

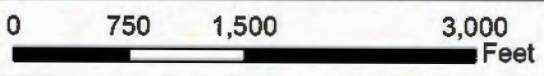


Photo location

-  Project Area Limits
-  Area of Potential Effects



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Des. No. 2002077

SR 225 Bridge over the Wabash River
Bridge Rehabilitation
Tippecanoe County, Indiana



Engineering Quality of Life®

List of Consulting Parties:

An early coordination letter (ECL) was sent on April 5, 2022, to the following list (accepted in bold):

State Historic Preservation Office (SHPO)

Indiana Landmarks - Western Regional Office

Lafayette Historic Preservation Commission

Wabash Valley Trust for Historic Preservation

Historic Spans Task Force

Historic Hoosier Bridges

HistoricBridges.org

Historic Bridge Foundation

Tippecanoe County Historian

Tippecanoe County Area Genealogical Society

Tippecanoe County Historical Association

Tippecanoe County Commissioner

Tippecanoe County Highway Supervisor

Tippecanoe County Surveyor

Tippecanoe County Engineer

Eastern Shawnee Tribe of Oklahoma

Miami Tribe of Oklahoma

Peoria Tribe of Indians of Oklahoma

Pokagon Band of Potawatomi Indians

Shawnee Tribe

Forest County Potawatomi Community

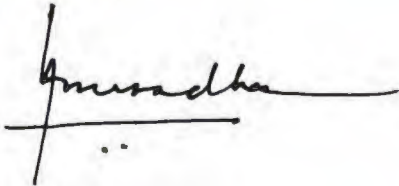
Please review the information and comment within thirty (30) calendar days of receipt. If you indicate that you do not desire to be a consulting party, or if you do not respond, you will not be included on the list of consulting parties for this project. If we do not receive your response in the time allotted, the project will proceed consistent with the proposed design, and you will not receive further information about the project unless the design changes. Tribal consulting parties may enter the process at any time and are encouraged to respond to this notification with any comments or concerns at their earliest convenience.

For questions concerning specific project details, you may contact Anne Shaw of Clark Dietz at 859-797-0097 or anne.shaw@clarkdietz.com. All future responses regarding the proposed project should be forwarded to Anne Shaw at the following address:

Anne Shaw
Principal Investigator
Clark Dietz
8900 Keystone Crossing, Suite 475
Indianapolis, IN 46240
anne.shaw@clarkdietz.com

Tribal contacts may contact Patty Jo Korzeniewski at pkorzeniewski@indot.in.gov or 317-416-4377 or Kari Carmany-George at FHWA at K.CarmanyGeorge@dot.gov or 317-226-5629.

Sincerely,



Anuradha V. Kumar, Manager
Cultural Resources Office
Environmental Services

Removed to avoid
Redundancy

Enclosures:

Topographic map showing project location
Aerial map showing project location

Distribution List:

State Historic Preservation Office
Indiana Landmarks - Western Regional Office - west@indianalandmarks.org
Lafayette Historic Preservation Commission - dcarson@lafayette.in.gov
Wabash Valley Trust for Historic Preservation - info@wabashvalleytrust.org
Historic Spans Task Force - paul@prbrandy.com
Historic Hoosier Bridges - spansaver@hotmail.com
HistoricBridges.org - Nathan@historicbridges.org
Historic Bridge Foundation - kitty@historicbridgefoundation.com
Tippecanoe County Historian - rjrobinson@gmail.com
Tippecanoe County Area Genealogical Society - tipcoasoc@gmail.com

www.in.gov/dot/

An Equal Opportunity Employer





**EASTERN SHAWNEE
CULTURAL PRESERVATION DEPARTMENT**

70500 East 128 Road, Wyandotte, OK 74370

April 26, 2022

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

RE: Des No. 2002077, Tippecanoe County, Indiana

Dear Ms. Korzeniewski,

The Eastern Shawnee Tribe has received your letter regarding the above referenced project(s) within Tippecanoe 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,

A handwritten signature in blue ink that reads "Paul Barton".

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

From: Kennedy, Mary
Sent: Tuesday, June 28, 2022 7:25 AM
To: thpo@estoo.net; THPO@MiamiNation.com; Charla EchoHawk; 'Matthew.Bussler@pokagonbandnsn.gov'
Cc: Anne M. Shaw; Carmany-George, Karstin (FHWA); Korzeniewski, Patricia J
Subject: FHWA Project: Des. No. 2002077; HBAA, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

Des. No.: 2002077
Project Description: SR 225 over Wabash River Bridge Rehabilitation
Location: Tippecanoe Township, Tippecanoe County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with a Bridge Rehabilitation on SR 225 over the Wabash River (Bridge No. 225-79-04016G; Des. No. 2002077). The Section 106 Early Coordination Letter for this project was originally distributed on April 5, 2022.

As part of Section 106 of the National Historic Preservation Act, an Historic Bridge Alternatives Analysis Report has been prepared and is ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment.

Tribal Contacts please respond to INDOT's Tribal Liaison, Patty Jo Korzeniewski at pkorzeniewski@indot.in.gov (317-416-4377) 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 K.CarmanyGeorge@dot.gov (317-226-5629).

Thank you in advance for your input,

Mary E. Kennedy
Historic Bridge Specialist
100 N. Senate Ave., Room N758-ES
Indianapolis, IN 46204
Email: mkennedy@indot.in.gov
Phone: 317-694-3607
Typically on site Mon, Tues & Thurs; Remote Weds



*For the latest updates from INDOT's Cultural Resources Office, subscribe to the Environmental Services listserv: <https://www.in.gov/indot/3217.htm>

**Link to the CRO-Public Web Map App can be found [here](#)



INDIANA DEPARTMENT OF TRANSPORTATION

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

PHONE: (855) 463-6848

Eric Holcomb, Governor
Michael Smith, Commissioner

June 27, 2022

This letter was sent to the listed parties.

RE: Dual Review Project: SR 225 over Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana (Des. No. 2002077, DHPA No. 29044)

Dear Consulting Party,

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration, proposes to proceed with a bridge rehabilitation project, Des. No. 2002077.

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 properties. We are requesting comments from you regarding the possible effects of this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

The proposed undertaking involves INDOT Bridge No. 225-79-04016G (NBI No. 029150), carrying SR 225 over the Wabash River. The proposed undertaking is on SR 225 0.60 mile north of old SR 25 in Tippecanoe County, Indiana. It is within Tippecanoe and Washington Townships, Lafayette East USGS Topographic Quadrangle, in Section 25, Township 24 North, Range 4 West and Burnett's Number 3 Section.

The most recent inspection and Bridge Inspection Report indicates there are structural deficiencies that need to be addressed. The deficiencies include:

- The existing bridge deck has cracking, leaching, and spalling with up to 17% delamination per span.
- There is widespread deterioration of the truss members and gusset plates, which is worsened by exposure to roadway runoff. The existing curbs do not protect the truss members from all roadway runoffs.
- 161 of the truss and superstructure members do not have a load capacity that meets the Indiana Design Manual (IDM) requirement for load capacity. This results in the bridge having substandard load capacity. Several members are undersized due to the loads in which they were originally designed for and other members have deteriorated which has reduced their capacity. Due to this, the bridge is posted for a low load capacity (12 tons).
- Abutment No. 1 and Abutment No. 5 have cracking and weathering. If this deterioration continues to worsen, it could jeopardize the structural integrity of the abutments.

The purpose of this project is to improve portions of the bridge as required to increase the load capacity of the bridge to meet an HS-15 loading and to protect the members that are at risk of future deterioration. The goals of the project will be met by:

- Addressing the bridge deck cracking, leaching, and spalling.
- Protecting the truss elements from roadway runoff and other environmental elements.
- Improving the superstructure members to provide a HS-15 load capacity for the bridge.
- Addressing the abutment deterioration to prevent further deterioration, which could compromise the structural integrity of the bridge.

Currently, the bridge has been closed due to a Fracture Critical Inspection that identified two cracks in two different fracture critical members.

Temporary and permanent right-of-way limits and amounts are currently being determined.

BLN is under contract with INDOT to advance the environmental documentation for the referenced project. Clark Dietz has 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, or you are hereby invited to become a consulting party as part of the Section 106 process. Entities that have previously accepted consulting party status--as well as additional entities that are currently being invited to become consulting parties--are identified 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 <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf>.

Per the terms of the "Programmatic Agreement Regarding Management and Preservation of Indiana's Historic Bridges" (Historic Bridges PA), the FHWA-Indiana Division will satisfy its Section 106 responsibilities involving "Select" and "Non-Select" bridges through the Project Development Process (PDP) of the Historic Bridges PA (Stipulation III). Because Bridge 225-79-04016G (NBI No. 029150) is a "Select" bridge, the procedures outlined in Stipulation III.A./III.B. Stipulation III.A./III.B of the Historic Bridges PA will be followed to fulfill FHWA's Section 106 responsibilities for the project. (A copy of the Historic Bridges PA can be downloaded here: <http://www.in.gov/indot/2530.htm>).

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.

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 no resources listed in the National Register of Historic Places (NRHP).

A historian who meets the Secretary of the Interior’s Professional Qualification Standards is conducting a survey of above-ground resources within the APE for potential eligibility for the NRHP. A report of that investigation is forthcoming and will be distributed to consulting parties for review at a later date.

An archaeologist who meets the Secretary of the Interior’s Professional Qualification Standards is conducting a survey of archaeological resources within the APE for potential eligibility for listing in the NRHP. A report of that investigation is forthcoming and will be distributed to the appropriate consulting parties for review at a later date.

A Section 106 early coordination letter (ECL) was distributed on April 5, 2022.

Tony Dillon representing Historic Hoosier Bridges, Nathan Holth representing historicbridges.org, and Paul Bradenburg representing Historic Spans Task Force responded to the ECL on April 5, 2022 via email requesting to be included as consulting parties on the project.

The Tribal Historic Preservation Officer from the Miami Tribe of Oklahoma, responded to the ECL on April 6, 2022, stating that the Miami Tribe is not currently aware of existing documentation directly linking a specific Miami cultural or historic site to the project site. However, very near the project are historically significant Prophetstown and the site of the Battle of Tippecanoe. Given the Miami Tribe’s deep and enduring relationship to its historic lands and cultural property within present-day Indiana, if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) or archaeological evidence is discovered during any phase of this project, the Miami Tribe requests immediate consultation with the entity of jurisdiction for the location of discovery.

The Director of Cultural Preservation from the Peoria Tribe of Indians of Oklahoma responded to the ECL on April 6, 2022, stating that the Peoria Tribe is unaware of items covered under the Native American Graves Protection and Repatriation Act (NAGPRA) to be associated with the proposed project site, including funerary or sacred objects; objects of cultural patrimony; or ancestral human remains. Furthermore, the Peoria Tribe has no objections to the proposed project at this time. If, however, at any time items are discovered which fall under the protection of NAGPRA, the Peoria Tribe requests immediate notification and consultation. In addition, state, local, and tribal authorities, should be advised as the findings and construction halted until consultation with all concerned parties has occurred.

SHPO responded to the ECL on April 14, 2022, stating that with their response, they were providing notification of the commencement of the dual review to “interested persons and members of the Indiana Historic Preservation Review Board” and notice would be published on their website. SHPO requested to be notified in the next regular submission of consulting parties that accepted the invitation in the ECL.

The Tribal Historic Preservation Officer for the Eastern Shawnee Tribe responded to the ECL on April 26, 2022, stating that upon research of their databases and files, they found that the Eastern Shawnee Tribe 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. Furthermore, should this project inadvertently discover an archeological site or objects they request that they be immediately contacted, as well as the appropriate state agencies within 24 hours. The tribe also asks that all ground disturbing activity stop until the Tribe and State agencies are consulted. In addition, any future changes to this project will require additional consultation.

