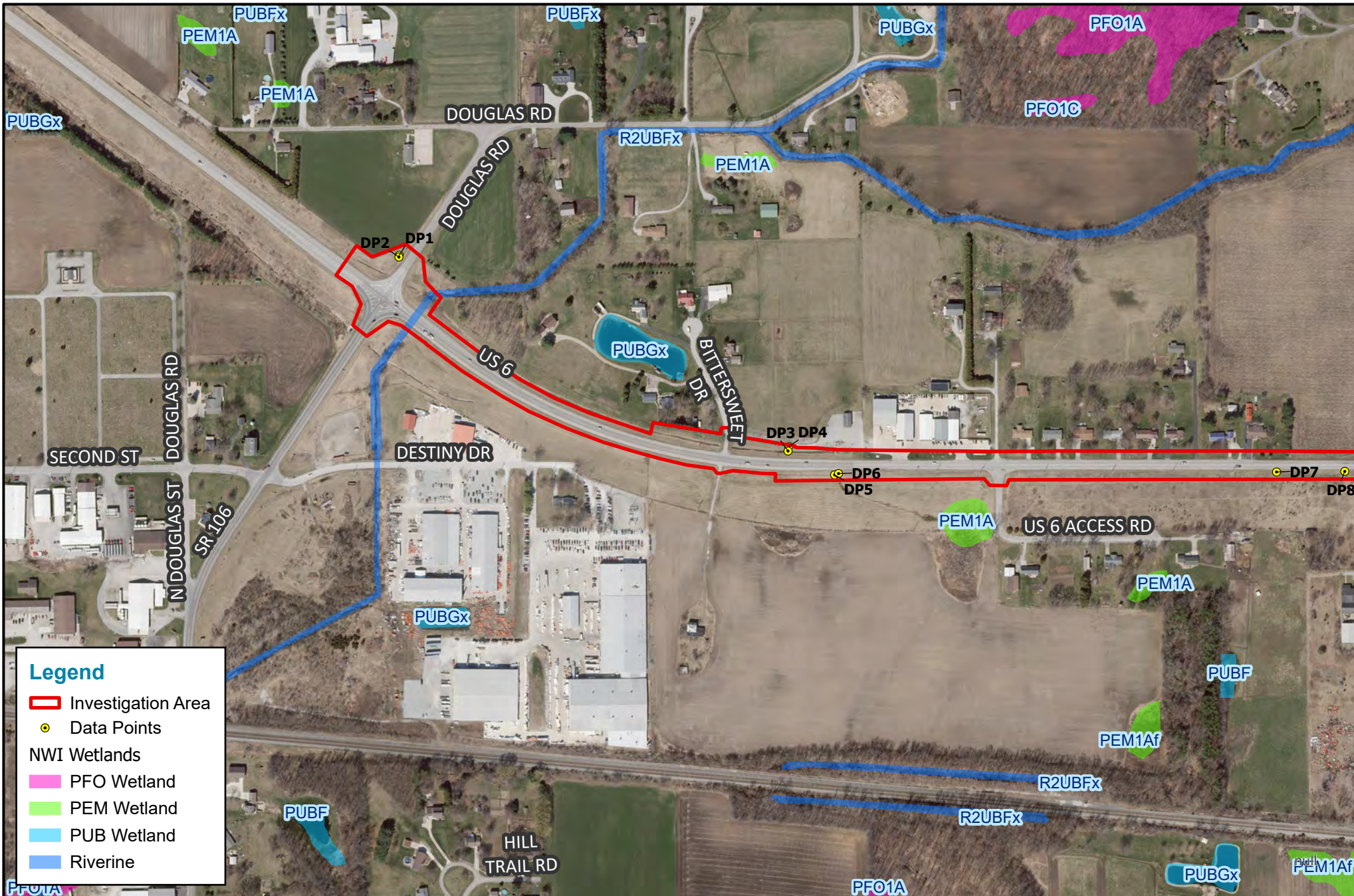


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 Soil Source: Soil Survey Geographic (SSURGO) database 06/2020 for Marshall and Elkhart County, Indiana

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**Legend**

- Investigation Area
- Data Points
- NWI Wetlands
- PFO Wetland
- PEM Wetland
- PUB Wetland
- Riverine

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**USFWS NWI Map**  
Des. No. 1702997 & 2001886  
Waters of the U.S. Report

0      300      600  
Feet

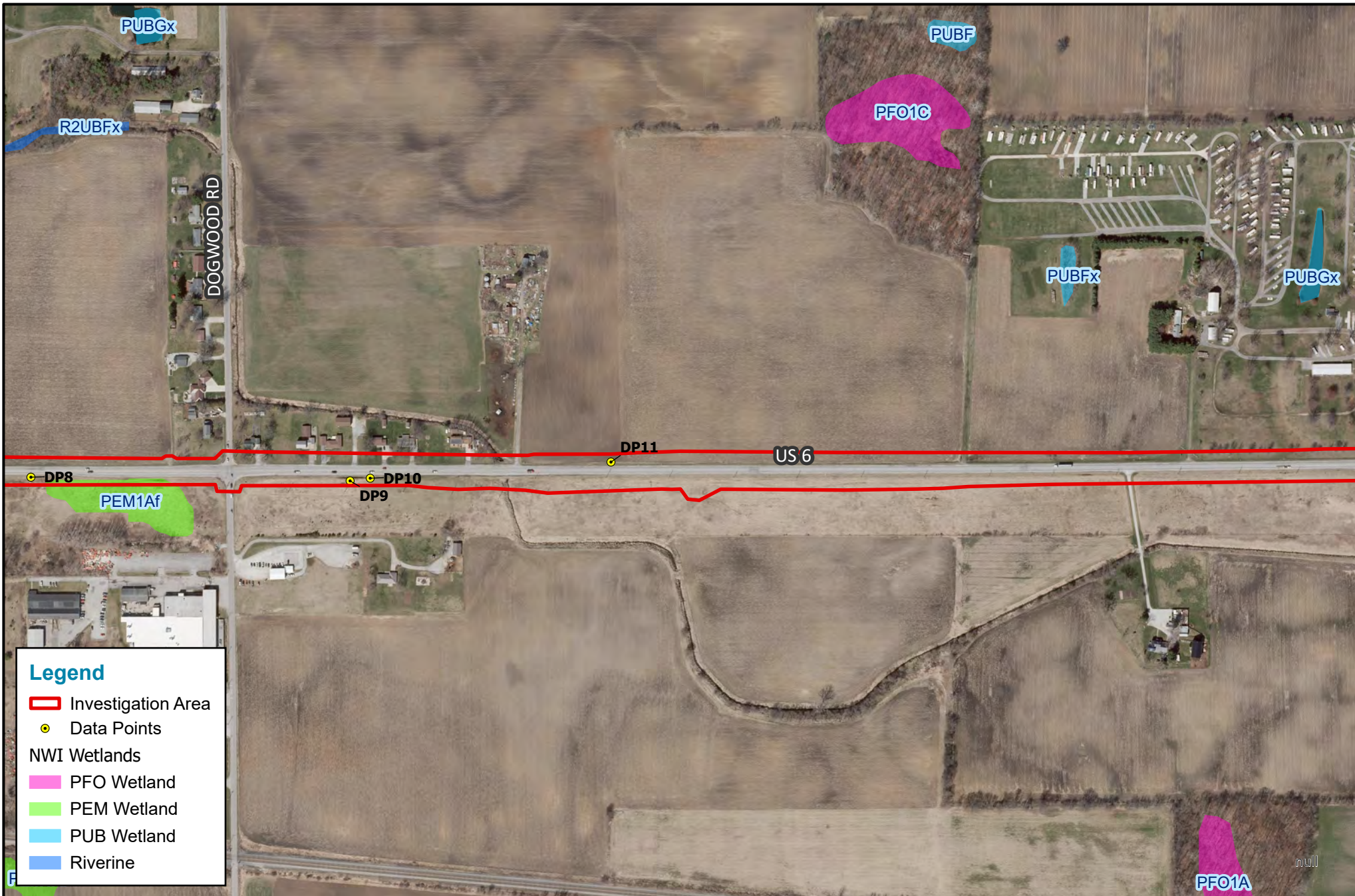
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County: Marshall and Elkhart  
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HMA Overlay & Shoulder Rehabilitation  
US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
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Aerial Source: 2021 Indiana Current Imagery  
Map Source(s): USFWS National Wetland Inventory (2022)

**Page 1 of 6**



**Legend**


- Investigation Area
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 Feet

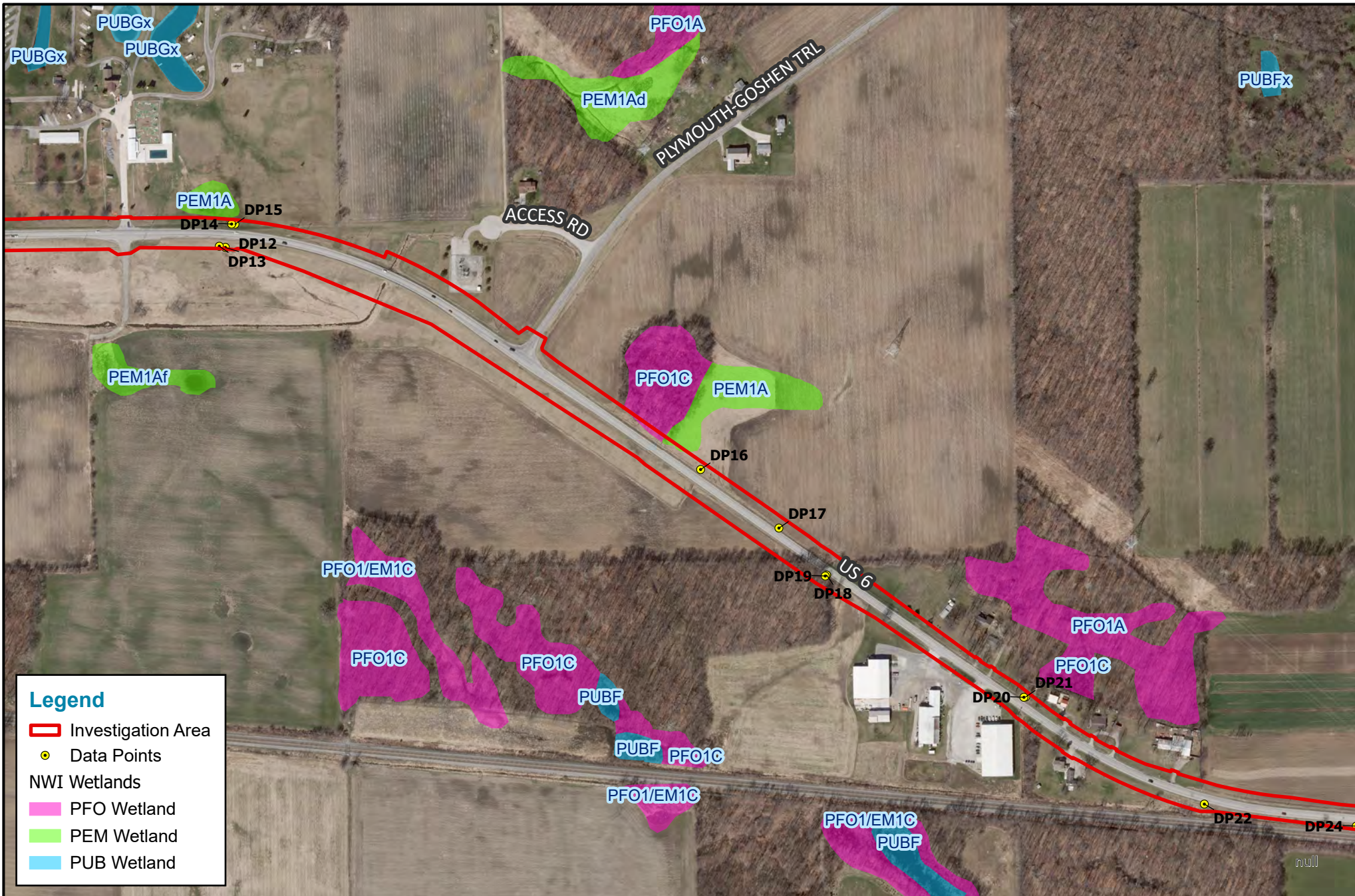


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**Legend**

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0      300      600  
 Feet

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0      300      600  
 Feet

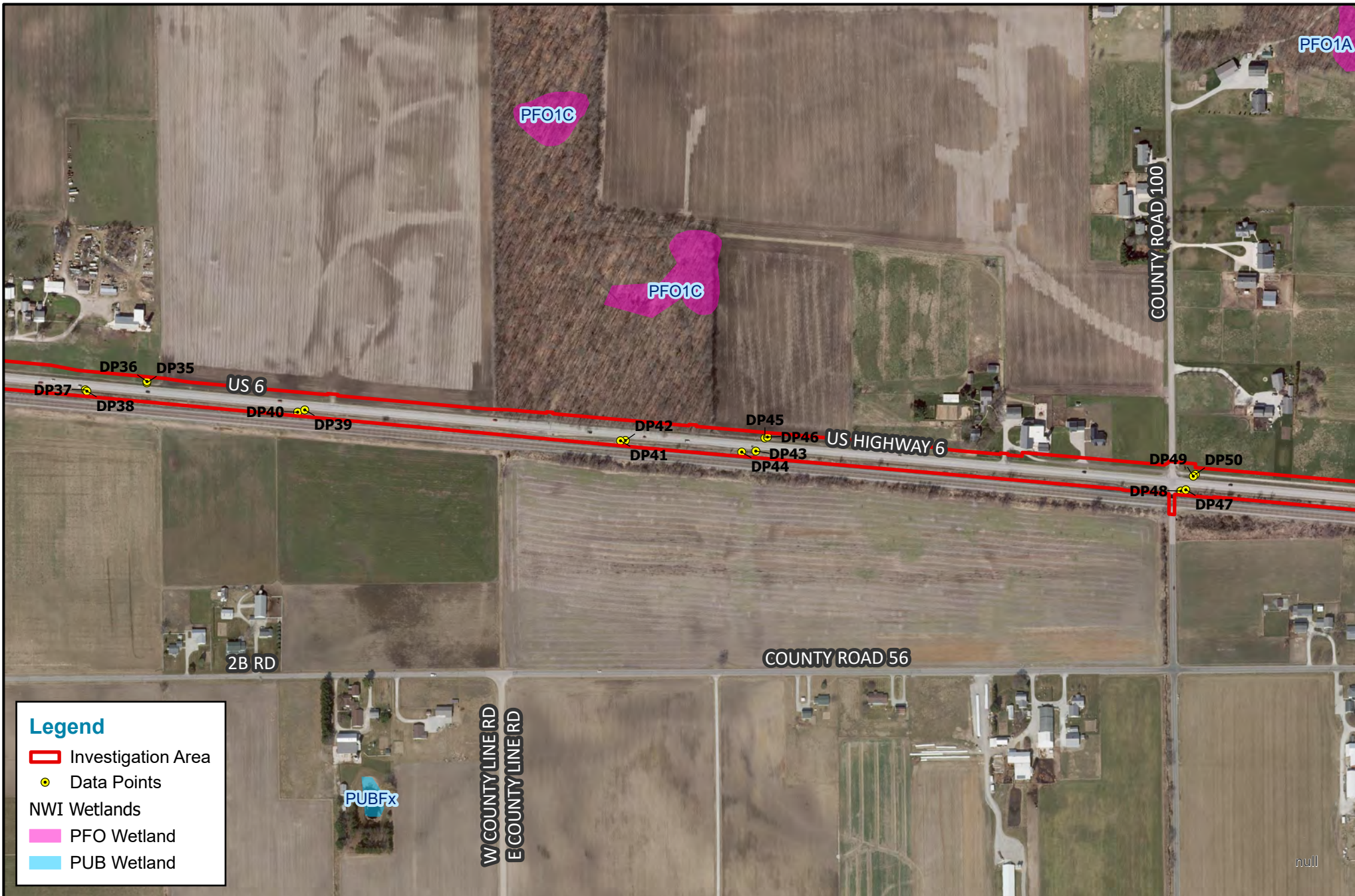


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 Map Source(s): USFWS National Wetland Inventory (2022)

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**Legend**

- Investigation Area
- Data Points
- NWI Wetlands
- PFO Wetland
- PUB Wetland

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Waters of the U.S. Report

0      300      600  
Feet

N

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Map Source(s): USFWS National Wetland Inventory (2022)

**Page 5 of 6**



**Legend**


- Investigation Area
- Data Points
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- PFO Wetland
- PUB Wetland



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**USFWS NWI Map**  
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0      300      600  
 Feet



