**WHEREAS** the Federal Highway Administration ("FHWA") proposes to fund the construction for the SR 46 Pavement Replacement Project in Greensburg, Washington Township, Decatur County, Indiana; and

**WHEREAS** the FHWA, in consultation with the Indiana State Historic Preservation Officer ("Indiana SHPO"), has defined the SR 46 Pavement Replacement Project's area of potential effects ("APE"), as the term is defined in 36 C.F.R. Section 800.16(d), to be the area within approximately one property from the project area (approximately 200 feet from either side of the road centerline); and

**WHEREAS** the FHWA, in consultation with the Indiana SHPO, has found that the Greensburg Downtown Historic District (NR # 1261), the Charles Zoller House (NR # 0308), and the Greensburg Eastside Residential Historic District (IHSSI # 031-252-23001 – 068) are within the APE; and

**WHEREAS** the FHWA, in consultation with the Indiana SHPO, has determined, pursuant to 36 C.F.R. Section 800.4(c), that the Charles Zoller House (NR # 0308) and the Greensburg Eastside Residential Historic District (IHSSI # 031-252-23001 – 068) are eligible for inclusion in the National Register of Historic Places ("National Register");

**WHEREAS** the FHWA and the Indiana SHPO both recognize that the Greensburg Downtown Historic District (NR # 1261) is listed on the National Register of Historic Places ("National Register"); and

**WHEREAS** the FHWA, in consultation with the Indiana SHPO, has determined pursuant to 36 C.F.R. Section 800.5(a) that the SR 46 Pavement Replacement Project in Greensburg will have an adverse effect on the Greensburg Eastside Residential Historic District (IHSSI # 031-252-23001 – 068); and

**WHEREAS** the FHWA has consulted with the Indiana SHPO in accordance with Section 106 of the National Historic Preservation Act (54 U.S.C. § 306108) and its implementing regulations (36 C.F.R. Section 800) to resolve the adverse effect on the Greensburg Eastside Residential Historic District (IHSSI # 031-252-23001 – 068); and

**WHEREAS** the public was given an opportunity to comment on the undertaking's adverse effect in a notice published on July 26, 2022, in the *Daily News* newspaper serving the City of Greensburg; and

Des. Nos.: 1800255 and 1800256, Final MOA, November 14, 2022 Version

Page 1 of 9

**WHEREAS** the FHWA has notified the Advisory Council on Historic Preservation ("Council") of the adverse effect and invited the Council's participation in the project, pursuant to 36 CFR Section 800.6(a)(1), in a letter dated July 20, 2022; and

**WHEREAS** the Council declined to participate in consultation in a letter dated August 26, 2022, however, may reconsider if a request to participate is received; and

**WHEREAS** the FHWA, in consultation with the Indiana SHPO, has invited the Indiana Department of Transportation ("INDOT") to participate in the consultation and to become a signatory to this memorandum of agreement; and

**WHEREAS** the FHWA, in consultation with the Indiana SHPO, has invited the City of Greensburg to participate in the consultation and to become a signatory to this memorandum of agreement; and

**WHEREAS** the FHWA has consulted with the Indiana SHPO in accordance with Section 106 of the National Historic Preservation Act (16 U.S.C. 470f) and its implementing regulations (36 C.F.R. Part 800) concerning the scope of work as presented in the materials and plans dated July 20, 2022, and has agreed to proceed with the project as proposed; and

**NOW, THEREFORE**, the FHWA and the Indiana SHPO agree that, upon the submission of a copy of this executed memorandum of agreement, as well as the documentation specified in 36 C.F.R. Section 800.11(e) and (f) to the Council pursuant to 36 C.F.R. Section 800.6[b][1][iv]) and upon the FHWA's approval of the SR 46 Pavement Replacement Project, the FHWA shall ensure that the following stipulations are implemented in order to take into account the effect of the SR 46 Pavement Replacement Project.

# I. MITIGATION STIPULATIONS

Mitigation for the SR 46 Pavement Replacement Project will consist of the following measures:

- A. The limestone curbs within the project area will be carefully removed by the contractor and curbs in good condition will be provided to the City of Greensburg for storage and reuse at other locations in the following priority: within the Greensburg Eastside Residential Historic District, in other historic districts within Greensburg, or other public areas within Greensburg. The City of Greensburg shall make a good faith effort to reuse as many of the limestone curbs as possible within ten (10) years of execution of this agreement.
- B. The INDOT shall reinstall the salvaged limestone curbs in good condition in front of the Charles Zoller House (approximately 260 linear feet) and in front of the Wilderwood House (approximately 180 linear feet). The INDOT shall submit detailed curb construction plans to the Indiana SHPO and other consulting parties

for a 30-day review and comment period before construction. If the Indiana SHPO or other consulting parties do not respond within thirty (30) days, acceptance shall be assumed. If the Indiana SHPO or other consulting parties respond with recommendations, a good faith effort to accommodate the recommendations shall be made. FHWA shall inform the Indiana SHPO and other consulting parties of its response to such comments.

- C. The INDOT shall construct the multi-use path to be 8-feet wide and with concrete within the Greensburg Eastside Residential Historic District. The back of the new multi-use path shall be no closer to the homes within the district than is the back of the existing sidewalk.
- D. The INDOT shall replicate the existing stamped street names ("Stewart St" and "Main St") in the multi-use path concrete at the northeast quadrant of that intersection.
- E. The INDOT shall avoid damage to any stone retaining walls, steps, sidewalks or walkways in front of the Charles Zoller House or within the Greensburg Eastside Residential Historic District. If damage occurs, INDOT shall reconstruct the damaged area in-kind or as close as possible to the Secretary of the Interior's Standards for Reconstruction.
- F. The INDOT shall plant appropriate varieties of street trees in the grass buffer (between the curb and multi-use path) within the Greensburg Eastside Residential Historic District. The INDOT shall submit detailed planting plans to the Indiana SHPO and other consulting parties for a 30-day review and comment period before construction. If the Indiana SHPO or other consulting parties do not respond within thirty (30) days, acceptance shall be assumed. If the Indiana SHPO or other consulting parties respond with recommendations, a good faith effort to accommodate the recommendations shall be made. FHWA shall inform the Indiana SHPO and other consulting parties of its response to such comments.
- G. The INDOT shall submit detailed street lighting plans (adjacent to and within the Charles Zoller House and Greensburg Eastside Residential Historic District) to the Indiana SHPO and other consulting parties for a 30-day review and comment period before construction. If the Indiana SHPO or other consulting parties do not respond within thirty (30) days, acceptance shall be assumed. If the Indiana SHPO or other consulting parties respond with recommendations, a good faith effort to accommodate the recommendations shall be made. FHWA shall inform the Indiana SHPO and other consulting parties of its response to such comments.

# **II. OBJECTION RESOLUTION PROVISION**

Disagreement and misunderstanding about how this memorandum of agreement is or is not being implemented shall be resolved in the following manner:

- A. If the Indiana SHPO or any invited signatory to this memorandum of agreement should object in writing to the FHWA regarding any action carried out or proposed with respect to the SR 46 Pavement Replacement Project or implementation of this memorandum of agreement, then the FHWA shall consult with the objecting party to resolve this objection. If after such consultation the FHWA determines that the objection cannot be resolved through consultation, then the FHWA shall forward all documentation relevant to the objection to the Council, including the FHWA's proposed response to the objection. Within 45 days after receipt of all pertinent documentation, the Council shall exercise one of the following options:
  - i. Provide the FHWA with a staff-level recommendation, which the FHWA shall take into account in reaching a final decision regarding its response to the objection; or
  - ii. Notify the FHWA that the objection will be referred for formal comment pursuant to 36 C.F.R. Section 800.7(c), and proceed to refer the objection and comment. The FHWA shall take into account the Council's comments in reaching a final decision regarding its response to the objection.
- B. If comments or recommendations from the Council are provided in accordance with this stipulation, then the FHWA shall take into account any Council comment or recommendations provided in accordance with this stipulation with reference only to the subject of the objection. The FHWA's responsibility to carry out all actions under the memorandum of agreement that are not the subjects of the objection shall remain unchanged.

# III. POST-REVIEW DISCOVERY

In the event that one or more historic properties--other than the Greensburg Downtown Historic District (NR # 1261), the Charles Zoller House (NR # 0308), and the Greensburg Eastside Residential Historic District (IHSSI # 031-252-23001 – 068)-- are discovered or that unanticipated effects on historic properties are found during the implementation of this memorandum of agreement, the FHWA shall follow the procedure specified in 36 C.F.R. Section 800.13, as well as IC 14-21-1-27 and IC 14-21-1-29, by stopping work in the immediate area and informing the Indiana SHPO and the INDOT Cultural Resources Office of such unanticipated discoveries or effects within two (2) business days. When indicating that any necessary archaeological investigations will be conducted according to the provisions of IC 14-21-1, 312 IAC 21, and the *Guidebook for Indiana Historic Sites and Structures Inventory – Archaeological Sites*; please include reference to 312 IAC 22.

# IV. AMENDMENT

Any signatory to this memorandum of agreement may request that it be amended, whereupon the parties shall consult to consider the proposed amendment. 36 C.F.R. 800.6(c)(7) shall govern the execution of any such amendment.

# V. TERMINATION

- A. If the terms of this memorandum of agreement have not been implemented within ten (10) years of execution of this agreement, then this memorandum of agreement shall be considered null and void. In such an event, the FHWA shall so notify the parties to this memorandum of agreement and, if it chooses to continue with the SR 46 Pavement Replacement Project, then it shall reinitiate review of the SR 46 Pavement Replacement Project in accordance with 36 C.F.R. Sections 800.3 through 800.7.
- B. Any signatory to this memorandum of agreement may terminate it by providing thirty (30) days notice to the other parties, provided that the parties shall consult during the period prior to termination to seek agreement on amendments or other actions that would avoid termination. In the event of termination, the FHWA shall comply with 36 C.F.R. Sections 800.3 through 800.7 with regard to the review of the SR 46 Pavement Replacement Project.
- C. In the event that the FHWA does not carry out the terms of this memorandum of agreement, the FHWA shall comply with 36 C.F.R. Sections 800.3 through 800.7 with regard to the review of the SR 46 Pavement Replacement Project.

The execution of this memorandum of agreement by the FWHA, the Indiana SHPO, INDOT, and the City of Greensburg, the submission of it to the Council with the appropriate documentation specified in 36 C.F.R. Section 800.11(e) and (f), and the implementation of its terms evidence that the FHWA has afforded the Council an opportunity to comment on the SR 46 Pavement Replacement Project and its effect on historic properties and that the FHWA has taken into account the effects of the SR 46 Pavement Replacement Project on historic properties.

# **SIGNATORIES (required):**

FEDERAL HIGHWAY ADMINISTRATION INDIANA STATE HISTORIC PRESERVATION OFFICER

# **INVITED SIGNATORIES:**

INDIANA DEPARTMENT OF TRANSPORTATION CITY OF GREENSBURG

\*\*Signature pages for each signatory are separate so that concurrent signatures may be obtained.\*\*

# **REQUIRED SIGNATORY**

# FEDERAL HIGHWAY ADMINISTRATION



For: Jermaine R. Hannon, Division Administrator

Date: 12/20/2022

#### **REQUIRED SIGNATORY**

# INDIANA STATE HISTORIC PRESERVATION OFFICER

By:

-K. Me -S

Date: 2/12/2029

Beth K. McCord, Deputy State Historic Preservation Officer

**INVITED SIGNATORY** 

INDIANA DEPARTMENT OF TRANSPORTATION

By: LEHilden

Laura Hilden, Environmental Services Director

Date: 11/16/2022

# Optional: INVITED SIGNATORY

CITY OF GREENSBURG

Costus L. Marsh

By:

Joshua Marsh, Mayor

Date: <u>11/17/2022</u>



# **INDIANA DEPARTMENT OF TRANSPORTATION**

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

PHONE: (855) 463-6848

Eric Holcomb, Governor Michael Smith, Commissioner

January 3, 2023

This letter was sent to the listed parties.

RE: Final Memorandum of Agreement (MOA) Dual Review Project SR 46 Pavement Replacement Project Des. Nos. 1800255 & 1800256 DHPA No. 25043 Greensburg, Decatur County, Indiana

Dear Consulting Party,

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with the SR 46 Pavement Replacement project, Des. Nos. 1800255 & 1800256.

This letter is part of the Section 106 review process for this project. Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic and archaeological properties.

A Section 106 early coordination letter (ECL) was distributed on February 12, 2020. In addition, a letter distributed on February 18, 2021, notified consulting parties that a historic property report (HPR) and archaeology report (tribes only) were available for review and comment. An Effect Letter was distributed to consulting parties on July 22, 2021, and a Consulting Party Meeting was held on August 11, 2021. The Consulting Party Meeting minutes were distributed to consulting parties on August 27, 2021. An additional coordination letter (with survey to property owners and residents of the Eastside Residential Historic District) was distributed on January 11, 2022. The Adverse Effect Section 106 finding (800.11e) documentation and a draft Memorandum of Agreement (MOA) were distributed to consulting parties on July 20, 2022.

The proposed undertaking is on SR 46 from the east junction with SR 3 through the west junction with US 421, approximately 1.8 miles in length; and from the east junction with US 421 to approximately 0.8 mile east of the east junction with US 421 in Greensburg, Decatur County, Indiana. It is within Washington Township, on the *Forest Hill, IN* and *Greensburg, IN* USGS topographic quadrangles, in Township 10 North, Range 9 East, sections 1-3, 9-12. The project area can be viewed online at <a href="https://arcg.is/jqueP">https://arcg.is/jqueP</a> (the Des. No. is the most efficient search term once in the CRO - Public Web Map App).



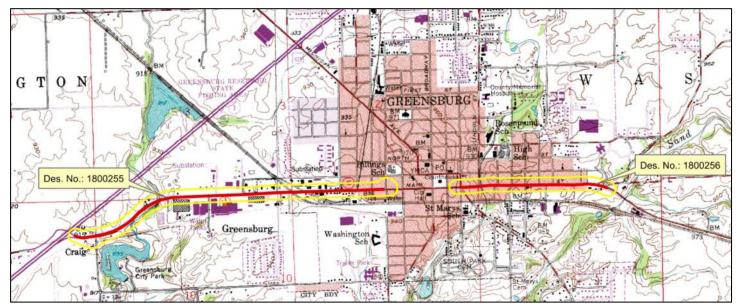


Figure 1: Project location on USGS Topographic Map (1:24,000)

The need for these projects is based on the existing pavement deterioration, insufficient drainage, and lack of Americans with Disabilities Act (ADA)-compliant pedestrian facilities. The pavement failure is exhibited by traverse cracking, rutting, wheel path fatigue cracking, previous patching, and isolated areas with potholes. Water regularly ponds along the project area and contributes to the poor pavement conditions. The pedestrian facilities do not meet current ADA standards.

The purpose of these projects is to add service life to the pavement, improve the overall pavement condition, remove ponding water to further improve pavement life, and upgrade pedestrian facilities to current ADA compliance standards.

The proposed alternative for these projects would involve replacing the existing pavement, replacing the curbs and gutters, installing new storm sewer inlets and lines, and replacing/extending pedestrian facilities. The proposed alternative meets the purpose and the need because it extends the service life of the roadway, addresses water ponding issues, and provides ADA-compliant pedestrian facilities.