The Tribal Historic Preservation Officer for the Pokagon Band of Potawatomi Indians responded to the ECL on May 5, 2022, stating that the proposed work is occurring within a mile of known archaeological sites, historic sites or features that are considered sensitive or recorded in the Pokagon Band Historic Inventory Database. The Pokagon Band of Potawatomi Indians have made the determination that the project will have No Adverse Effect on any historic, religious, or culturally significant resources to the Pokagon Band of Potawatomi Indians. However, if any cultural or archaeological resources are uncovered during construction, please stop work, and contact the Pokagon Band of Potawatomi Indians immediately.

The Historic Bridge Alternatives Analysis Report is available for review in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review these documents and to respond with comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If you prefer a hard-copy of this material, please respond to this email with your request within 7 days.

Please review the information and comment within thirty (30) calendar days of receipt. If you indicate that you do not desire to be a consulting party or if you have not previously accepted consulting party status and you do not respond to this letter, you will not be included on the list of consulting parties for this project and will not receive further information about the project unless the design changes.

For questions concerning specific project details, you may contact Anne Shaw of Clark Dietz at 859-797-0097 or anne.shaw@clarkdietz.com. All future responses regarding the proposed project should be forwarded to Anne Shaw at the following address:

Anne Shaw
Principal Investigator
Clark Dietz
8900 Keystone Crossing, Suite 475
Indianapolis, IN 46240
anne.shaw@clarkdietz.com

Tribal Contacts please respond to INDOT's Tribal Liaison, Patty Jo Korzeniewski at pkorzeniewski@indot.in.gov (317-416-4377) 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 K.CarmanyGeorge@dot.gov (317-226-5629).

Sincerely,



Matt Coon, Acting Manager
Cultural Resources Office
Environmental Services

Enclosures:

Consulting Party responses

Removed to avoid
Redundancy

Distribution List:

State Historic Preservation Office

Historic Spans Task Force - paul@prbrandy.com

Historic Hoosier Bridges - spansaver@hotmail.com

HistoricBridges.org - Nathan@historicbridges.org

Eastern Shawnee Tribe of Oklahoma

Miami Tribe of Oklahoma

Peoria Tribe of Indians of Oklahoma

Pokagon Band of Potawatomi Indians

From: [Tony Dillon](#)
To: [Anne M. Shaw](#)
Cc: mkennedy@indot.in.gov; sbranigin@indot.in.gov; [Coon, Matthew](#); [Tyler Wolf](#); [Hillary Shaffer](#); [Ahmed, Arshad](#); [Lillian M. Hutzell](#); [Patrick W. Delp](#); [Brian Shaw](#); [Paul Brandenburg](#); [Nathan Holth](#)
Subject: Re: FHWA Project: Des. No. 2002077; HBAA, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana
Date: Monday, July 18, 2022 1:35:39 PM

Anne,

I applaud the decision to rehabilitate and maintain this structure for continued use on this lower volume state road. It will continue to be an historic attribute that fits in well with the Prophetstown area. During my visits, the stoplight controlled crossing seemed to be very effective in maintaining the traffic flow from both directions.

My only comments or concerns would be in regards to the materials and methods used in the rehabilitation process. I would expect this to be performed on an in-kind manner, as to maintain the highest historic integrity possible. I look forward to further discussion on this project.

Thanks,
Tony

Tony Dillon
Historic Hoosier Bridges
208 North 17th Street
New Castle, IN 47362
(765)624-6558
spansaver@hotmail.com

From: Anne M. Shaw <Anne.Shaw@clarkdietz.com>
Sent: Monday, June 27, 2022 4:03 PM
To: Paul Brandenburg <paul@prbrandy.com>; spansaver@hotmail.com <spansaver@hotmail.com>; Nathan Holth <Nathan@historicbridges.org>
Cc: mkennedy@indot.in.gov <mkennedy@indot.in.gov>; sbranigin@indot.in.gov <sbranigin@indot.in.gov>; Coon, Matthew <mcoon@indot.IN.gov>; Tyler Wolf <twolf@b-l-n.com>; Hillary Shaffer <hshaffer@b-l-n.com>; Ahmed, Arshad <ArAhmed@indot.IN.gov>; Lillian M. Hutzell <Lillian.Hutzell@clarkdietz.com>; Patrick W. Delp <Patrick.Delp@clarkdietz.com>; Brian Shaw <bshaw@b-l-n.com>
Subject: FHWA Project: Des. No. 2002077; HBAA, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

Des. No.: 2002077

Project Description: SR 225 over Wabash River Bridge Rehabilitation

Anne M. Shaw

From: Paul Brandenburg <paul@prbrandy.com>
Sent: Wednesday, July 20, 2022 10:50 AM
To: Anne M. Shaw
Subject: RE: FHWA Project: Des. No. 2002077; HBAA, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

Anne – Upon review of the Historic Bridge Alternatives Analysis Report, the Preliminary Preferred Alternative of Rehabilitation for Continued Two-Way Vehicular Use is supported as described for this outstanding Historic Structure. INDOT’s commitment to our Cultural Heritage of Historic Bridges is extremely appreciated. It was noted that in reaching the decision that the option was Feasible and Prudent the cost estimates indicated that rehabilitation “will result in significantly extending the life of the bridge at under half the cost of bridge replacement”.

Cheers,

Paul Brandenburg

From: Anne M. Shaw <Anne.Shaw@clarkdietz.com>
Sent: Monday, June 27, 2022 4:03 PM
To: Paul Brandenburg <paul@prbrandy.com>; spansaver@hotmail.com; Nathan Holth <Nathan@historicbridges.org>
Cc: mkennedy@indot.in.gov; sbranigin@indot.in.gov; Coon, Matthew <mcoon@indot.IN.gov>; Tyler Wolf <twolf@b-l-n.com>; Hillary Shaffer <hshaffer@b-l-n.com>; Ahmed, Arshad <ArAhmed@indot.IN.gov>; Lillian M. Hutzell <Lillian.Hutzell@clarkdietz.com>; Patrick W. Delp <Patrick.Delp@clarkdietz.com>; Brian Shaw <bshaw@b-l-n.com>
Subject: FHWA Project: Des. No. 2002077; HBAA, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

Des. No.: 2002077

Project Description: SR 225 over Wabash River Bridge Rehabilitation

Location: Tippecanoe Township, Tippecanoe County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with a Bridge Rehabilitation on SR 225 over the Wabash River (Bridge No. 225-79-04016G; Des. No. 2002077). The Section 106 Early Coordination Letter for this project was originally distributed on April 5, 2022.

As part of Section 106 of the National Historic Preservation Act, an Historic Bridge Alternatives Analysis Report has been prepared and is ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment.

Tribal Contacts please respond to INDOT’s Tribal Liaison, Patty Jo Korzeniewski at pkorzeniewski@indot.in.gov (317-416-4377) 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 K.CarmanyGeorge@dot.gov (317-226-5629).

Thank you in advance for your input,

Division of Historic Preservation & Archaeology · 402 W. Washington Street, W274 · Indianapolis, IN 46204-2739
Phone 317-232-1646 · Fax 317-232-0693 · dhpa@dnr.IN.gov



July 25, 2022

Anne Shaw
Principal Investigator
Clark Dietz
8900 Keystone Crossing, Suite 475
Indianapolis, Indiana 46240

State Agency: Indiana Department of Transportation (“INDOT”),
Federal Agency: Federal Highway Administration, Indiana Division (“FHWA”)

Re: DUAL REVIEW: Historic bridge alternatives analysis, and archaeological proposal and authorization request, for a bridge rehabilitation project carrying SR 225 over the Wabash River (Des. No. 2002077; DHPA No. 29044)

Dear Ms. Shaw:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108); implementing regulations at 36 C.F.R. Part 800; the “Programmatic Agreement Among the Federal Highway Administration, the Indiana Department of Transportation, the Indiana Historic Preservation Officer, and the Advisory Council on Historic Preservation Regarding Management and Preservation of Indiana’s Historic Bridges” (“Indiana Historic Bridges PA”); and the “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding that Implementation of the Federal Aid Highway Program In the State of Indiana” (“Indiana Minor Projects PA”); and also pursuant to Indiana Code 14-21-1-18 and 312 Indiana Administrative Code (“IAC”) 20-4, the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO”) has reviewed your June 24 and 27, 2022, submissions which included the historic bridges alternatives analysis (“HBAA”) and archaeological proposal and authorization request, received by our office the same day for this project in Tippecanoe and Washington townships, Tippecanoe County, Indiana.

Please note that we are responding to the authorization request for the Phase Ia archaeological investigations work plan (Shaw, 06/24/2022) under separate cover.

The SR 225 over the Wabash River is a c. 1912 four-span steel Pratt truss with a concrete deck that is categorized as a “Select” bridge that is previously determined eligible for inclusion in the National Register of Historic Places. We agree with the conclusions of the HBAA that Alternative B-1: Rehabilitation for Continued Two-Way Vehicular Use, meeting Secretary of Interior’s Standards for Rehabilitation is the preferred alternative for this project compared to the No Build Alternative.

As referenced in Section V.C of the HBAA, we request that this bridge be photographically documented. We request color, digital images that provide overviews of the resource, along with detailed shots of character-defining features. In addition to the photographs, please provide a photo log that corresponds to the photographs, a photo key, and an overview thumbnail sheet. Please submit a draft copy of this documentation on CD, flash drive, or any other previously approved storage device for our review and approval. Upon approval, this documentation should be provided to a public or not-for-profit organization that is willing to accept a copy of this documentation and make it available to the public. Please inform us which local or not-for-profit organization is willing to accept this documentation.

As INDOT's June 27, 2022, letter indicates, additional information regarding above-ground historic resources and archaeological resources are forthcoming. Once the indicated information is received, the Indiana SHPO will resume identification and evaluation procedures for this project. Please keep in mind that additional information may be requested in the future.

For the benefit of those recipients of a copy of this letter who are not Section 106 consulting parties, please be aware that a copy of this submission can be found online at <http://erms.indot.in.gov/Section106Documents/>. From there, search by this project's designation number: 2002077.

If you have questions regarding our dual review of the aforementioned project, please contact DNR-DHPA. Questions about archaeological issues should be directed to contact Wade T. Tharp at (317) 232-1650 or wtharp1@dnr.in.gov. Questions about historic buildings or structures pertaining to this review should be directed to Danielle Kauffmann at (317) 232-0582 or dkauffmann@dnr.IN.gov.

In all future correspondence regarding the dual review of this bridge rehabilitation project carrying SR 225 over the Wabash River (Des. No. 2002077), please refer to DHPA No. 29044.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer
Director, Division of Historic Preservation and Archaeology

BKM:DMK:WTT:wt

EMC to federal and state agency or consultant staff members:

Kari Carmany-George, FHWA
Mary Kennedy, INDOT
Matt Coon, INDOT
Susan Branigin, INDOT
Anne Shaw, Clark Dietz
Danielle Kauffmann, Indiana DNR-DHPA
Wade T. Tharp, Indiana DNR-DHPA

EMC to Indiana Historic Preservation Review Board Members:

J. Scott Keller, Review Board
Daniel Kloc, AIA, Review Board
Jason Larrison, AIA, Review Board
Chandler Lighty, Review Board
Beth K. McCord, Indiana DNR-DHPA, Review Board
Ryan Mueller, Deputy Director, Indiana DNR, and Chairman, Review Board
Anne Shaw, Review Board
April Sievert, Ph.D., Review Board

EMC to potentially interested persons:

Indiana Landmarks, Western Regional Office
Lafayette Historic Preservation Commission
Tippecanoe County Historian
Tippecanoe County Area Genealogical Society
Tippecanoe County Historical Association
Tippecanoe County Commissioners
Tippecanoe County Highway Supervisor
Tippecanoe County Surveyor
Eastern Shawnee Tribe
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians
Paul Brandenburg, Indiana Historic Spans Task Force
Tony Dillon, Historic Hoosier Bridges
Kitty Henderson, Historic Bridge Foundation
Nathan Holth, historicbridges.org



**EASTERN SHAWNEE
CULTURAL PRESERVATION DEPARTMENT**

70500 East 128 Road, Wyandotte, OK 74370

August 31, 2022

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

RE: *Des No. 2002077, Tippercanoe County, Indiana*

Dear Mrs. Kennedy,

The Eastern Shawnee Tribe has received your letter regarding the above referenced project(s) within Tippercanoe 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,

A handwritten signature in blue ink that reads "Paul Barton".