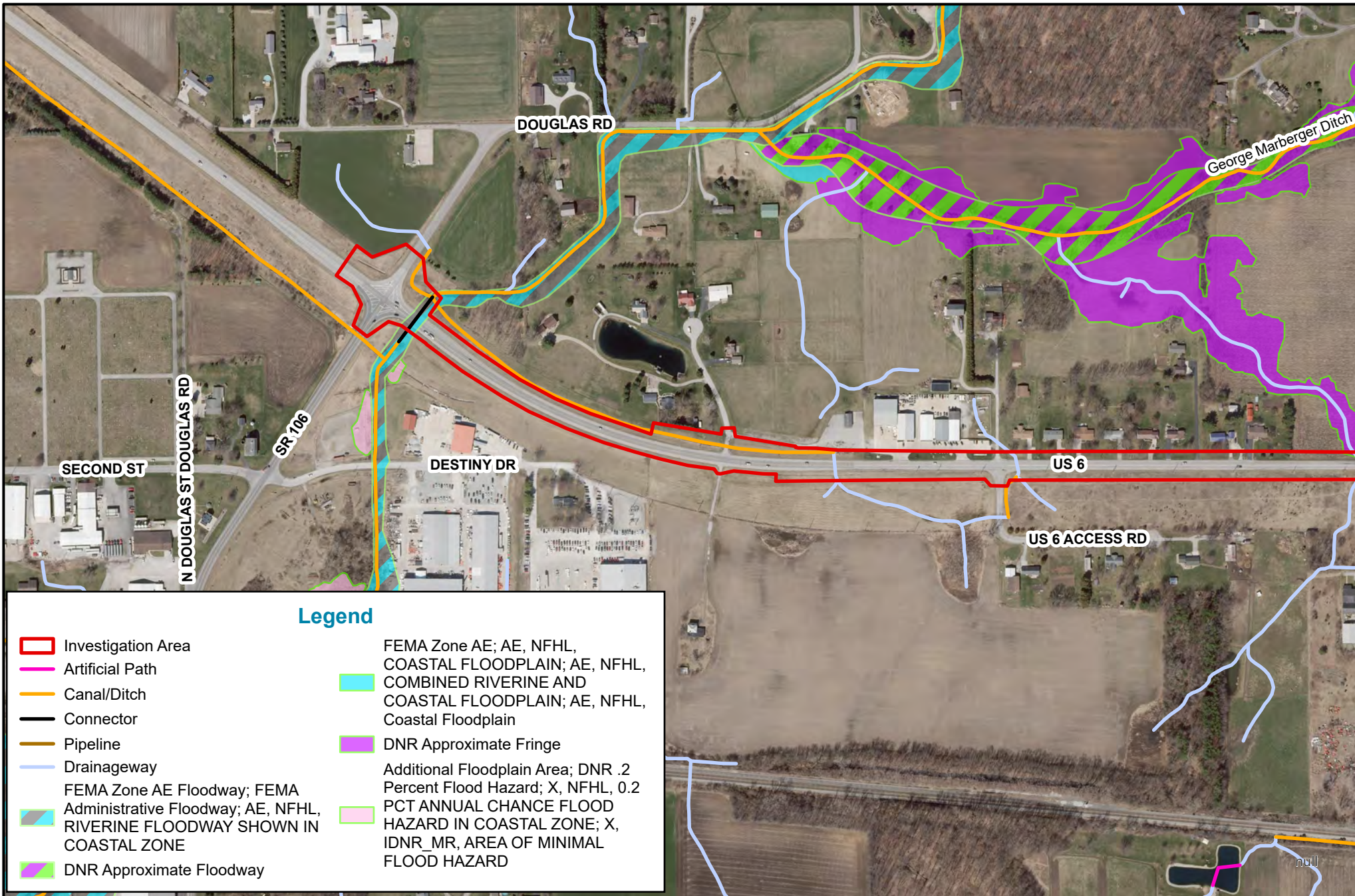
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HMA Overlay & Shoulder Rehabilitation  
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 Created: 4/5/2024, CKunkel

Aerial Source: 2021 Indiana Current Imagery  
 Map Source(s): USFWS National Wetland  
 Inventory (2022)

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**BA Flood Hazard & NHD Line Map**  
**Des. No. 1702997 & 2001886**  
**Waters of the U.S. Report**

0 300 600 Feet

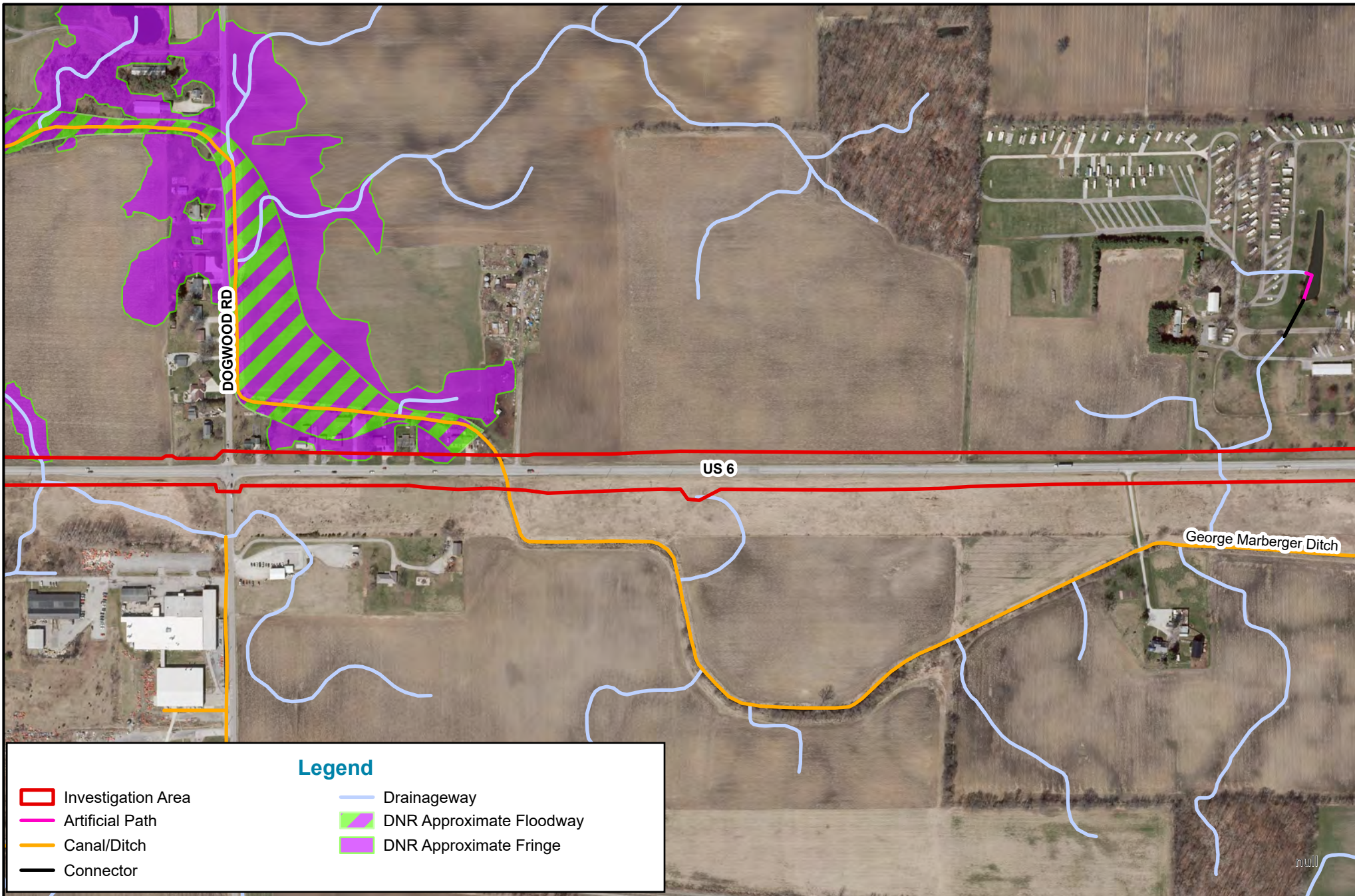
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County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 4/5/2024, CKunkel

Aerial Source: 2021 Indiana Current Imagery  
 Map Source(s): IDNR - Division of Water Best Available Flood Hazard Data, USGS National Hydrologic Dataset

**Page 1 of 6**



**Legend**

- Investigation Area
- Artificial Path
- Canal/Ditch
- Connector
- Drainageway
- DNR Approximate Floodway
- DNR Approximate Fringe

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**BA Flood Hazard & NHD Line Map**  
**Des. No. 1702997 & 2001886**  
**Waters of the U.S. Report**

0      300      600  
 Feet

County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 4/5/2024, CKunkel

Aerial Source: 2021 Indiana Current Imagery  
 Map Source(s): IDNR - Division of Water Best Available Flood Hazard Data, USGS National Hydrologic Dataset

**Page 2 of 6**



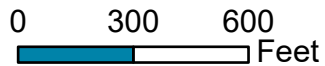
**Legend**

- Investigation Area
- Artificial Path
- Canal/Ditch
- Connector
- Drainageway



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**BA Flood Hazard & NHD Line Map**  
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 Waters of the U.S. Report



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HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 4/5/2024, CKunkel

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 Map Source(s): IDNR - Division of Water Best Available Flood Hazard Data, USGS National Hydrologic Dataset



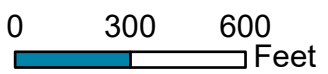
**Legend**

- Investigation Area
- Canal/Ditch
- Connector
- Drainageway



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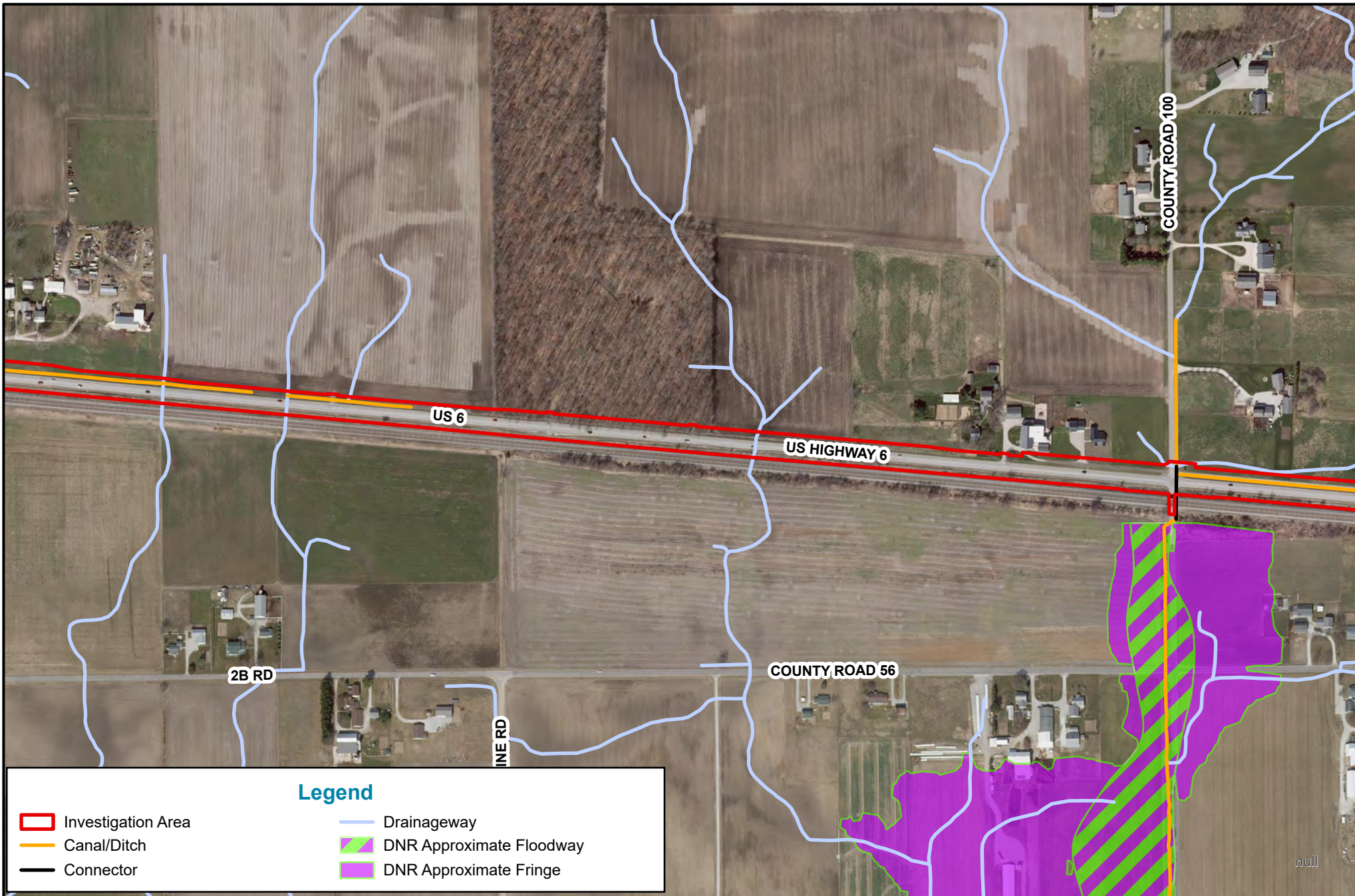
**BA Flood Hazard & NHD Line Map**  
 Des. No. 1702997 & 2001886  
 Waters of the U.S. Report



County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 4/5/2024, CKunkel

Aerial Source: 2021 Indiana Current Imagery  
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**Legend**

- Investigation Area
- Canal/Ditch
- Connector
- Drainageway
- DNR Approximate Floodway
- DNR Approximate Fringe

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**BA Flood Hazard & NHD Line Map**  
**Des. No. 1702997 & 2001886**  
**Waters of the U.S. Report**

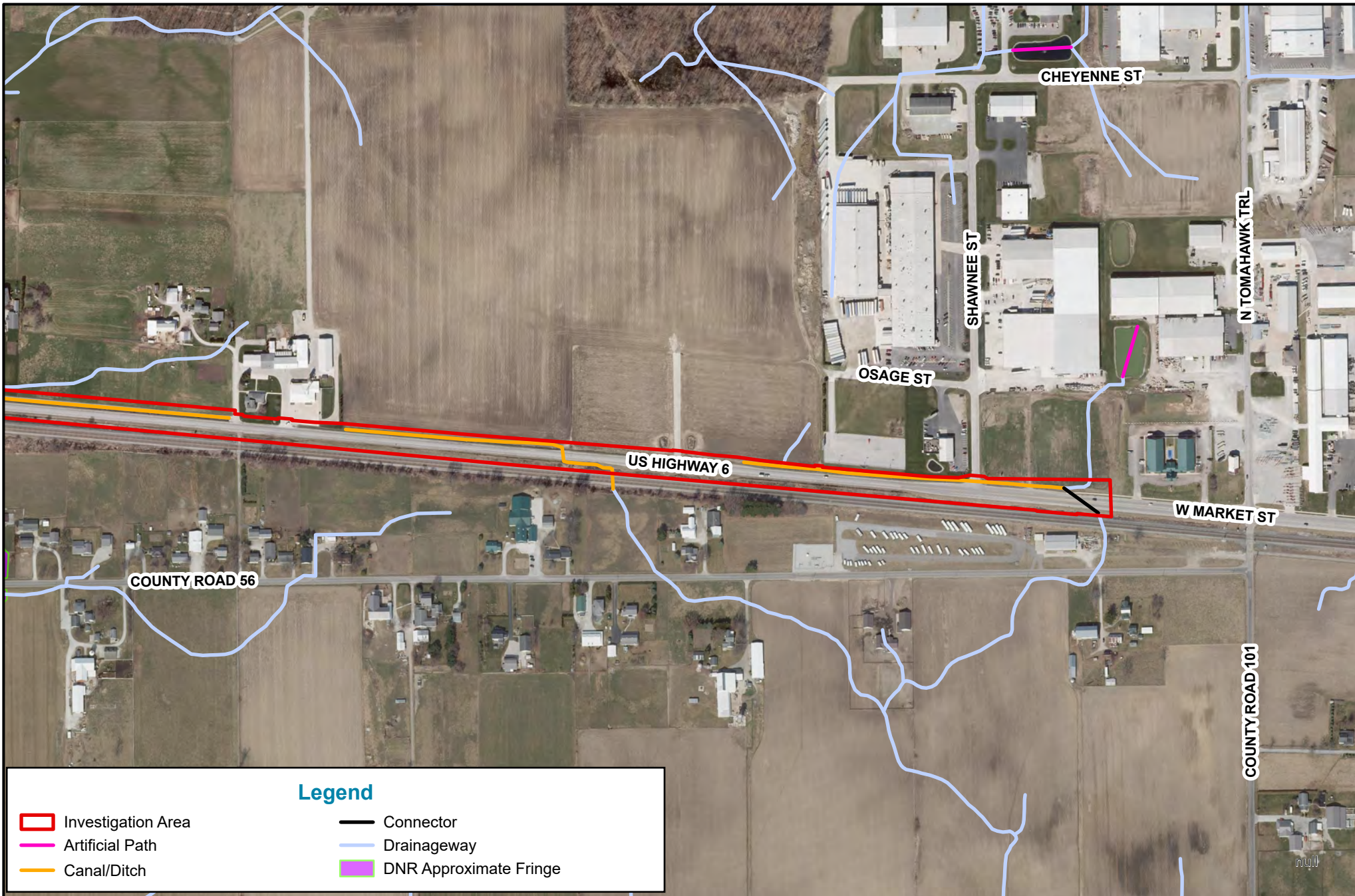
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 Feet

County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 4/5/2024, CKunkel

Aerial Source: 2021 Indiana Current Imagery  
 Map Source(s): IDNR - Division of Water Best Available Flood Hazard Data, USGS National Hydrologic Dataset

**Page 5 of 6**



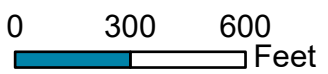
**Legend**

- Investigation Area
- Artificial Path
- Canal/Ditch
- Connector
- Drainageway
- DNR Approximate Fringe