**Des. No. 1800255 (West of US 421):** The proposed alternative from the western limits (SR 3) to the railroad crossing, approximately 1.3 miles, recommends hot mix asphalt (HMA) preventative maintenance milling (1.5 inches) and overlay (including shoulders), with partial and full-depth patching at selected locations. From the railroad crossing through the west junction with US 421-- approximately 0.5 mile-- the recommended alternative involves full-depth reconstruction at or near the existing grade. The recommended typical section is two (2) 12-foot lanes with a curb and gutter. Additional work will include: 1) replacing the curb and gutters (moving in slightly to reduce the overall pavement width); 2) replacing the storm sewer and installing new inlets; 3) replacing all curb ramps to current ADA standards; 4) replacing existing sidewalks and adding sidewalks to current gaps; 5) regrading and reconstructing driveway approaches as necessary; 6) removing four trees in the grass buffer (lawn between back of curb and sidewalk, and trees are not adjacent to any historic resources); and 7) installing street lights and replacing the watermain (funded by the City of Greensburg). Additionally, the intersection at the west junction of SR 46 and US 421 (locally known as Main Street and Ireland Street) will be reconstructed. The intersection work includes new storm sewer and inlets, improved turning radii of the northeast quadrant (moving the new curb to roughly the back of the existing sidewalk), adjusting the signal pole locations, and replacing curb ramps to current ADA standards.



**Des. No. 1800256 (East of US 421):** The proposed alternative from the western limits (east junction with US 421) to the Greensburg Public Library recommends a full-depth pavement replacement and some reduction to the pavement widths. From the library to the eastern project limits, HMA preventative maintenance overlay is recommended. The recommended typical section is two (2) 12-feet wide travel lanes (and some 8-feet wide parking lanes) with a curb and gutter. Additional work will include: 1) replacing the curb and gutters; 2) replacing the storm sewer and installing new inlets; 3) reconstructing curb ramps to current ADA standards; 4) reconstructing sidewalks (5-feet wide along the south side and expanding to an 8 to 10-ft wide multi-use path<sup>1</sup> along the north side); 5) extending the sidewalk (on the northside) in front of the Greensburg Public Library to Washington Street; 6) replacing walkway approaches between the sidewalk and curb line; 7) regrading driveway approaches; 8) removing trees in the grass buffer (lawn between back of curb and sidewalk); and 9) installing new streetlights (matching those recently installed on Lincoln Street), funded by the City of Greensburg.

The project is anticipated to be let in 2024. Through further design development, the apparent existing right-ofway was determined to vary through the project area 0-15 feet from the edge of pavement and/or the back of existing sidewalk (0-15 feet); and the anticipated right-of-way amounts have been refined and reduced. At this time, anticipated right of way is not expected to exceed approximately 1.1 acres of temporary right-of-way and approximately 0.9 acre of permanent right-of-way. The temporary right-of-way is anticipated for drive reconstruction and grading behind pedestrian facility construction. Access to residences and businesses along SR 46 will be continuously maintained during construction. It is anticipated that the road will need to be closed due to the extent of watermain, sanitary, and storm sewer replacement in the project area.

Michael Baker International, Inc. and RQAW are under contract with INDOT to advance the environmental documentation for the referenced project. RQAW (above-ground) and CRA (archaeology) have been subcontracted to complete the Section 106 documentation for the project.

In accordance with 36 CFR 800.2 (c), you were invited to become a consulting party as part of the Section 106 process. Entities that have previously accepted consulting party status are identified in bold in the attached list.

The Section 106 process involves efforts to identify historic properties potentially affected by the undertaking, to assess the undertaking's effects and to seek ways to avoid, minimize, or mitigate any adverse effects on historic properties. For more information regarding the protection of historic resources, please see the Advisory Council on Historic Preservation's guide: *Protecting Historic Properties: A Citizen's Guide to Section 106 Review* available online at <a href="https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf">https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf</a>.

Please note that, per the permanent rule issued by the Indiana Department of Natural Resources effective August 14, 2013 (312 IAC 20-4-11.5), INDOT is requesting that this project be subjected to "dual review"; that is, reviewed by the Division of Historic Preservation and Archaeology simultaneously under 54 U.S.C. 306108 (Section 106) and IC 14-21-1-18 (Indiana Preservation and Archaeology Law dealing with alterations of historic sites and structures requiring a Certificate of Approval). Pursuant to Section 11.5(f) of this rule, at the conclusion of the review process we anticipate that the Division Director would issue a letter of clearance exempting this project from obtaining a Certificate of Approval under IC 14-21-1-18. Enclosed with this letter is a detailed list of the consulting parties with contact information, including email addresses, for processing the dual review submission.



<sup>&</sup>lt;sup>1</sup> The multi-use path will be 8-feet wide concrete within the Greensburg Eastside Residential Historic District and 10-feet wide asphalt east of the district.

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. The APE contains two resources listed in the State Register and/or National Register of Historic Places ("NRHP"): the Greensburg Downtown Historic District (NR-1261) and the Charles Zoller House (NR-0308) at 345 E. Main Street (State Register only).

A historian who meets the Secretary of the Interior's Professional Qualification Standards identified and evaluated above-ground resources within the APE for potential eligibility for the NRHP. The Greensburg Eastside Residential Historic District (IHSSI # 031-252-23001 to 068) was previously determined eligible for listing in the NRHP during the SR 46 Small Structure Replacement project (INDOT, Des. No.: 1400150).<sup>2</sup> As a result of the historic property identification and evaluation efforts, the Greensburg Eastside Residential Historic District continues to be recommended as eligible for listing in the NRHP.

For purposes of the Section 106 review, in a letter dated March 22, 2021, the SHPO staff agreed "with the conclusion of the HPR that the Greensburg Downtown Historic District (NR-1261) is listed in the NRHP; the Charles Zoller House is listed in the Indiana Register of Historic Sites and Structures--and it is eligible for inclusion in the NRHP--and the Greensburg Eastside Residential Historic District is eligible for inclusion in the NRHP."

With regard to archaeological resources, an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards identified three (3) sites within the project area. The current reconnaissance resulted in the documentation of three previously unrecorded archaeological sites (12De1011–12De1013). These three sites are historic artifact scatters that range from the mid-nineteenth through the twentieth centuries. Overall, these sites exhibited poor archaeological integrity and are recommended not eligible for inclusion in the NRHP. Thus, no further work is recommended for the sites, and archaeological clearance is recommended for the proposed project. Please see the Phase Ia report (tribes only) distributed with the letter dated February 18, 2021.

In the same letter dated March 22, 2021, the Indiana SHPO staff confirmed that, based on submitted information, there is insufficient information regarding the archaeological sites to determine whether they are eligible for inclusion in the NRHP. The Indiana SHPO staff concurred with the opinion of the archaeologists "that the portions of these sites that lie within the proposed project area do not appear to contain significant archaeological deposits, and that no further archaeological investigations appear necessary at the proposed project area." No other responses to the distribution of the HPR and archaeology report were received.

To meet the public involvement requirements of Section 106, a legal notice of FHWA's finding of "Adverse Affect" was published in the *Greensburg Daily News* on July 26, 2022, offering the public an opportunity to submit comment pursuant to 36 CFR 800.2(d), 800.3(e), and 800.6(a)(4). The public comment period closed on August 30, 2022, and no comments were received.

In a letter dated August 22, 2022, the Indiana SHPO staff responded to the July 20, 2022 correspondence by stating,

We concur with FHWA's Section 106 finding of No Adverse Effect for the Greensburg Downtown Historic District and the Charles Zoller House. We also concur with FHWA's Section 106 finding of "Adverse Effect" for the Greensburg Eastside Residential Historic



<sup>&</sup>lt;sup>2</sup> Sue Becher Gilliam, "Historic Property Report For State Route 46 Small Structure Replacement Project over Gas Creek Greensburg, Washington Township, Decatur County, Indiana (Des. No. 1400150)" (Indianapolis, Indiana: CEC, September 2015); Mitchell K. Zoll, "HPR for SR 46 Small Structure Replacement Project over Gas Creek, (Des. No. 1400150) (DHPA No. 18126)," November 2, 2015.

District. Accordingly, we concur with FHWA's July 20, 2022, overall Section 106 finding of "Adverse Effect" for this federal undertaking.

Furthermore, we also concur that the undertaking's temporary occupancy requirements for the Charles Zoller House and the Greensburg Eastside Residential Historic District have been meet and that it does not constitute a Section 4(f) use.

The letter continued, making the following comment,

We have a recommendation regarding the Draft Memorandum of Agreement. In the III. POST-REVIEW DISCOVERY section, we recommend the following revision:

- When indicating that any necessary archaeological investigations will be conducted according to the provisions of IC 14-21-1, 312 IAC 21, and the *Guidebook for Indiana Historic Sites and Structures Inventory*—*Archaeological Sites*; please include reference to 312 IAC 22.

Other than this revision, we find the conditions and stipulations acceptable. Once the preceding revision has been made to the Draft MOA, unless another consulting party disagrees with the finding documentation or the language of the Draft MOA, it might be appropriate to finalize the MOA and circulate it for signature. Once the MOA is ready for signature, then we will consider whether it is appropriate to issue a Director's Letter of Clearance for this project, indicating compliance with Indiana Code 14-21-1-18.

In a letter dated August 26, 2022, the Advisory Council on Historic Preservation (ACHP) responded to a request to participate. Because the ACHP did not respond to the invitation within 15 days, they assumed FHWA continued consultation to resolve the project's adverse effects. The letter, however, stated, "if we [ACHP] receive a request for participation from the State Historic Preservation Officer, Tribal Historic Preservation Officer, affected Indian tribe, a consulting party, or other party, we may reconsider this decision."

No other responses to the July 20, 2022 correspondence have been received. The requested change, per the Indiana SHPO's comment, has been made to the MOA. Please see the Indiana SHPO letter dated August 22, 2022, and the ACHP letter dated August 26, 2022, attached to this correspondence.

At this time, the signed MOA is being circulated. A copy of the MOA is located in IN SCOPE at <u>https://erms12c.indot.in.gov/Section106Documents/</u> (the Des. No. is the most efficient search term, once in IN SCOPE). If a hard copy of the materials is needed, please respond to this correspondence with your request within seven (7) days.

For questions concerning specific project details, you may contact Kyle Boot of RQAW at 317-588-1762 or <u>kboot@rqaw.com</u>. All future responses regarding the proposed project, including executed signature pages, should be forwarded to RQAW at the following address:

Kyle Boot Architectural Historian RQAW 8770 North Street, Suite 110 Fishers, IN 46038 <u>kboot@rqaw.com</u>.



*Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon* at <u>mcoon@indot.in.gov</u> (317-697-9752) with any responses pertaining to this project including to provide INDOT/Indiana FHWA additional information about Tribal resources/concerns and questions/comments regarding cultural resources. The FHWA point of contact is Kari Carmany-George at <u>K.CarmanyGeorge@dot.gov</u> (317-226-5629).

Sincerely,

Matthew S. Coon, Acting Manager Cultural Resources Office Environmental Services

Enclosures:

MOA Indiana SHPO letter dated August 22, 2022 ACHP letter dated August 26, 2022

Distribution List (entities that have accepted consulting party status are in bold):

Chad Slider, for Indiana State Historic Preservation Officer (SHPO), cslider@dnr.in.gov, wtharp@dnr.in.gov Chuck Emsweller, Decatur County Commissioner, chuckemsweller@gmail.com Ronald L. May, P.E., Greensburg City Engineer, rmay@greensburgh.in.gov Joshua Marsh, Greensburg Mayor, jmarsh@greensburg.in.gov Mark Klosterkemper, Greensburg Street Commissioner, mklosterkemper@cityofgreensburg.com Sarah Hamer, Building Commissioner and Greensburg Historic Preservation Committee Chair, shamer@greensburg.in.gov Jose & Shirley Pastagal, Property Owners of the Charles Zoller House, 345 E Main Street, Greensburg, IN 47240 Eastern Shawnee Tribe of Oklahoma Miami Tribe of Oklahoma Peoria Tribe of Indians of Oklahoma Pokagon Band of Potawatomi Indians Delaware Tribe of Indians, Oklahoma Shawnee Tribe Brittany Miller, Indiana Landmarks Eastern Regional Office, bmiller@indianalandmarks.org Survey respondents of the following house numbers on Main Street (SR 46) within the Greensburg Eastside Residential Historic District: 420, 602, 615, 629, 630



# Kyle J. Boot

From:	Kyle J. Boot
Sent:	Tuesday, January 3, 2023 12:08 PM
То:	Slider, Chad (DNR); Tharp, Wade; chuck emsweller; rmay@greensburg.in.gov; Joshua
	Marsh; mklosterkemper@greensburg.in.gov; shamer@greensburg.in.gov; Brittany Miller
Cc:	Alexander, Kelyn; Terry Summers (TSUMMERS@indot.IN.gov); Susan Branigin
	(sbranigin@indot.IN.gov); Coon, Matthew; Harlan Ford; Hannah Kopf; Joseph
	Dabkowski; Wilcox, Mitchell; Curtis, William; Jack, Laura; Molnar, Katherine J
Subject:	FHWA Project: Des. Nos. 1800255 and 1800256; Final MOA, SR 46 Pavement
	Replacement Project, Decatur County, Indiana
Attachments:	SR46Greensburg_Des1800255&1800256_RDL_2023-01-03.pdf;
	SR46Greensburg_Des1800255and1800256_ExecutedFinalMOA_2022-12-20.pdf

# Des. Nos.: 1800255 and 1800256 Project Description: SR 46 Pavement Replacement Location: City of Greensburg, Decatur County, Indiana

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with the SR 46 Pavement Replacement project, Des. Nos. 1800255 & 1800256.

A fully executed Memorandum of Agreement (MOA) is available for your files. You can view the MOA electronically by accessing INDOT's Section 106 document posting website IN SCOPE at <a href="https://erms12c.indot.in.gov/Section106Documents/">https://erms12c.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE). If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

*Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon* <u>mcoon@indot.in.gov</u>; (317-697-9752) with any responses pertaining to this project including to provide INDOT/Indiana FHWA additional information about Tribal resources/concerns and questions/comments regarding cultural resources. The FHWA point of contact is Kari Carmany-George at <u>K.CarmanyGeorge@dot.gov</u> (317-226-5629).

Thank you in advance for your input, Kyle Boot



# **KYLE BOOT**

LEAD ARCHITECTURAL HISTORIAN O: 317.588.1762 8770 North St., Ste. 110, Fishers, IN 46038 www.rgaw.com

f 💿 in

"Best Places to Work in Indiana" Since 2018

1

# Kyle J. Boot

From:	Alexander, Kelyn <kalexander3@indot.in.gov></kalexander3@indot.in.gov>
Sent:	Tuesday, January 3, 2023 12:18 PM
То:	THPO@MiamiNation.com; thpo@estoo.net; Charla EchoHawk
Cc:	Carmany-George, Karstin (FHWA); Coon, Matthew; Kyle J. Boot; Branigin, Susan
Subject:	RE: FHWA Project: Des. Nos. 1800255 and 1800256; Final MOA, SR 46 Pavement
	Replacement Project, Decatur County, Indiana
Attachments:	SR46Greensburg_Des1800255&1800256_RDL_2023-01-03.pdf; SR46Greensburg_Des1800255and1800256_ExecutedFinalMOA_2022-12-20.pdf

**Caution:** This e-mail originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

# Des. Nos.: 1800255 and 1800256 Project Description: SR 46 Pavement Replacement Location: City of Greensburg, Decatur County, Indiana

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with the SR 46 Pavement Replacement project, Des. Nos. 1800255 & 1800256.