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

Anne M. Shaw

From: Anne M. Shaw
Sent: Wednesday, December 28, 2022 4:30 PM
To: Paul Brandenburg; spansaver@hotmail.com; Nathan Holth; dpoad@tippecanoe.in.gov
Cc: mkennedy@indot.in.gov; Coon, Matthew; Lillian M. Hutzell; Tyler Wolf; Ahmed, Arshad; sbranigin@indot.in.gov
Subject: FHWA Project: Des. No. 2002077; HPR and ASR, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

Des. No.: 2002077

Project Description: SR 225 over Wabash River Bridge Rehabilitation

Location: Tippecanoe and Washington Townships, Tippecanoe County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with a Bridge Rehabilitation on SR 225 over the Wabash River (Bridge No. 225-79-04016G; Des. No. 2002077). The Section 106 Early Coordination Letter for this project was originally distributed on April 5, 2022.

As part of Section 106 of the National Historic Preservation Act, a Historic Property Report and Archaeology Report (Tribes only) have been prepared and are ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon mcoon@indot.in.gov; (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 K.CarmanyGeorge@dot.gov (317-226-5629).

Thank you in advance for your input,

Anne



Anne M. Shaw

Clark Dietz, Inc. 8900 Keystone Crossing, Suite 475, Indianapolis, IN 46240

p 317.808.3160 / c 859.797.0097

anne.shaw@clarkdietz.com / clarkdietz.com

Anne M. Shaw

From: Coon, Matthew <mcoon@indot.IN.gov>
Sent: Thursday, December 29, 2022 8:51 AM
To: thpo@estoo.net; Benjamin Rhodd; thpo@miamination.com; Charla EchoHawk; Matthew Bussler; Section106@shawnee-tribe.com
Cc: Carmany-George, Karstin (FHWA); Anne M. Shaw; Lillian M. Hutzell
Subject: FHWA Project: Des. No. 2002077; HPR and ASR, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

Des. No.: 2002077

Project Description: SR 225 over Wabash River Bridge Rehabilitation

Location: Tippecanoe and Washington Townships, Tippecanoe County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with a Bridge Rehabilitation on SR 225 over the Wabash River (Bridge No. 225-79-04016G; Des. No. 2002077). The general project location may be viewed online at <https://arcg.is/jqueP> (the Des. No. is the most efficient search term once in the CRO - Public Web Map App).

The Section 106 Early Coordination Letter for this project was originally distributed on April 5, 2022.

As part of Section 106 of the National Historic Preservation Act, a Historic Property Report and Archaeology Report (Tribes only) have been prepared and are ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon mcoon@indot.in.gov; (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 K.CarmanyGeorge@dot.gov (317-226-5629).

Thank you in advance for your input,

Matt Coon

Acting Manager, Cultural Resources Office

Archaeology Team Lead

Environmental Services

Indiana Department of Transportation

100 North Senate Ave., N758-ES

Indianapolis, IN 46204

Phone: 317-697-9752



INDIANA DEPARTMENT OF TRANSPORTATION

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

PHONE: (855) 463-6848

Eric Holcomb, Governor
Michael Smith, Commissioner

December 21, 2022

This letter was sent to the listed parties.

RE: Dual Review Project: Historic Property Report and Archaeology Report, Des. No. 2002077, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana (DHPA No. 29044)

Dear Consulting Party,

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with a bridge rehabilitation project, Des. No. 2002077. Clark Dietz, as a sub to Beam Longest and Neff (BLN), is under contract with INDOT to advance the environmental documentation for the referenced project.

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 properties. We are requesting comments from you regarding the possible effects of this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

A Section 106 early coordination letter was distributed on April 5, 2022.

The proposed undertaking is on SR 225 0.60 mile north of old SR 25 in Tippecanoe County, Indiana. It is within Tippecanoe and Washington Townships, Lafayette East USGS Topographic Quadrangle, in Section 25, Township 24 North, Range 4 West and Burnett's Number 3 Section. The project area can be viewed online at <https://arcg.is/jqueP> (the Des. No. is the most efficient search term once in the CRO - Public Web Map App).

The most recent inspection and Bridge Inspection Report indicates there are structural deficiencies that need to be addressed. The deficiencies include:

- The existing bridge deck has cracking, leaching, and spalling with up to 17% delamination per span.
- There is widespread deterioration of the truss members and gusset plates, which is worsened by exposure to roadway runoff. The existing curbs do not protect the truss members from all roadway runoff.
- 161 of the truss and superstructure members do not have a load capacity that meets the Indiana Design Manual (IDM) requirement for load capacity. This results in the bridge having substandard load capacity. Several members are undersized due to the loads in which they were originally designed for and other members have deteriorated which has reduced their capacity.

- Abutment No. 1 and Abutment No. 5 have cracking and weathering. If this deterioration continues to worsen, it could jeopardize the structural integrity of the abutments.

The purpose of this project is to improve portions of the bridge as required to increase the load capacity of the bridge to meet an HS-15 loading and to protect the members that are at risk of future deterioration. The goals of the project will be met by:

- Addressing the bridge deck cracking, leaching, and spalling.
- Protecting the truss elements from roadway runoff and other environmental elements.
- Improving the superstructure members to provide a HS-15 load capacity for the bridge.
- Addressing the abutment deterioration to prevent further deterioration, which could compromise the structural integrity of the bridge.

Currently, the bridge has been closed due to a Fracture Critical Inspection that identified two cracks in two different fracture critical members.

It is estimated there will be approximately 0.23 acre of temporary right-of-way acquired.

BLN is under contract with INDOT to advance the environmental documentation for the referenced project. Clark Dietz has 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, or you are hereby invited to become a consulting party as part of the Section 106 process. Entities that have previously accepted consulting party status--as well as additional entities that are currently being invited to become consulting parties--are identified 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 <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf>.

Per the terms of the "Programmatic Agreement Regarding Management and Preservation of Indiana's Historic Bridges" (Historic Bridges PA), the FHWA-Indiana Division will satisfy its Section 106 responsibilities involving "Select" and "Non-Select" bridges through the Project Development Process (PDP) of the Historic Bridges PA (Stipulation III). Because Bridge 225-79-04016G (NBI No. 029150) is a "Select" bridge, the procedures outlined in Stipulation III.A./III.B. Stipulation III.A. of the Historic Bridges PA will be followed to fulfill FHWA's Section 106 responsibilities for the project. (A copy of the Historic Bridges PA can be downloaded here: <http://www.in.gov/indot/2530.htm>).

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.

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 one resource eligible for the National Register of Historic Places (NRHP): INDOT Bridge No. 225-79-04016G (NBI No. 029150).

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. As a result of the historic property identification and evaluation efforts, no above-ground resources other than INDOT Bridge No. 225-79-04016G are recommended as eligible for listing in the NRHP.

With regard to archaeological resources, an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards identified no sites within the project area. As a result of these efforts, no further work is recommended.

An Historic Bridges Alternatives Analysis (HBAA) was distributed to consulting parties on June 27, 2022.

In communication with INDOT CRO on July 13, 2022, Doug Poad with the Area Plan Commission of Tippecanoe County asked to be added as a consulting party.

Tony Dillon with Historic Hoosier Bridges responded to the HBAA on July 18, 2022 stating that he applauded the decision to rehabilitate the structure. He also stated that he thought the stoplight controlled crossing seemed to be very effective in maintaining traffic. Mr. Dillon additionally stated that he expected that the materials and methods used in the rehabilitation to be performed in an in-kind manner in order to maintain the highest integrity possible.

Paul Bradenburg with Historic Spans Task Force responded to the HBAA on July 20, 2022 stating that the document was extremely appreciated.

SHPO responded to the HBAA on July 25, 2022 stating that they agreed with the conclusions of the HBAA that Alternative B-1: Rehabilitation for Continued Two-Way Vehicular Use, meeting Secretary of Interior's Standards for Rehabilitation is the preferred alternative. They requested that the bridge be photographically documented per their specifications.

The Eastern Shawnee Tribe responded to the HBAA on August 31, 2022 stating that the project proposes No Adverse Effect or endangerment to known sites of interest for the Tribe.

The Historic Property Report and Archaeology Report (Tribes only) are available for review in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review these documents and to respond with comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If you prefer a hard copy of this material, please respond to this email with your request within seven (7) days.

Please review the information and comment within thirty (30) calendar days of receipt. If you indicate that you do not desire to be a consulting party or if you have not previously accepted consulting party status and you do not respond to this letter, you will not be included on the list of consulting parties for this project and will not receive further information about the project unless the design changes.

For questions concerning specific project details, you may contact Anne Shaw of Clark Dietz at 317-808-3160

or anne.shaw@clarkdietz.com. All future responses regarding the proposed project should be forwarded to Anne Shaw at the following address:

Anne Shaw
Principal Investigator
Clark Dietz
8900 Keystone Crossing, Suite 475
Indianapolis, IN 46240
anne.shaw@clarkdietz.com

Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon mcoon@indot.in.gov; (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 K.CarmanyGeorge@dot.gov (317-226-5629).

Sincerely,



Matt Coon, Acting Manager
Cultural Resources Office
Environmental Services

Distribution List:

SHPO

Nathan Hoth (historicbridges.org) - Nathan@historicbridges.org
Paul Bradenburg (Historic Spans Task Force) - paul@prbrandy.com
Tony Dillon (Historic Hoosier Bridges) - spansaver@hotmail.com
Doug Poad - dpoad@tippecanoe.in.gov
Miami Tribe of Oklahoma
Peoria Tribe
Eastern Shawnee Tribe of Oklahoma
Pokagon Band of Potawatomi Indians

Anne M. Shaw

From: Paul Brandenburg <paul@prbrandy.com>
Sent: Thursday, December 29, 2022 1:58 PM
To: Anne M. Shaw
Subject: RE: FHWA Project: Des. No. 2002077; HPR and ASR, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

Anne – My thanks for the information regarding the SR225 Bridge Project. I have reviewed the excellent *Historic Property Report and Archaeology Report* and have no additional comments.

Cheers,

Paul

From: Anne M. Shaw <Anne.Shaw@clarkdietz.com>
Sent: Wednesday, December 28, 2022 4:30 PM
To: Paul Brandenburg <paul@prbrandy.com>; spansaver@hotmail.com; Nathan Holth <Nathan@historicbridges.org>; dpoad@tippecanoe.in.gov
Cc: mkennedy@indot.in.gov; Coon, Matthew <mcoon@indot.IN.gov>; Lillian M. Hutzell <Lillian.Hutzell@clarkdietz.com>; Tyler Wolf <twolf@b-l-n.com>; Ahmed, Arshad <ArAhmed@indot.IN.gov>; sbranigin@indot.in.gov
Subject: FHWA Project: Des. No. 2002077; HPR and ASR, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

Des. No.: 2002077

Project Description: SR 225 over Wabash River Bridge Rehabilitation

Location: Tippecanoe and Washington Townships, Tippecanoe County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with a Bridge Rehabilitation on SR 225 over the Wabash River (Bridge No. 225-79-04016G; Des. No. 2002077). The Section 106 Early Coordination Letter for this project was originally distributed on April 5, 2022.