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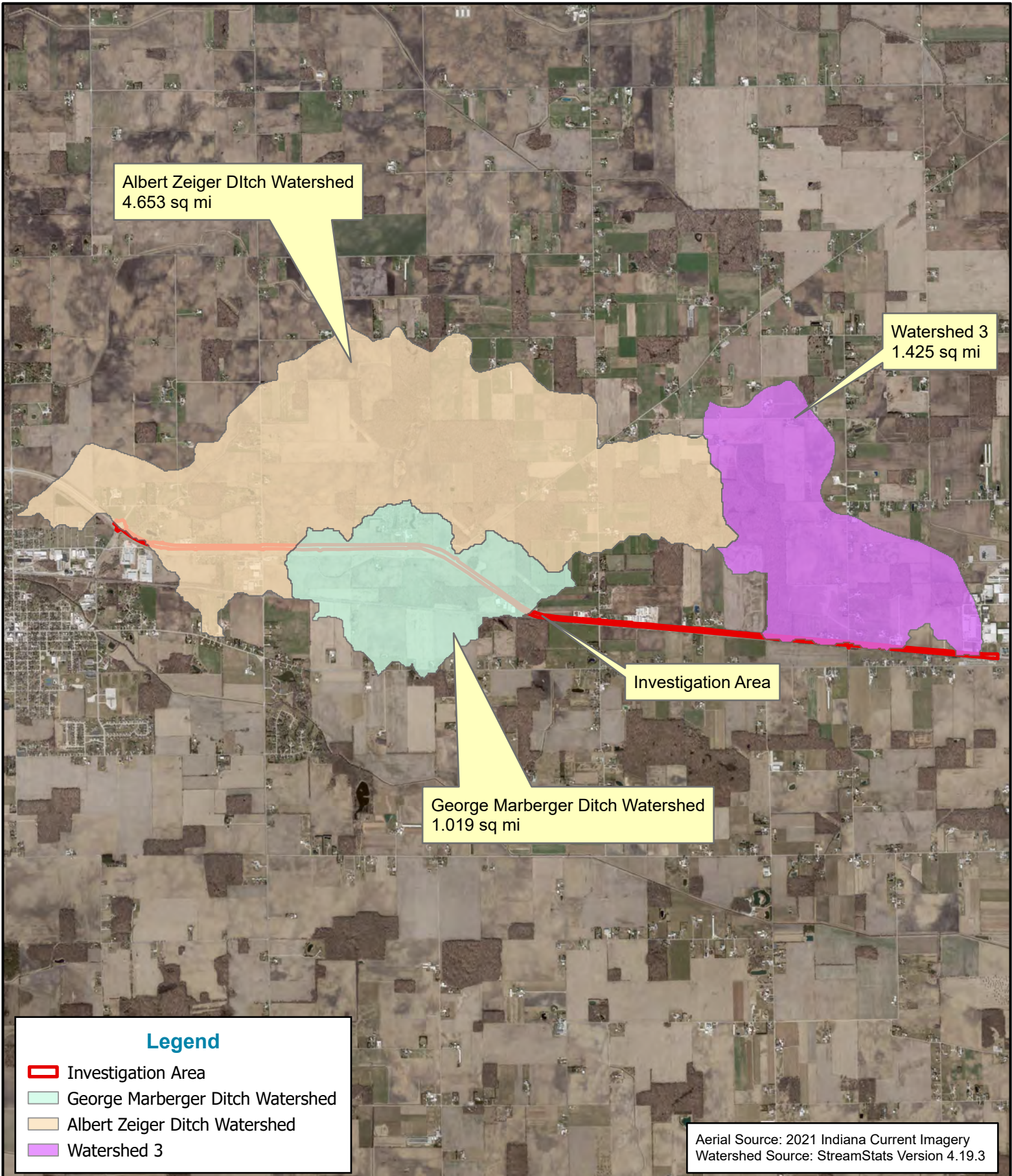
**BA Flood Hazard & NHD Line Map**  
**Des. No. 1702997 & 2001886**  
**Waters of the U.S. Report**



County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

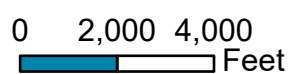
HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 4/5/2024, CKunkel

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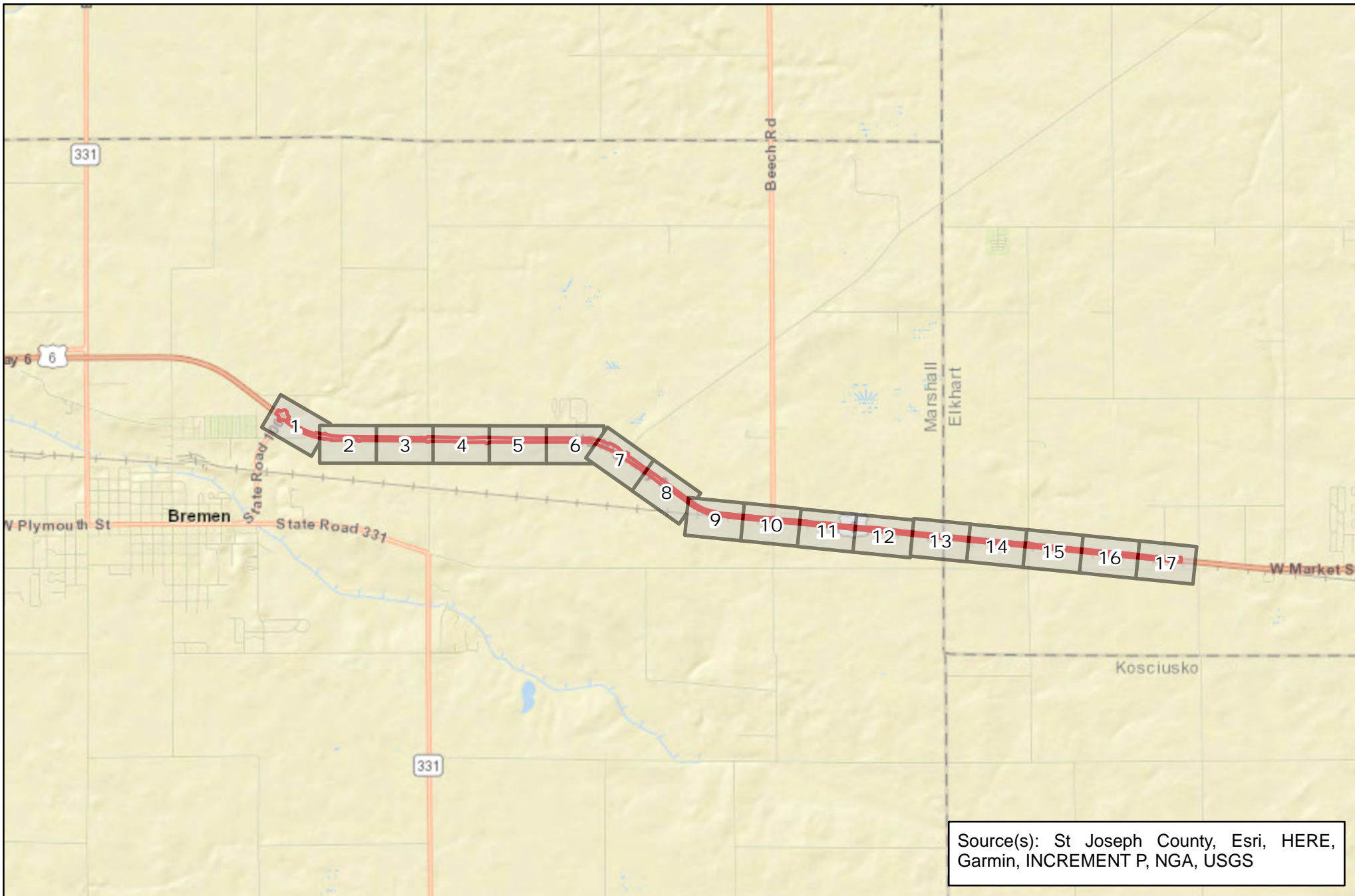
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**StreamStats Watershed Map**  
Des. No. 1702997 & 2001886  
Waters of the U.S. Report



County: Marshall and Elkhart  
Township: German and Locke  
State: Indiana

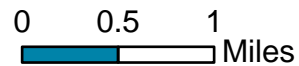
HMA Overlay & Shoulder Rehabilitation  
US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
Created: 4/5/2024, CKunkel



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**Water Resources & Photo Index Map**



**Des. No. 1702297 & 2001886  
 Waters of the U.S. Report**



County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 12/15/2023, CKunkel

**Legend**

-  Map Viewshed
-  Investigation Area



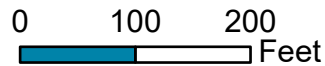
**Legend**

- Data Points
- ▲ OHHM
- ▶ Streams
- Investigation Area
- Wetland
- Roadside Ditches



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**Water Resources Map**  
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 Waters of the U.S. Report



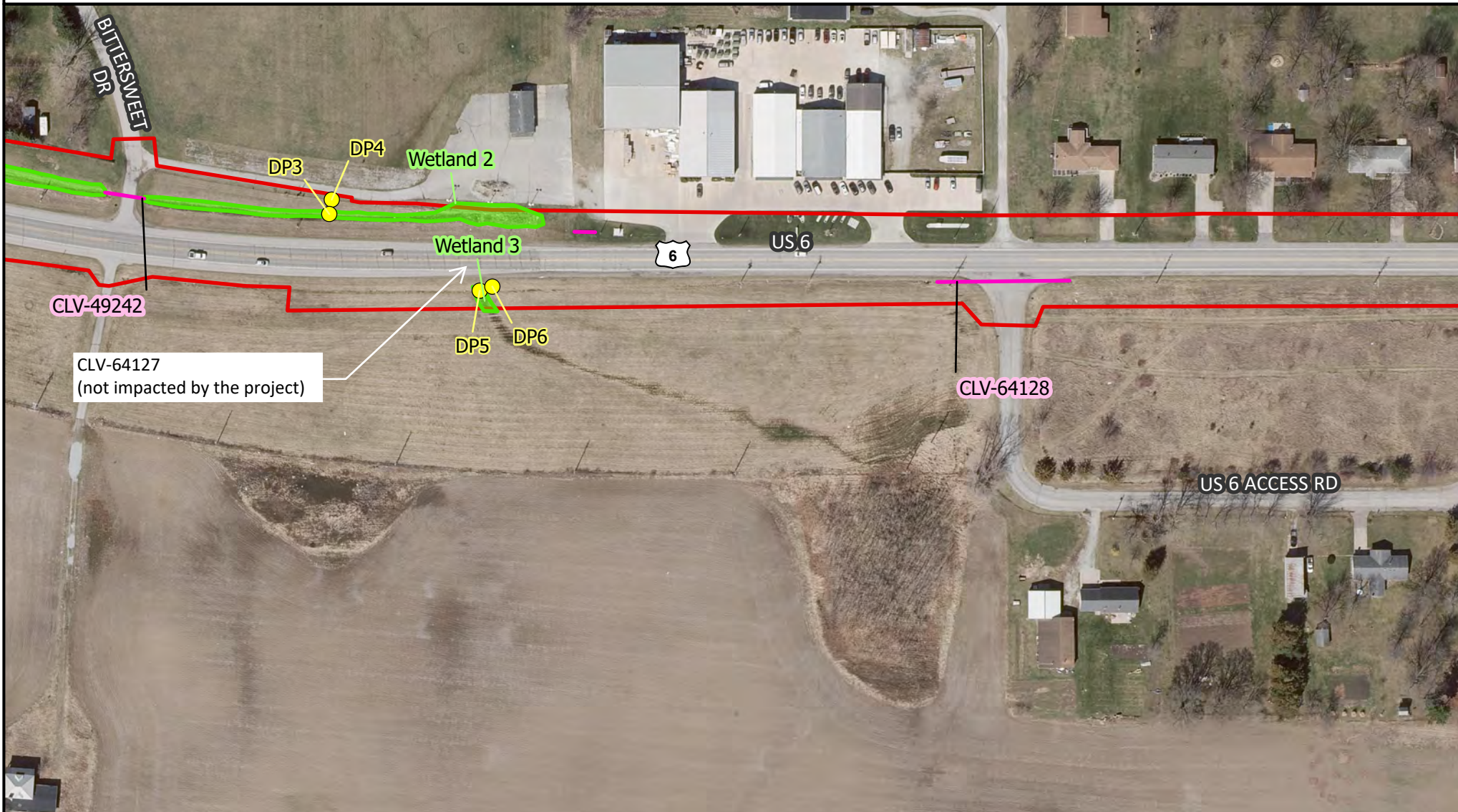
County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 4/4/2024, RWeaver

Aerial Source: 2021 Indiana Current Imagery  
 Map Source(s): ESRI, USDA Farm Service Agency, Microsoft

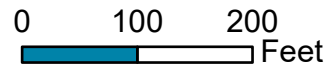
**Legend**

- Data Points
- Impacted Structures
- Investigation Area
- Wetland



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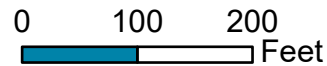
**Legend**

- Data Points
- Impacted Structures
- Investigation Area



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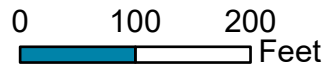
Legend

- Roadside Ditches
- Impacted Structures
- Investigation Area



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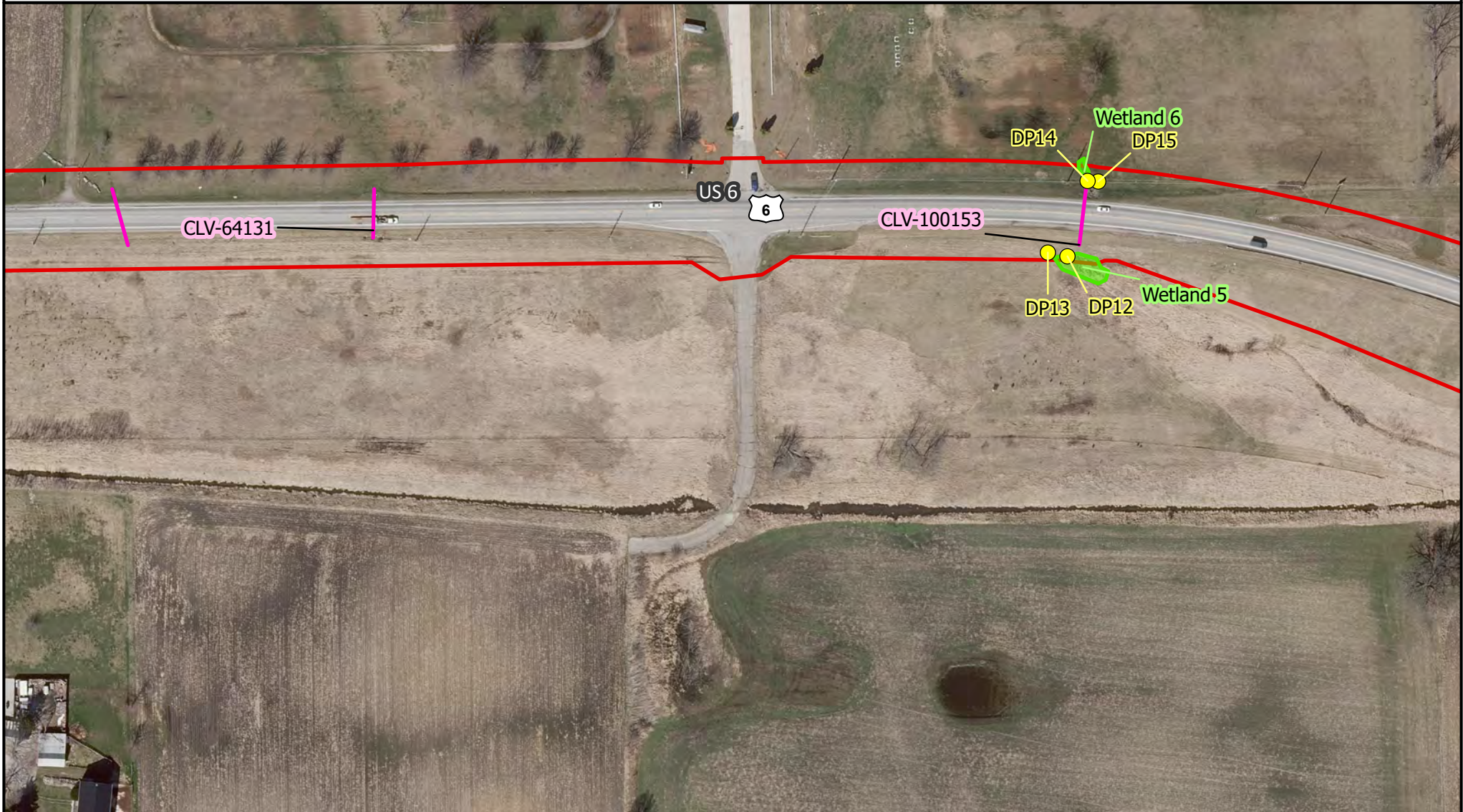
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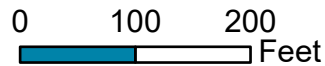
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**Legend**



OHWM



Streams



Investigation Area

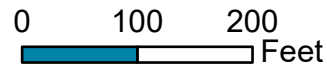


Impacted Structures



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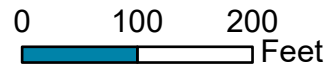
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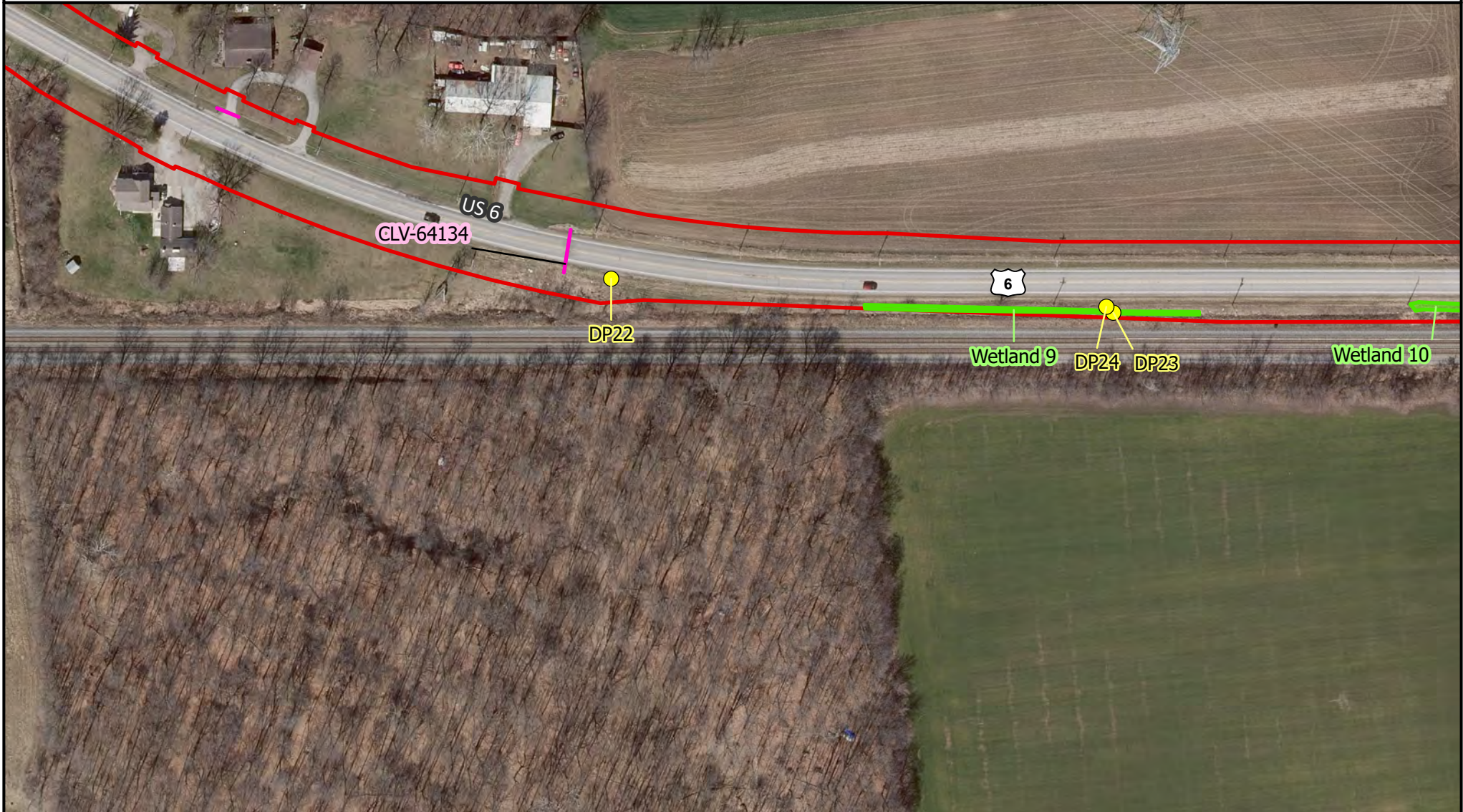
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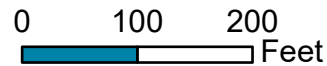
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Aerial Source: 2021 Indiana Current Imagery  
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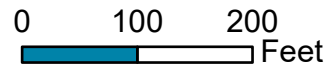
**Legend**