A fully executed Memorandum of Agreement (MOA) is available for your files. You can view the MOA electronically by accessing INDOT's Section 106 document posting website IN SCOPE at <a href="https://erms12c.indot.in.gov/Section106Documents/">https://erms12c.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE). If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

*Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon* <u>mcoon@indot.in.gov</u>; (317-697-9752) with any responses pertaining to this project including to provide INDOT/Indiana FHWA additional information about Tribal resources/concerns and questions/comments regarding cultural resources. The FHWA point of contact is Kari Carmany-George at <u>K.CarmanyGeorge@dot.gov</u> (317-226-5629).

Thank you in advance for your input,

#### **Kelyn Alexander**

Major Projects/LPA Review Liaison Cultural Resources Office Environmental Services 100 N. Senate Ave., Room N758-ES Indianapolis, IN 46204 Office: (317) 519-7759 Remote: 8am-4pm Email: kalexander3@indot.in.gov

\*\*Link to the CRO-Public Web Map App can be found here

1

# Kyle J. Boot

From:	Alexander, Kelyn <kalexander3@indot.in.gov></kalexander3@indot.in.gov>
Sent:	Tuesday, January 3, 2023 12:36 PM
То:	Mandy Ranslow
Cc:	Tait, Erica (FHWA); Kyle J. Boot; Coon, Matthew; Branigin, Susan
Subject:	FHWA-IN Project: Notification of MOA-SR 46 Pavement Replacement Project,
	Greensburg, Decatur County, Indiana (Des. Nos. 1800255 & 1800256; ACHP #18580)
Attachments:	SR46Greensburg_Des1800255&1800256_RDL_2023-01-03.pdf;
	SR46Greensburg_Des1800255and1800256_ExecutedFinalMOA_2022-12-20.pdf

**Caution:** This e-mail originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Mandy,

Pursuant to 36 CFR §800.6(b)(1)(iv), attached is the Memorandum of Agreement (MOA) for the SR 46 Pavement Replacement Project in Greensburg, Decatur County, Indiana (ACHP #18580).

This MOA was developed in consultation with the Indiana State Historic Preservation Officer (SHPO) and other consulting parties. The related documentation was sent to the Advisory Council on Historic Preservation (ACHP) on July 20, 2022, and in correspondence dated August 26, 2022, the ACHP noted that since no response was received within 15 days, non-participation was likely presumed. However, the letter also noted that if a request for the ACHP's participation was received, the decision to not participate would be reconsidered.

The filing of this MOA and supporting documentation with the ACHP completes the requirements of Section 106 of the National Historic Preservation Act.

If you have any questions or require our further assistance, please let me know.

Thank you,

Kelyn Alexander Major Projects/LPA Review Liaison Cultural Resources Office Environmental Services 100 N. Senate Ave., Room N758-ES Indianapolis, IN 46204 Office: (317) 519-7759 Remote: 8am-4pm Email: kalexander3@indot.in.gov

\*\*Link to the CRO-Public Web Map App can be found here

1



# EASTERN SHAWNEE CULTURAL PRESERVATION DEPARTMENT

70500 East 128 Road, Wyandotte, OK 74370

January 24, 2023 INDOT - Indiana Department of Transportation 100 N. Senate Ave. IGCN642 Indianapolis, IN 46201

# RE: Des No. 1800255 and 1800256, Decatur County, Indiana

Dear Mr. Coon,

The Eastern Shawnee Tribe has received your letter regarding the above referenced project(s) within Decatur County, Indiana. The Eastern Shawnee Tribe is committed to protecting sites important to Tribal Heritage, Culture and Religion. Furthermore, the Tribe is particularly concerned with historical sites that may contain but not limited to the burial(s) of human remains and associated funerary objects.

As described in your correspondence, and upon research of our database(s) and files, we find our people occupied these areas historically and/or prehistorically. However, the project proposes **NO Adverse Effect** or endangerment to known sites of interest to the Eastern Shawnee Tribe. Please continue project as planned. However, should this project inadvertently discover an archeological site or object(s) we request that you immediately contact the Eastern Shawnee Tribe, as well as the appropriate state agencies (within 24 hours). We also ask that all ground disturbing activity stop until the Tribe and State agencies are consulted. Please note that any future changes to this project will require additional consultation.

In accordance with the NHPA of 1966 (16 U.S.C. § 470-470w-6), federally funded, licensed, or permitted undertakings that are subject to the Section 106 review process must determine effects to significant historic properties. As clarified in Section 101(d)(6)(A-B), historic properties may have religious and/or cultural significance to Indian Tribes. Section 106 of NHPA requires Federal agencies to consider the effects of their actions on all significant historic properties (36 CFR Part 800) as does the National Environmental Policy Act of 1969 (43 U.S.C. § 4321-4347 and 40 CFR § 1501.7(a). This letter evidences NHPA and NEPA historic properties compliance pertaining to consultation with this Tribe regarding the referenced proposed projects.

Thank you, for contacting the Eastern Shawnee Tribe, we appreciate your cooperation. Should you have any further questions or comments please contact our Office.

Sincerely,

Paul Barton, Tribal Historic Preservation Officer (THPO) Eastern Shawnee Tribe of Oklahoma (918) 666-5151 Ext:1833 THPO@estoo.net

# Categorical Exclusion Appendix E Red Flag and Hazardous Materials



# **INDIANA DEPARTMENT OF TRANSPORTATION**

100 North Senate Avenue Room N642 Indianapolis, Indiana 46204 PHONE: (317) 232-5113 FAX: (317) 233-4929 Eric Holcomb, Governor Joe McGuinness, Commissioner

Date: March 25, 2021

- To: Site Assessment & Management (SAM) Environmental Policy Office - Environmental Services Division (ESD) Indiana Department of Transportation 100 N Senate Avenue, Room N642 Indianapolis, IN 46204
- From: Cameron Fraser RQAW Corporation 8770 North Street; Suite 110 Fishers, Indiana 46038 cfraser@rqaw.com
- Re: RED FLAG INVESTIGATION Des. Numbers 1800255 & 1800256, State Project Pavement Improvement Projects State Route (SR) 46, City of Greensburg Decatur County, Indiana

#### **PROJECT DESCRIPTION**

Brief Description of Project: The Federal Highway Administration (FHWA) and Indiana Department of Transportation (INDOT), Seymour District propose to proceed with a pavement improvement project on SR 46 in Decatur County, Indiana. The proposed project is divided into two (2) sections with two (2) separate Designation (Des) Numbers (No.); Des No. 1800255 and Des No. 1800256.

The project limits of Des No. 1800255 are from SR 3 to the west junction with United States Highway (US) 421, totaling approximately 1.8 miles in length. From the SR 3 intersection to the Central Railroad Company of Indiana (CIND) railroad crossing, the proposed project will involve milling and Hot Mix Asphalt (HMA) preventative maintenance overlay (including shoulders), with partial and full depth pavement patching at various locations. From the CIND railroad crossing to the west junction with US 421, the proposed project will involve a full depth pavement replacement. Also included in this section of the project will be the replacement and/or construction of a stormwater sewer system with curb and gutter. The intersections of West Street, Carver Street, and Anderson Street will be reconstructed to meet current Americans with Disabilities Act (ADA) and Public Right of Way Accessibility Guidelines (PROWAG) standards. The existing sidewalks along SR 46 from a point 400 feet west of the intersection of West Street to the west junction of US 421 will be reconstructed if not existing.

The project limits of Des. No. 1800256 are from the east junction with US 421 to Base Road, totaling approximately 0.8 miles in length. The proposed project will involve full depth pavement replacement, and reconstruction/construction of sidewalks along SR 46 from the east junction of US 421 to the drive to the Greensburg Public Library (approximately 0.09 mile west of the Base Road intersection). Along the north side of SR 46, the existing sidewalk will be replaced with a multi-use path. The replacement and/or construction of a stormwater sewer system with curb and gutter will also be

included for this portion of the project. From the drive to the Greensburg Public Library to the eastern project termini, an HMA preventative maintenance overlay is anticipated.

Bridge and/or Culvert Work Included in Project: Yes □ No ⊠ Structure #(s)\_\_\_\_

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

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

Proposed right of way: Des No. 1800255: Temporary 🛛 <u>0.70 acres</u>, Permanent 🖾 <u>0.80 acres</u>, Not Applicable 🗌 Des No. 1800256: Temporary 🖾 0.30 acres, Permanent 🖾 0.95 acres, Not Applicable 🗌

Type of excavation: For areas of both projects involving full depth pavement replacement and storm sewer replacement, the maximum depth of excavation is not expected to exceed 10 feet below ground surface (bgs). Maintenance of traffic: The maintenance of traffic (MOT) for both projects may consist of lane closures utilizing standard

flagging operations, and possible detours.

Work in waterway: Yes  $\boxtimes$  No  $\square$  Below ordinary high water mark: Yes  $\boxtimes$  No  $\square$ 

State Project: 🛛 LPA: 🗌

Any other factors influencing recommendations: N/A

#### **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	9*	Recreational Facilities	13*
Airports <sup>1</sup>	1	Pipelines	8
Cemeteries	4	Railroads	6
Hospitals	1	Trails	4
Schools	4	Managed Lands	1

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

**Religious Facilities:** \*Nine (9) religious facilities are located within the 0.5 mile search radius. The nearest facility, Wesleyan Church, is mapped adjacent to the project area for Des No. 1800256. However, upon further investigation on Google earth, Wesleyan Church is no longer in operation. The nearest religious facility, St. Mary Catholic Church, is located 0.10 mile south of the western project area terminus for Des No. 1800256. No impact is expected.

**Airports:** One (1) public airport is located within the 0.5 mile search radius. The public airport, Greensburg Municipal Airport, is located approximately 0.14 mile southwest of the western project area terminus for Des No.1800255; therefore, early coordination with INDOT Aviation will occur.

**Cemeteries:** Four (4) cemeteries are mapped within the 0.5 mile search radius. The nearest cemetery, South Park Cemetery, is located 0.23 mile south of the western project area terminus for Des No. 1800256. No impact is expected.

**Hospitals:** One (1) hospital is located within the 0.5 mile search radius. The Decatur County Hospital is located approximately 0.43 mile north of the western portion of the project area for Des No. 1800256. No impact is expected.

**Schools:** Four (4) schools are located within the 0.5 mile search radius. The nearest school, Saint Matty School, is mapped 0.11 mile south of the western project area terminus for Des No. 1800256. No impact is expected.

**Recreational Facilities:** \*Thirteen (13) recreational facilities are mapped within the 0.5 mile search radius. The recreational facility, Greensburg Community Jr High/Rosenmund Elementary School is mapped adjacent to the project area for Des No. 1800256. However, the recreational facility is actually located 0.13 mile north of the western project area terminus for Des No. 1800256. One (1) recreational facility, Oddfellows/Rebekah Park, is located adjacent to the eastern project area terminus for Des No. 1800256. Coordination the Decatur County Parks and Recreation Department will occur.

Two (2) recreational facilities are located adjacent to the project areas for Des No. 1800255. Greensburg City Park and Greensburg Country Club are located adjacent to the south of the western portion of the project area for Des No. 1800255. Coordination the Decatur County Parks and Recreation Department and Greensburg Country Club will occur.

**Pipelines:** Eight (8) pipeline segments are located within the 0.5 mile search radius. Two (2) pipeline segments, associated with Indiana Gas Company, are located adjacent to the south of the project area for Des No. 1800255, and one (1) pipeline segment, associated with Indiana Gas Company, intersects the central portion of the project area for Des No. 1800255. Coordination with INDOT Utilities and Railroads will occur.

**Railroads:** Six (6) railroads are located within the 0.5 mile search radius. Four (4) railroad segments, associated with CIND railroad, are located adjacent to the project area for Des No. 1800255, and one (1) railroad segment, associated with CIND railroad, intersects the eastern portion of the project area for Des No. 1800255. Coordination with INDOT Utilities and Railroads will occur.

**Trails:** Four (4) trails are located within the 0.5 mile search radius. The nearest trail segment, Greensburg Bicycle/ Pedestrian Path, is a planned trail segment located adjacent to the south of the project area for Des No. 1800255. Coordination with the City of Greensburg will occur.

**Managed Lands:** One (1) Managed Land is located within the 0.5 mile search radius. Greensburg City Park is located adjacent to the south of the western project area terminus for Des No. 1800255. Coordination with the Decatur County Parks & Recreation Department will occur.

Water Resources Indicate the number of items of cor please indicate N/A:	ncern found wit	hin the 0.5 mile search radius. If the	ere are no items
NWI - Points	1	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	13
Canal Structures – Historic	N/A	Lakes	7
NPS NRI Listed	N/A	Floodplain - DFIRM	46
NWI-Lines	12	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	2	Sinkhole Areas	N/A
Rivers and Streams	20	Sinking-Stream Basins	N/A

# WATER RESOURCES TABLE AND SUMMARY

**National Wetlands Inventory (NWI) – Points:** One (1) NWI – Point is located within the 0.5 mile search radius. The nearest NWI – Point is located approximately 0.17 mile south of the western portion of the project area for Des No. 1800256. No impact is expected.

**NWI-Lines:** Twelve (12) NWI-Line segments are located within the 0.5 mile search radius. Two (2) NWI-Line segments are located within the project areas for Des Nos. 1800255 and 1800256. One (1) NWI-Line segment intersects the western portion of the project area for Des No. 1800255, and one (1) NWI-Line segment intersects the western portion of the project area for Des No. 1800256. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

**Indiana Department of Environmental Management (IDEM) 303d Listed Streams and Lakes (Impaired):** Two (2) impaired stream segments are located within the 0.5 mile search radius. The nearest impaired stream segment is located approximately 0.10 mile southeast of the eastern portion of the project area for Des No. 1800256. No impact is expected.

**Rivers and Streams:** Twenty (20) River and Stream segments are located within the 0.5 mile search radius. Three (3) stream segments are located within the project areas for Des Nos. 1800255 and 1800256. Two (2) stream segments are located within the western portion of the project area for Des No. 1800255. One (1) stream segment intersects the eastern portion of the project area for Des No. 1800256. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

**NWI- Wetlands:** Thirteen (13) NWI-Wetland polygons are located within a 0.5 mile search radius. The nearest NWI-Wetland polygon is located 0.06 mile south of the western portion of the project area for Des No. 1800255. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

**Lakes:** Seven (7) lakes are located within a 0.5 mile search radius. The nearest lake, Greensburg City Park Lake is located adjacent to the western portion of the project area for Des No. 1800255. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

**Floodplain – Digital Insurance Flood Rate Map (DFIRM):** Forty-six (46) Floodplain-DFIRM polygons are located within a 0.5 mile search radius. Five (5) Floodplain-DFIRM Polygons are located within the project area for Des No. 1800255. Four (4) Floodplain-DFIRM polygons are located within the project area for Des No. 1800256, and one (1) Floodplain-DFIRM polygon is located adjacent to the south of the western portion of the project area for Des No. 1800256. Coordination with INDOT ES Ecology and Waterway Permitting will occur.

# MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

#### Mining/Mineral Exploration

Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:

Petroleum Wells	31	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

**Petroleum Wells:** Thirty-one (31) petroleum wells are located within the 0.5 mile search radius. Four (4) petroleum wells are located adjacent to the project area for Des No. 1800255. One (1) petroleum well is located adjacent to the north of the western portion of the project area, two (2) petroleum wells are located adjacent to the south of the central portion of the project area, and one (1) petroleum well is located adjacent to the south of the project area. Coordination with Indiana Department of Natural Resources (IDNR) Oil and Gas Division will occur.