As part of Section 106 of the National Historic Preservation Act, a Historic Property Report and Archaeology Report (Tribes only) have been prepared and are ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon mcoon@indot.in.gov; (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 K.CarmanyGeorge@dot.gov (317-226-5629).

From: [Benjamin Rhodd](#)
To: [Coon, Matthew](#)
Subject: RE: FHWA Project: Des. No. 2002077; HPR and ASR, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana
Date: Thursday, December 29, 2022 12:16:18 PM

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

Mr. Coon,

Pursuant to consultation under Section 106 of the National Historic Preservation Act (1966 as amended) the Forest County Potawatomi Community (FCPC), a Federally Recognized Native American Tribe, reserves the right to comment on Federal undertakings, as defined under the act.

The Tribal Historic Preservation Office (THPO) staff has reviewed the information you provided for this project. Upon review of site data and supplemental cultural history within our Office, the FCPC THPO is pleased to offer a finding of No Historic Properties affected of significance to the FCPC, however, we request to remain as a consulting party for this project.

As a standard caveat sent with each proposed project reviewed by the FCPC THPO, the following applies. In the event an Inadvertent Discovery (ID) occurs at any phase of a project or undertaking as defined, and human remains or archaeologically significant materials are exposed as a result of project activities, work should cease immediately. The Tribe(s) must be included with the SHPO in any consultation regarding treatment and disposition of an ID find.

Thank you for protecting cultural and historic properties and if you have any questions or concerns, please contact me at the email or number listed below.

Respectfully,

Ben Rhodd, MS, RPA, Tribal Historic Preservation Officer
Forest County Potawatomi
Historic Preservation Office
8130 Mish ko Swen Drive, P.O. Box 340, Crandon, Wisconsin 54520
P: 715-478-7354 C: 715-889-0202 Main: 715-478-7474
Email: Benjamin.Rhodd@fcp-nsn.gov
www.fcpotawatomi.com

From: Coon, Matthew <mcoon@indot.IN.gov>
Sent: Thursday, December 29, 2022 7:51 AM
To: thpo@estoo.net; Benjamin Rhodd <Benjamin.Rhodd@fcp-nsn.gov>; thpo@miamination.com; Charla EchoHawk <cechohawk@peoriatribe.com>; Matthew Bussler <Matthew.Bussler@pokagonband-nsn.gov>; Section106@shawnee-tribe.com
Cc: Carmany-George, Karstin (FHWA) <k.carmanygeorge@dot.gov>; Anne.Shaw@clarkdietz.com; Lillian M. Hutzell <Lillian.Hutzell@clarkdietz.com>



**EASTERN SHAWNEE
CULTURAL PRESERVATION DEPARTMENT**

70500 East 128 Road, Wyandotte, OK 74370

January 23, 2023

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

RE: Des No. 2002077, Tippecanoe County, IN

Dear Mr. Coon,

The Eastern Shawnee Tribe has received your letter regarding the above referenced project(s) within Tippecanoe County, IN. 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,

A handwritten signature in blue ink that reads "Paul Barton".

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

Division of Historic Preservation & Archaeology · 402 W. Washington Street, W274 · Indianapolis, IN 46204-2739
Phone 317-232-1646 · Fax 317-232-0693 · dhpa@dnr.IN.gov ·



January 27, 2023

Anne M. Shaw
Clark Dietz, Inc.
8900 Keystone Crossing, Suite 475
Indianapolis, Indiana 46240

State Agency: Indiana Department of Transportation (“INDOT”),
Federal Agency: Federal Highway Administration, Indiana Division (“FHWA”)

Re: DUAL REVIEW: Historic property short report (Shaw/Hutzell. 12/28/2022), and Indiana archaeological short report (Shaw, 12/28/2022), for INDOT Bridge No. 225-79-04016G (NBI No. 029150) project carrying SR 225 over the Wabash River (Des. No. 2002077; DHPA No. 29004)

Dear Ms. Shaw:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108); implementing regulations at 36 C.F.R. Part 800; the “Programmatic Agreement Among the Federal Highway Administration, the Indiana Department of Transportation, the Indiana Historic Preservation Officer, and the Advisory Council on Historic Preservation Regarding Management and Preservation of Indiana’s Historic Bridges” (“Indiana Historic Bridges PA”); and the “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding that Implementation of the Federal Aid Highway Program In the State of Indiana” (“Indiana Minor Projects PA”); and also pursuant to Indiana Code 14-21-1-18 and 312 Indiana Administrative Code (“IAC”) 20-4, the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO”) has reviewed your December 28, 2022 submission which included the historic property report (“HPR”, Shaw/Hutzell. 12/28/2022) received by our office the same date for this project.

The area of potential effects (“APE”) proposed in the HPR or HPSR appears to be of adequate size to encompass the geographic area in which direct and indirect effects of a project of this nature could occur.

We agree with the conclusions of the HPR that as a result of the historic property identification and evaluation efforts, no above-ground resources other than INDOT Bridge No. 225-79-04016G (NBI No. 029150) are recommended as eligible for listing in the NRHP.

As we previously commented, the SR 225 over the Wabash River is a c. 1912 four-span steel Pratt truss with a concrete deck that is categorized as a “Select” bridge that is previously determined eligible for inclusion in the National Register of Historic Places. We agree with the conclusions of the HBAA that Alternative B-1: Rehabilitation for Continued Two-Way Vehicular Use, meeting Secretary of Interior’s Standards for Rehabilitation is the preferred alternative for this project compared to the No Build Alternative.

As referenced in Section V.C of the HBAA, we request that this bridge be photographically documented. We request color, digital images that provide overviews of the resource, along with detailed shots of character-defining features. In addition to the photographs, please provide a photo log that corresponds to the photographs, a photo key, and an overview thumbnail sheet. Please submit a draft copy of this documentation on CD, flash drive, or any other previously approved storage device for our review and approval. Upon approval, this documentation should be provided to a public or not-for-profit organization

that is willing to accept a copy of this documentation and make it available to the public. Please inform us which local or not-for-profit organization is willing to accept this documentation.

Additionally, in terms of archaeological resources, based on the submitted information and the documentation available to the staff of the Indiana SHPO, we have no identified any currently known archaeological resources listed in or eligible for inclusion in the NRHP within the proposed project area; and we concur with the opinion of the archaeologist, as expressed in the Indiana archaeological short report (Shaw, 12/28/2022), that no further archaeological investigations appear necessary at the proposed project area.

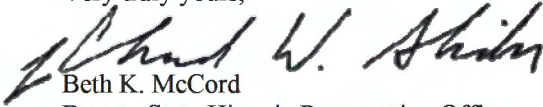
If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29) requires that the discovery be reported to the Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. Part 800.

For the benefit of those recipients of a copy of this letter who are not Section 106 consulting parties, please be aware that a copy of this submission can be found online at <http://erms.indot.in.gov/Section106Documents/>. From there, search by this project's designation number: 2002077.

If you have questions regarding our dual review of the aforementioned project, please contact the Indiana DNR-DHPA. Questions about archaeological issues should be directed to contact Wade T. Tharp at (317) 232-1650 or wtharp1@dnr.in.gov. Questions about historic buildings or structures pertaining to this review should be directed to Toni Lynn Giffin at (317) 233-2803 or tgiffin@dnr.IN.gov.

In all future correspondence regarding the dual review of this project INDOT Bridge No. 225-79-04016G (NBI No. 029150) carrying SR 225 over the Wabash River (Des. No. 2002077), please refer to DHPA No. 29004.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer
Director, Division of Historic Preservation and Archaeology

BKM:TLG:WTT:wtt

emc: Kari Carmany-George, FHWA
Matt Coon, INDOT
Mary Kennedy, INDOT
Susan Branigin, INDOT
Anne Shaw, Clark Dietz
Lillian Hutzell, Clark Dietz
Toni Lynn Giffin, Indiana DNR-DHPA
Wade Tharp, Indiana DNR-DHPA
J. Scott Keller, Indiana Historic Preservation Review Board
Daniel Kloc, AIA, Indiana Historic Preservation Review Board
April Sievert, Ph.D., Indiana Historic Preservation Review Board
Jason Larrison, AIA, Indiana Historic Preservation Review Board
Anne Shaw, Indiana Historic Preservation Review Board
Chandler Lighty, Indiana Historic Preservation Review Board
Ryan Mueller, Deputy Director, Indiana Department of Natural Resources
Beth McCord, Director, Division of Historic Preservation and Archaeology
Nathan Hoth, historicbridges.org
Paul Bradenburg, Historic Spans Task Force
Tony Dillon Historic, Hoosier Bridges
Doug Poad, Tippecanoe Area Plan Commission
Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians

APPENDIX D
Report Summaries

Historic Property Short Report
SR 225 over Wabash River Bridge Rehabilitation
Tippecanoe County, Indiana
Des. No. 2002077



Prepared by:

Anne M. Shaw, M.H.P.
Principal Investigator
and
Lillian Hutzell, M.H.P.

ClarkDietz

8900 Keystone Crossing, Suite 475
Indianapolis, IN 46240
anne.shaw@clarkdietz.com
(317) 808-3160

Prepared for:
Indiana Department of Transportation (INDOT)

December 28, 2022

Lead Federal Agency:
Federal Highway Administration

MANAGEMENT SUMMARY

This report documents the identification and evaluation efforts for properties included in the Area of Potential Effects (APE) for the project involving INDOT Bridge No. 225-79-04016G (NBI No. 029150) carrying State Road (SR) 225 over Wabash River, Tippecanoe County, Indiana. Above-ground resources located within the project APE were identified and evaluated in accordance with Section 106, National Historic Preservation Act (NHPA) of 1966, as amended, and the regulations implementing Section 106 (36 CFR Part 800).

As a result of the NHPA, as amended, and CFR Part 800, federal agencies are required to consider the impact of federal undertakings upon historic properties in the area of the undertaking. Historic properties include buildings, structures, sites, objects, and/or districts that are eligible for or listed in the National Register of Historic Places (NRHP). As this project is receiving funding from the Federal Highway Administration (FHWA), it is subject to a Section 106 review.

The APE contains no properties listed in the NRHP.

The APE contains one previously surveyed structure:

- IHSSI #157-332-00012 / INDOT Bridge No. 225-79-04016G (NBI No. 029150): 1912, Metal Thru Truss, determined eligible for the NRHP in the Indiana Historic Bridge Inventory (IHBI) and designated "Select."

The APE contains one structure previously determined eligible (Bridge No. 225-79-04016G) and no properties recommended eligible for listing in the NRHP.

SUMMARY/RECOMMENDATIONS

The APE contains one previously surveyed property, Bridge No. 225-79-04016G (IHSSI #157-332-00012), rated Outstanding.

The APE contains no properties listed in the NRHP. As a result of the identification and evaluations efforts of this project, one structure, Bridge No. 225-79-04016G, was previously determined eligible for listing in the NRHP and remains eligible for the NRHP.

The APE contains no additional properties that are recommended eligible for listing in the NRHP.

Additional information from the Historic Property Short Report has been removed, but can be made available upon request.