- Data Points
- Impacted Structures
- Investigation Area
- Wetland



112 West Jefferson Blvd., Suite 500  
 South Bend, IN 46601  
 Phone: (574) 334-5460

**Water Resources Map**  
 Des. No. 1702997 & 2001886  
 Waters of the U.S. Report



County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana

HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 4/4/2024, RWeaver

Aerial Source: 2021 Indiana Current Imagery  
 Map Source(s): ESRI, USDA Farm Service Agency, Microsoft

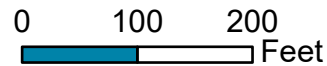
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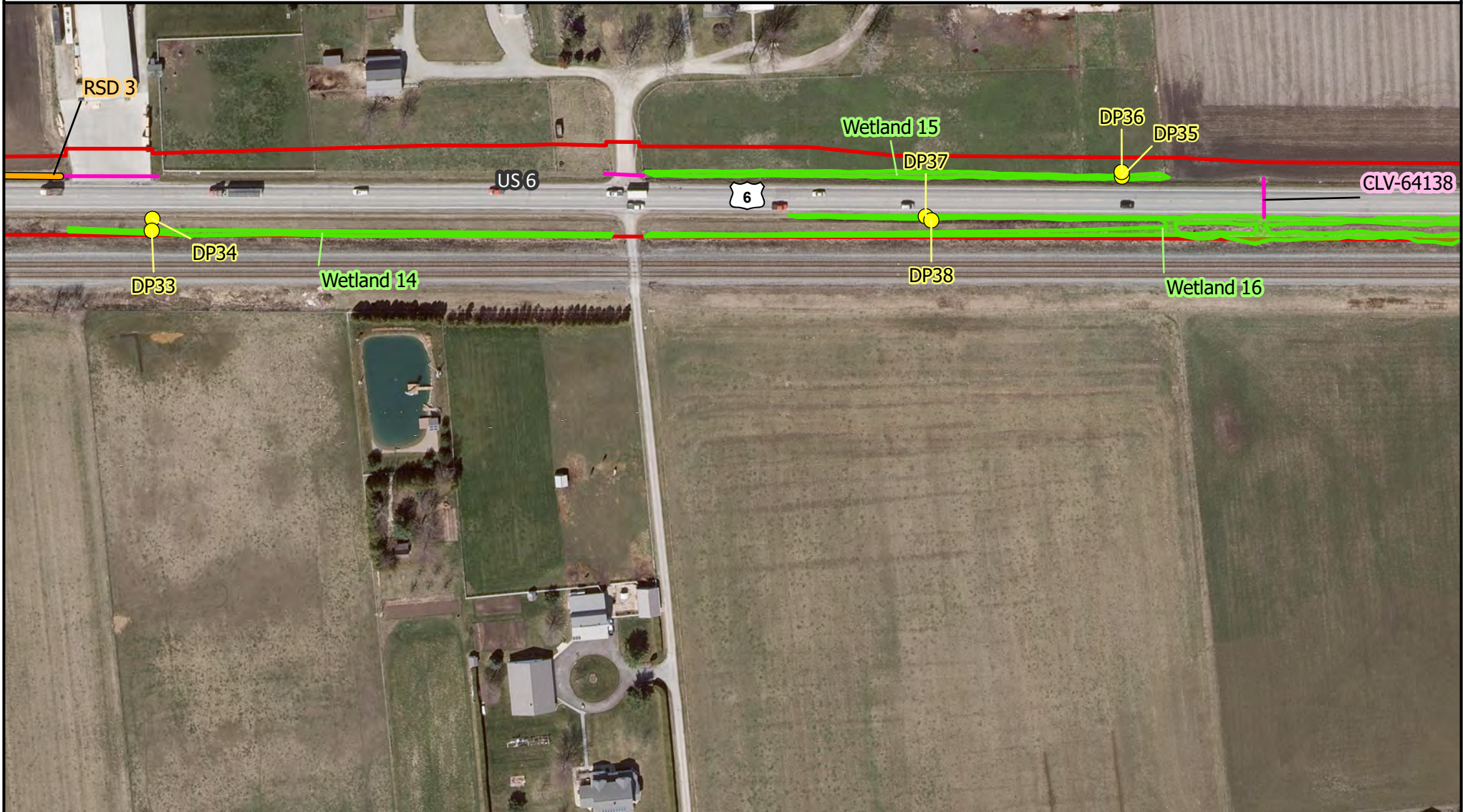
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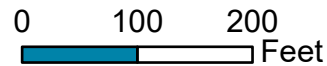
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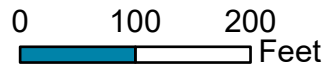
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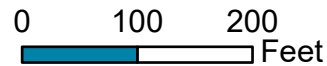
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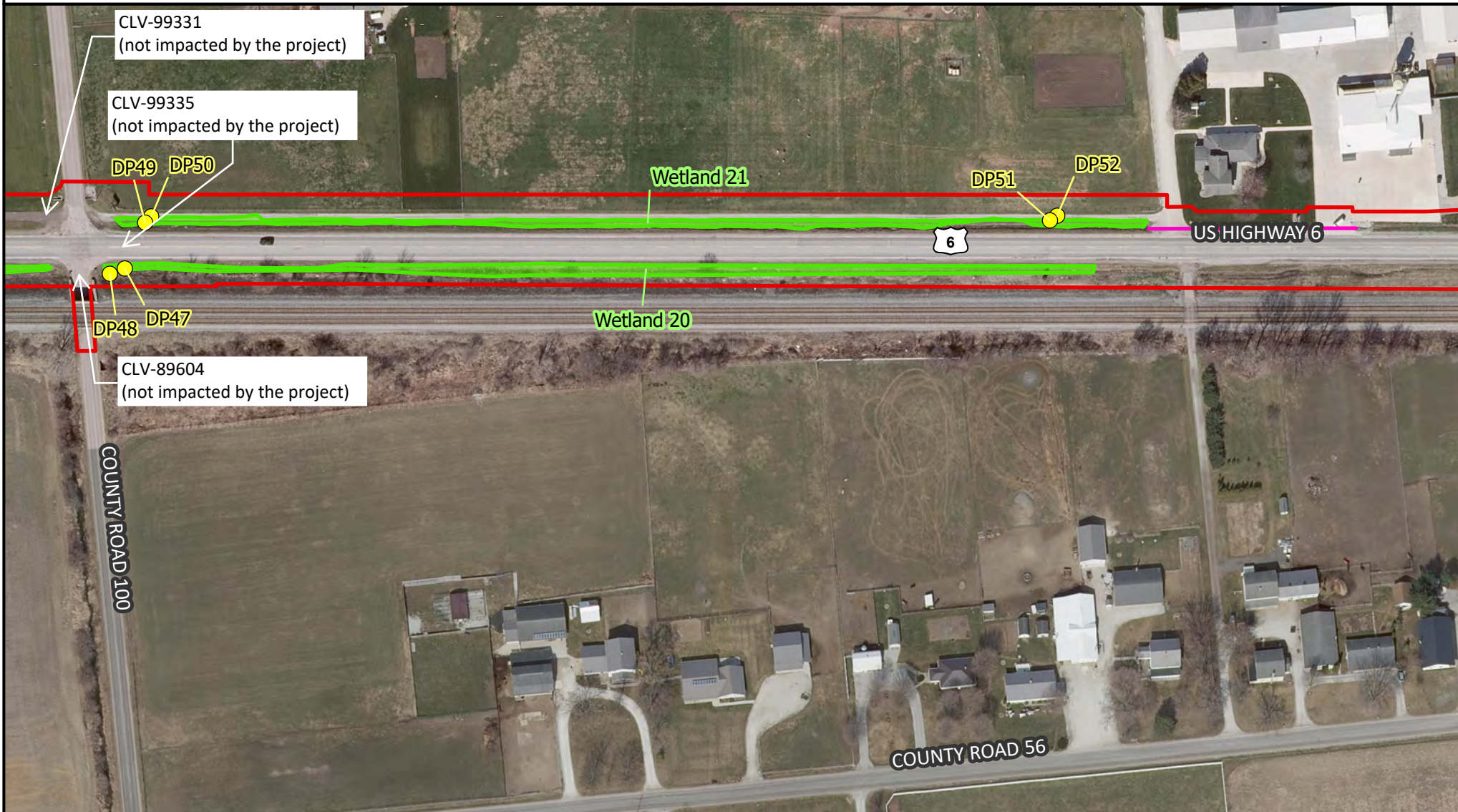
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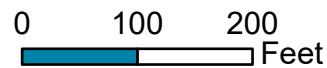
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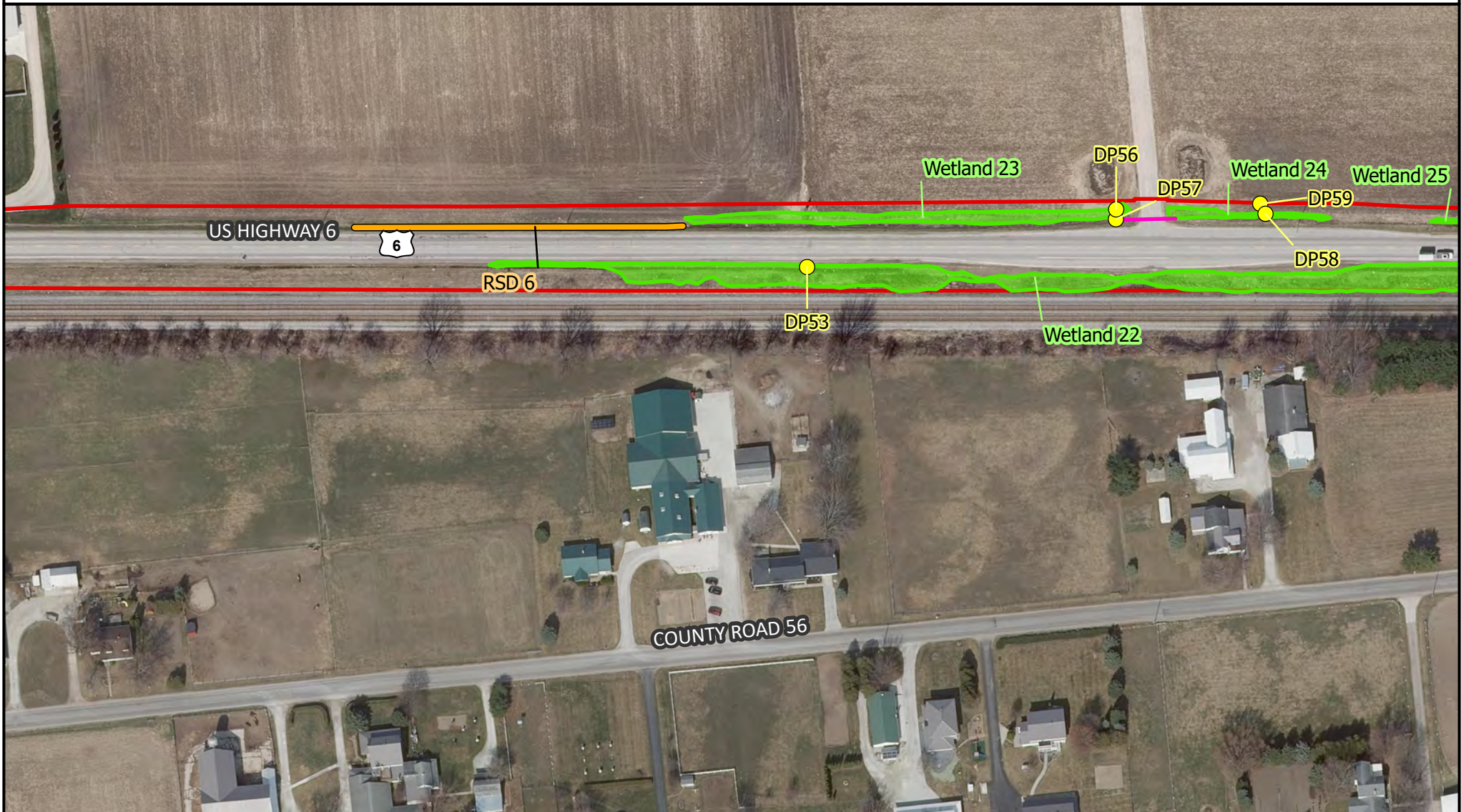
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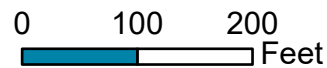
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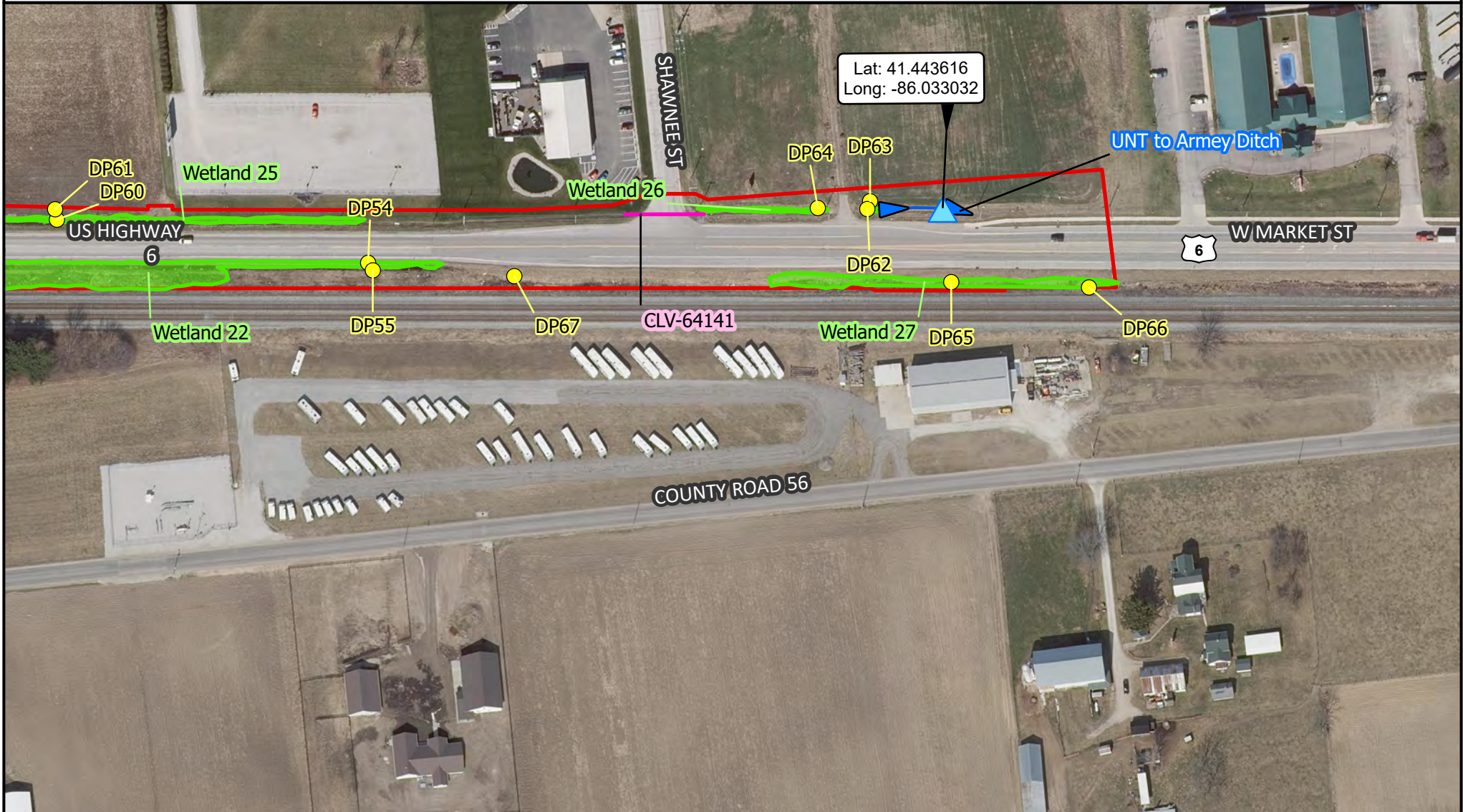
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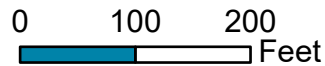
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**Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM**

**BACKGROUND INFORMATION**

**A. REPORT COMPLETION DATE FOR PJD:** 4/5/2024

**B. NAME AND ADDRESS OF PERSON REQUESTING PJD:** Chris Kunkel, 3502 Woodview Trce # 150, Indianapolis, IN 46268

**C. DISTRICT OFFICE, FILE NAME, AND NUMBER:**

**D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:**

The proposed project involves the application of a new hot mix asphalt overlay along US 6 from the east junction of SR 106 to 2.03 miles west of SR 19 within eastern Marshall County and southwestern Elkhart County (Des. No. 2001886). Approximately 1.5 inches of the existing pavement will be milled and an HMA overlay will be applied. The project also involves widening the shoulders from approximately 0.40 mile east of the east junction of SR 106 to 2.03 miles west of SR 19 (Des. No. 1702997). The existing shoulder, which is approximately 2 feet along the entire length of this stretch of US 6, will be widened to 8 feet to accommodate horse-drawn carriages and bicyclists in the area. Three streams and 27 wetlands were identified within the investigation area.