....

Hazardous Material Concerns Indicate the number of items of conc please indicate N/A:	ern found wit	hin the 0.5 mile search radius. If there	are no items,
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	4	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	4	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	21	Confined Feeding Operations (CFO)	1
Voluntary Remediation Program	1	Brownfields	3
Construction Demolition Waste	N/A	Institutional Controls	10
Solid Waste Landfill	N/A	NPDES Facilities	4
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	N/A
Leaking Underground Storage Tank (LUST) Sites	16	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). Please note that hazardous material descriptions below progress beginning with the western limits of the project area for Des No. 1800255 and ending at the eastern limits of the project area for Des No. 180256.

**Resource Conservation and Recovery Act (RCRA) Generator/ Treatment, Storage, Disposal (TSD):** Four (4) RCRA generators are located within the 0.5 mile search radius. Two (2) RCRA generator sites are located in the vicinity of the project area. A discussion for each of the two (2) RCRA generator sites is provided below.

Printpack Incorporated, 1505 West Main Street (AI ID 15005), is located adjacent to the south of the central portion of the project area for Des No. 1800255. According to the February 24, 2014 Hazardous Waste Generator Form, this site no longer generates hazardous materials; however, documentation reviewed indicates that a release occurred. Refer to LUST section for more details. No impact is expected.

Delta Faucet Company, 1425 West Main Street (AI ID 15043), is located adjacent to the south of the central portion of the project area for Des No. 1800255. This facility is a Large Quantity Generator of hazardous wastes, including corrosive liquids. IDEM conducted a facility inspection on November 6, 2017, and no violations were found. No impact is expected.

**State Cleanup Sites:** Four (4) State Cleanup Sites are located within the 0.5 mile search radius. One (1) State Cleanup site is located in the vicinity of the project area. McClintic Oil Site (Arthur & Delbert McClintic), 905 East Main Street (AI ID 4861), is located adjacent to the south of the eastern portion of the project area for Des No. 1800256. This site was formerly the location of a gas station and automotive shop. Several underground storage tanks (USTs) were removed from the site, with remediation activities following the removal work. All confirmation samples collected after remediation work demonstrated that all contaminated soil had been removed. IDEM issued a No Further Action (NFA) on November 3, 2000. No impact is expected.

**Underground Storage Tank (UST) Sites:** Twenty-two (22) UST sites, one (1) unmapped and twenty-one (21) mapped, are located within the 0.5 mile search radius. Seven (7) sites are located in the vicinity of the project area. A discussion for each of the seven (7) sites is provided below.

Green Barn USA, SR 46 and Sunset Drive (AI ID 4640), is located adjacent to the north of the central portion of the project area for Des No. 1800255. According to the October 17, 1991 Notification of Underground Storage Tanks, one (1) 3,000-gallon UST of unknown age was taken out of service in October 1991. No other information regarding the current status of the tank was found in the IDEM VFC. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

Kiel Brothers Oil Bulk Plant, 1010 West Main Street (AI ID 3415), is mapped adjacent to the south of the central portion of the project area for Des No. 1800255. No information was found in the IDEM VFC for this UST site. The current status of the UST is unknown; therefore, in addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

Muncie Bread Company (Caldron Brothers Vending Incorporated) 117 South Anderson Street (AI ID 2828), is located approximately 0.02 miles south of the eastern portion of the project area for Des No. 1800255. According to the September 4, 1990 Notification of Underground Storage Tanks, one (1) 550-gallon UST was taken out of service in August 1990. The tank was removed from the ground; however, it does not appear as though confirmatory soil or groundwater samples were taken during UST removal. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

Scripture (Garry Hadler) Chrysler Plymouth Dodge (CPD) Incorporated (also listed as Water Tower Center), 325 West Main Street (AI ID 1768), is located adjacent to the southeast of the eastern project area terminus for Des No. 1800255. The UST was emptied and has not been in use since 1983. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

Bigfoot No. 64, 101 North Lincoln Street (AI ID 2375), is located adjacent to the north of the western project area terminus for Des No. 1800256. IDEM conducted a UST inspection on April 24, 2018, and the facility was found to be out of compliance with equipment, operating, and maintenance requirements set forth in Indiana's UST Rule 329 IAC 9; however, documentation reviewed does not indicate that a release occurred. No impact is expected.

McClintic Oil Site (Arthur & Delbert McClintic), 905 East Main Street (AI ID 4861), is located adjacent to the south of the eastern portion of the project area for Des No. 1800256. This site was formerly the location of a gas station and automotive shop. Several USTs were removed from the site, with remediation activities following the removal work. Refer to the State Cleanup section for more details. No impact is expected.

Highway Department, 781 East Base Road (AI ID 2272), is located adjacent to the northeast of the eastern project area terminus for Des No. 1800256. All USTs were excavated along with 8 to 10 yards of soil. Confirmatory soil samples, collected before the excavation pits were backfilled, indicated no contamination was present within the excavation pits. No impact is expected.

**Voluntary Remediation Program (VRP):** One (1) VRP site is located within the 0.5 mile search radius. Advanced Bearing Materials LLC (KS Bearings), 1515 West Main Street (AI ID 15726), is located adjacent to the south of the western portion of the project area for Des No. 1800255. Remediation and monitoring activities are ongoing for this site. Documentation indicated that a large chlorinated volatile organic compound (CVOC) plume is present under portions of the site. A Phase II Environmental Site Assessment is recommended. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.

**Leaking Underground Storage (LUST) Sites:** Sixteen (16) LUST sites are located within the 0.5 mile search radius. Six (6) LUST sites are located in the vicinity of the project area. A discussion for each of the six (6) LUST sites is provided below.

Printpack Incorporated, 1505 West Main Street (AI ID 15005), is located adjacent to the south of the western portion of the project area for Des No. 1800255. IDEM issued an NFA for the site on April 21, 1999. No impact is expected.

Former Brunni Corporation, 1100 West Main Street (AI ID 2010), is located adjacent to the north of the central portion of the project area for Des No. 1800255. IDEM issued an NFA for the site on October 26, 2007. No impact is expected.

Premier Ag Co-op Incorporated, 766 West Main Street (AI ID 14824), is located adjacent to the north of the eastern portion of the project area for Des No. 1800255. During remediation activities, all contaminated soil was removed from the site and placed in a treatment cell. Confirmatory sampling showed that all soil samples were below detection levels. IDEM issued an NFA Determination Pursuant to 1994 UST Branch for the site on August 9, 2006. No impact is expected.

Former Kocolene Service Station, 601 West Main Street (AI ID 2326), is located adjacent to the south of the eastern portion of the project area for Des No. 1800255. This was formally the site of a gas station. IDEM issued an NFA Determination Pursuant to RISC for the site on June 29, 2017. Low levels of soil and groundwater contamination remain on site. An ERC was recorded on the property by Decatur County on September 29, 2016. Refer to the Institutional Controls section for more details. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager, Jeff Turley at <u>jturley@idem.in.gov</u>, identified in the VFC documentation before further site activities occur.

Speedway, 402 West Main Street (AI ID No. 15311), is located adjacent to the north of the eastern portion of the project area for Des No. 1800255. This is currently the site of a gas station. IDEM issued an NFA for the site on October 10, 2002. Low levels of contamination remain on site near the former tank area and does not appear to migrate south towards the project area. On April 26, 2014, a gasoline surface spill occurred. IDEM issued a Spill Recovery Response and NFA Approval for the site on July 23, 2014. No impact is expected.

Ketchum's Shell, 106 South Michigan Avenue (AI ID 2294), is located adjacent to the southwest of the project area for Des No. 1800256. This is the site of an operating gas station. IDEM issued an NFA Determination Pursuant to RISC for the site on December 17, 2012. Low levels of soil and groundwater contamination remain on the site. An ERC was recorded on the property by Decatur County on September 4, 2012. Refer to the institutional controls section for more details. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager, Kay Ifekoya (kifekoya@idem.in.gov), identified in the VFC documentation before further site activities occur.

**Confined Feeding Operations (CFO):** One (1) CFO is located within the 0.5 mile search radius. Fred Sterchi Farm is mapped approximately 0.38 mile west-southwest of the project area for Des No. 1800255. IDEM conducted an inspection of the facility on November 21, 2018, and no violations were discovered with respect to the particular items observed during the inspection. No impact is expected.

**Brownfields:** Three (3) brownfields sites are located within the 0.5 mile search radius. One (1) brownfields site is located in the vicinity of the project area. Former Senior Center, 225 East Main Street (AI ID 6937), is located adjacent to the southwest of the western project area terminus for Des No. 1800256. According to the Site Status Letter issued by IDEM on January 23, 2008, sample results prior to remediation indicated soil and groundwater were impacted by total petroleum hydrocarbons (TPH)-gasoline range organics (GRO)/extended range organics (ERO), VOCs, semivolatile (S)VOCs, arsenic and lead. Current levels of contamination at the site meet current cleanup criteria; however, contamination is present off-site and potentially within the INDOT ROW. If excavation occurs in this area, it is likely that

contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

**Institutional Controls:** Ten (10) Institutional Control sites are located within the 0.5 mile search radius. Nine (9) Institutional Control sites are located in the vicinity of the project area; however, eight (8) of the nine (9) Institutional Control sites are associated with one (1) site (Former Kocolene Service Station). A discussion for the two (2) Institutional Control sites is provided below.

Former Kocolene Service Station, 601 West Main Street (AI ID 2326), is located adjacent to the south of the eastern portion of the project area for Des No. 1800255. This was formally the site of a gas station. An ERC was recorded on the property by Decatur County on September 29, 2016. The ERC specifically prohibits the use or extraction of groundwater, and limits excavation activities. Coordination will be conducted with the IDEM Project Manager, Jeff Turley at jturley@idem.in.gov, identified in the VFC documentation before further site activities occur.

Ketchum's Shell, 106 South Michigan Avenue (AI ID 2294), is located adjacent to the southwest of the project area for Des No. 1800256. This is the site of an operating gas station. Refer to the LUST section for more details. An ERC was recorded on the property by Decatur County on September 4, 2012. The ERC specifically prohibits the use or extraction of groundwater at the site. Coordination will be conducted with the IDEM Project Manager, Kay Ifekoya (kifekoya@idem.in.gov), identified in the VFC documentation before further site activities occur.

**National Pollutant Discharge Elimination System (NPDES) Facilities:** Four (4) NPDES Facilities are located within the 0.5 mile search radius. Two (2) NPDES Facilities are located in the vicinity of the project area. A discussion for the two (2) NPDES Facilities is provided below.

Delta Faucet Company, 1425 West Main Street (AI ID 15043), is located adjacent to the south of the central portion of the project area for Des No. 1800255. Coordination with IDEM will occur.

Irvington Materials Incorporated, 1100 West Main Street (AI ID 15586), is located adjacent to the north of the central portion of the project area for Des No. 1800255. Coordination with IDEM will occur.

#### **ECOLOGICAL INFORMATION SUMMARY**

The Decatur County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities can be found at the following link: <u>https://www.in.gov/dnr/naturepreserve/files/np\_decatur.pdf</u>. 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 United States Fish and Wildlife Service (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 Information for Planning and Consultation (IPaC) System for Listed Bat Consultation for INDOT Projects".

#### **RECOMMENDATIONS SECTION**

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

#### INFRASTRUCTURE:

**Airports:** One (1) public airport, Greensburg Municipal Airport, is located approximately 0.14 mile southwest of the western project area terminus for Des No. 1800255; therefore, early coordination with INDOT Aviation will occur.

**Recreational Facilities:** Three (3) recreational facilities, Oddfellows/Rebekah Park, Greensburg City Park, and Greensburg Country Club, are located adjacent to the project areas for Des Nos. 1800255 and 1800256. Oddfellows/Rebekah Park is located adjacent to the eastern project area terminus for Des No. 1800256. Greensburg City Park and Greensburg Country Club are located adjacent to the south of the western portion of the project area for Des No. 1800255. Coordination the Decatur County Parks and Recreation Department and Greensburg Country Club will occur.

**Pipelines:** Two (2) pipeline segments, associated with Indiana Gas Company, are located adjacent to the south of the project area for Des No. 1800255, and one (1) pipeline segment, associated with Indiana Gas Company, intersects the central portion of the project area for Des No. 1800255. Coordination with INDOT Utilities and Railroads will occur.

**Railroads:** Four (4) railroad segments, associated with CIND railroad, are located adjacent to the project area for Des No. 1800255, and one (1) railroad segment, associated with CIND railroad, intersects the eastern portion of the project area for Des No. 1800255. Coordination with INDOT Utilities and Railroads will occur.

**Trails:** One (1) planned trail segment, Greensburg Bicycle/ Pedestrian Path, is located adjacent to the south of the project area for Des No. 1800255. Coordination with the City of Greensburg will occur.

**Managed Lands:** One (1) Managed Land, Greensburg City Park, is located adjacent to the south of the western project area terminus for Des No. 1800255. Coordination with the Decatur County Parks & Recreation Department will occur.

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

- Two (2) NWI-Line segments are located within the project areas for Des Nos. 1800255 and 1800256. One (1) NWI-Line segment intersects the western portion of the project area for Des No. 1800255, and one (1) NWI-Line segment intersects the western portion of the project area for Des No. 1800256.
- Three (3) stream segments are located within the project areas for Des Nos. 1800255 and 1800256. Two (2) stream segments are located within the western portion of the project area for Des No. 1800255. One (1) stream segment intersects the eastern portion of the project area for Des No. 1800256.
- One (1) NWI-Wetland polygon is located 0.06 mile south of the western portion of the project area for Des No. 1800255.
- One (1) lake, Greensburg City Park Lake is located adjacent to the western portion of the project area for Des No. 1800255.
- Five (5) Floodplain-DFIRM Polygons are located within the project area for Des No. 1800255. Four (4)
   Floodplain-DFIRM polygons are located within the project area for Des No. 1800256, and one (1) Floodplain-DFIRM polygon is located adjacent to the south of the western portion of the project area for Des No. 1800256. (coordination only)

#### MINING/MINERAL EXPLORATION:

**Petroleum Wells:** Four (4) petroleum wells are located adjacent to the project area for Des No. 1800255. One (1) petroleum well is located adjacent to the north of the western portion of the project area, two (2) petroleum wells are

located adjacent to the south of the central portion of the project area, and one (1) petroleum well is located adjacent to the south of the eastern portion of the project area. Coordination with IDNR Oil and Gas Division will occur.