This bridge was evaluated by personnel from the Indiana Department of Transportation (INDOT) Bridge Design Unit, the District Office and the designer. The attached Draft Historic Bridge Alternatives Analysis has been reviewed by the INDOT Bridge Design Unit and Cultural Resources Office for thoroughness of the rehabilitation option and compliance with INDOT design policies. Concurrence by INDOT with the proposed Scope of Work does not constitute Final Approval of the Historic Bridge Alternatives Analysis. This draft HBAA may now be distributed to the historic consulting parties for review.



ALTERNATIVES ANALYSIS REPORT

SR 225 OVER THE WABASH RIVER

BRIDGE FILE #: 225-79-04016-G

NBI NO.: 029150

DESIGNATION #: 2002077



PREPARED FOR:

PREPARED BY: BEAM, LONGEST & NEFF

THE INDIANA DEPARTMENT OF TRANSPORTATION

Table 3 – Design Criteria

Design Element	Design Manual Section	Minimum Design Criteria	Existing Condition	Proposed Condition	Design Exception Required
Design Speed	Fig 55-3B	10 mph	10 mph	10 mph	No
Lane Width	Fig 55-3B	11 ft.	11 ft.	11 ft.	No
Useable Shoulder	Fig 55-3B	3 ft	1 ft. 7 ½ in.	1 ft. 6 in.	Yes
Paved Shoulder	Fig 55-3B	2 ft	1 ft. 7 ½ in.	1 ft. 6 in.	Yes
Bridge Clear Roadway	Fig 55-3B	16 ft. 4 in.	14 ft. 5 in.	14 ft.	Yes
Structural Capacity	Fig 55-3B	HS-15	< HS-15	HS 15	No
Travel Lane Cross Slope	Fig 55-3B	Existing	1.5%	2%	No
Bridge Railing Safety	IDM 404-4.0	Existing	Guardrail with Curb	PF-1	No

The estimated cost of this alternative is \$4,570,000 which is 46% of the estimated total bridge replacement cost of \$10,000,000. The breakdown of the cost is attached in Appendix D.

Based on the scope of this rehabilitation, it is anticipated the next required work to the bridge would be in 25 years, which would include joint replacement, a bridge deck overlay and cleaning and painting of the structural steel.

By replacing the deck, constructing new railing which will protect the lower truss connections, cleaning and painting the bridge, replacing and/or repairing the truss members and patching the abutments, this alternative meets the purpose and need it is a feasible alternative. This alternative is also a prudent alternative.

V. MINIMIZATION AND MITIGATION

A. Minimization

Only members undersized for the required design loadings will be replaced. Members that have adequate capacity with minimal section loss will be repaired or cleaned and painted.

Per Attachment B (Standard Treatment Approach for Historic Bridges) of the Historic Bridges PA, INDOT will provide rehabilitation plans to the Indiana SHPO when the design is approximately 30 % complete, 60 % complete, and when final design plans are complete. The 1912 original design plans and all available rehabilitation plans are provided in Appendix C. Current design plans are not yet available.

B. Bridge Marketing

The existing bridge will not be put into the bridge marketing program because INDOT will continue to maintain jurisdiction over the bridge.

C. Mitigation

Per Attachment B (Standard Treatment Approach for Historic Bridges) of the Historic Bridges PA, INDOT will consult with the Indiana SHPO to determine if any photo documentation will be necessary as a result of the preferred alternative.

VI. PRELIMINARY PREFERRED ALTERNATIVE

The preliminary preferred alternative for this project is B.1 Rehabilitation for Continued Vehicular Use (Two-way option). This will result in significantly extending the life of the bridge at under half the cost of bridge replacement (Appendix D). Therefore, this alternative is both feasible and prudent and is the preferred alternative. A comparison of project alternatives is provided in Table 4.

Table 4 – Comparison of Project Alternatives

Alternative	Meets Project Purpose and Need?	Construction Cost	Right of Way Amount & Cost	Total Cost	Other Factors	Feasible Prudent
A.-No Build	No	\$0	No R/W	\$0	N/A	Yes No
B.1- Rehabilitation for Continued Two-Way Vehicular Use, meeting the SIOS for Rehabilitation	Yes	\$4,570,000	Temporary R/W for Construction Access - \$20,000	\$4,590,000	N/A	Yes Yes

Additional information from the Historic Bridge Alternative Analysis has been removed but can be made available upon request.



**INDIANA ARCHAEOLOGICAL
SHORT REPORT**

State Form 54566 (R2 / 11-20)

**INDIANA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF HISTORIC PRESERVATION AND ARCHAEOLOGY**

402 West Washington Street, Room W274
Indianapolis, Indiana 46204-2739
Telephone Number: (317) 232-1646
Fax Number: (317) 232-0693
E-mail: dhpa@dnr.IN.gov

Where applicable, the use of this form is recommended but not required by the Division of Historic Preservation and Archaeology (DHPA).

Name(s) of author(s) Anne M. Shaw		Date (month, day, year) December 28, 2022
Title of project A Phase Ia Archaeological Reconnaissance Survey of the Proposed SR 225 Bridge over the Wabash River Rehabilitation, 0.60 Mile North of Old SR 25, Tippecanoe and Washington Townships, Tippecanoe, Indiana (INDOT Des. No. 2002077).		
This document is being used to report on the results of: <input type="checkbox"/> Records check only <input checked="" type="checkbox"/> Records check and Phase Ia archaeological reconnaissance <input type="checkbox"/> An addendum to a previous archaeological report. <i>For an addendum, provide the following information.</i>		
Name(s) of author(s) of previous report		
Title of previous report		
Date of previous report (month, day, year)	DHPA number	

PROJECT OVERVIEW

Description of project
The purpose of this project is to improve portions of INDOT Bridge No. 225-79-04016G (NBI No. 029150) as needed to increase the load capacity of the bridge to meet current load ratings and to protect the members that are at risk of future deterioration. The need for the project is due to structural deficiencies on the bridge deck, truss members and gusset plates, substandard load capacity, and cracking and weathering of the abutments.

There will be approximately 0.23 acre of temporary right-of-way acquisition, which includes disturbed berm, agricultural fields, and wooded areas. The project will be approximately 1,600 feet in length and varying widths with approximately 140 feet southwest to northeast on the bridge approaches. The bridge is currently under an emergency closure with an official detour.

Ground disturbance will consist of heavy machinery use for access to the bridge itself.

INDOT designation number(s) 2002077	Project number	DHPA number 29044	DHPA plan number
Prepared for: (Company / Institution / Agency) Beam, Longest and Neff			
Name of contact Tyler Wolf			
Address (number and street, city, state, and ZIP code) 8320 Craig St., Indianapolis, IN 46250			
Telephone number (317)806-3007	E-mail address twolf@b-l-n.com		
Name of principal investigator Anne M. Shaw			
Name of company / institution Clark Dietz Inc.			
Address (number and street, city, state, and ZIP code) 8900 Keystone Crossing, Suite 475			
Telephone number (859)797-0097	E-mail address anne.shaw@clarkdietz.com		
Signature of principal investigator (Required) 		Date (month, day, year) December 28, 2022	

PROJECT LOCATION

County Tippecanoe	USGS 7.5' series topographic quadrangle Lafayette East	Civil township Tippecanoe and Washington				
Legal Location						
Grid alignment SW						
1/4	1/4	1/4	1/4	Section	Township	Range

a 10YR3/2 silt loam Zone 1 that extended approximately 15-20 centimeters below surface and a 10YR5/6 silt clay Zone 2 that extended approximately 50 centimeters below surface. No sites were recorded in this portion.

The southwest portion of the survey area consisted of a dirt driveway, agricultural field (in corn), and bridge berm. The area between the dirt driveway and the berm had what appeared to be dumping piles of earth along with trash on the ground surface. The dirt driveway and corn field were pedestrian surveyed. Two shovel probes were excavated just to the west of the berm, both of which were negative (STPs 1 and 2). STPs 1 and 2 exhibited a 10YR3/2 silt loam that extended approximately 20 centimeters below surface and a 10YR5/6 silt clay that extended to approximately 50 centimeters below surface. Both STPs contained varying sizes of gravel. No sites were recorded for this portion.

The northeast portion of the survey area consisted of modern gravel driveways, a gravel boat ramp, a small tributary, and modern drainage structures. This area was visually inspected, but was determined to be all disturbed. No sites were recorded for this portion.

The northwest portion of the survey area consisted of wooded floodplain. This area was shovel tested between the bridge berm and edge of right-of-way. Four shovel tests were excavated in this area (STPs 5 through 8). STP 5 was excavated to a depth of approximately 55 centimeters below surface and consisted of a 10YR3/2 silt loam. STP 5 was negative for cultural material. STP 6 contained modern trash including nails, brick fragments, and mortar as well as mussel shell. STP 6 consisted of 3 zones. Zone 1 extended 20 centimeters below surface and was 10YR3/2 silt loam with wire nails, mussel shell, and modern brick. Zone 2 extended 20-37 centimeters below ground surface and was 10YR3/3 silt loam that contained wire nails, mortar, and modern brick. Zone 3 extended 37-55 centimeters below surface and was 10YR5/6 sandy silt that contained no artifacts. A soil core taken that extended to 85 centimeters below surface was also within Zone 3. There were no cultural materials or charcoal in the soil core. STPs 7 and 8 were similar with a Zone 1 approximately 0-40 centimeters below surface and consisted of 10YR4/2 sandy clay. Zone 1 had large gravel, roots, and modern trash throughout. Zone 2 had 10YR4/2 silt clay that extended approximately 40-45 centimeters below surface. Zone 3 extended approximately 90 centimeters below surface and was a 10YR4/3 silt loam. Zones 1 and 2 in STPs 7 and 8 had small gravel and roots. It was determined that most, if not all of this portion of the project area was disturbed. Copious amounts of modern trash have been and continue to be strewn down the bridge berm to the west of SR 225. The northern end of the northwest portion is a steep rise out of the floodplain.

STPs 5 through 8 were negative except for varying sizes of gravel, mussel shell, and modern trash. No features or charcoal were discovered in any of the shovel probes or cores. No sites were recorded for this portion.

No archaeological deposits were identified during the course of the field reconnaissance, and the project should proceed as planned.

RECOMMENDATIONS

Records check *(Check all that apply.)*

- No archaeological investigation is recommended before the project is allowed to proceed because the records check has determined that the project area does not have the potential to contain archaeological resources.
- A Phase Ia archaeological reconnaissance is recommended.
- A cemetery development plan may be required under Indiana Code 14-21-1-26.5 because project ground disturbance will be within 100 feet of a cemetery.

Phase Ia archaeological reconnaissance *(Check all that apply.)*

- It is recommended that the project be allowed to proceed as planned because the Phase Ia archaeological reconnaissance has located no archaeological sites within the project area and/or previously recorded sites that were investigated warrant no additional investigation.
- It is recommended that Phase Ic archaeological subsurface reconnaissance be conducted before the project is allowed to proceed. The Phase Ia archaeological reconnaissance has determined that the project area includes landforms which have the potential to contain buried archaeological deposits.

Other recommendations / commitments

Pursuant to IC-14-21-1, if any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days. In that event, please call (317) 232-1646.

REQUIRED ATTACHMENTS

- Figure showing project location within Indiana
- USGS topographic map showing the project area *(1:24,000 scale)*
- Aerial photograph showing the project area, land use and survey methods
- Photographs of the project area, including, if applicable, photographs documenting disturbances
- Project plans *(if available)*

APPENDIX E

Stage 2 Plans for 30% Complete Plan Review

*The plans have been removed to avoid duplication and can be found in Appendix B of this document.

Journal and Courier
823 Park East Boulevard, Suite C
Lafayette, IN 47905
Tippecanoe County, Indiana

Federal Id: 16-0980985

CLARK DIETZ, INC.