**(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)**

State: **IN** County/parish/borough: **Marshall & Elkhart** City: **Nappanee**

Center coordinates of site (lat/long in degree decimal format):

Lat.: **41.449785** Long.: **-86.091013**

Universal Transverse Mercator: **4586747.71N, 571571.71E, 16T**

Name of nearest waterbody: **George Marberger Ditch**

**E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):**

Office (Desk) Determination. Date:

Field Determination. Date(s):

**TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH “MAY BE” SUBJECT TO REGULATORY JURISDICTION (Cont.)**

Site Number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource “may be” subject (i.e., Section 404 or Section 10/404)
Albert Zeiger Ditch	41.455709	-86.133355	187 linear (0.05 acre)	Non-wetland	Section 404
George Marberger Ditch	41.672872	-86.568644	336 linear feet (0.07 acre)	Non-wetland	Section 404
UNT to Arme y Ditch	41.672326	-86.542601	99 linear feet (<0.01 acre)	Non-wetland	Section 404
Wetland 1	41.456111	-86.133884	0.03 acre	Wetland	Section 404
Wetland 2	41.453964	-86.128354	0.21 acre	Wetland	Section 404
Wetland 3	41.453718	-86.127683	0.008 acre	Wetland	Section 404
Wetland 4	41.453610	-86.115839	0.101 acre	Wetland	Section 404
Wetland 5	41.453515	-86.099445	0.009 acre	Wetland	Section 404
Wetland 6	41.453758	-86.099345	0.004 acre	Wetland	Section 404
Wetland 7	41.449919	-86.090901	0.016 acre	Wetland	Section 404
Wetland 8	41.448583	-86.088101	0.011 acre	Wetland	Section 404
Wetland 9	41.447135	-86.083346	0.036 acre	Wetland	Section 404
Wetland 10	41.447007	-86.081657	0.066 acre	Wetland	Section 404
Wetland 11	41.446585	-86.075677	0.18 acre	Wetland	Section 404
Wetland 12	41.446390	-86.072715	0.34 acre	Wetland	Section 404
Wetland 13	41.446569	-86.072803	0.081 acre	Wetland	Section 404
Wetland 14	41.446050	-86.068536	0.072 acre	Wetland	Section 404
Wetland 15	41.445921	-86.064242	0.082 acre	Wetland	Section 404
Wetland 16	41.445849	-86.065123	0.279 acre	Wetland	Section 404
Wetland 17	41.445235	-86.057417	0.014 acre	Wetland	Section 404
Wetland 18	41.445106	-86.055555	0.027 acre	Wetland	Section 404
Wetland 19	41.445261	-86.055422	0.009 acre	Wetland	Section 404
Wetland 20	41.444639	-86.049420	0.287 acre	Wetland	Section 404
Wetland 21	41.444785	-86.049311	0.184 acre	Wetland	Section 404
Wetland 22	41.443636	-86.033364	0.746 acre	Wetland	Section 404
Wetland 23	41.444034	-86.038643	0.134 acre	Wetland	Section 404
Wetland 24	41.443970	-86.037987	0.028 acre	Wetland	Section 404
Wetland 25	41.443866	-86.036935	0.051 acre	Wetland	Section 404
Wetland 26	41.44363	-86.033364	0.015 acre	Wetland	Section 404
Wetland 27	41.443389	-86.033022	0.097 acre	Wetland	Section 404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring “pre-construction notification” (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant’s acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there “*may be*” waters of the U.S. and/or that there “*may be*” navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

**SUPPORTING DATA. Data reviewed for PJD (check all that apply)**

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:  
Map: Aerial, USGS Topo, NWI, NRCS Soils, USGS StreamStats, IDNR BAFHA and Water Resources
- Data sheets prepared/submitted by or on behalf of the PJD requestor.
  - Office concurs with data sheets/delineation report.
  - Office does not concur with data sheets/delineation report. Rationale: \_\_\_\_\_
- Data sheets prepared by the Corps: \_\_\_\_\_
- Corps navigable waters' study: \_\_\_\_\_
- U.S. Geological Survey Hydrologic Atlas: NHD and Watersheds courtesy of Indiana GIO
  - USGS NHD data.
  - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: USGS • Bremen and Nappanee West Quadrangles 1:24,000
- Natural Resources Conservation Service Soil Survey. Citation: 2020 COUNTY SSURGO
- National wetlands inventory map(s). Cite name: USFWS NWI Wetlands
- State/local wetland inventory map(s): \_\_\_\_\_
- FEMA/FIRM maps: IDNR Best Available Flood Hazard and NHD Line Map
- 100-year Floodplain Elevation is: 811.7 (National Geodetic Vertical Datum of 1929)
- Photographs:  Aerial (Name & Date): 2021 Indiana Best Available  
or  Other (Name & Date): June 28 & 29, 2022 and June 5, 6 & 7 and December 11, 2023
- Previous determination(s). File no. and date of response letter: \_\_\_\_\_
- Other information (please specify): \_\_\_\_\_

**IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.**

\_\_\_\_\_  
Signature and date of  
Regulatory staff member  
completing PJD

Chris Kunkel 4/5/2024  
\_\_\_\_\_  
Signature and date of  
person requesting PJD  
(REQUIRED, unless obtaining  
the signature is impracticable)<sup>1</sup>

<sup>1</sup> Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

**Categorical Exclusion**  
**Appendix G**  
**Public Involvement**



March 11, 2022

Sample Notice of Survey

## NOTICE OF SURVEY

RE: U.S. 6 HMA Overlay, Minor Structural, From S.R. 106 east junction to 2.03 miles west of S.R. 19 in Elkhart and Marshall Counties, Indiana  
Loch Group Project No.: 121-3035-00H  
INDOT Des. #2001886.

Dear Property Owner:

Research of county records indicates that you own or occupy property(s) near this proposed HMA Overlay project. Our employees will be doing a survey of the project area(s) in the near future. It may be necessary for them to come onto your property to complete this work. These procedures are allowed by Indiana Code IC 8-23-7-26. If you are available, our surveyors will show identification before coming onto your property. If you have sold this property, or it is occupied by someone else, please advise us of the name and address of the current owner/occupant so that we may contact them about the survey.

At this stage we 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.

The survey work will include mapping the location of features such as buildings, trees, fences and drives, as well as obtaining ground elevations. The survey work may include the identification and mapping of wetlands and streams, and various other environmental features. This work is necessary for the proper planning and design of this proposed HMA Overlay project.

Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If any problems do occur, please contact our field crew or call me at **(812-479-6200)**, email me at [ssuttles@lochgroup.com](mailto:ssuttles@lochgroup.com) or write to me at the above address. Thank you in advance for your cooperation.

Sincerely yours,

**LOCHMUELLER GROUP, INC.**

Sean L. Suttles, P.S.  
Chief of Surveying



February 8, 2023

Sample Notice of Survey

## NOTICE OF SURVEY

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Sincerely yours,

**LOCHMUELLER GROUP, INC.**

Sean L. Suttles, P.S.  
Chief of Surveying



**Categorical Exclusion**  
**Appendix H**  
**Air Quality**

Sponsor	DES	Contract	Resolution	Route	Location	Work Type	Fund Type	Phase	Federal	Match	SFY 2024	SFY 2025	SFY 2026	SFY 2027	SFY 2028	Estimated Total Project Cost	Letting
Culver	1802913	R-42066			Lake Max Trail Phase III, from Academy Rd to West of Town Limits	Bike/Pedestrian Facilities	ST TAP	CN	\$698,000	\$174,500		\$872,500				\$952,500	7/10/2024
Culver	2001807	R-43202			Slate St, Jefferson St, and Cass St Trail	Bike/Pedestrian Facilities	ST TAP	CN	\$230,400	\$57,600		\$288,000				\$300,000	7/10/2024
Marshall Co.	1902809	B-42825			Bridge #11 Union Rd over Pine Creek	Bridge Replacement	ST Bridge	CN	\$1,096,960	\$274,240	\$1,371,200					\$1,759,250	12/13/2023
Marshall Co.	1902820	B-42826			Bridge #232 Randolph Dr over Yellow River	Bridge Replacement	ST Bridge	RW	\$30,080	\$7,520	\$37,600					\$3,447,100	12/11/2024
Marshall Co.	1902820	B-42826			Bridge #232 Randolph Dr over Yellow River	Bridge Replacement	ST Bridge	CN	\$2,727,600	\$681,900	\$150,000	\$3,259,500				\$3,447,100	12/11/2024
Marshall Co.	2101698	B-44305			Bridge #231 Carrying Center St over Armeiy Ditch in Bremen	Bridge Replacement	ST Bridge	RW	\$220,000	\$55,000	\$275,000					\$3,100,560	2/10/2027
Marshall Co.	2101698	B-44305			Bridge #231 Carrying Center St over Armeiy Ditch in Bremen	Bridge Replacement	ST Bridge	CN	\$1,892,000	\$473,000				\$2,365,000		\$3,100,560	2/10/2027
Marshall Co.	2201676				Bridge #88 - West 12th Road over Yellow River	Bridge Replacement	ST Bridge	PE	\$400,000	\$100,000	\$500,000					\$4,354,000	2028
Marshall Co.	2201676				Bridge #88 - West 12th Road over Yellow River	Bridge Replacement	ST Bridge	RW	\$56,000	\$14,000			\$70,000			\$4,354,000	2028
Marshall Co.	2201676				Bridge #88 - West 12th Road over Yellow River	Bridge Replacement	ST Bridge	CN	\$3,027,200	\$756,800					\$3,784,000	\$4,354,000	2028
Plymouth	2101317	R-44096			Greenways Trail, Phase III - North in River Square Park to pedestrian bridge across from River Gate South	Bike/Pedestrian Facilities	ST TAP	CN	\$212,000	\$53,000		\$265,000				\$379,869	3/12/2025
Argos	2101288	R-44084			New Sidewalk/Trail in the Town of Argos - Marshall Street, Walnut Street, Michigan Street	Bike/Pedestrian Facilities	ST TAP	RW	\$48,000	\$12,000	\$60,000					\$919,830	1/15/2025
Argos	2101288	R-44084			New Sidewalk/Trail in the Town of Argos - Marshall Street, Walnut Street, Michigan Street	Bike/Pedestrian Facilities	ST TAP	CN	\$544,000	\$136,000		\$680,000				\$919,830	1/15/2025
Bourbon	2101300	R-44090			Sidewalks in Various Locations within the Town of Bourbon	Bike/Pedestrian Facilities	ST TAP	CN	\$300,000	\$75,000		\$375,000				\$499,300	7/10/2024
La Paz	2101238	R-44075			Michigan Street from Walnut Street to Vintage Street	Bike/Pedestrian Facilities	ST TAP	CN	\$88,000	\$22,000		\$110,000				\$165,000	8/14/2024
INDOT	1802051	T-41777		US 31	US 31 at SR 10	New Interchange Construction	NHPP	RW	\$400,000	\$100,000	\$500,000					\$78,351,508	9/15/2027
INDOT	1802051	T-41777		US 31	US 31 at SR 10	New Interchange Construction	NHPP	CN	\$20,000,000	\$5,000,000				\$25,000,000		\$78,351,508	9/15/2027
INDOT	1900005	B-42437		SR 10	SR 10 at Deer Creek, 2.39 mi W of SR 331	Bridge Replacement	ST STBG	RW	\$12,000	\$3,000	\$15,000					\$1,110,148	12/13/2023
INDOT	1900005	B-42437		SR 10	SR 10 at Deer Creek, 2.39 mi W of SR 331	Bridge Replacement	ST STBG	CN	\$617,742	\$154,436	\$772,178					\$1,110,148	12/13/2023
INDOT	1900033	B-42448		US 6	US 6 at CSX RR, 0.38 mi E of SR 106	Replace Superstructure	NHPP	CN	\$1,562,814	\$390,703	\$1,953,517					\$2,441,924	11/15/2023
INDOT	2000611	R-43040		SR 10	SR 10 from SR 117 to US 31	HMA Overlay, Preventative Maintenance	ST STBG	CN	\$2,850,863	\$712,716	\$3,563,579					\$5,262,318	11/15/2023
INDOT	2000615	R-43040		SR 10	SR 10 from SR 17 E. Jct. to SR 117	HMA Overlay, Preventative Maintenance	ST STBG	CN	\$399,965	\$99,991	\$499,956					\$709,956	11/15/2023
INDOT	2001886	R-43381		US 6	US 6 from the E Jct. of SR 106 to 2.03 miles W of SR 19 (Shawnee Dr)	HMA Overlay, Minor Structural	NHPP	CN	\$2,426,300	\$606,575	\$400,000	\$2,632,875				\$3,862,079	9/11/2024
INDOT	2001887	R-43380		SR 10	SR 10 from .59 mi E of US 31 (Juniper Rd) to SR 19	HMA Overlay, Minor Structural	ST STBG	CN	\$4,870,795	\$1,217,699		\$6,088,494				\$6,198,494	7/10/2024
INDOT	2100234	R-43880		SR 17	SR 17, E Jct of SR 10 to SR 8	HMA Overlay, Minor Structural	ST STBG	CN	\$2,211,690	\$552,923	\$11,000	\$321,000	\$2,432,613			\$3,121,613	10/8/2025
INDOT	2100230	R-43880		SR 10	SR 10, W Jct of SR 17 to E Jct of SR 17	HMA Overlay, Minor Structural	ST STBG	CN	\$488,011	\$122,003	\$4,000	\$4,000	\$602,014			\$718,014	10/8/2025
INDOT	2100225	R-43901		US 30	US 30, 2.74 Miles E of US 35 to 9.5 Miles E of US 35 (Union Rd)	HMA Overlay, Minor Structural	NHPP	CN	\$9,236,381	\$2,309,095	\$5,000	\$5,000	\$11,535,476			\$11,795,476	10/8/2025

INDOT	1702997			US 6	US 6 from SR 106 Dogwood to Shawnee Drive	Shoulder Rehabilitation	NHPP	CN	\$4,718,400	\$1,179,600	\$40,000	\$240,000	\$5,618,000		\$6,664,984	2026
INDOT	2200482	T-41777		US 31	US 31, 1.47 Miles South of SR 110 to 0.31 Miles South of SR 10	Access Control	Safety	RW	\$225,000	\$25,000	\$250,000				\$78,351,508	9/15/2027
INDOT	2200482	T-41777		US 31	US 31, 1.47 Miles South of SR 110 to 0.31 Miles South of SR 10	Access Control	Safety	CN	\$2,354,231	\$588,558	\$50,000			\$2,892,789	\$78,351,508	9/15/2027
INDOT	2201077	R-44684			LaPorte District Safety Systemic - New or Slotted Left Turn	Other Type Project (Miscellaneous)	ST STBG	CN	\$1,592,000	\$398,000				\$1,990,000	\$2,340,000	2027
INDOT	2300274				Electric charging infrastructure at various locations along Indiana interstates	Other Type Project (Miscellaneous)	NEVI	CN	\$50,917,608	\$12,729,402	\$21,215,670	\$21,215,670	\$21,215,670		\$63,647,010	2024-2026

INDOT LaPorte District Grouped Projects								Federal	Match	SFY 2024	SFY 2025	SFY 2026	SFY 2027	SFY 2028	Total
INDOT	LaPorte Grouped Projects				Bridge, Culvert and Small Structure Preservation		ALL	\$ 25,363,277	\$ 6,340,818	\$ 10,026,478	\$ 11,738,863	\$ 4,102,611	\$ 5,836,143	\$ -	\$ 31,704,095
INDOT	LaPorte Grouped Projects				Signing, Marking, Striping and Rumble Strips		ALL	\$ 4,284,840	\$ 646,210	\$ 3,400,000	\$ -	\$ 915,000	\$ 616,050	\$ -	\$ 4,931,050
INDOT	LaPorte Grouped Projects				Traffic Signal System and Lighting Improvements		ALL	\$ 4,081,267	\$ 1,020,317	\$ 1,901,584	\$ 1,600,000	\$ 1,600,000	\$ -	\$ -	\$ 5,101,584
INDOT	LaPorte Grouped Projects				Median Guardrail/Cable Projects with no Change to Access		ALL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
INDOT	LaPorte Grouped Projects				Rail Crossing Protection		ALL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
INDOT	LaPorte Grouped Projects				Statewide and Non-Construction Activities		ALL	\$ 23,530,000	\$ 4,795,000	\$ 3,725,000	\$ 3,300,000	\$ 21,300,000	\$ -	\$ -	\$ 28,325,000

**Federal Transit  
Administration**  
Region V  
200 West Adams St., Suite 320  
Chicago, IL 60606-5253



**U.S. Department  
of Transportation**

**Federal Highway Administration**  
Indiana Division  
575 N. Pennsylvania St., Rm 254  
Indianapolis, IN 46204-1576

September 1, 2023

Mr. Michael Smith  
Commissioner  
Indiana Department of Transportation  
100 N Senate Ave. N955  
Indianapolis, IN 46204

**SUBJECT: Indiana FY2024-2028 STIP Approval and Associated Federal Planning Finding**

Dear Mr. Smith:

The Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) have completed our review of the FY2024-2028 Indiana Statewide Transportation Improvement Program (INSTIP), which was submitted by the Indiana Department of Transportation (INDOT) request letter dated August 23, 2023.

Based on our review of the information provided, certifications of the Statewide and Metropolitan transportation planning processes for and within the state of Indiana, and our participation in those transportation planning processes (including planning certification reviews conducted in Transportation Management Areas), FHWA and FTA are jointly approving the FY2024-2028 STIP, including the Metropolitan Planning Organization (MPO) Transportation Improvement Programs (TIPs) incorporated into the STIP by reference, subject to the corrective actions identified in the attached Federal Planning Finding (FPF) report. FHWA and FTA consider the projects in the 5<sup>th</sup> year for informational purposes only, and our approval does not exceed four years per 23 CFR 450.220(c).