#### HAZARDOUS MATETRIAL CONCERNS:

#### UST Sites:

Green Barn USA, SR 46 and Sunset Drive (AI ID 4640), is located adjacent to the north of the central portion of the project area for Des No. 1800255. According to the October 17, 1991 Notification of Underground Storage Tanks, one (1) 3,000gallon UST of unknown age was taken out of service in October 1991. No other information regarding the current status of the tank was found in the IDEM VFC. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

Kiel Brothers Oil Bulk Plant, 1010 West Main Street (AI ID 3415), is mapped adjacent to the south of the central portion of the project area for Des No. 1800255. No information was found in the IDEM VFC for this UST site. The current status of the UST is unknown; therefore, in addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

Muncie Bread Company (Caldron Brothers Vending Incorporated) 117 South Anderson Street (AI ID 2828), is located approximately 0.02 miles south of the eastern portion of the project area for Des No. 1800255. According to the September 4, 1990 Notification of Underground Storage Tanks, one (1) 550-gallon UST was taken out of service in August 1990. The tank was removed from the ground; however, it does not appear as though confirmatory soil or groundwater samples were taken during UST removal. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

Scripture (Garry Hadler) CPD Incorporated (also listed as Water Tower Center), 325 West Main Street (AI ID 1768), is located adjacent to the southeast of the eastern project area terminus for Des No. 1800255. The UST was emptied and has not been in use since 1983. In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

#### UST/LUST/Intuitional Control Sites:

Ketchum's Shell, 106 South Michigan Avenue (AI ID 2294), is located adjacent to the southwest of the project area for Des No. 1800256. This is the site of an operating gas station. IDEM issued an NFA Determination Pursuant to RISC for the site on December 17, 2012. Low levels of soil and groundwater contamination remain on the site. An ERC was recorded on the property by Decatur County on September 4, 2012. The ERC specifically prohibits the use or extraction of groundwater at the site. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager, Kay Ifekoya (kifekoya@idem.in.gov), identified in the VFC documentation before further site activities occur.

#### VRP:

Advanced Bearing Materials LLC (KS Bearings), 1515 West Main Street (AI ID 15726), is located adjacent to the south of the western portion of the project area for Des No. 1800255. Remediation and monitoring activities are ongoing for this site. Documentation indicated that a large CVOC plume is present under portions of the site. A Phase II Environmental Site Assessment is recommended. Prior to any investigation activities, a scope of work plan will be prepared and submitted to INDOT SAM for review and approval.

#### LUST/Institutional Controls:

Former Kocolene Service Station, 601 West Main Street (AI ID 2326), is located adjacent to the south of the eastern portion of the project area for Des No. 1800255. This was formally the site of a gas station. IDEM issued an NFA Determination Pursuant to RISC for the site on June 29, 2017. Low levels of soil and groundwater contamination remain on site. An ERC was recorded on the property by Decatur County on September 29, 2016. The ERC specifically prohibits the use or extraction of groundwater, and limits excavation activities. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Coordination will be conducted with the IDEM Project Manager, Jeff Turley at <a href="mailto:jturley@idem.in.gov">jturley@idem.in.gov</a>, identified in the VFC documentation before further site activities occur.

#### **Brownfields:**

Former Senior Center, 225 East Main Street (AI ID 6937), is located adjacent to the southwest of the western project area terminus for Des No. 1800256. According to the Site Status Letter issued by IDEM on January 23, 2008, sample results prior to remediation indicated soil and groundwater were impacted by TPH-GRO/ERO, VOCs, SVOCs, arsenic and lead. Current levels of contamination at the site meet current cleanup criteria; however, contamination is present off-site and potentially within the INDOT ROW. If excavation occurs in this area, it is likely that contamination will be encountered. Proper handling, removal, and disposal of soil and/or groundwater may be necessary. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

#### **NPDES Facilities:**

Delta Faucet Company, 1425 West Main Street (AI ID 15043), is located adjacent to the south of the central portion of the project area for Des No. 1800255. Coordination with IDEM will occur.

Irvington Materials Incorporated, 1100 West Main Street (AI ID 15586), is located adjacent to the north of the central portion of the project area for Des No. 1800255. Coordination with IDEM will 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 Information for Planning and Consultation (IPaC) System for Listed Bat Consultation for INDOT Projects".

INDOT ESD concurrence:

Nicole Fohey-Breting
Digitally signed by
Nicole Fohey-Breting
Date: 2021.03.26
12:27:21 -04'00'
(Signature)

Prepared by:

Cameron Fraser NEPA Specialist RQAW Corporation

#### Graphics:

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

SITE LOCATION: YES

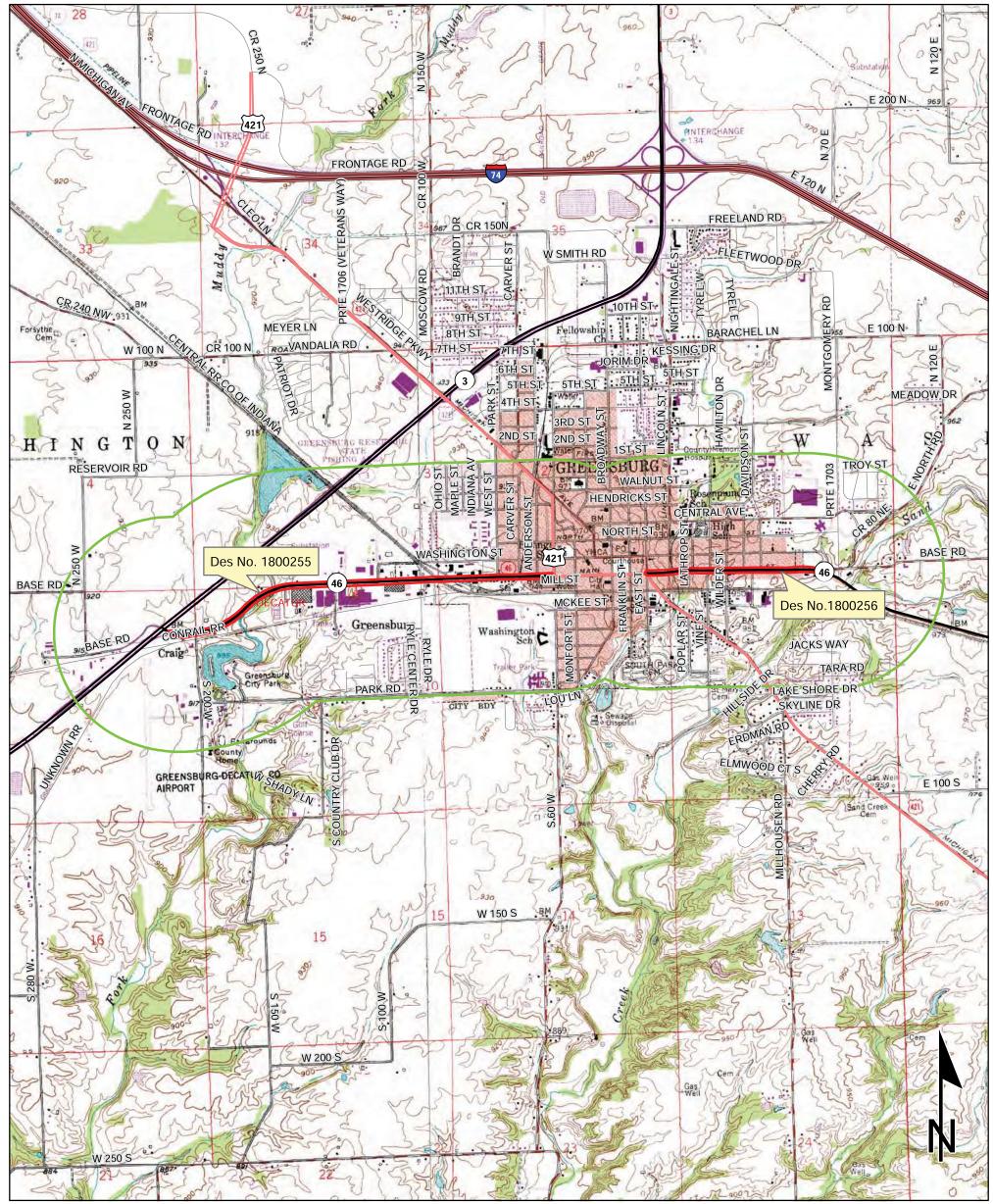
**INFRASTRUCTURE: YES** 

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: YES

**Red Flag Investigation - Site Location** SR 46 Pavement Improvement Projects Des. Nos. 1800255 & 1800256, Road Project Decatur County, Indiana



# Sources:

0.275

0

0.55 Miles

Non Orthophotography Data - Obtained from the State of Indiana Geographical

Information Office Library

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

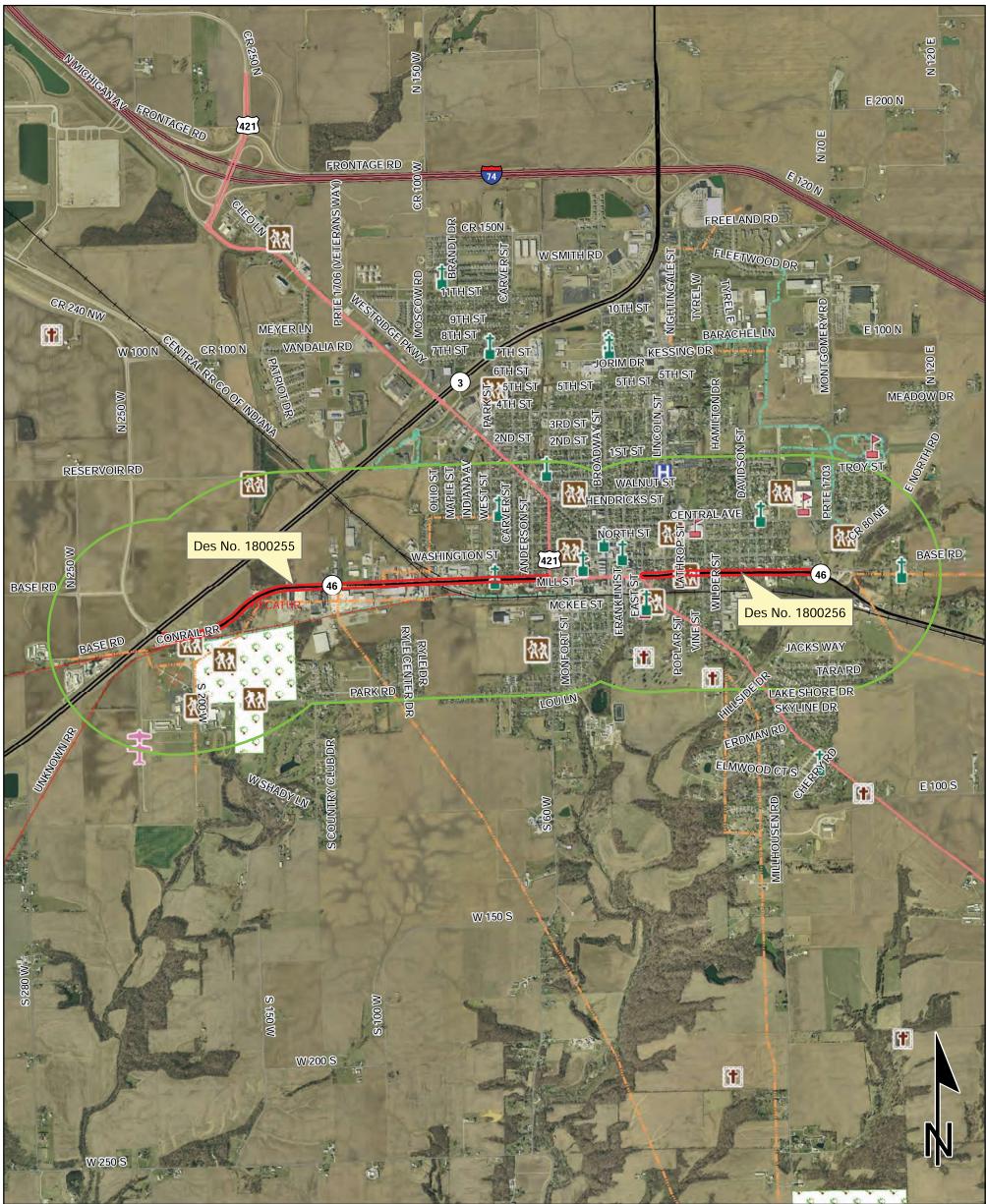
Map Projection: UTM Zone 16 N Map Datum: NAD83

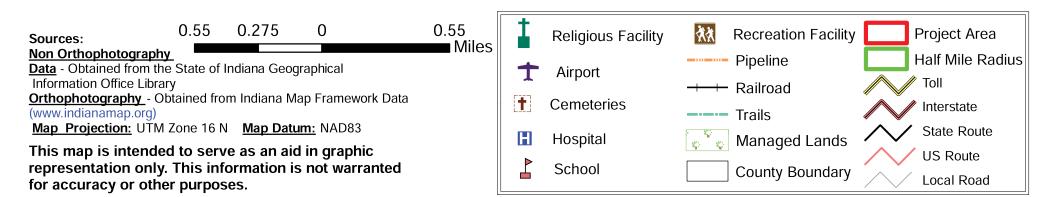
0.55

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

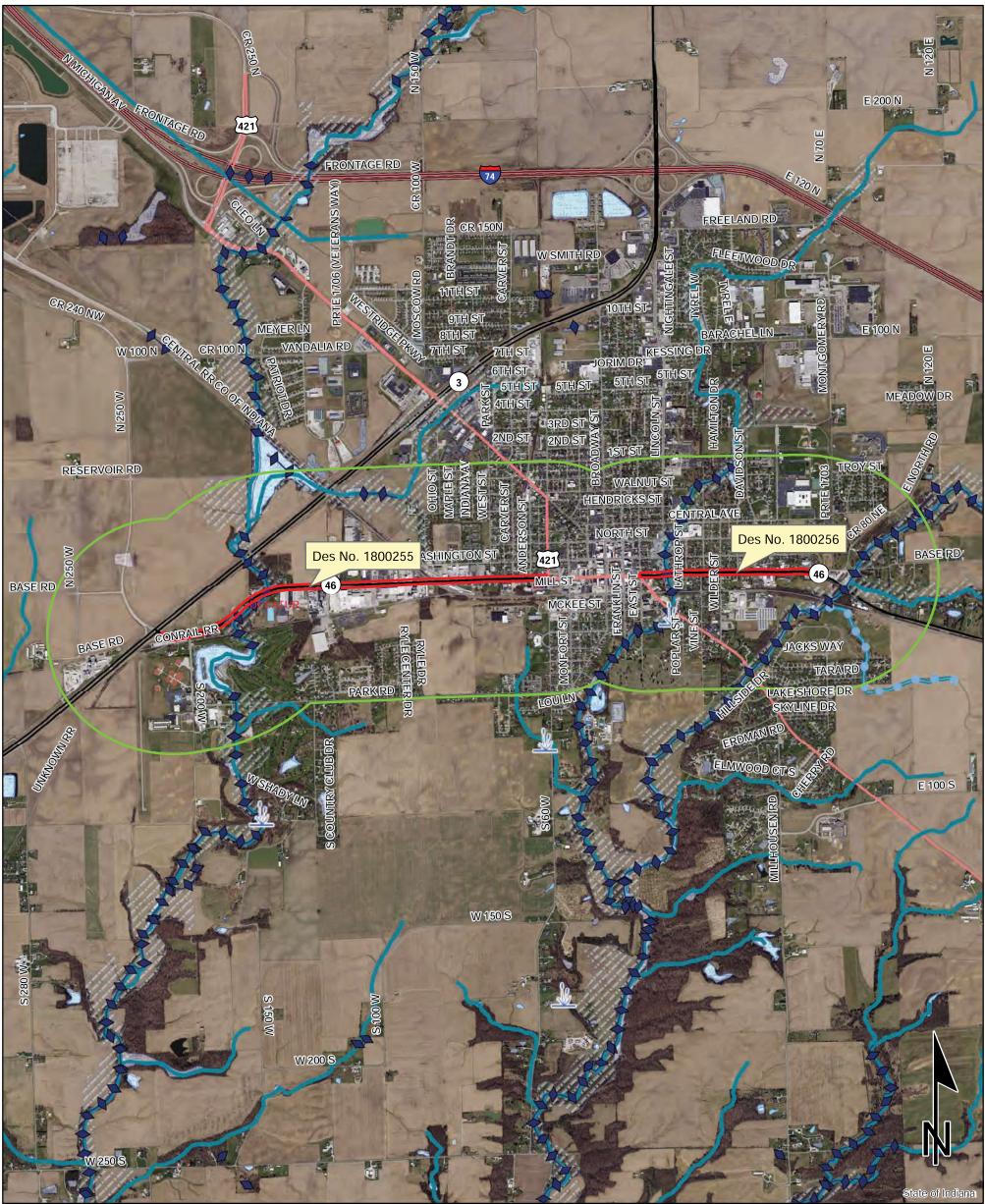
# FOREST HILL & GREENSBURG QUADRANGLES **INDIANA** 7.5 MINUTE SERIES

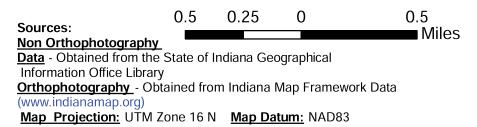
Red Flag Investigation - Infrastructure SR 46 Pavement Improvement Projects Des. Nos. 1800255 & 1800256, Road Project Decatur County, Indiana