Account #:4437586639
Order #:0005674225
of Affidavits: 1

Total Amount of Claim:\$64.32
This is not an invoice

CLARK DIETZ, INC.
120 W. SPRING STREET, SUITE 4C
NEW ALBANY, IN 47150

PUBLISHER'S AFFIDAVIT

STATE OF WISCONSIN, } SS:
County Of Brown

Personally appeared before me, a notary public in and for said county and state, the undersigned

I, being duly sworn, say that I am a clerk for **THE LAFAYETTE NEWSPAPERS** a **JOURNAL and COURIER** newspaper of general circulation printed and published in the English language in the city of **LAFAYETTE** in state of Indiana and county of Tippecanoe, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 1 times., the issues being dated as follows:

Issues Dated 04/21/2023

Newspaper has a website and this public notice was posted in the same day as it was published in the newspaper.

Pursuant to the provisions and penalties of Ch. 155, Acts 1953,

I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Muel Jacobs

Date: April 21, 2023 Title: Clerk

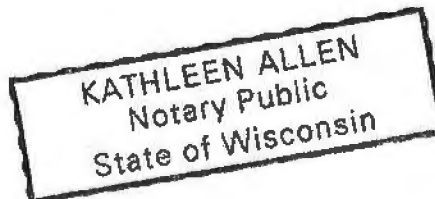
Subscribed and sworn to before me this 21 day of April, 2023

Kathleen Allen

Notary Public

Notary Expires:

1-7-25



Public Notice
Des. No. 2002077

The Indiana Department of Transportation (INDOT) is planning to undertake a bridge rehabilitation project on the structure carrying State Road (SR) 225 over the Wabash River, funded in part by the Federal Highway Administration (FHWA). The project is located in Tippecanoe County, Indiana.

The intent of the proposed project is to rehabilitate the metal truss Bridge No. 225-79-04016G (NBI No. 029150). The preferred alternative will improve the load capacity of the bridge to meet an HS-15 load capacity level and protect the members that are at risk of future deterioration by repairing and/or replacing superstructure elements. All floor beams will be replaced, but the existing stringers will be removed, stored, and re-used. The bridge deck will be replaced, and new railing will be constructed. Select full members and gusset plates will be replaced as needed. After the floor system is replaced and the truss is repaired, the structural steel of the bridge will be cleaned and painted to protect it from deterioration. The paint color shall match the color of the existing floor system and truss. Patching of the substructure units will occur to repair the damaged portions of the piers and abutments. It is estimated there will be approximately 0.23 acre of temporary right-of-way acquired. No permanent right-of-way will be required. Project Letting is anticipated to be July 2024.

Bridge No. 225-79-04016G has been determined eligible for inclusion in the National Register of Historic Places (NRHP). Since this bridge is also categorized as a "Select" bridge within the Indiana Historic Bridge Inventory, FHWA is satisfying its responsibilities under Section 106 of the National Historic Preservation Act of 1966 (Section 106) following the procedures outlined in Stipulation III.A of the Indiana Historic Bridges Programmatic Agreement (HBPA). Per Stipulation III.A. of the HBPA, INDOT will host a public hearing for the project prior to completion of National Environmental Policy Act (NEPA) studies. The hearing will be advertised at a later date.

No other properties listed in, or eligible for listing in, the NRHP will be impacted by the project. INDOT, on behalf of the FHWA, has issued a "No Historic Properties Affected" finding for the project. Per the terms of the Project Development Process (PDP) of Stipulation III of the HBPA, the finding for this project only applies to other resources located within the APE and not the bridge. In accordance with Section 106, the views of the public are being sought regarding the effect of the proposed project on the historic elements as per 36 CFR 800.2(d), 800.3(e) and 800.6(a)(4). Pursuant to 36 CFR 800.4(d)(1), the documentation specified in 36 CFR 800.11(d) is available for inspection in Clark Dietz. Additionally, this documentation can be viewed electronically by accessing INDOT's Section 106 document posting website IN SCOPE at <http://erms12c.indot.in.gov/Section106Documents>. This documentation serves as the basis for the "No Historic Properties Affected" finding. The views of the public on this effect finding are being sought. Please reply with any comments to Lillian M. Hutzell, Clark Dietz, Inc; 120 West Spring Street, Suite 400, New Albany, IN 47150; (812) 670-4122; lillian.hutzell@clarkdietz.com no later than May 21, 2023.

In accordance with the "Americans with Disabilities Act", if you have a disability for which INDOT needs to provide accessibility to the document(s) such as interpreters or readers, please contact Arshad Ahmed, ArAhmed@indot.IN.gov or (765) 361-5258.

LAF - 4/21/2023 - 0005674225 hspaxlp

Division of Historic Preservation & Archaeology · 402 W. Washington Street, W274 · Indianapolis, IN 46204-2739
Phone 317-232-1646 · Fax 317-232-0693 · dhpa@dnr.IN.gov ·



April 26, 2023

Lillian M. Hutzell
Clark Dietz, Inc.
120 W. Spring Street, Suite 400
New Albany, Indiana 47150

State Agency: Indiana Department of Transportation (“INDOT”),
Federal Agency: Federal Highway Administration, Indiana Division (“FHWA”)

Re: DUAL REVIEW: Indiana Department of Transportation’s finding of “no historic properties affected,” on behalf of the Federal Highway Administration, for INDOT Bridge No. 225-79-04016G (Jewettsport Ford Bridge, NBI No. 029150) carrying SR 225 over the Wabash River (Des. No. 2002077; DHPA No. 29044)

Dear Mr. Hutzell:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108); implementing regulations at 36 C.F.R. Part 800; the “Programmatic Agreement Among the Federal Highway Administration, the Indiana Department of Transportation, the Indiana Historic Preservation Officer, and the Advisory Council on Historic Preservation Regarding Management and Preservation of Indiana’s Historic Bridges” (“Indiana Historic Bridges PA”); and the “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding that Implementation of the Federal Aid Highway Program In the State of Indiana” (“Indiana Minor Projects PA”); and also pursuant to Indiana Code 14-21-1-18 and 312 Indiana Administrative Code (“IAC”) 20-4, the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO”) has reviewed your March 27, 2023, submission which enclosed INDOT’s finding and supporting documentation for the aforementioned project located at Tippecanoe Township and Washington Township, both in Tippecanoe County, Indiana.

For the benefit of the Indiana Historic Preservation Review Board (“Review Board”) members and other recipients of this letter who are not Section 106 consulting parties, please be aware that documents submitted for review of this project can be found online at IN SCOPE (<http://erms.indot.in.gov/Section106Documents/>). From there, search by this project’s designation number: 2002077.

As previously indicated, regarding buildings and structures, agree with the conclusions of the HPR that as a result of the historic property identification and evaluation efforts, no above-ground resources other than INDOT Bridge No. 225-79-04016G (Jewettsport Ford Bridge, IHSSI # 157-332-00012, NBI No. 029150) are recommended as eligible for listing in the NRHP.

As we previously commented, the SR 225 bridge over the Wabash River is a c. 1912 four-span steel Pratt truss with a concrete deck that is categorized as a “Select” bridge that is previously determined eligible for inclusion in the National Register of Historic Places. We agree with the conclusions of the HBAA that Alternative B-1: Rehabilitation for Continued Two-Way Vehicular Use, meeting Secretary of Interior’s Standards for Rehabilitation is the preferred alternative for this project compared to the No Build Alternative.

As referenced in Section V.C of the HBAA, we request that this bridge be photographically documented. We request color, digital images that provide overviews of the resource, along with detailed shots of character-defining features. In addition to the

photographs, please provide a photo log that corresponds to the photographs, a photo key, and an overview thumbnail sheet. Please submit a draft copy of this documentation on CD, flash drive, or any other previously approved storage device for our review and approval. Upon approval, this documentation should be provided to a public or not-for-profit organization that is willing to accept a copy of this documentation and make it available to the public. Please inform us which local or not-for-profit organization is willing to accept this documentation.

Additionally, as previously indicated, in terms of archaeological resources, based on the submitted information and the documentation available to the staff of the Indiana SHPO, we have no identified any currently known archaeological resources listed in or eligible for inclusion in the NRHP within the proposed project area; and we concur with the opinion of the archaeologist, as expressed in the Indiana archaeological short report (Shaw, 12/28/2022), that no further archaeological investigations appear necessary at the proposed project area.

If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29) requires that the discovery be reported to the Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. Part 800.

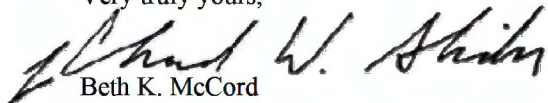
Accordingly, we concur with INDOT's March 24, 2023, Section 106 finding of "No Historic Properties Affected," on behalf of FHWA, for this federal undertaking.

We appreciate the 30% plans provided with the finding documentation, at this time we have no comment on this set of plans. We look forward to receiving the 60% and 90% final bridge plans for this rehabilitation, after which we will decide whether it is appropriate to issue a Director's Letter of Clearance for this project, indicating compliance with Indiana Code 14-21-1-18.

If you have questions regarding our dual review of the aforementioned project, please contact DNR-DHPA. Questions about archaeological issues should be directed to contact Wade T. Tharp at (317) 232-1650 or wtharp1@dnr.in.gov. Questions about historic buildings or structures pertaining to this review should be directed to Toni Lynn Giffin at (317) 233-2803 or tgiffin@dnr.IN.gov.

In all future correspondence regarding the dual review of this INDOT Bridge No. 225-79-04016G (Jewettsport Ford Bridge, NBI No. 029150) carrying SR 225 over the Wabash River project (Des. No. 2002077), please refer to DHPA No. 29044.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer
Director, Division of Historic Preservation and Archaeology

BKM:TLG:WTT:wt

Emc: Kari Carmany-George, FHWA
Matt Coon, INDOT
Mary Kennedy, INDOT
Susan Branigin, INDOT
Anne Shaw, Clark Dietz
Lillian Hutzell, Clark Dietz
Toni Lynn Giffin, Indiana DNR-DHPA
Wade Tharp, Indiana DNR-DHPA
J. Scott Keller, Indiana Historic Preservation Review Board
Daniel Kloc, AIA, Indiana Historic Preservation Review Board
April Sievert, Ph.D., Indiana Historic Preservation Review Board
Jason Larrison, AIA, Indiana Historic Preservation Review Board
Anne Shaw, Indiana Historic Preservation Review Board
Chandler Lighty, Indiana Historic Preservation Review Board
Ryan Mueller, Deputy Director, Indiana Department of Natural Resources
Beth McCord, Director, Division of Historic Preservation and Archaeology
Nathan Hoth, historicbridges.org
Paul Bradenburg, Historic Spans Task Force
Tony Dillon Historic, Hoosier Bridges
Doug Poad, Tippecanoe Area Plan Commission
Eastern Shawnee Tribe of Oklahoma

Miami Tribe of Oklahoma
Peoria tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians

From: [Branigin, Susan](#)
To: [Lillian M. Hutzell](#)
Cc: [Coon, Matthew](#); mkennedy@indot.in.gov
Subject: FW: FHWA Project: Des. No. 2002077; NHPA Finding, SR 225 over the Wabash River Bridge, Tippecanoe County, Indiana
Date: Monday, March 27, 2023 4:36:05 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image006.png](#)

Hello Lillian,

FYI—a Tribal response to the 800.11/finding.