FHWA and FTA are required under 23 CFR 450.220(b) to document and issue an FPF in conjunction with the approval of the FY2024-2028 STIP. At a minimum, the FPF verifies that the development of the STIP is consistent with the provisions of both the Statewide and Metropolitan transportation planning requirements. FHWA and FTA find that the Indiana FY2024-2028 STIP substantially meets the transportation planning requirements and are approving the STIP subject to the corrective actions outlined in the FPF. This approval is effective September 1, 2023 and is given with the understanding that an eligibility determination of individual projects for funding must be met, and INDOT must ensure the satisfaction of all administrative and statutory requirements, as well as address the corrective actions outlined in the attached report.

If you have questions or need additional information concerning our approval and the FPF, please contact Ms. Erica Tait of the FHWA Indiana Division at (317) 226-7481, or by email at [erica.tait@dot.gov](mailto:erica.tait@dot.gov), or Mr. Tony Greep of the FTA Region 5 Office at (312) 353-1646, or by email at [anthony.greep@dot.gov](mailto:anthony.greep@dot.gov).

Sincerely,

**KELLEY  
BROOKINS** Digitally signed by  
KELLEY BROOKINS  
Date: 2023.08.31  
17:33:15 -05'00'

Kelley Brookins  
Regional Administrator  
FTA Region V

Sincerely,

**JERMAINE  
R HANNON** Digitally signed by  
JERMAINE R HANNON  
Date: 2023.09.01  
11:46:31 -04'00'

Jermaine R. Hannon  
Division Administrator  
FHWA Indiana Division



# INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue  
Room N758-Executive Office  
Indianapolis, Indiana 46204

PHONE: (855) 463-6848

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

August 28, 2023

Mr. Jermaine R. Hannon, Division Administrator  
FHWA Indiana Division  
575 North Pennsylvania St., Room 254  
Indianapolis, IN 46204

Ms. Kelley Brookins, Regional Administrator  
FTA Region 5  
200 West Adams St.  
Suite 320  
Chicago, IL 60606-5253

Dear Mr. Hannon /Ms. Brookins:

The Indiana Department of Transportation is pleased to submit its FY 2024-2028 Statewide Transportation Improvement Program (STIP) for review and approval by your offices.

Included in the final submitted document is a listing of the state’s expansion/preservation and local small urban and rural and rural transit projects. The following Metropolitan Planning Organization TIPs will be included in the FY 2024-2028 STIP by reference.

- |   |              |
|---|--------------|
| Area Plan Commission of Tippecanoe County (APCTC)   | FY 2024-2028 |
| • <a href="https://www.tippecanoe.in.gov/DocumentCenter/View/40728/FY-2024-2028-TIP-including-0-amendments">https://www.tippecanoe.in.gov/DocumentCenter/View/40728/FY-2024-2028-TIP-including-0-amendments</a>   |              |
| Bloomington-Monroe County Metropolitan Planning Organization (BMCMPPO)  | FY 2024-2028 |
| • <a href="https://bloomington.in.gov/sites/default/files/2023-08/BMCMPPO%20FY%202024%20-%202028%20TIP%20-%2006-30-23%20-%20ADOPTED%20FINAL.pdf">https://bloomington.in.gov/sites/default/files/2023-08/BMCMPPO%20FY%202024%20-%202028%20TIP%20-%2006-30-23%20-%20ADOPTED%20FINAL.pdf</a> |              |
| Columbus Area Metropolitan Planning Organization (CAMPO)  | FY 2024-2028 |
| • <a href="https://www.columbus.in.gov/planning/tip/">https://www.columbus.in.gov/planning/tip/</a>   |              |
| Delaware-Muncie Metropolitan Plan Commission (DMMPC)  | FY 2022-2025 |
| • <i>Including Amendments/modifications through 2/14/23</i>   |              |
| • <a href="https://www.co.delaware.in.us/egov/documents/1692987897_47263.pdf">https://www.co.delaware.in.us/egov/documents/1692987897_47263.pdf</a>   |              |
| Evansville Metropolitan Planning Organization (EMPO)  | FY 2024-2028 |
| • <a href="http://www.evansvillempo.com/Docs/TIP/TIP_2024-2028/TIP_2024-2028.pdf">http://www.evansvillempo.com/Docs/TIP/TIP_2024-2028/TIP_2024-2028.pdf</a>   |              |
| Kokomo-Howard County Governmental Coordinating Council (KHCGCC)   | FY 2022-2026 |
| • <i>Including Amendments/modification through 7/28/23</i>  |              |
| • <a href="https://www.kokomompo.com/project/tip-2020-2024/">https://www.kokomompo.com/project/tip-2020-2024/</a>   |              |

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

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Kentuckiana Regional Planning and Development Agency (KIPDA)	FY 2023-2026
<ul style="list-style-type: none"> <li>• <a href="https://www.kipda.org/wp-content/uploads/2023/05/FY2023-TIP-FINAL-5-25.pdf">https://www.kipda.org/wp-content/uploads/2023/05/FY2023-TIP-FINAL-5-25.pdf</a></li> </ul>	
Indianapolis Metropolitan Planning Organization (IMPO)	FY 2024-2027
<ul style="list-style-type: none"> <li>• <a href="https://www.indympo.org/whats-underway/irtip">https://www.indympo.org/whats-underway/irtip</a></li> </ul>	
Michiana Area Council of Governments (MACOG)	FY 2024-2028
<ul style="list-style-type: none"> <li>• <a href="http://www.macog.com/docs/transportation/tip/approved/fy2028tip_projects.pdf">http://www.macog.com/docs/transportation/tip/approved/fy2028tip_projects.pdf</a></li> </ul>	
Madison County Council of Governments (MCCOG)	FY 2022-2026
<ul style="list-style-type: none"> <li>• <i>Including Amendments/modifications through 7/28/23</i></li> <li>• <a href="https://irp.cdn-website.com/65a760a0/files/uploaded/TIP%202022-2026%20-%20updated%205-1-23.pdf">https://irp.cdn-website.com/65a760a0/files/uploaded/TIP%202022-2026%20-%20updated%205-1-23.pdf</a></li> </ul>	
Northeastern Indiana Regional Coordinating Council (NIRCC)	FY 2024-2028
<ul style="list-style-type: none"> <li>• <a href="https://www.nircc.com/uploads/1/2/9/8/129837621/final_2024-2028_tip_5-25-23.pdf">https://www.nircc.com/uploads/1/2/9/8/129837621/final_2024-2028_tip_5-25-23.pdf</a></li> </ul>	
Northwestern Indiana Regional Planning Commission (NIRPC)	FY 2022-2026
<ul style="list-style-type: none"> <li>• <i>Including Amendments/modifications through 7/25/23</i></li> <li>• <a href="https://nirpc.org/2040-plan/mobility/transportation-improvement-program/">https://nirpc.org/2040-plan/mobility/transportation-improvement-program/</a></li> </ul>	
Ohio-Kentucky-Indiana Regional Council of Governments (OKI)	FY 2024-2027
<ul style="list-style-type: none"> <li>• <a href="https://www.oki.org/transportation-planning/transportation-improvement-program-tip/">https://www.oki.org/transportation-planning/transportation-improvement-program-tip/</a></li> </ul>	
Terre Haute Area Metropolitan Planning Organization (THAMPO)	FY 2024-2028
<ul style="list-style-type: none"> <li>• <a href="https://www.terrehautempo.com/images/THAMPO_2024_2028_AdoptionTIP.pdf">https://www.terrehautempo.com/images/THAMPO_2024_2028_AdoptionTIP.pdf</a></li> </ul>	

In addition, INDOT has expanded our public involvement process by taking advantage of virtual meeting techniques and allowing accessibility to online documents, materials, virtual meeting registration, recorded virtual meetings, and comment forms. INDOT also leveraged our planning partner contacts (MPOs, RPOs, LTAP), social media, and notifications sent to local libraries, housing authorities, senior aging centers, and local newspapers across the state.

We greatly appreciate FHWA/FTA support in the development of the STIP 2024-2028 and look forward to working together to achieve our mutual goals. Should you have any questions pertaining to this amendment, please contact April Leckie, STIP Administration at 317-232-5466 or at [aleckie@indot.in.gov](mailto:aleckie@indot.in.gov).

Sincerely,



Michael Smith, Commissioner  
Indiana Department of Transportation

cc: (w/enclosure): Angelica Salgado, FTA  
Cecilia Crenshaw, FTA  
Erica Tait, FHWA  
Lyndsay Quist, INDOT  
Kristin Brier, INDOT  
Kathy Eaton-McKalip, INDOT  
Louis Feagans, INDOT

April Leckie, INDOT  
Roy Nunnally, INDOT  
Larry Buckel, INDOT  
Jay Mitchell, INDOT  
Jason Casteel, INDOT  
Michael McNeil, INDOT

**Categorical Exclusion**  
**Appendix I**  
**Other**



**Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated March 2022)**

ProjectNumber	SubProjectCode	County	Property
1800054	1800054	Elkhart	Oxbow County Park
1800064	1800064	Elkhart	Stauffer Park, Derksen Park & McCormicks Creek G.C.
1800074	1800074	Elkhart	Oxbow County Park
1800099	1800099	Elkhart	Stauffer Park, Derksen Park & McCormicks Creek G.C.
1800257	1800257A	Elkhart	Elliott Park
1800257	1800257B	Elkhart	Lundquist Bicentennial Park
1800257	1800257C	Elkhart	Pinewood Park
1800283	1800283	Elkhart	High Dive Park
1800310	1800310	Elkhart	McNaughton Park
1800337	1800337	Elkhart	Stauffer Park, Derksen Park & McCormicks Creek G.C.
1800339	1800339	Elkhart	Shoup-Parsons Woods Park
1800340	1800340	Elkhart	Reith Park
1800354	1800354	Elkhart	Pierre Moran Park
1800441	1800441	Elkhart	High Dive Park
1800450	1800450	Elkhart	Stauffer Park, Derksen Park & McCormicks Creek G.C.
1800470	1800470	Elkhart	Studebaker Park
1800554	1800554	Elkhart	Cobus Creek County Park
1800628	1800628	Elkhart	Corson Riverwoods County Park
1800631	1800631	Elkhart	South Park
1800104	1800104	Marshall	Centennial Park & Plymouth Municipal Pool
1800259	1800259	Marshall	Centennial Park & Plymouth Municipal Pool
1800341	1800341	Marshall	Sunnyside Park
1800357	1800357	Marshall	Centennial Park & Plymouth Municipal Pool
1800359	1800359	Marshall	Packard Woods Park
1800388	1800388	Marshall	Argos Town Park
1800405	1800405P	Marshall	Menominee Wetlands Conservation Area
1800418	1800418	Marshall	Culver Park & Beach
1800565	1800565	Marshall	Argos Community Park
1800630	1800630	Marshall	Pond Park

\*Park names may have changed. If acquisition of publically owned land or impacts to publically owned land is anticipated, coordination with IDNR, Division of Outdoor Recreation, should occur.



**Des. Nos. 2001886 & 1702997**  
**U.S. 6 Hot Mix Asphalt (HMA) Overlay and Shoulder Widening Project**  
**Environmental Justice (EJ) Analysis**

March 1, 2024

***Environmental Justice Analysis***

Under FHWA Order 6640.23A, FHWA and the project sponsor, as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT Categorical Exclusion Manual, an Environmental Justice (EJ) analysis is required for any project requiring two or more relocations or more than 0.5 acre of new permanent right-of-way. Because the project is expected to require more than 0.5 acre of new permanent right-of-way (approximately 12.5 acres), an EJ analysis was conducted.

Potential EJ impacts are detected by locating minority populations and low-income populations in and near the project area, calculating their percentage in the area relative to a reference population to determine if, in fact, populations of EJ concern do exist, and determining whether there will be disproportionate adverse impacts to them. The reference population may be a county, city, or town and is called the community of comparison (COC). For this project, there are two COCs identified as Elkhart County, Indiana and Marshall County, Indiana. The community that overlaps the project limits is called the affected community (AC). For this project there are three ACs: one occurs within Elkhart County, Indiana (COC 1) and two occur within Marshall County, Indiana (COC 2).

- COC 1: Elkhart County, Indiana
  - AC 1: Census Tract 11
- COC 2: Marshall County, Indiana
  - AC 2: Census Tract 201.01
  - AC 3: Census Tract 201.02

An AC has a population of concern for EJ if the population is more than 50% low-income or minority or if the low-income population or minority population is greater than 125% of the same populations in the COC. A review of the U.S. Census Bureau data (2018-2022) was completed on February 2, 2024. The data was obtained from the U.S. Census Bureau's webpage (<https://data.census.gov/>). The data collected for minority and low-income populations within the AC's are summarized in the below table.

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**South Bend, Indiana 46601**  
PHONE: 574.334.5460



Table 1: Elkhart and Marshall Counties, Indiana Census Data Summary

	<b>COC 1</b>	<b>AC 1</b>	<b>COC 2</b>	<b>AC 2</b>	<b>AC 3</b>
	Elkhart County, Indiana	Census Tract 11, Elkhart County, Indiana	Marshall County, Indiana	Census Tract 201.01, Marshall County, Indiana	Census Tract 201.02, Marshall County, Indiana
<b>LOW-INCOME POPULATION</b>					
<b>Total Population for Whom Poverty Status is Determined</b>	203,329	5,034	45,428	4,999	3,849
<b>Total Population Below Poverty Level</b>	24,427	283	4,919	732	99
<b>Percent Low-Income</b>	12.0%	5.6%	10.8%	14.6%	2.6%
<b>125 Percent of COC</b>	15.0%		13.5%		
<b>AC Percent Low-Income Greater Than 125 Percent of COC?</b>		NO		YES	NO
<b>AC Percent Low-Income Greater Than 50 Percent?</b>		NO		NO	NO
<b>Population of EJ Concern?</b>		NO		YES	NO
<b>MINORITY POPULATION</b>					
<b>Total Population</b>	206,841	5,034	46,208	5,035	3,869
<b>Minority Population</b>	55,430	377	6,283	1,160	134
<b>Percent Minority</b>	26.8%	7.5%	13.6%	23.0%	3.5%
<b>125 Percent of COC</b>	33.5%		17.0%		
<b>AC Percent Minority Greater Than 125 Percent of COC?</b>		NO		YES	NO
<b>AC Percent Minority Greater Than 50 Percent?</b>		NO		NO	NO
<b>Population of EJ Concern?</b>		NO		YES	NO

*Low Income Populations*

AC-1, Census Tract 11, has a percent low-income of 5.6%, which is below 50% and is below the 125% COC 1 threshold. AC-2, Census Tract 201.01, has a percent low-income of 14.6%, which is below 50% and is above the 125% COC 2 threshold. AC-3, Census Tract 201.02, has a percent low-income of 2.6%, which is below 50% and is below the 125% COC 2 threshold. Therefore, AC-2 has a low-income population of EJ concern.

*Minority Populations*

AC-1, Census Tract 11, has a percent minority of 7.5%, which is below 50% and is below the 125% COC 1 threshold. AC-2, Census Tract 201.01, has a percent minority of 23.0%, which is below 50% and is above the 125% COC 2 threshold. AC-3, Census Tract 201.02, has a percent minority of

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 South Bend, Indiana 46601  
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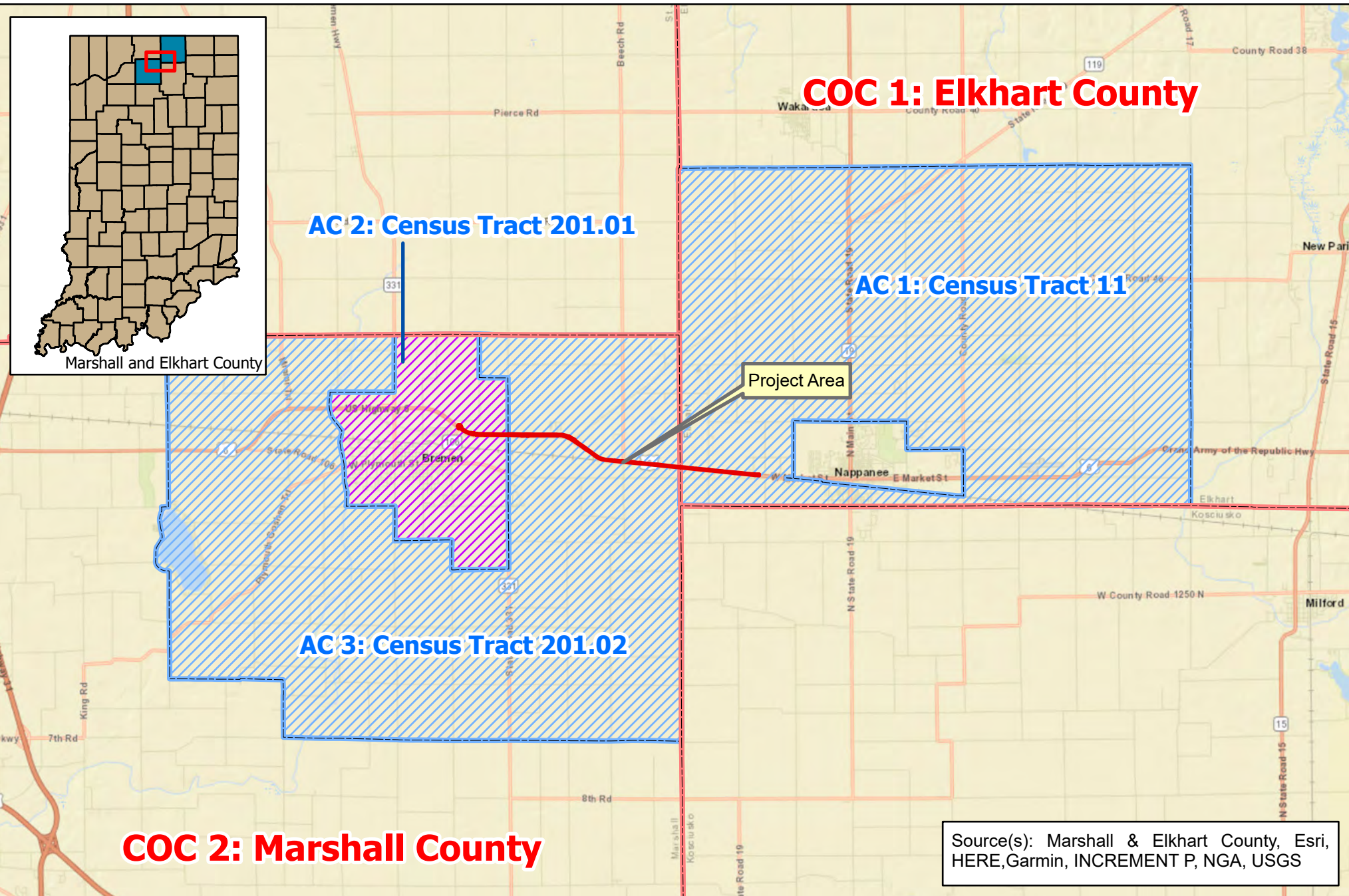


3.5%, which is below 50% and is below the 125% COC 2 threshold. Therefore, AC-2 has a minority population of EJ concern.