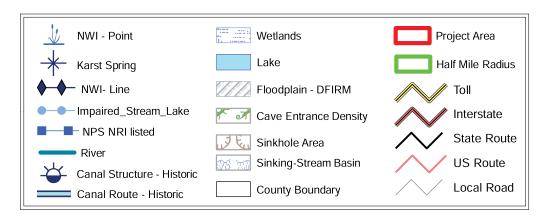


Red Flag Investigation - Water Resources SR 46 Pavement Improvement Projects Des. Nos. 1800255 & 1800256, Road Project Decatur County, Indiana

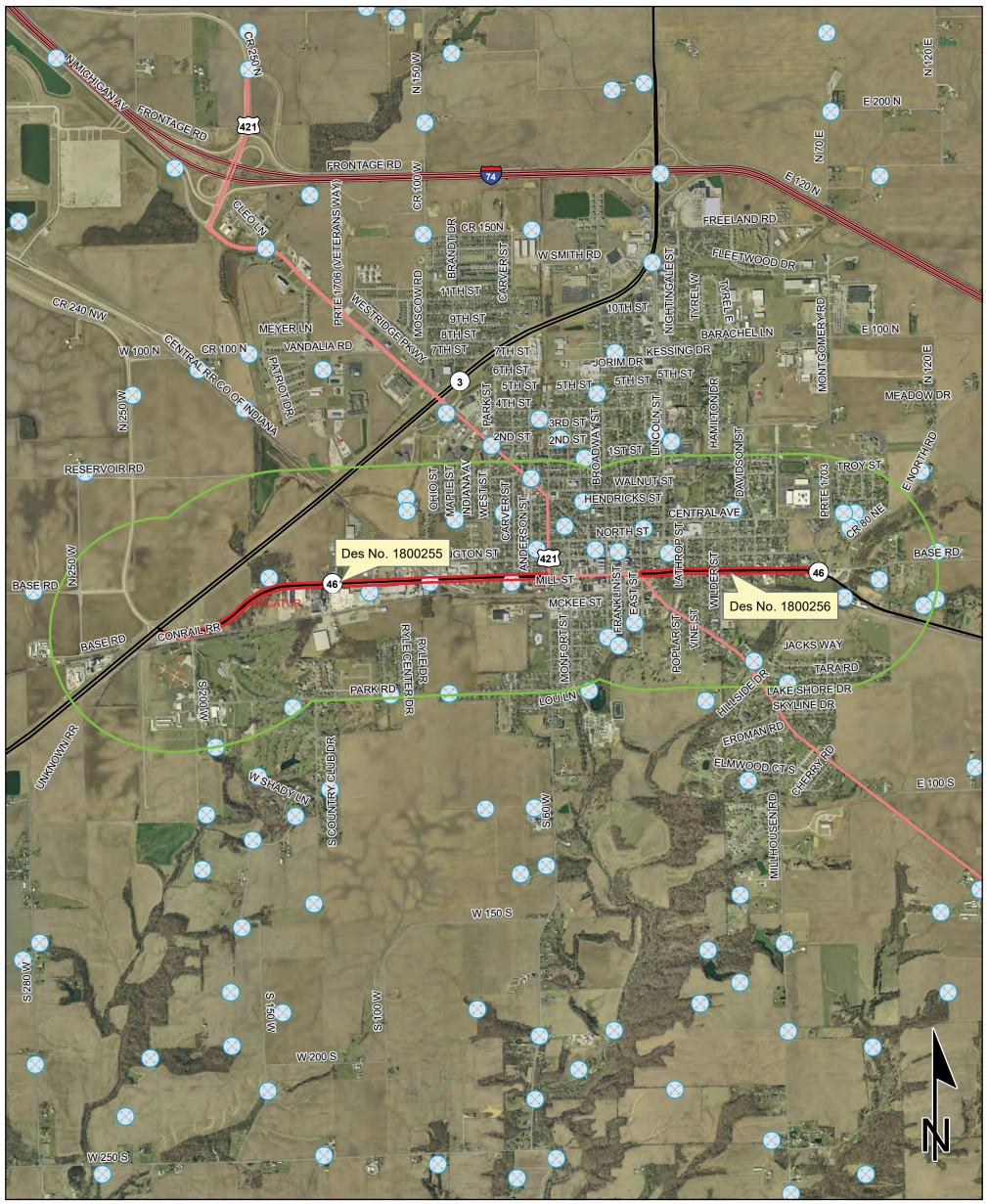


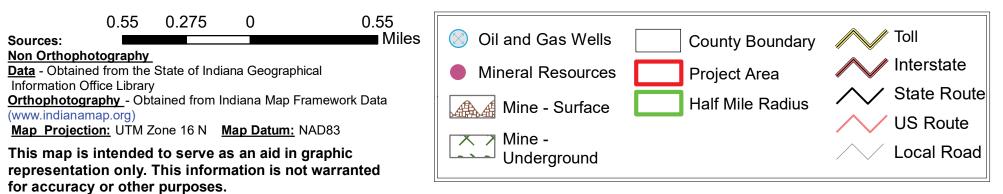


This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

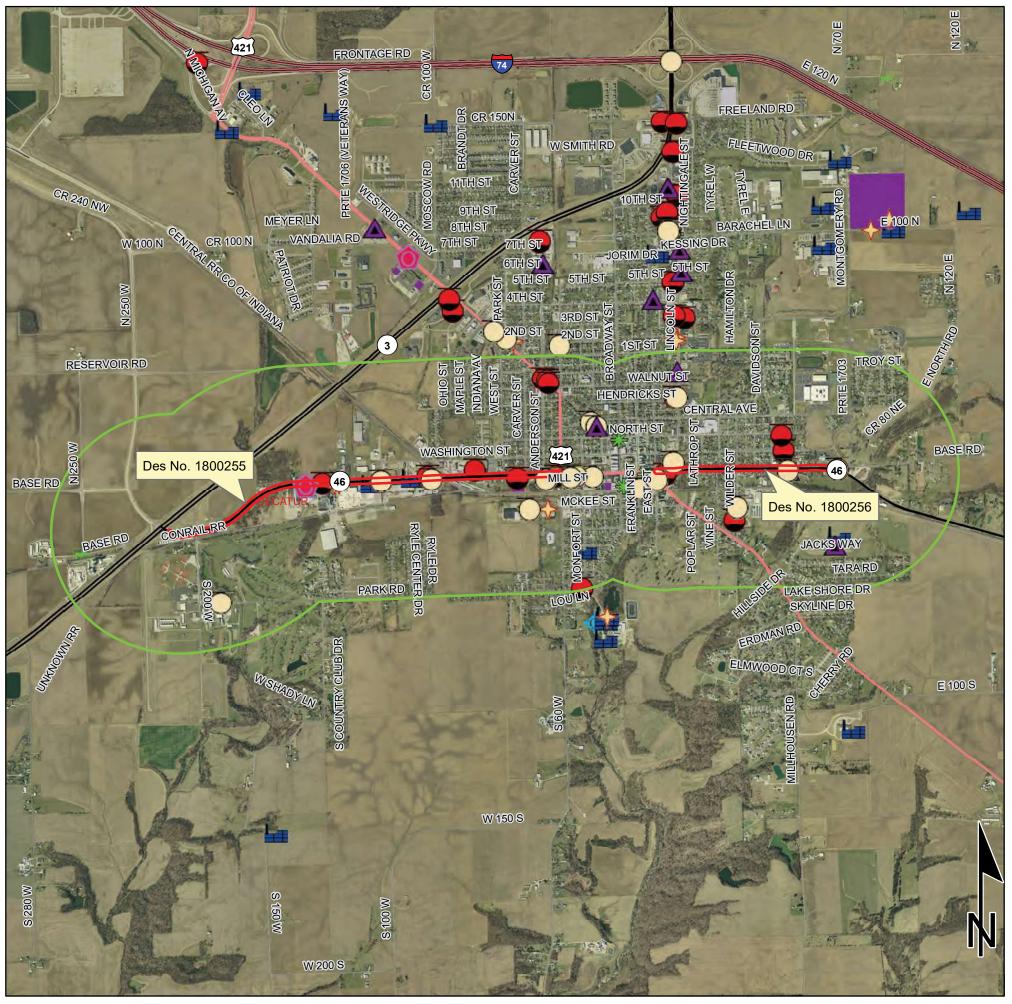


Red Flag Investigation - Mining and Mineral Exploration SR 46 Pavement Improvement Projects Des. Nos. 1800255 & 1800256, Road Project Decatur County, Indiana





**Red Flag Investigation - Hazardous Material Concerns** SR 46 Pavement Improvement Projects Des. Nos. 1800255 & 1800256, Road Project Decatur County, Indiana





S

∢

Appendix E: Red Flag Investigation

- **RCRA** Corrective Action Sites
- **Confined Feeding Operation**
- Notice\_Of\_Contamination
- **Construction/Demolition Site**  $\diamond$
- Infectious/Medical Waste Site
  - Leaking Underground Storage Tank
- Manufactured Gas Plant
- **NPDES Facilites** ╘╍┲
- **NPDES** Pipe Locations
  - **Open Dump Waste Site**

0.55 0.275 0 0.55 Miles

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

Des No's 1800255 & 1800256

RCRA Generator/TSD Institutional Controls **Restricted Waste Site** County Boundary Septage Waste Site **Project Area** Solid Waste Landfill State Cleanup Site Half Mile Radius Superfund Toll **Tire Waste Site** Interstate Underground Storage Tank State Route Voluntary Remediation Program **US Route** Waste Transfer Station Local Road

Sources:

Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org) Map Projection: UTM Zone 16 N Map Datum: NAD83 E17 of 24

## **INDIANA DEPARTMENT OF TRANSPORTATION**



100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (317) 694-8283

Eric Holcomb, Governor Joe McGuinness, Commissioner

Date: September 9, 2021

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

- From: Cameron Fraser RQAW Corporation 8770 North Street, Suite 110 Fishers, IN 46038 <u>cfraser@rgaw.com</u>
- Re: RED FLAG INVESTIGATION ADDENDUM Des. Numbers 1800255 & 1800256, State Project Pavement Improvement Projects State Route (SR) 46, City of Greensburg Decatur County, Indiana

A review of the original RFI signed on March 26, 2021, for the above DES # indicated that substantive changes have occurred within the 0.5 mile radius and project area limits that will have an impact to the project. The following items should be considered as part of the RFI for the project.

**Changes in Project Area and Scope of Work:** The project limits of Des No. 1800255 have extended east approximately 0.05 mile to include the reconstruction of the intersection at the west junction of SR 46 and US 421 (locally known as Main Street and Ireland Street). The project will now total approximately 1.85 miles in length. In addition to the pavement reconstruction, the added work at this intersection includes new storm sewer and inlets, improved turning radii of the northeast quadrant (moving the new curb to roughly the back of the existing sidewalk), adjusting the signal pole locations, and replacing curb ramps to meet current ADA standards. Furthermore, the project (Des. No. 1800255) now also includes replacing the water main, replacing the sanitary sewer, and installing lighting between the CIND railroad crossing and Ireland Street (US 421) where the roadway reconstruction is occurring (i.e. the lighting and water main replacement will not occur in the overlay portion of this project west of the CIND railroad crossing).

For Des. No. 1800256, the project now includes replacing the water main and installing lighting along the entire length of the project area (from the east junction with US 421 to Base Road).

The depth of excavation for the extended portion of the project area and additional scope of work will not exceed 10 feet below ground surface (bgs).

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



The following features and/or items were not detailed in the original RFI document dated March 26, 2021 but have since been identified as having an impact on the project area and requiring additional coordination:

**Hazardous Material Concerns-** One (1) additional Hazardous Materials site was identified for the extended project area. UST Site: Paul S Walston - 302 West Main Street (AI ID 3590), is located approximately 0.02 mile north east to the eastern project area terminus for Des No. 1800255. The UST site was a filling station dating back to 1935. The USTs have not been in use since 1971 and were abandoned in place (Filled with inert material). In addition to petroleum contamination, it is likely that lead would be in the soil/groundwater. If excavation occurs in this area, it is possible that petroleum contamination will be encountered. Before proper removal and disposal of soil and/or groundwater, analysis for lead will be necessary.