Best regards,

Susan R. Branigin, MS

*Team Lead/Supervisor: History Unit
Cultural Resources Office (CRO)
Environmental Services Division
Indiana Department of Transportation
100 N. Senate Ave., Rm. N758-ES
Indianapolis IN 46204*

Phone: 317.417.1622

Email: sbranigin@indot.in.gov

Work Hours: M-F_7:30 a.m.-3:30 p.m.



****For the latest updates from INDOT's Cultural Resources Office, subscribe to the Environmental Services listserv: <https://www.in.gov/indot/3217.htm>**

****Link to the CRO-Public Web Map App can be found [here](#)**

From: Benjamin Rhodd <Benjamin.Rhodd@fcp-nsn.gov>
Sent: Monday, March 27, 2023 4:33 PM
To: Branigin, Susan <SBranigin@indot.IN.gov>
Subject: RE: FHWA Project: Des. No. 2002077; NHPA Finding, SR 225 over the Wabash River Bridge, Tippecanoe County, Indiana

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

Ms. Branigin,

Pursuant to consultation under Section 106 of the National Historic Preservation Act (1966 as amended) the Forest County Potawatomi Community (FCPC), a Federally Recognized Native American Tribe, reserves the right to comment on Federal undertakings, as defined under the act.

The Tribal Historic Preservation Office (THPO) staff has reviewed the information you provided for this project. Upon review of site data and supplemental cultural history within our Office, the FCPC THPO is pleased to offer a finding of No Historic Properties affected of significance to the FCPC, however, we request to remain as a consulting party for this project.

As a standard caveat sent with each proposed project reviewed by the FCPC THPO, the following applies. In the event an Inadvertent Discovery (ID) occurs at any phase of a project or undertaking as defined, and human remains or archaeologically significant materials are exposed as a result of project activities, work should cease immediately. The Tribe(s) must be included with the SHPO in any consultation regarding treatment and disposition of an ID find.

In addition to my Office being notified of projects, and in case you send notices to my Chairman, see the change in the Forest County Potawatomi Community's authorizing officials. The updated contact information for FCPC's newly elected Tribal officials is provided below;

Primary Authorizing Official (effective 2/13/2023)

James A. Crawford, Tribal Chairman (primary AOR)
PO Box 340
5416 Everybody's Road
Crandon, WI 54520
(715) 478-7200
FCPGrantsCharirman@fcp-nsn.gov

Secondary Authorizing Official (effective 11/7/2022)

Ms. Heather R. VanZile, Tribal Vice-Chair (Authorizing Official in the Chairman's absence)
PO Box 340
5416 Everybody's Road
Crandon, WI 54520
(715) 478-7200

Thank you for protecting cultural and historic properties and if you have any questions or concerns, please contact me at the email or number listed below.

Respectfully,

Ben Rhodd, MS, RPA, Tribal Historic Preservation Officer
Forest County Potawatomi
Historic Preservation Office
8130 Mish ko Swen Drive, P.O. Box 340, Crandon, Wisconsin 54520
P: 715-478-7354 C: 715-889-0202 Main: 715-478-7474
Email: Benjamin.Rhodd@fcp-nsn.gov
www.fcpotawatomi.com

Raquel Walker

From: Lillian M. Hutzell <Lillian.Hutzell@clarkdietz.com>
Sent: Thursday, September 28, 2023 2:35 PM
To: Paul Brandenburg; Tony Dillon; Nathan Holth
Cc: mkennedy@indot.in.gov; Cameron D. Fraser; Patrick W. Delp; Brian Shaw; Tyler Wolf; Ahmed, Arshad; Kurtz, Randy; Raquel Walker; Coon, Matthew; sbranigin@indot.in.gov
Subject: FHWA Project: Des. No. 2002077; 60% Plans Submittal, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

This Message Is From an External Sender

Report Suspicious

This message came from outside your organization.

Des. No.: 2002077

Project Description: 60% Complete, Hearing Plans Review Submittal, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

Location: SR 225 located approximately 0.6 mile north of old SR 25

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with bridge rehabilitation project and Des. No. 2002077. The Section 106 Early Coordination Letter for this project was originally distributed on April 5, 2022.

As part of Section 106 of the National Historic Preservation Act, 60% Complete, Hearing Plans have been prepared and are ready for review and comment by the State Historic Preservation Officer (SHPO) and consulting parties.

Please review this documentation located in IN SCOPE at <http://erms12c.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon mcoon@indot.in.gov; (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 K.CarmanyGeorge@dot.gov (317-226-5629).

Thank you in advance for your input,



Lillian M. Hutzell
Cultural Resource Specialist
Clark Dietz | Environmental Department
120 W. Spring Street, Suite 400, New Albany, IN 47150
lillian.hutzell@clarkdietz.com

Raquel Walker

Subject: RE: FHWA Project: Des. No. 2002077; 60% Plans Submittal, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

From: Kennedy, Mary <MKENNEDY@indot.IN.gov>

Sent: Thursday, September 28, 2023 4:11 PM

To: THPO@MiamiNation.com; thpo@estoo.net; Burgundy Fletcher <bfletcher@peoriatribe.com>;

Matthew.Bussler@pokagonband-nsn.gov; Benjamin Rhodd <benjamin.rhodd@fcp-nsn.gov>

Cc: Coon, Matthew <mcoon@indot.IN.gov>; Carmany-George, Karstin (FHWA) <k.carmanygeorge@dot.gov>; Lillian M. Hutzell <Lillian.Hutzell@clarkdietz.com>

Subject: FHWA Project: Des. No. 2002077; 60% Plans Submittal, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

Des. No.: 2002077

Project Description: 60% Plans Submittal, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana

Location: SR 225 located approximately 0.6 mile north of old SR 25

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with bridge rehabilitation project and Des. No. 2002077. The Section 106 Early Coordination Letter for this project was originally distributed on April 5, 2022.

As part of Section 106 of the National Historic Preservation Act, 60% Complete, Hearing Plans have been prepared and are ready for review and comment by the State Historic Preservation Officer (SHPO) and consulting parties. Please review this documentation located in IN SCOPE at <http://erms12c.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with any comments that you may have. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment.

Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matt Coon mcoon@indot.in.gov; (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 K.CarmanyGeorge@dot.gov (317-226-5629).

Regards,

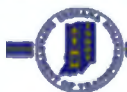
Mary E. Kennedy

Historic Bridge Specialist

Indiana Department of Transportation
100 North Senate Ave., N758 — Environmental Services
Indianapolis, IN 46204

Office/Cell: 317-694-3607

Email: mkenedy@indot.in.gov





INDIANA DEPARTMENT OF TRANSPORTATION

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

PHONE: (855) 463-6848

Eric Holcomb, Governor
Michael Smith, Commissioner

September 28, 2023

This letter was sent to the listed parties.

RE: Dual Review Project: 60% Complete, Hearing Plans Review Submittal, Des. No. 2002077, SR 225 over the Wabash River Bridge Rehabilitation, Tippecanoe County, Indiana (DHPA No. 29044)

Dear Consulting Party,

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with a bridge rehabilitation project (Des. No. 2002077). Clark Dietz is under contract with INDOT to advance the environmental documentation for the referenced project.

This letter is part of the Section 106 review process for this project. A Section 106 early coordination letter was distributed on April 5, 2022. In addition, a letter distributed on December 21, 2022, notified consulting parties that the Historic Short Property Report (HSPR) and Archaeology Report (ASR) were available for review and comment. Consulting parties were notified on March 27, 2023, that a finding of "No Historic Properties Affected" and 30% plans were available for review.

The proposed undertaking is on State Road (SR) 225 located 0.6 mile north of Old SR 25 in Tippecanoe County, Indiana. It is within Tippecanoe and Washington Townships, of the Lafayette East U.S. Geological Survey (USGS) Quadrangle, in Section 25, Township 24 North, Range 4 West and Brummett's Reserve Section 6, Township 24 North and Range 4 West.

The bridge carrying SR 225 over the Wabash River (Structure Number 225-79-04016G, NBI No. 029150) is a four-span, steel Pratt truss with a concrete deck, built in 1912. The bridge is approximately 646 feet in length and the deck is 15 feet 11 inches wide and provides a 14 feet 5 inches clear roadway width. The existing W-beam guardrail is not original to the structure. The most recent Bridge Inspection Report (BIR) indicated that Structure Number 225-79-04016G has structural deficiencies such as cracking, leaching and spalling along the bridge deck; cracking and weathering on Abutment No. 1 and No. 5; and widespread deterioration of the truss members and gusset plates. The existing curbs do not protect the truss members from run-off and many of the truss members and superstructure members do not have a load capacity that meets the Indiana Design Manual (IDM) requirement. Due to increased traffic from restrictions of the adjacent section of I-65 and the continued deterioration, the bridge has been closed due to a Fracture Critical Inspection that identified two cracks in two different fracture critical members. The closure of the bridge has caused significant disruption to the community and increased travel time and motorist costs.

This proposed project includes the rehabilitation of Structure Number 225-79-04016G. The preferred alternative will protect the existing members that are at risk of future deterioration by repairing and replacing superstructure elements. In addition, the preferred alternative will increase the load capacity of the bridge to meet the IDM HS-15 load capacity level. All floor beams will be replaced, with the existing stringers being removed, stored, and reused. The bridge deck will be replaced, and a new railing will be constructed. Deteriorated full members and gusset plates will be replaced as needed. After the floor system is replaced and the truss is repaired, the structural steel of the bridge will be cleaned and painted to protect it from deterioration. The paint color shall match the color of the existing floor system and truss. Patching of the substructure units will occur to repair the damaged portions of the piers and abutments. No permanent right-of-way acquisition is anticipated. However, it is estimated there will be approximately 0.23 acre of temporary right-of-way acquired.

The need for the proposed project arises from the most recent inspection and Bridge Inspection Report which indicated that there are structural deficiencies such as cracking, leaching and spalling along the bridge deck; cracking and weathering on Abutment No. 1 and No. 5; and widespread deterioration of the truss members and gusset plates. In addition, the curbs are geometrically ineffective and do not protect the truss members from runoff. Furthermore, many of the truss and superstructure members do not have a load capacity that meets the Indiana Design Manual (IDM) requirement. Due to the deterioration of the bridge, it has been closed to traffic. The purpose

www.in.gov/dot/

An Equal Opportunity Employer



of the project is to improve the deteriorated portions of the bridge to allow the bridge to reopen and meet an HS-15 loading and to protect the existing members that are at risk of future deterioration by addressing the bridge deck cracking, leaching, and spalling, which could compromise the structural integrity of the bridge.

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. 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 accepted consulting party status are identified in the distribution list.

The Section 106 process involves efforts to identify historic properties potentially affected by the undertaking, assess its effects and 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 <https://www.achp.gov/sites/default/files/documents/2017-01/CitizenGuide.pdf>.

Per the terms of the "Programmatic Agreement Regarding Management and Preservation of Indiana's Historic Bridges" (Historic Bridges PA), the FHWA-Indiana Division will satisfy its Section 106 responsibilities involving "Select" and "Non-Select" bridges through the Project Development Process (PDP) of the Historic Bridges PA (Stipulation III). Because Bridge 225-79-04016G (NBI No. 029150) is a "Select" bridge, the procedures outlined in Stipulation III.A. of the Historic Bridges PA will be followed to fulfill FHWA's Section 106 responsibilities for the project. (A copy of the Historic Bridges PA can be downloaded here: <http://www.in.gov/indot/2530.htm>)

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.

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 one resource eligible for the National Register of Historic Places (NRHP): INDOT Structure Number 225-79-04016G (NBI No. 029150).

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. As a result of the historic property identification and evaluation efforts, no above-ground resources other than INDOT Structure Number 225-79-04016G are recommended as eligible for listing in the NRHP.

With regards to archaeological resources, an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards identified no sites within the project area. As a result of these efforts, no further work is recommended.