The proposed project is expected to require the acquisition of approximately 12.5 acres of permanent ROW. Land use within the proposed permanent ROW is primarily rural, and consists of agricultural, residential and some commercial properties. No relocations are anticipated.

Overall, the project will benefit EJ communities in this area due to the improved roadway conditions and improved safety and connectivity for non-vehicular traffic throughout the corridor, especially for horse-drawn buggies used by the local Amish community. The negative impacts to property owners within the project area will be minimal and consist primarily of short-term construction impacts and the loss of strip ROW along the property frontage. The ROW to be acquired will not substantially diminish the remaining properties' existing use and is expected to be acquired along the majority of the length of the project area and will likely involve less ROW acquisition from properties within the boundary of the EJ population of concern, AC-2: Census Tract 201.01, than in the rest of the project. The proposed MOT plan will temporarily close US 6 during construction. An official detour around the closure will be in place utilizing SR 19, US 20, and SR 331. The official detour will add approximately 34.1 miles to the route for a total added travel distance of 37.6 miles. Unofficial detours using local roads will also be available to divert traffic around the closure area. The shortest of these unofficial local detour routes, utilizing Douglas Road, SR 331, 2B Road, and CR 56 and CR 101, would be approximately 6.6 miles. Accommodations will also be made for local buggy traffic during construction. Access will be maintained for property owners during construction of the project. It is expected that the project will not have a disproportionately high and adverse environmental or health impact to low-income or minority populations of EJ concern when compared to non-EJ populations.

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 South Bend, IN 46601  
 Phone: (574) 334-5460

**EJ Analysis Map**  
 Des. No. 1702997 & 2001886



County: Marshall and Elkhart  
 Township: German and Locke  
 State: Indiana  
 HMA Overlay & Shoulder Rehabilitation  
 US 6, from E Jct SR 106 to 2.03 mi W of SR 19  
 Created: 2/9/2024, CKunkel


- Legend**
- Project Area
  - County
  - Census Tract
  - Population of EJ Concern

<b>Poverty Status in the Past 12 Months by Sex by Age</b>		
<b>Note: The table shown may have been modified by user selections. Some information may be missing.</b>		
<b>DATA NOTES</b>		
TABLE ID:	B17001	
SURVEY/PROGRAM:	American Community Survey	
VINTAGE:	2022	
DATASET:	ACSDT5Y2022	
PRODUCT:	ACS 5-Year Estimates Detailed Tables	
UNIVERSE:	Population for whom poverty status is determined	
MLA:	U.S. Census Bureau. "Poverty Status in the Past 12 Months by Sex by Age." American Community Survey, ACS 5-Year Estimates Detailed Tables, Table B17001, 2022, . Accessed on February 2, 2024.	
FTP URL:	None	
API URL:	<a href="https://api.census.gov/data/2022/acs/acs5">https://api.census.gov/data/2022/acs/acs5</a>	
<b>USER SELECTIONS</b>		
TABLES	B17001	
GEOS	Marshall County, Indiana; Elkhart County, Indiana; Census Tract 201.01; Marshall County; Indiana; Census Tract 201.02; Marshall County; Indiana; Census Tract 11; Elkhart County; Indiana	
<b>EXCLUDED COLUMNS</b>		
	Elkhart County, Indiana!!Margin of Error	
	Marshall County, Indiana!!Margin of Error	
	Census Tract 11; Elkhart County; Indiana!!Margin of Error	
	Census Tract 201.01; Marshall County; Indiana!!Margin of Error	
	Census Tract 201.02; Marshall County; Indiana!!Margin of Error	
<b>APPLIED FILTERS</b>		
	None	
<b>APPLIED SORTS</b>		
	None	
<b>PIVOT &amp; GROUPING</b>		
PIVOT COLUMNS	None	
PIVOT MODE	Off	
ROW GROUPS	None	
VALUE COLUMNS	None	
<b>WEB ADDRESS</b>		
	<a href="https://data.census.gov/table/ACSDT5Y2022.B17001?q=B17001:%20Poverty%20Status%20in%20the%20Past%2012%20Months%20by%20Sex%20by%20Age&amp;g=050XX00US18039,18099_1400000US18039001100,18099020101,18099020102&amp;moe=false&amp;tid=ACSDT5Y2018.B17001">https://data.census.gov/table/ACSDT5Y2022.B17001?q=B17001:%20Poverty%20Status%20in%20the%20Past%2012%20Months%20by%20Sex%20by%20Age&amp;g=050XX00US18039,18099_1400000US18039001100,18099020101,18099020102&amp;moe=false&amp;tid=ACSDT5Y2018.B17001</a>	
<b>TABLE NOTES</b>		
	Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, the decennial census is the official source of population totals for April 1st of each decennial year. In between censuses, the Census Bureau's Population Estimates Program 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.	
	Information about the American Community Survey (ACS) can be found on the ACS website. Supporting documentation including code lists, subject definitions, data accuracy, and statistical testing, and a full list of ACS tables and table shells (without estimates) can be found on the Technical Documentation section of the ACS website.  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.	

	Source: U.S. Census Bureau, 2018-2022 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 2018-2022 American Community Survey (ACS) data generally reflect the March 2020 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 2020 Census 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:- The estimate could not be computed because there were an insufficient number of sample observations. For a ratio of medians estimate, one or both of the median estimates falls in the lowest interval or highest interval of an open-ended distribution. For a 5-year median estimate, the margin of error associated with a median was larger than the median itself.N The estimate or margin of error cannot be displayed because there were an insufficient number of sample cases in the selected geographic area. (X) The estimate or margin of error is not applicable or not available.median- The median falls in the lowest interval of an open-ended distribution (for example "2,500-")median+ The median falls in the highest interval of an open-ended distribution (for example "250,000+").** The margin of error could not be computed because there were an insufficient number of sample observations.*** The margin of error could not be computed because the median falls in the lowest interval or highest interval of an open-ended distribution.***** A margin of error is not appropriate because the corresponding estimate is controlled to an independent population or housing estimate. Effectively, the corresponding estimate has no sampling error and the margin of error may be treated as zero.
<b>COLUMN NOTES</b>	None

	COC 1	AC 1	COC 2	AC 2	AC 3
	Elkhart County, Indiana	Census Tract 11; Elkhart County; Indiana	Marshall County, Indiana	Census Tract 201.01; Marshall County; Indiana	Census Tract 201.02; Marshall County; Indiana
Label	Estimate	Estimate	Estimate	Estimate	Estimate
Total:	203,329	5,034	45,428	4,999	3,849
Income in the past 12 months below poverty level:	24,427	283	4,919	732	99
Male:	11,136	130	2,039	401	24
Under 5 years	1,438	32	289	122	8
5 years	216	0	59	0	0
6 to 11 years	2,079	41	306	170	8
12 to 14 years	847	14	69	0	0
15 years	359	0	99	0	0
16 and 17 years	365	0	61	0	0
18 to 24 years	1,151	0	97	0	0
25 to 34 years	772	0	138	0	0
35 to 44 years	1,098	25	179	0	8
45 to 54 years	1,343	0	291	69	0
55 to 64 years	758	11	184	7	0
65 to 74 years	387	7	108	33	0
75 years and over	323	0	159	0	0
Female:	13,291	153	2,880	331	75
Under 5 years	1,255	15	76	0	0
5 years	170	13	0	0	0
6 to 11 years	1,671	19	242	74	15
12 to 14 years	732	0	139	0	0
15 years	223	0	17	0	0
16 and 17 years	446	9	248	50	0
18 to 24 years	1,152	7	246	0	0
25 to 34 years	1,688	7	269	52	9
35 to 44 years	1,614	25	456	69	21
45 to 54 years	1,164	0	341	47	0
55 to 64 years	1,241	34	256	39	0
65 to 74 years	1,020	0	206	0	21
75 years and over	915	24	384	0	9
Income in the past 12 months at or above poverty level:	178,902	4,751	40,509	4,267	3,750
Male:	89,527	2,388	20,923	1,994	2,012
Under 5 years	6,165	150	1,243	59	209
5 years	1,362	84	228	7	38
6 to 11 years	6,975	178	1,724	178	239
12 to 14 years	4,313	91	825	42	89
15 years	1,527	37	370	30	21
16 and 17 years	2,588	53	585	0	134
18 to 24 years	8,413	229	1,874	207	150
25 to 34 years	12,219	638	2,614	370	245
35 to 44 years	11,092	172	2,473	310	209
45 to 54 years	10,953	241	2,535	196	208
55 to 64 years	11,221	193	3,134	225	271
65 to 74 years	8,129	190	2,138	221	132
75 years and over	4,570	132	1,180	149	67
Female:	89,375	2,363	19,586	2,273	1,738
Under 5 years	5,927	99	1,216	19	170
5 years	1,102	27	236	0	37
6 to 11 years	6,945	157	1,547	179	139
12 to 14 years	4,845	152	841	211	123
15 years	1,097	10	302	0	104
16 and 17 years	3,050	165	457	13	0
18 to 24 years	7,931	358	1,621	284	115
25 to 34 years	11,168	467	2,091	227	225
35 to 44 years	10,645	226	2,210	294	214
45 to 54 years	11,131	264	2,514	168	160
55 to 64 years	10,795	123	2,723	389	240
65 to 74 years	8,320	208	2,208	227	127
75 years and over	6,419	107	1,620	262	84



<b>Hispanic or Latino Origin by Race</b>		
<b>Note: The table shown may have been modified by user selections. Some information may be missing.</b>		
<b>DATA NOTES</b>		
TABLE ID:	B03002	
SURVEY/PROGRAM:	American Community Survey	
VINTAGE:	2022	
DATASET:	ACSDT5Y2022	
PRODUCT:	ACS 5-Year Estimates Detailed Tables	
UNIVERSE:	Total population	
MLA:	U.S. Census Bureau. "Hispanic or Latino Origin by Race." American Community Survey, ACS 5-Year Estimates Detailed Tables, Table B03002, 2022, . Accessed on February 2, 2024.	
FTP URL:	None	
API URL:	<a href="https://api.census.gov/data/2022/acs/acs5">https://api.census.gov/data/2022/acs/acs5</a>	
<b>USER SELECTIONS</b>		
TABLES	B03002	
GEOS	Marshall County, Indiana; Elkhart County, Indiana; Census Tract 11; Elkhart County; Indiana; Census Tract 201.01; Marshall County; Indiana; Census Tract 201.02; Marshall County; Indiana	
<b>EXCLUDED COLUMNS</b>		
	Elkhart County, Indiana!!Margin of Error	
	Marshall County, Indiana!!Margin of Error	
	Census Tract 11; Elkhart County; Indiana!!Margin of Error	
	Census Tract 201.01; Marshall County; Indiana!!Margin of Error	
	Census Tract 201.02; Marshall County; Indiana!!Margin of Error	
<b>APPLIED FILTERS</b>		
	None	
<b>APPLIED SORTS</b>		
	None	
<b>PIVOT &amp; GROUPING</b>		
PIVOT COLUMNS	None	
PIVOT MODE	Off	
ROW GROUPS	None	
VALUE COLUMNS	None	
<b>WEB ADDRESS</b>		
	<a href="https://data.census.gov/table/ACSDT5Y2022.B03002?q=B03002:%20Hispanic%20or%20Latino%20Origin%20by%20Race&amp;g=050XX00US18039,18099_1400000US18039001100,18099020101,18099020102&amp;moe=false&amp;tid=ACSDT5Y2017.B03002">https://data.census.gov/table/ACSDT5Y2022.B03002?q=B03002:%20Hispanic%20or%20Latino%20Origin%20by%20Race&amp;g=050XX00US18039,18099_1400000US18039001100,18099020101,18099020102&amp;moe=false&amp;tid=ACSDT5Y2017.B03002</a>	
<b>TABLE NOTES</b>		
	Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, the decennial census is the official source of population totals for April 1st of each decennial year. In between censuses, the Census Bureau's Population Estimates Program 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.	
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	Source: U.S. Census Bureau, 2018-2022 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 Hispanic origin and race codes were updated in 2020. For more information on the Hispanic origin and race code changes, please visit the American Community Survey Technical Documentation website.
	The 2018-2022 American Community Survey (ACS) data generally reflect the March 2020 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.
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<b>COLUMN NOTES</b>	None

	COC 1	AC 1	COC 2	AC 2	AC 3
	Elkhart County, Indiana	Census Tract 11; Elkhart County; Indiana	Marshall County, Indiana	Census Tract 201.01; Marshall County; Indiana	Census Tract 201.02; Marshall County; Indiana
Label	Estimate	Estimate	Estimate	Estimate	Estimate
Total:	206,841	5,034	46,208	5,035	3,869
Not Hispanic or Latino:	171,160	4,707	41,262	4,053	3,744
White alone	151,411	4,657	39,925	3,875	3,735
Black or African American alone	9,981	0	350	2	0
American Indian and Alaska Native alone	303	0	7	0	0
Asian alone	2,177	17	306	167	9
Native Hawaiian and Other Pacific Islander alone	123	0	22	0	0
Some other race alone	512	0	69	0	0
Two or more races:	6,653	33	583	9	0
Two races including Some other race	605	0	46	0	0
Two races excluding Some other race, and three or more races	6,048	33	537	9	0
Hispanic or Latino:	35,681	327	4,946	982	125
White alone	13,322	74	2,602	317	72
Black or African American alone	287	0	3	0	0
American Indian and Alaska Native alone	383	0	130	42	0
Asian alone	53	0	12	0	0
Native Hawaiian and Other Pacific Islander alone	15	0	0	0	0
Some other race alone	13,467	142	1,119	69	0
Two or more races:	8,154	111	1,080	554	53
Two races including Some other race	7,552	111	981	554	53
Two races excluding Some other race, and three or more races	602	0	99	0	0

**From:** [Fair, Terri](#)  
**To:** [Chris Kunkel](#)  
**Subject:** EJ Analysis - Des. No. 1702997 & 2001886 - US 6 Roadway Project, Lochgroup #121-3035  
**Date:** Friday, March 22, 2024 4:02:44 PM  
**Attachments:** [Des 1702997 & 2001886 - US 6 Roadway Project - EJ Analysis.pdf](#)

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EXTERNAL

INDOT-Environmental Services Division (ESD) has reviewed the project information along with the Environmental Justice (EJ) Analysis for the above referenced project. With the information provided, the project may require right-of-way, requires no relocations, and would not disrupt community cohesion or create a physical barrier. With the information provided, INDOT-ESD would not consider the impacts associated with this project as causing a disproportionately high and adverse effect on minority and/or low-income populations of EJ concern relative to non-EJ populations in accordance with the provisions of Executive Order 12898 and FHWA Order 6640.23a. No further EJ Analysis is required.

**NOTE TO FILE No. 2  
TO ABBREVIATED ENGINEER’S REPORT**

Project Number: 2001886  
Route / Feature Crossed: US6  
Project Location: From E Jct SR106 to 2.03 miles West of SR 19 (Shawnee Dr.)  
Date: 5/19/2022

**REVISION REQUIREMENT:**

Project is being combined with Des 1702997 which will widen the shoulder width on US6 with same project limits. Culverts shall be lengthened to accommodate revised width of roadbed. Additional R/W is required under 1702997 to accommodate expanded roadbed and drainage appurtenances.

**REVISION TO ORIGINAL SCOPE DOCUMENT:**

- Does the revision change the project’s Purpose & Need statement?  Yes  No
- Does the revision change the project’s recommended alternative?  Yes  No
- Does the revision change the project’s cost estimate?  Yes  No
- Does the revision change the project’s environmental impacts?  Yes  No
- Does the revision require additional Right-of-Way?  Yes  No
- Does the revision change the project’s schedule (design or construction)?  Yes  No
- Does the revision require additional coordination with utility companies?  Yes  No

This document was prepared by:

**Paul South**  
Digitally signed by Paul South  
Date: 2022.05.19 09:13:23 -04'00'

Paul South, PE  
District Scoping Manager, LaPorte District

**NOTE TO FILE No. 1  
TO ABBREVIATED ENGINEER'S REPORT**

Project Number: 2001886  
Route / Feature Crossed: US6  
Project Location: From E Jct SR106 to 2.03 miles West of SR 19 (Shawnee Dr.)  
Date: 2/23/2022

**ADDENDUM JUSTIFICATION:**

Revision to Project Location Description and project end point to facilitate coordination with adjacent project in FY22 (2000501)

**REVISION TO ORIGINAL SCOPE DOCUMENT:**

The (Abbreviated) Engineer's Report is being revised as follows:

**Project Location, REPLACE as follows:**

RP Start: 79+0.138  
SL Start: 63.926  
Latitude: 41.455835°  
Longitude: -86.134420°

- Does the revision change the project's Purpose & Need statement?  Yes  No
- Does the revision change the project's recommended alternative?  Yes  No
- Does the revision change the project's cost estimate?  Yes  No
- Does the revision change the project's environmental impacts?  Yes  No
- Does the revision require additional Right-of-Way?  Yes  No
- Does the revision change the project's schedule (design or construction)?  Yes  No
- Does the revision require additional coordination with utility companies?  Yes  No

This document was prepared by:

**Paul South**  
Digitally signed by Paul South  
Date: 2022.02.24 15:40:32 -05'00'

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Paul South, PE  
District Scoping Manager, LaPorte District





# Pavement Scoping Application Report

6/25/2020

ID: 4215 for model run date 5/04/2019

## Pavement

Approved

<b>Last Edited Date</b>	1/10/2020	<b>Work Type</b>	HMA Overlay Minor Structural
<b>Last Updated By</b>	System, DTIMS	<b>Work Category</b>	District Pavement Project (Non-I)
<b>Proposed FY</b>	2025	<b>Score</b>	<b>79</b>
<b>Pre-DES</b>			

## Pavement Project Details

<b>Pavement Section ID</b>	4215	<b>State Log Date</b>	05/29/2019
<b>Route</b>	US 6	<b>From RP + Offset</b>	79 + 016
<b>Created Date</b>	12/10/2019	<b>To RP + Offset</b>	84 + 074
<b>Location</b>	From the East Junction of SR 106 to 2.03 miles West of SR 19 (Shawnee Dr.)	<b>SL Measure From</b>	64.085
		<b>SL Measure To</b>	69.642

## Roadway Information

<b>District</b>	LA PORTE, LA PORTE	<b>Pavement Area (Sq Yd)</b>	97,680
<b>Subdistricts</b>	ELKHART, PLYMOUTH	<b>Underdrains Present</b>	No
<b>County(s)</b>	20 - Elkhart, 50 - Marshall	<b>Curbs Present</b>	No
<b>Project Length</b>	5.56	<b>Known ADA Deficiencies</b>	No
<b>Number of Through Lanes</b>	2	<b>Est # of Lg Culverts (&gt;48" -20')</b>	1
<b>Number of Lane Miles</b>	11.12	<b>Est # of Sm Culverts (12-48")</b>	39
<b>Functional Class</b>	3 - Principal Arterial - Other		
<b>On NHS</b>	1 - Is on the NHS		
<b>AADT Year</b>	2018		
<b>AADT</b>	7,678		
<b>AADT Truck</b>	1,782		
<b>Pavement Type</b>	Composite		

## Project History

Project Type	Contract #	Year	Work Type
Functional	RS-28888	2007	HMA Overlay, Preventive Maintenance
Structural			

## Maintenance History

Significance	Year	Maintenance Work Type





# Pavement Scoping Application Report

6/25/2020

ID: 4215 for model run date 5/04/2019

## Condition Data

	Year
% Functional Cracking	0
% Structural Cracking	0
Rut inches	0
IRI (in/mile)	0
Distress Box Area	0
Concrete Length	
Asphalt Length	
Concrete Faulting	
Cost Effectiveness (\$/sqyd)	
Roadway Category	

## Purpose/Need Of Project

**Purpose And Need** The purpose of the project is to remove the surface distresses, increase the life of the pavement, and improve the IRI to good condition, less than 70.