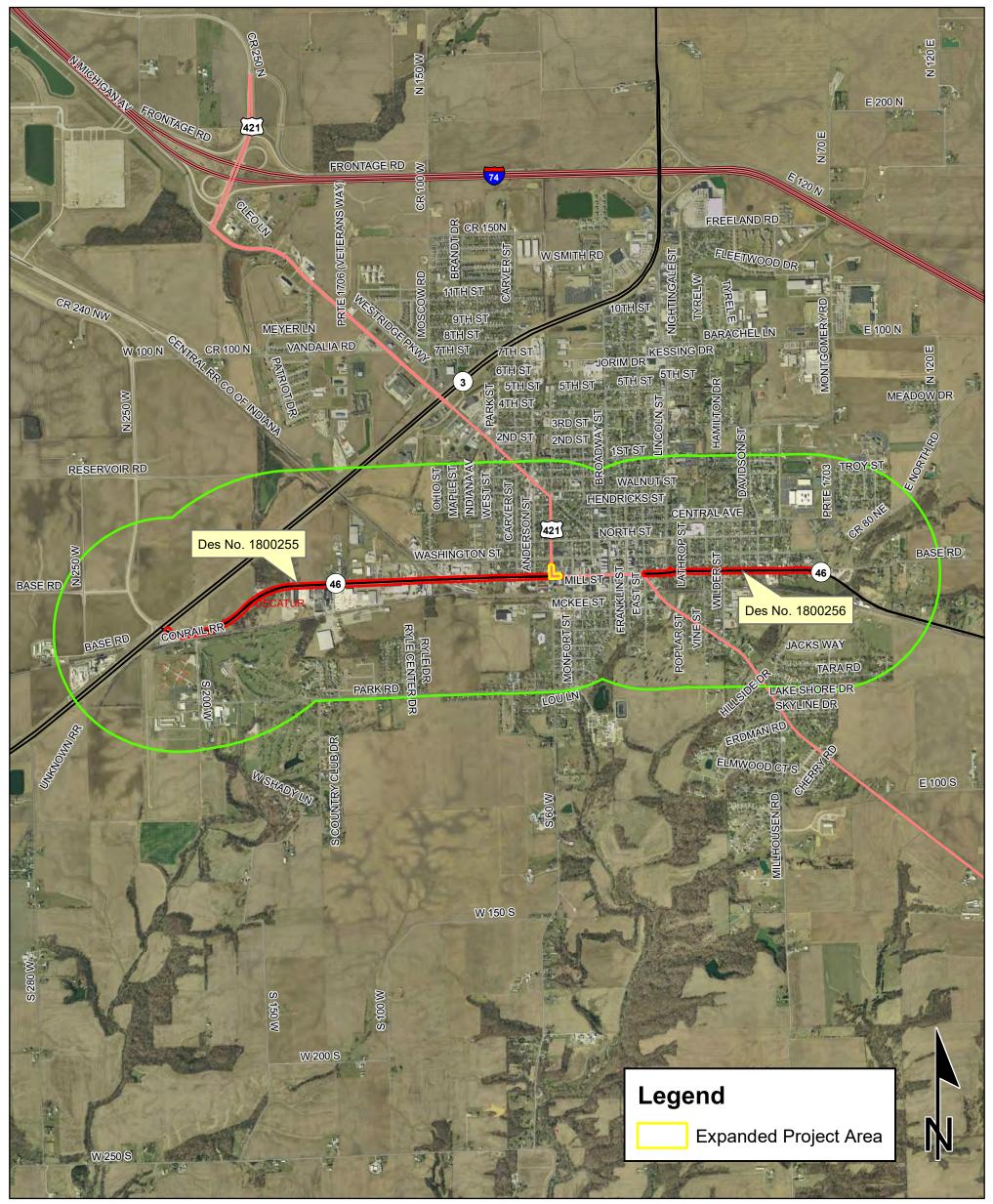
INDOT Environmental Services concurrence:

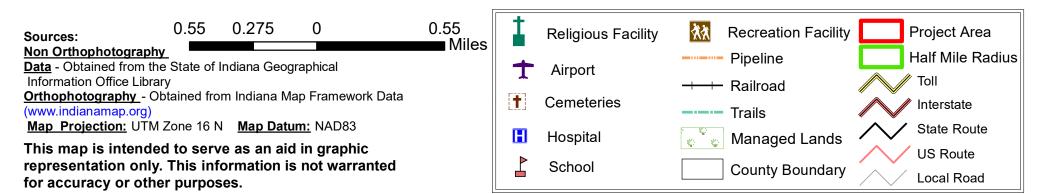
Nicole Fohey Breting Breting Digitally signed by Nicole Fohey-Breting Date: 2021.09.10 13:49:57 -04'00'

Prepared by:

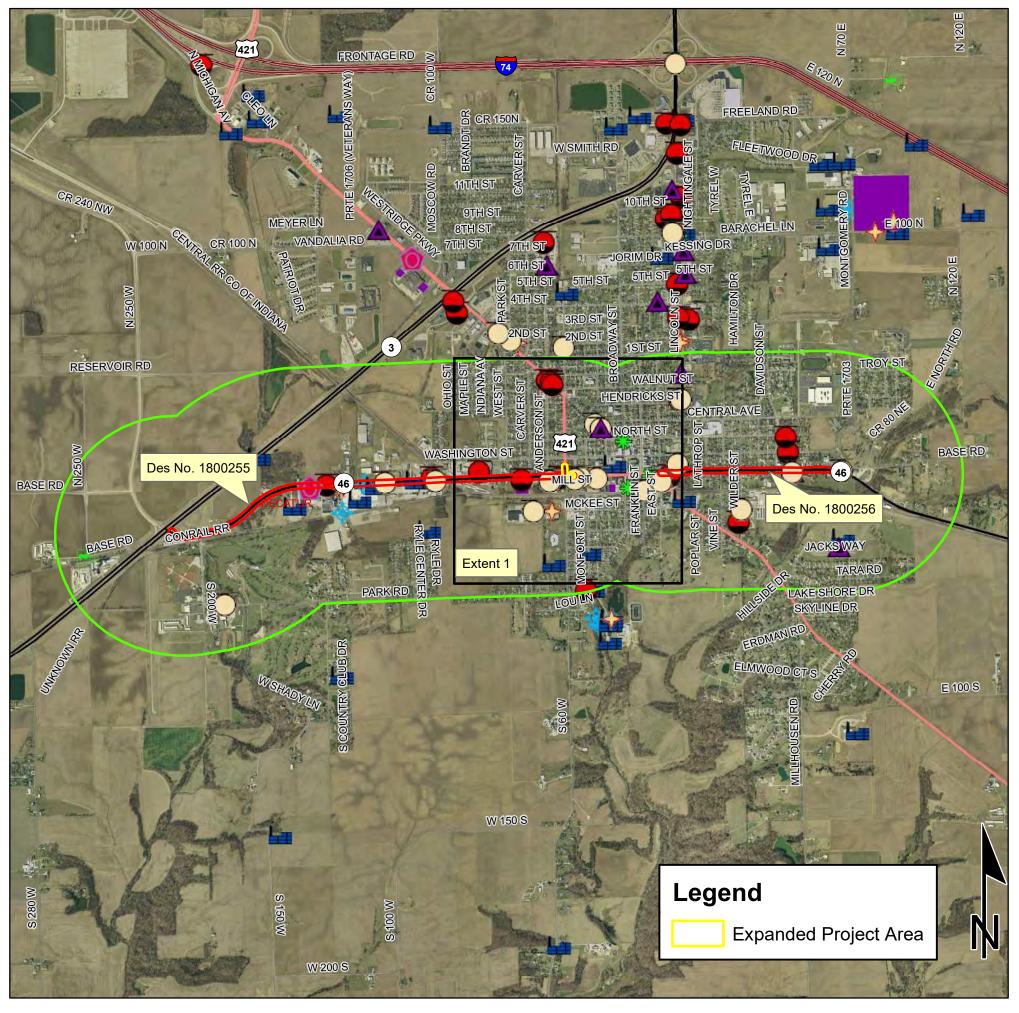
Cameron Fraser NEPA Specialist RQAW Corporation

Red Flag Investigation Addendum - Expanded Project Area SR 46 Pavement Improvement Project Des. Nos. 1800255 & 1800256, Road Project Decatur County, Indiana





Red Flag Investigation Addendum - Hazardous Material Concerns SR 46 Pavement Improvement Project Des. Nos. 1800255 & 1800256, Road Project Decatur County, Indiana





S

∢

Institutional Controls

- **RCRA** Corrective Action Sites ╘╼═
- **\*\***-**Confined Feeding Operation**
- -Notice\_Of\_Contamination
- $\diamond$ **Construction/Demolition Site**
- Infectious/Medical Waste Site
  - Leaking Underground Storage Tank
- Manufactured Gas Plant
- Ļŧ **NPDES Facilites**
- **NPDES** Pipe Locations
  - **Open Dump Waste Site**

0.55 0.275 0 0.55 Miles

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

Des No's 1800255 & 1800256

- RCRA Generator/TSD **Restricted Waste Site** Septage Waste Site Solid Waste Landfill State Cleanup Site Superfund  $\bigcirc$ Tire Waste Site Underground Storage Tank Voluntary Remediation Program Waste Transfer Station
  - County Boundary **Project Area** Half Mile Radius Toll Interstate State Route **US Route** Local Road

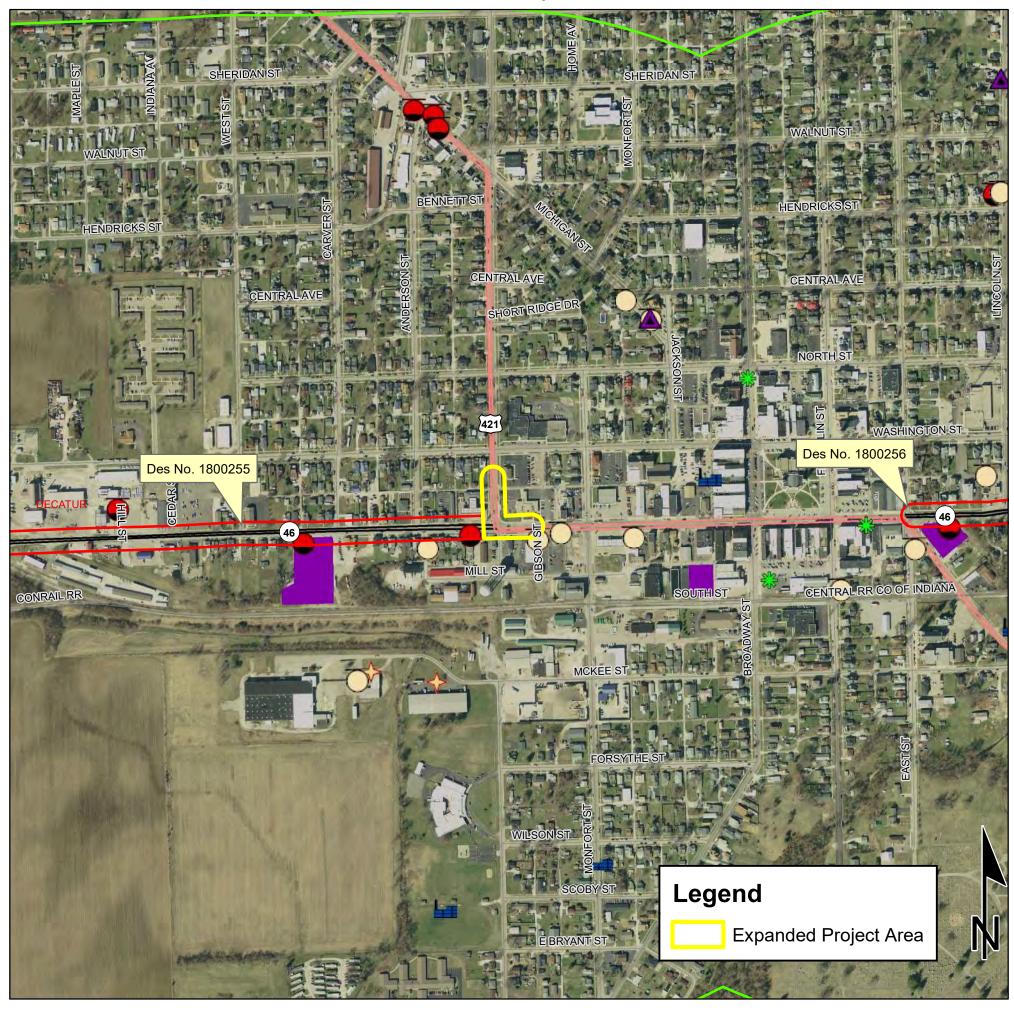
Sources:

Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org) Map Datum: NAD83

Map Projection: UTM Zone 16 N E21 of 24

Appendix E: Red Flag Investigation

Red Flag Investigation Addendum - Hazardous Material Concerns - Extent 1 SR 46 Pavement Improvement Project Des. Nos. 1800255 & 1800256, Road Project Decatur County, Indiana





S

∢

 $\bigcirc$ 

Appendix E: Red Flag Investigation

- **RCRA** Corrective Action Sites ╘╼═
- **\*\***-**Confined Feeding Operation**
- Notice\_Of\_Contamination
- $\diamond$ **Construction/Demolition Site**
- Infectious/Medical Waste Site
  - Leaking Underground Storage Tank
- Manufactured Gas Plant
- **NPDES Facilites** ╘╍┲
- **NPDES** Pipe Locations
  - **Open Dump Waste Site**

0.1 0.05 0 0.1 Miles

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

Des No's 1800255 & 1800256

RCRA Generator/TSD **Restricted Waste Site County Boundary** Septage Waste Site Solid Waste Landfill State Cleanup Site Superfund Toll **Tire Waste Site** Underground Storage Tank Voluntary Remediation Program Waste Transfer Station Local Road

**Project Area** Half Mile Radius Interstate State Route **US Route** 

Sources:

Non Orthophotography

Data - Obtained from the State of Indiana Geographical Information Office Library Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org) Map Projection: UTM Zone 16 N Map Datum: NAD83 E22 of 24

From:	INDOT esd.sam <esd.sam@indot.in.gov></esd.sam@indot.in.gov>
Sent:	Tuesday, April 19, 2022 4:12 PM
То:	Harlan Ford
Cc:	Kyle J. Boot; mitchell.wilcox@mbakerintl.com
Subject:	[EXT] RE: Question Concerning Need for Phase II ESA for Des No's 1800255
	and 1800256

#### \*\*\*\* Please use caution this is an externally originating email. \*\*\*\* Do not click on links or open attachments unless you recognize the sender and know the contents is safe.

Hi Harlan –

Thank you for reaching out and for providing the updated scope of work in the vicinity of Advanced Bearing Materials for Des No. 1800255 and 180256. SAM concurs that, given the scope of work occurring in the vicinity of the site (and based on the KMZ file), a Phase II ESA is <u>not</u> warranted. Please reach back out to SAM is the scope changes or if additional review is needed. This email should serve as a re-evaluation of the project in relation to the initial Phase II ESA recommendation.

Thank you and I hope all is well! Sincerely, Nicole

### Nicole Fohey-Breting

Site Assessment & Management (SAM) Team Lead 100 North Senate Avenue N758-ES Indianapolis, Indiana 46204 Office: (317) 416-7084 Email: <u>NFoheyBreting@indot.in.gov</u> Office Hours: 8 to 4 PM



From: Harlan Ford <<u>hford@rqaw.com</u>>
Sent: Tuesday, April 19, 2022 2:57 PM
To: INDOT esd.sam <<u>esd.sam@indot.IN.gov</u>>
Cc: Kyle J. Boot <<u>KBoot@RQAW.com</u>>; mitchell.wilcox@mbakerintl.com
Subject: Question Concerning Need for Phase II ESA for Des No's 1800255 and 1800256

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

Dear INDOT SAM,

We wanted to coordinate with you further on the recommendation made in the RFI for Des No's 1800255 and 1800256 approved on March 26, 2021 and RFI addendum on September 10, 2021.

The question we have concerns the Voluntary Remediation Program (VRP) site: Advanced Bearing Materials LLC (KS Bearings), 1515 West Main Street (AI ID 15726) located in the western portion of the project area for Des. No. 1800255.

- It was recommended at the time of the RFI approval that a Phase II ESA would be needed, which was appropriate as partial and full depth patching was proposed along this section of SR 46. Partial and full depth patching will still occur along this section of SR 46, but the project designer has determined that no partial or full depth patching will occur within the delineated plume (See attached .kmz for delineated plume extent along SR 46). Since there will be no excavation occurring within the extents of the delineated plume, would a Phase II ESA still be needed for this site? The only work that will occur in the area will be an HMA overlay confined to the pavements edge.
- If you concur that a Phase II ESA is no longer needed, is this email sufficient to supersede the recommendation for a Phase II ESA in the approved RFI at this site?

Please let me know if you have any questions or need additional information.

Thanks,



(O)

HARLAN FORD

ENVIRONMENTAL SCIENTIST O: 423.458.5979 8770 North St., Ste. 110, Fishers, IN 46038 www.rgaw.com

in "Best Places to Work in Indiana" Since 2018



# Categorical Exclusion Appendix F Water Resources



Fishers, IN - Corporate 8770 North St., Ste. 110 Fishers, IN 46038 317.588.1798

#### SR 46 Pavement Improvements Project Decatur County, Indiana Des. Nos. 1800255 and 1800256 Prepared by: Brooke Fox, RQAW Corporation Completed Date: October 7, 2021

#### **Dates of Waters Field Investigation:**

A field investigation was conducted on June 9, 2021 by RQAW Corporation to evaluate the presence of *Waters of the United States* for the proposed SR 46 Pavement Improvements Project along SR 46 in Decatur County, Indiana.