The pavement has a moderate block cracking, extensive transverse cracking, widening crack distresses, and longitudinal joint distresses are all prevalent in this section. There is a chip seal on the surface. The shoulders are in poor condition.

## Own It: Alternatives

### Preliminary Alternatives That Are Contemplated (Analyzed) With Costs

The existing asphalt pavement be milled 1.5 inches in depth and paving with 4 inches of HMA, to be determined by the pavement design. The existing small culverts within the project limits that rate poorly should be replaced. The existing guardrail should be reset. Milled centerline corrugations should be installed.

### Consequences If No Action Is Taken (Do Nothing Alternative Is Selected)

The pavement will continue to deteriorate and will require a more extensive pavement treatment.

### Secondary Considerations or Goals With Costs

Improve safety to non motorized vehicles that travel on the roadway.

**Will Further Analysis/Assessment Be Required Beyond This Form?** Yes

## Additional Features To be Included

RPMs	No	Centerline Rumble Stripe	Yes
Curb Ramps	No	Edgeline Rumble Stripes	No



# Pavement Scoping Application Report

6/25/2020

ID: 4215 for model run date 5/04/2019

## Estimated Total Project Costs

Phase	Amount	Comments
Right of Way Purchase	\$0	
Right of Way Services	\$0	
Preliminary Engineering 1	\$200,000	
Railroad PE 1	\$50,000	
Utilities PE	\$20,000	
Utilities CN	\$0	
<b>Construction Total \$3,082,000</b>		
Construction	\$2,192,000	
RR Construction	\$750,000	
Maintenance of Traffic	\$120,000	
Environmental Mitigation	\$20,000	
ADA	\$0	
Construction Engineering	\$60,000	
Other Considerations	\$0	
<b>Total</b>	<b>\$3,412,000</b>	

## Maintenance of Traffic

Can this road be closed due to traffic?	No	Interstate Congestion Policy Waiver Required	No
Traffic Management Plan Required?	No		
Anticipated MOT Scheme Value	Flagging		
2			

## Other Considerations

Anticipated Number of Construction Seasons To Complete	1.00
Anticipated Number of Years To Complete Design	2.00
Environmental Document Type	CE1
Environmental Factors	

## Additional Anticipated Complications

Tree Clearing	No
Fish	No
Bats	No
Historical	No
Potential Hazardous Coatings	No

## Additional Comments

This project is expected to be combined with a shoulder widening project in the safety program

## Supporting Documents

Document Type	Document Name	Date
Unchosen	PK4215 Estimate Road Quantities.xlsx	1/8/2020 5:11:43PI
Unchosen	PK 4215 - Small Culverts.xlsx	1/8/2020 5:11:42PI
Unchosen	PK 4215 Pictures.pdf	1/8/2020 5:11:44PI
Unchosen	PK 4215 DistrictScoreSheet123019v3.pdf	1/8/2020 5:11:42PI



# Pavement Scoping Application Report

6/25/2020

ID: 4215 for model run date 5/04/2019

## Report Prepared By and Approved By

Title	Signature	
Submitted By Asset Engineer	Mooney, Molly	1/8/2020
Concur By Scoping Engineer	South, Paul	1/9/2020
Approved By SAM	Benczik, Steve	1/10/2020

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<b>Submittal Type</b>	Major	<b>Submittal Year</b>	2025
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## Images

Asset ID# or Structure #	PK	Route	RP	Program	Treatment	Latitude	Longitude	Pipe Material	Barrel Rating	Culvert Height (in)	Culvert Width (in)	Shape (IF NOT ROUND)	Culvert Length (ft)	Cover (ft)	Notes
CLV-49241	40215	US 6	79.15	FY 25 Road	RIK	41.45594731	-86.1341013	MP - Metal Pipe	3 - Poor	36	36	Round	105	> 10	Pipe rusted through on bottom, flow line full of heavy grass, pavement cracking
CLV-49242	40215	US 6	79.43	FY 25 Road	RIK	41.45404697	-86.12935354	MP - Metal Pipe	0 - Unkown	???	???	Round	60	< 5	Ditch and flow line full of debris and heavy grass, pipe full of water and debris, can't inspect
CLV-64127	40215	US 6	79.52	FY 25 Road	LIP	41.45403406	-86.12768495	PL - Plastic Liner	7 - Good	15	15	Round	95	< 5	Some grass in flow line and end section, liner good, pavement cracking
CLV-64128	40215	US 6	79.62	FY 25 Road	RIK	41.45370482	-86.12566777	MP - Metal Pipe	5 - Fair	15	15	Round	155	< 5	Pipe starting to rust inside and at end debris inside and at end end bent down some lot tall grassy vegetation around pipe
CLV-64129	40215	US 6	79.9	FY 25 Road	RIK	41.45383419	-86.12021525	PL - Plastic Liner	5 - Fair	12	12	Round	48	5 to 10	Plastic liner look like it gets smaller on Inside and end no cracks lot tall grassy vegetation around pipe
CLV-64130	40215	US 6	80.34	FY 25 Road	RIK	41.45380226	-86.11048395	C - Concrete Pipe	0 - Unkown	???	???	Round	???	< 5	Ditch & flow line full of debris and heavy grass, pipe completely buried, can't inspect cannot locate other end
CLV-64131	40215	US 6	80.69	FY 25 Road	RIK	41.45374497	-86.10250035	C - Concrete Pipe	5 - Fair	18	18	Round	45	5 to 10	Pipe end deteriorate and coming apart inside seams starting to separate debris inside and end tall grassy vegetation around pipe
CLV-64132	40215	US 6	81.43	FY 25 Road	RIK	41.44956751	-86.08995541	C - Concrete Pipe	5 - Fair	18	18	Round	42	5 to 10	Pipe inside and at end starting to separate at seams scaling inside some debris inside and at end
CLV-64133	40215	US 6	81.56	FY 25 Road	RIK	41.44861101	-86.08808977	MP - Metal Pipe	5 - Fair	???	???	Round	55	< 5	Pipe full water inside lot vegetation around pipes cannot inspect
CLV-64134	40215	US 6	81.74	FY 25 Road	RIK	41.44746617	-86.08573864	C - Concrete Pipe	5 - Fair	18	18	Round	50	5 to 10	Pipe inside and at end starting to separate end metal piece bent up lot grassy vegetation around pipes
CLV-64135	40215	US 6	82	FY 25 Road	RIK	41.44720524	-86.08145155	MP - Metal Pipe	3 - Poor	15	15	Round	55	5 to 10	Pipe rusted inside and at end debris inside and at end lot grassy vegetation around pipes
CLV-64136	40215	US 6	82.31	FY 25 Road	RIK	41.44665346	-86.07574096	MP - Metal Pipe	3 - Poor	18	18	Round	50	5 to 10	Pipe rusted inside and at end pipe also rusted through in spots lot tall grassy vegetation around pipe
CLV-64137	40215	US 6	82.45	FY 25 Road	RIK	41.44640645	-86.07297225	C - Concrete Pipe	5 - Fair	24	24	Round	65	5 to 10	Lot of water flowing out pipe pipe seams inside and at end separating lot grassy vegetation around pipe
CLV-64138	40215	US 6	82.95	FY 25 Road	LIP	41.44586615	-86.06366473	PL - Plastic Liner	7 - Good	18	18	Round	25	5 to 10	Pavement cracking, concrete filler crumbling lightly around end section, liner is good
CLV-64139	40215	US 6	83.39	FY 25 Road	RIK	41.44511383	-86.05555323	C - Concrete Pipe	5 - Fair	24	24	Round	40	5 to 10	Pipe starting to separate inside some debris inside and at end tall grassy vegetation around pipe
CLV-64140	40215	US 6	83.72	FY 25 Road	LIP	41.44488534	-86.04965908	BC - Box Culvert	7 - Good	36	36	Box	???	5 to 10	Culvert is good
CLV-64141	40215	US 6	84.53	FY 25 Road	RIK	41.44366466	-86.0342663	MP - Metal Pipe	5 - Fair	15	15	Round	25	< 5	Pipe is holding water and some debris, flow line full of debris

**TREATMENT KEY**

LIP Leave in Place  
 RIK Replace in Kind  
 R&R CASTING Casting Furnish and Adjust to Grade  
 REPL INLET Replace Inlet & Casting  
 REPL/WRNTED See Notes

**GENERAL NOTES**

- 1) Erosion Control Blankets or Muced Seeding, Method E may be used in lieu of Revetment Riprap at pipe ends
- 2) Designer shall review conditions of inlet castings for adjustment and possible replacement regardless of the disposition of the attached drainage structure.
- 3) All inlets shall have vane type grate (Type 5, 8, 10 or 15). Replace and adjust castings as required for vane type castings
- 4) Replace If Warranted: Designer assumes asset is to be replaced in kind; quantities are established. Once asset is cleaned and inspected during construction, if condition does not warrant replacement, no additional work is required.

REVISIONS	
DATE	ITEM
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# Abbreviated Engineer's Report

Application Date	12/26/2019	Des	1702997
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Proposed FY	2026	Work Type	Shoulder Rehabilitation and Repair
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Project Information				Project History			
Safety Score	84			Project Type	Contract #	Work Type	Year
Route	US 6			Functional			
Limits	2000' east of SR106 E JCT to 5.3 miles east of SR106 E JCT			Structural			
From RP + Offset	79+4	From SL		Maintenance History			
To RP + Offset	84+5	To SL		Last Major Treatment		Year:	
				Last Minor Treatment		Year:	

Existing Facility / Roadway Information				Need / Purpose of Project			
ADT/AADT	7479			<p>Lack of wide paved shoulders contributes to buggy, bicyclist, pedestrian, and run-off-the-road crashes. This segment is the missing link, without paved shoulders, between the Amish communities of Bremen and Nappanee.</p> <p>The purpose of this project is to reduce the potential for lane departure crashes (both head-on and ran off road lane departures).</p> <p>This project is intended to be on the same contract as an HMA Overlay, Minor Structural, DES 1800066.</p>			
AADT Year	2017						
Project Length	5						
# Thru Lanes	2						
# Lane Miles	10						
Pavement Area (Sys)							
Pavement Type	Asphalt						
County	Marshall, Elkhart						
Subdistrict	Plymouth						
Functional Class	Other Principal Arterial						
Rural / Urban	Rural						
On NHS?	No						
Are Underdrains Present?	No						
Are Curbs Present?	No						
[year] Condition Data							
% HMA Functional Cracking		Rut (in)					
% HMA Structural Cracking							
% Concrete Functional Cracking		IRI (in/mile)					
% Concrete Structural Cracking							

Recommended Alternatives
<p>Widen 2 ft paved shoulders to 8 ft paved shoulders to better accommodate Amish and Mennonite buggies and bicyclist as well as providing safety benefits to motorized users.</p>

Additional Features to be Included		Environmental Considerations
RPMs	No	No significant impacts anticipated.
Centerline Rumble Stripes	No	
Edgeline Rumble Stripes	No	
Shoulder Corrugations	Yes	
Curb Ramp(s) Upgrade	No	

# Abbreviated Engineer's Report

Application Date	12/26/2019	Des	1702997
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Project Cost	MOT Plan
Right-of-Way Purchase (RW):	\$330,000.00
Preliminary Engineering (PE):	\$487,039.00
Railroad (RR):	\$240,000.00
Utilities CN (UT):	\$40,000.00
<b>Construction (CN):</b>	<b>\$4,967,797.80</b>
Construction Engineering (CE):	\$0.00
Relinquishment Payment (RQ):	\$0.00
<b>Total Roadway Costs:</b>	<b>\$6,064,836.00</b>
Total Costs for Add'l Asset Improvements	\$0.00

Permits Required	ROW Impacts
USACE 404	TBD
IDEM 401	TBD
IDEM Rule 5	TBD
IDNR CIF	TBD
Wetland Mitigation	TBD
Other (Specify)	

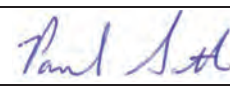
### Community Context / Coordination / RR

Railroad coordination: there is one railroad crossing within the project limits. Lights and crossing arms are present. Appropriate railroad coordination process will be followed.

### Supporting Documentation

File Name	Description
	Location Map
	Turning Movement Counts
	Crash History and Analysis

### Scope Prepared and Approved By

Report Prepared By and Approved By	Title	Signature	Date
<b>Prepared by:</b> Alan Holderread, PE	<b>District Traffic Engineer</b>	Alan Holderread <small>Digitally signed by Alan Holderread Date: 2021.01.27 14:43:34 -06'00'</small>	
<b>Reviewed by:</b> Alan Holderread, PE	<b>District Traffic Engineer</b>	//omitted//	
<b>Reviewed by:</b> Paul South, PE	<b>District Scoping Manager</b>		
<b>Approval by:</b> Steve Benczik, PE	<b>System Asset Manager</b>	Steve J Benczik <small>Digitally signed by Steve J Benczik Date: 2021.01.28 15:51:35 -06'00'</small>	

LaPorte District Mini Scope Form 01-18

REVISIONS	
DATE	ITEM
	①

LaPorte District Mini Scope Form 02-18

**From:** DeGraff, Shawna <SDegraff@indot.IN.gov>  
**Sent:** Tuesday, July 2, 2024 7:38 AM  
**To:** Barbie Swihart Stutzman  
**Cc:** C.J. Cunningham  
**Subject:** FW: Des. No. 2001886 & 1702997 - International Roughness Index

EXTERNAL

Hey Barbie,

Below is the requested information. Please let me know if you need anything else.

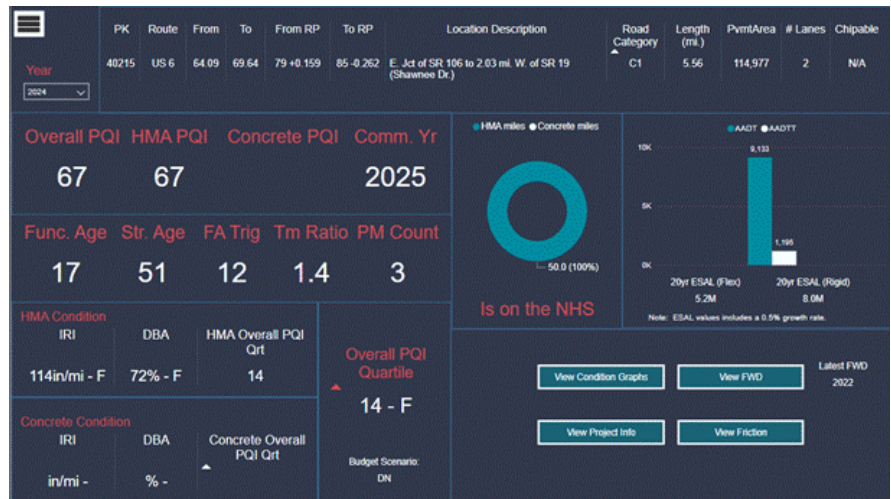
Respectfully,

**Shawna DeGraff**  
**Project Manager**  
 Capital Program Management – INDOT LaPorte District  
 315 East Boyd Boulevard  
 LaPorte, IN 46350  
**Cell:** (219) 214-3442  
**Email:** [sdegraff@indot.in.gov](mailto:sdegraff@indot.in.gov)  
[Call Me on TEAMS](#)  
[Chat/Message Me in TEAMS](#)  
[Find us on social media!](#)



**From:** Mooney, Molly <MMooney@indot.IN.gov>  
**Sent:** Monday, July 1, 2024 3:53 PM  
**To:** DeGraff, Shawna <SDegraff@indot.IN.gov>; South, Paul <PSouth@indot.IN.gov>  
**Subject:** RE: Des. No. 2001886 & 1702997 - International Roughness Index

This is the condition data for the pavement section in question.



**Molly Mooney, P.E.**  
**Pavement Asset Engineer**  
 Indiana Department of Transportation  
 LaPorte District  
**Office:** (219) 325-7534  
**Cell:** (219) 851-2246  
**Email:** [mmooney@indot.in.gov](mailto:mmooney@indot.in.gov)  
[Find us on social media!](#)