#### Location:

SR 46 Sections 1-3 and 9-12, Township 10 North, Range 9 East Forest Hill and Greensburg U.S. Geological Survey (USGS) Quadrangles Decatur County, Indiana

#### West Survey Area: Des. No. 1800255

West		East	
Latitude:	39.33359° N	Latitude:	39.33656° N
Longitude:	<b>-</b> 85.5209° W	Longitude:	<b>-85.48865°</b> W
East Survey A	rea: Des. No. 1800256		
West		East	
Latitude:	39.33663° N	Latitude:	39.33633° N
Longitude:	<b>-8</b> 5.48148° W	Longitude:	<b>-8</b> 5.4663° W

#### National Wetlands Inventory (NWI) Wetlands:

According to the U.S. Fish and Wildlife (USFWS) National Wetlands Inventory (NWI) data available through IndianaMap (<u>http://www.indianamap.org/</u>), two NWI polygons are located within the survey areas. Within the western survey area (Des. No. 1800255) one NWI polygon transects the survey area and is confined to the channel of Muddy Fork Sand Creek. This polygon was identified as being a R2UBH (Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded) wetland. Within the eastern survey area (Des. No. 1800256) the NWI polygon transects the survey area is confined to the channel of Unnamed Tributary (UNT) 1 to Sand Creek. This polygon was also identified as being a R2UBH wetland. A map showing a half mile radius with the NWI layer turned on is provided in the attachments (Pages A13-A14).

#### National Geological Survey (USGS) National Hydrography Dataset (NHD):

According to the United States National Geological Survey (USGS) National Hydrography Dataset (NHD), there are 13 NHD lines within the western survey area (Des. No. 1800255). Of these, 7 lines are classified as pipelines, 4 lines are classified as perennial streams, and 2 lines are classified as canal ditches. According to the USGS topographic map one perennial stream flowline is mapped as Muddy Fork Sand Creek and verified as a perennial stream flowline was verified and identified during the field investigation as UNT 1 to Muddy Fork Sand Creek. Within the eastern survey area (Des. No. 1800256) there are two NHD lines. Of these lines, 1 is classified as a perennial stream and 1 is classified as a pipeline. The perennial stream flowline was verified and identified as UNT 1 to Sand Creek during the field investigation. Further information about these streams identified during the field investigation can be found in the streams section of this report. Maps showing the NHD layer turned on is provided in the attachments (Pages A15-A16).

APPROVED: Stephen C. Sperry
Ecology and Waterway Permitting Office Indiana Department of Transportation
3:50 pm, Oct 21 2021

#### ISHERS VINCENNES LA PORTE

WWW.ROAW.CON

apprvd 10/21/2021.1

SR 46 Pavement Improvements Project (Des. Nos. 1800255 and 1800256) Waters of the U.S. Report

1

#### Soils:

According to the Soil Survey Geographic (SSURGO) Database for Decatur County, Indiana, the western survey area (Des. No. 1800255) contains seven soil areas with nationally listed hydric soils.

<u>Map</u>	Soil Name	Hydric Component	<b>Classification</b>
<b>Abbreviation</b>		<u>Range</u>	
Cg	Chagrin loam, frequently flooded	0%	Not Hydric
Су	Cyclone silt loam, 0 to 2% slopes	66-99%	Hydric
FcA	Fincastle silt loam, 0 to 2% slopes	1-32%	Hydric
MmB2	Miami silt loam, 2 to 6% slopes	1-32%	Hydric
MmC2	Miami silt loam, 6 to 12% slopes	1-32%	Hydric
MoC3	Miami clay loam, 6 to 12% slopes, eroded	0%	Not Hydric
Or	Orville silt loam	1-32%	Hydric
Wmb	Williamstown silt loam, 2 to 6% slopes	1-32%	Hydric
XnA	Xenia silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	1-32%	Hydric

According to the SSURGO Database for Decatur County, Indiana, the eastern survey area (Des. No. 1800256) contains four soil areas with nationally listed hydric soils.

Map	Soil Name	Hydric Component	<b>Classification</b>
<u>Abbreviation</u>		Range	
Cg	Chagrin loam, frequently flooded	0%	Not Hydric
MeB2	Martinsville loam, 2 to 6% slopes	0%	Not Hydric
MmB2	Miami silt loam, 2 to 6% slopes	1-32%	Hydric
MmC2	Miami silt loam, 6 to 12% slopes	1-32%	Hydric
MoC3	Miami clay loam, 6 to 12% slopes, eroded	0%	Not Hydric
XnA	Xenia silt loam, Southern Ohio Till Plain, 0 to 2 percent slopes	1-32%	Hydric
XnB	Xenia silt loam, 2 to 4 percent slopes	1-32%	Hydric

#### **12 Digit HUC:**

Muddy Fork HUC 051202060302

Duplicate project maps have been removed and included in Appendix B. Wetland determination forms have also been omitted to reduce file size.

#### Attachments:

Project Location Maps	A1 A4
Natural Resources Conservation Service (NRCS) Soil Survey Maps & Soils Reports	A5-A9
StreamStats, NWI Maps, NHD Maps, & Floodplain Maps	A10 – A19
Water Resources Maps	
Photograph Location Maps and Photographs	A24 – A128
Wetland Determination Forms	A129 – A150
Pre-Jurisdictional Determination Form	A151–A154

#### **Project Description:**

The Federal Highway Administration (FHWA) and Indiana Department of Transportation (INDOT), Seymour District propose to proceed with a pavement improvements project on SR 46 in Decatur County, Indiana. The proposed project is divided into two sections with two separate Des. Numbers (1800255 and 1800256).

**Des. No. 1800255:** The project limits are from SR 3 to the west junction with United States Highway (US) 421, totaling approximately 1.8 miles in length. From the SR 3 and SR 46 intersection to the Central Railroad Company of Indiana (CIND) railroad crossing, the proposed project will involve milling and Hot Mix Asphalt (HMA) preventative maintenance overlay (including shoulders), with partial and full depth pavement patching at various

locations. From the CIND railroad crossing through the west junction with US 421, the proposed project will involve a full depth pavement replacement. Also included in this section of the project will be the replacement and/or construction of a stormwater sewer system with curb and gutter, sanitary sewer, water main reconstruction, and street lighting. The intersections of West Street, Carver Street, Anderson Street, and US 421 (Ireland Street) will be reconstructed to meet current Americans with Disabilities Act (ADA) and Public Right of Way Accessibility Guidelines (PROWAG) standards. The existing sidewalks along the north side of SR 46 from the railroad crossing to the west junction of US 421 will be reconstructed if not existing along the south side from approximately 0.5 miles in length. They will be reconstructed or constructed if not existing along the northeast quadrant of the west junction of US 421 will be improved by moving the curb back, and associated adjustments to the curb ramps, and signal poles.

**Des. No. 1800256:** The project limits begin from the east junction of the US 421 and SR 46 intersection to approximately 134 feet beyond Base Road in the eastern direction, totaling approximately 0.8 miles in length. The proposed project will involve full depth pavement replacement, and reconstruction/construction of sidewalks along SR 46 from the east junction of US 421 to the drive to the Greensburg Public Library (which is located approximately 0.09 mile west of the Base Road intersection). Along the north side of SR 46, from Lincoln Street to the Greensburg Public Library (approximately 0.6 miles), the existing sidewalk will be replaced with an up to 10 ft multi-use path. Additionally, the south side of SR 46 will have 5 ft. sidewalks and a 5 ft. grass buffer. The replacement and/or construction of a stormwater sewer system with curb and gutter, water main reconstruction, and street lighting will also be included for this portion of the project. Travel and parking lanes will be modified to one travel lane in each direction with parking along the south side of SR 46, roughly between Lincoln St. and Vine St., and parking on the north side between Stewart St. and Davidson St. Additionally, the traffic signal at the Lincoln Street intersection will be replaced. From the drive to the Greensburg Public Library to the eastern project termini, an HMA preventative maintenance overlay is anticipated, which is approximately 0.12 mile in length.

#### Field Reconnaissance

Des. No. 1800255: The survey area is located in a mostly rural setting, dominated primarily by agricultural fields, light industry, and scattered woodlots. Land use in the western portion of the survey area (beginning at the intersection of SR 3 and SR 46) is rural commercial with open fields, agricultural crops, and woodlots. Vegetation found within this area primarily consists of woody and herbaceous species which are frequently found in roadside seed mixes and species found in commonly disturbed areas. Species observed in this portion of the survey area include silver maple (Acer saccharium), tartan honeysuckle (Lonicera tatarica), annual blue grass (poa annua), and tall fescue (Festuca Arundinacea). Further east, just after the crossing of Muddy Fork Sand Creek, the survey area transitions to more heavily industrialized section which is mostly dominated by maintained grass lawns which are periodically mowed. Vegetation observed includes annual blue grass (poa annua) and tall fescue (Festuca Arundinacea). From the CIND railroad crossing, for approximately 0.25 mile the survey area begins to transition to local commercial businesses and then onto a more residentially dominated area, which is exhibited for the remainder of this survey area. The vegetation observed within this area primarily consists of woody species such as Bradford pear (Pyrus calleryana) and herbaceous species that are found within maintained lawns that are periodically mowed such as annual blue grass (poa annua) and tall fescue (Festuca Arundinacea). The survey area terminates approximately 230 feet east of the SR 46 and US 421 intersection and approximately 280 feet north of where SR 46 and US 421 intersect. The entire survey area was investigated for potential stream and wetland features using USGS Topo and NWI maps.

**Des. No. 1800256:** The survey area is located in a mostly residential setting with the occasional scattered woodlot and open field. Land use in the western portion of the survey area (beginning at the intersection of SR 46, East St., and US 421) is commercial and residential with one wood lot on the south side of SR 46 just west before UNT 1 to Sand Creek. Vegetation observed in this portion of the survey area includes annual blue grass (*poa annua*), tall fescue (*Festuca Arundinacea*), tartan honeysuckle (*Lonicera tatarica*), eastern redbud (*Cercis canadensis*) and silver maple (*Acer saccharium*). The remainder of the land use in this survey area is dominated by residential homes with the occasional commercial business until the Greensburg Public Library. The vegetation observed in this portion of the survey area and includes annual blue grass (*poa annua*), tall fescue (*Festuca Arundinacea*), tartan honeysuckle (*Lonicera tatarica*), eastern redbud in this portion of the survey area is similar to the other residential areas within the survey area and includes annual blue grass (*poa annua*), tall fescue (*Festuca Arundinacea*), tartan honeysuckle (*Lonicera tatarica*), eastern redbud

apprvd 10/21/2021,3

(*Cercis canadensis*) and silver maple (*Acer saccharium*). Beginning at the Greensburg Public Library there is a transition back to rural agricultural with open fields and scattered wood lots. Vegetation found within this area primarily consists of maintained grass lawns which are periodically mowed and species that along the roadside and agricultural fields including autumn olive (*Elaeagnus umbellate*), annual blue grass (*poa annua*), and tall fescue (*Festuca Arundinacea*) as well as an abundance of poison ivy (*Toxicodendron Radicans*). The entire survey area was investigated for potential stream and wetland features using USGS Topo and NWI maps.

Species composition described throughout the survey area would be different for vegetation composition existing within water resources such as wetlands and riparian corridors of streams. A detailed description of these resources can be found in the wetlands and streams section of this report.

#### Streams:

According to the hydrology data available through IndianaMap (<u>http://www.indianamap.org/</u>) and the Forest Hill and Greensburg USGS topographic map (1:24,000 scale), two USGS perennial blueline streams, mapped as Muddy Fork Sand Creek (Des. No. 1800255) and UNT 1 to Sand Creek (Des. No. 1800256), are located within the survey area. Upon the field investigation, the presence of these streams was verified. One additional stream, UNT 1 to Muddy Fork Sand Creek was also observed during the field investigation.

**UNT 1 to Muddy Fork Sand Creek** flows in a northwest to southeast direction and originates at the inlet on the northwest side of SR 46, which is within the western survey area (Des. No. 1800255). According to the Forest Hill USGS topo map, the stream is not a mapped USGS stream. This stream was determined to have intermittent flow as it lacked sinuosity and demonstrated an absence of riffle-pool sequences, however debris deposits on plants outside the stream channel were observed. This stream exhibited ordinary high water mark characteristics (OHWM) of 4.5 feet wide and 4 inches (0.33 feet) deep. The OHWM was taken outside the influence of the structure approximately 15.5 feet away. North of the inlet of the structure, Wetland C is present, therefore only a downstream OHWM was measured.

Approximately 95 linear feet (0.01 acre) of UNT 1 to Muddy Fork Sand Creek is within the survey area. According to the USGS StreamStats Report, UNT 1 to Muddy Fork Sand Creek has a drainage area of 12.399 square miles and a gradient of 10.5 feet per mile. The substrate consisted predominantly of silt which was also observed on vegetation outside the stream channel. This stream exhibited poor quality due to roadway runoff and predominantly silt substrate. UNT 1 Muddy Fork Sand Creek drains into Muddy Fork Sand Creek, which drains into Sand Creek, which drains into East Fork White River which is a Traditional Navigable Waterways (TNW). Based on its contribution of intermittent surface flow into a TNW, UNT 1 to Muddy Fork Sand Creek is likely to be considered a *Waters of the United States*.

**Muddy Fork Sand Creek** flows in a northeast to southwest direction through the western survey area (Des. No. 1800255). This stream was determined to have perennial flow as it had a continuous bed/bank, presence of rifflepool sequences, and moderate sinuosity. According to the Forest Hill USGS topo map, the stream is a mapped blueline perennial stream. This stream exhibited an upstream OHWM of 29 feet wide and 9 inches (0.75 feet) deep. The OHWM was taken outside the influence of the structure approximately 25 feet away. The downstream OHWM of 31 feet wide and 18 inches (1.5 feet) deep. The OHWM was taken outside the influence of the structure approximately 25 feet away.

Approximately 157 linear feet (0.112 acre) of Muddy Fork Sand Creek is within the survey area. According to the USGS StreamStats Report, Muddy Fork Sand Creek has a drainage area of 10.1 square miles and a gradient of 12.342 feet per mile. The substrate consisted predominantly of sand and fine gravel however the presence of cobble was also observed near the bridge. This stream exhibited average quality due to moderate sinuosity and overhanging vegetation. Muddy Fork Sand Creek drains into Sand Creek, which drains into East Fork White River which is a TNW. Based on its contribution of perennial surface flow into a TNW, Muddy Fork Sand Creek is likely to be considered a *Waters of the United States*.

**UNT 1 to Sand Creek,** which is locally known as Gas Creek, flows in a north to south direction through the eastern survey area (Des. No. 1800256). This stream was determined to have perennial flow as it had a continuous bed/bank, presence of riffle-pool sequences, and moderate sinuosity. According to the Forest Hill USGS topo map, the stream is a mapped blueline perennial stream. This stream exhibited an upstream OHWM of 11.2 feet wide and 5 inches (0.42 feet) deep. The OHWM was taken outside the influence of the structure approximately 19 feet away. The

SR 46 Pavement Improvements Project (Des. Nos. 1800255 and 1800256) Waters of the U.S. Report

apprvd 10/21/2021,4