Per Attachment B of the Historic Bridges PA, the 60% plans are available for review in IN SCOPE at <http://erms.indot.in.gov/Section106Documents/> (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review these documents and respond with comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If you prefer a hard copy of this material, please respond to this email with your request within seven (7) days.

Please review the information and comment within thirty (30) calendar days of receipt.

In the State Historic Preservation Officer's (SHPO) review letter dated April 26, 2023, SHPO stated that it had no comment on the 30% plans but will decide whether it is appropriate to issue a Director's Letter of Clearance for this project, indicating compliance with Indiana Code 14-21-1-18 when it receives the 60% and 90% final bridge plans for this rehabilitation.

Following the submission of the 30% complete plans, additional information has been incorporated into the 60% complete plans, including erosion control measures, the woody revegetation plan, and approach slab details. The plans have been updated to provide details for the erosion control measures, which include the locations of the filter sock placement. The erosion control measures are shown on Sheets 10 and 11, titled "Erosion Control Plan - Line X".

Furthermore, the updated plans include details for the woody revegetation plan. The plans provide the locations for the construction access and the planting area for tree mitigation. There will be no trees or shrubs cleared within or adjacent to the construction access route or woody revegetation area without authorization from the Indiana Department of Natural Resources (IDNR). Trees will be planted at a minimum of 12 feet apart in a random manner, with a minimum of five different tree species. A minimum of five different shrubs and understory tree species will be placed in a random pattern between every other canopy tree. The woody revegetation area and all other disturbed areas shall be reseeded with a floodplain seed mixture. The woody revegetation plan is shown on Sheet 12, titled "Woody Revegetation".

Lastly, the updated plans provide the draft details for the approach slabs, which include the design details for the top and bottom reinforcing, pavement ledge, plan, elevation, and modified concrete bridge railing transition. Additionally, the bill of materials for the approach slabs is provided. The approach slab details are shown on Sheets 25 and 26, titled "Approach Slab Details".

It should be noted that it is anticipated that the woody revegetation areas will need to be subject to further archaeological work. Additionally, some portions of the access road for the woody revegetation area are located just outside the APE, and it appears that a slight expansion of the APE will be warranted. Further Section 106 documentation regarding the woody revegetation area will be submitted to consulting parties upon completion.

For questions concerning specific project details, you may contact Lillian M. Hutzell of Clark Dietz at (812) 670-4122 or lillian.hutzell@clarkdietz.com. All future responses regarding the proposed project should be forwarded to Clark Dietz at the following address:



Lillian M. Hutzell
Cultural Resource Specialist
Clark Dietz | Environmental Department
120 W. Spring Street, Suite 400, New Albany, IN 47150
lillian.hutzell@clarkdietz.com
(812) 670-4122

Tribal Contacts please respond to INDOT's Acting Tribal Liaison, Matthew S. Coon mcoon@indot.in.gov; (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 K.CarmanyGeorge@dot.gov (317-226-5629).

Sincerely,



Matthew S. Coon, Manager
Cultural Resources Office
Environmental Services

Enclosures:

~~60% Complete Plan Sheets for Review~~

The 60% Plan Set has been removed to avoid duplication and can be found in Appendix B.

Distribution List:

State Historic Preservation Office (SHPO)
Historic Spans Task Force
Historic Hoosier Bridges
HistoricBridges.org
Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians
Forest County Potawatomi Community

Division of Historic Preservation & Archaeology · 402 W. Washington Street, W274 · Indianapolis, IN 46204-2739
Phone 317-232-1646 · Fax 317-232-0693 · dhpa@dnr.IN.gov



October 30, 2023

Lillian M. Hutzell
Clark Dietz, Inc.
120 W. Spring Street, Suite 400
New Albany, Indiana 47150

State Agency: Indiana Department of Transportation (“INDOT”),
Federal Agency: Federal Highway Administration, Indiana Division (“FHWA”)

Re: DUAL REVIEW: 60% plans for INDOT Bridge No. 225-79-04016G (Jewettsport Ford Bridge, NBI No. 029150) carrying SR 225 over the Wabash River (Des. No. 2002077; DHPA No. 29044)

Dear Ms. Hutzell:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108); implementing regulations at 36 C.F.R. Part 800; the “Programmatic Agreement Among the Federal Highway Administration, the Indiana Department of Transportation, the Indiana Historic Preservation Officer, and the Advisory Council on Historic Preservation Regarding Management and Preservation of Indiana’s Historic Bridges” (“Indiana Historic Bridges PA”); and the “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding that Implementation of the Federal Aid Highway Program In the State of Indiana” (“Indiana Minor Projects PA”); and also pursuant to Indiana Code 14-21-1-18 and 312 Indiana Administrative Code (“IAC”) 20-4, the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO”) has reviewed your September 28, 2023, submission, which we received on September 28, 2023, and which enclosed INDOT’s 60% plans for INDOT Bridge No. 225-79-04016G (Jewettsport Ford Bridge, NBI No. 029150) project located at Tippecanoe Township and Washington Township, both in Tippecanoe County, Indiana.

For the benefit of the Indiana Historic Preservation Review Board (“Review Board”) members and other recipients of this letter who are not Section 106 consulting parties, please be aware that documents submitted for review of this project can be found online at IN SCOPE (<http://erms.indot.in.gov/Section106Documents/>). From there, search by this project’s designation number: 2002077.

As previously indicated, regarding buildings and structures, we agree with the conclusions of the HPR that as a result of the historic property identification and evaluation efforts, no above-ground resources other than INDOT Bridge No. 225-79-04016G (Jewettsport Ford Bridge, IHSSI # 157-332-00012, NBI No. 029150) are recommended as eligible for listing in the NRHP.

As we previously commented, the SR 225 bridge over the Wabash River is a c. 1912 four-span steel Pratt truss with a concrete deck that is categorized as a “Select” bridge that is previously determined eligible for inclusion in the National Register of Historic Places. We agree with the conclusions of the HBAA that Alternative B-1: Rehabilitation for Continued Two-Way Vehicular Use, meeting Secretary of Interior’s Standards for Rehabilitation is the preferred alternative for this project compared to the No Build Alternative.

As requested previously, as referenced in Section V.C of the HBAA, we request that this bridge be photographically documented. We request color, digital images that provide overviews of the resource, along with detailed shots of character-defining features. In addition to the photographs, please provide a photo log that corresponds to the photographs, a photo key, and an overview thumbnail sheet. Please submit a draft copy of this documentation on CD, flash drive, or any other previously approved storage device for our review and approval. Upon approval, this documentation should be provided to a public or not-for-profit organization that is willing to accept a copy of this documentation and make it available to the public. Please inform us which local or not-for-profit organization is willing to accept this documentation.

Additionally, as previously indicated, in terms of archaeological resources, based on the submitted information and the documentation available to the staff of the Indiana SHPO, we have not identified any currently known archaeological resources listed in or eligible for inclusion in the NRHP within the proposed project area; and we concur with the opinion of the archaeologist, as expressed in the Indiana archaeological short report (Shaw, 12/28/2022), that no further archaeological investigations appear necessary at the proposed project area.

If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29) requires that the discovery be reported to the Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and Indiana Code 14-21-1-29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. Part 800.

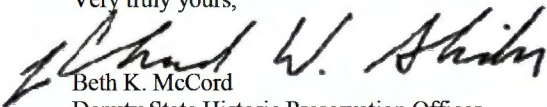
We previously made the following statement, "Accordingly, we concur with INDOT's March 24, 2023, Section 106 finding of "No Historic Properties Affected," on behalf of FHWA, for this federal undertaking."

We appreciate the 60% plans provided. At this time we have no comment on this set of plans. We look forward to receiving the 90% final bridge plans for this rehabilitation, after which we will decide whether it is appropriate to issue a Director's Letter of Clearance for this project, indicating compliance with Indiana Code 14-21-1-18. We are unaware if any consulting parties or members of the public have provided input regarding the project plans. If any there are any known concerns, please make us aware.

If you have questions regarding our dual review of the aforementioned project, please contact DNR-DHPA. Questions about archaeological issues should be directed to contact Wade T. Tharp at (317) 232-1650 or wtharp1@dnr.in.gov. Questions about historic buildings or structures pertaining to this review should be directed to Toni Lynn Giffin at (317) 233-2803 or tgiffin@dnr.IN.gov.

In all future correspondence regarding the dual review of this INDOT Bridge No. 225-79-04016G (Jewettsport Ford Bridge, NBI No. 029150) carrying SR 225 over the Wabash River project (Des. No. 2002077), please refer to DHPA No. 29044.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer
Director, Division of Historic Preservation and Archaeology

BKM:TLG:WTT:wt

- Emc: Kari Carmany-George, Federal Highway Administration
Matt Coon, Ph.D., Indiana Department of Transportation
Mary Kennedy, Indiana Department of Transportation
Susan Branigin, Indiana Department of Transportation
Lillian Hutzell, Clark Dietz
Toni Lynn Giffin, Indiana DNR-DHPA
Wade Tharp, Indiana DNR-DHPA
J. Scott Keller, Indiana Historic Preservation Review Board
Daniel Kloc, AIA, Indiana Historic Preservation Review Board
April Sievert, Ph.D., Indiana Historic Preservation Review Board
Jason Larrison, AIA, Indiana Historic Preservation Review Board
Anne Shaw, Indiana Historic Preservation Review Board
Chandler Lighty, Indiana Historic Preservation Review Board
Ryan Mueller, Deputy Director, Indiana DNR
Beth McCord, Director, Indiana DNR-DHPA
Nathan Hoth, historicbridges.org
Paul Bradenburg, Historic Spans Task Force
Tony Dillon Historic, Hoosier Bridges
Doug Poad, Tippecanoe Area Plan Commission
Trbal Historic Preservation Officer, Eastern Shawnee Tribe of Oklahoma
Trbal Historic Preservation Officer, Miami Tribe of Oklahoma
Trbal Historic Preservation Officer, Peoria tribe of Indians of Oklahoma
Trbal Historic Preservation Officer, Pokagon Band of Potawatomi Indians

Appendix E:

Red Flag and Hazardous Materials



INDIANA DEPARTMENT OF TRANSPORTATION

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

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

Eric Holcomb, Governor
Michael Smith,
Commissioner

Date: August 29, 2022

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

From: Hillary Shaffer
Beam, Longest & Neff, LLC.
8320 Craig Street
Indianapolis, Indiana 46250
hshaffer@b-l-n.com

Re: RED FLAG INVESTIGATION
DES #2002077, State Project
Bridge Project
SR 225 over Wabash River, 0.60 Mile North of Old SR 25
Tippecanoe County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: Indiana Department of Transportation (INDOT) proposes a bridge project on State Road (SR) 225 over Wabash River, 0.60 Mile North of SR 25. The bridge was built in 1912 and has undergone multiple repairs between 1954 and 2014. The project extends approximately 0.3 mile along SR 225 and includes full replacement of 92 original truss members and partial replacement of 33 original truss members. Additionally, 200 truss members (which includes the floor system) require a full replacement from the 1988 rehabilitation. Also, 21 gusset plates will be replaced. The deck will be replaced, a new railing will be constructed, and patching of substructure units will occur to repair damaged piers and abutments.

Bridge Work Included in Project: Yes No Structure #(s) 225-79-04016G/NBI # 029150

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

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

Culvert Work Included in Project: Yes No Structure #(s) _____

Proposed right of way: Temporary # Acres 0.5 Permanent # Acres 0.02, Not Applicable

Type and proposed depth of excavation: The proposed depth of excavation is two (2) feet around the piers and abutments if scour countermeasures are required, two (2) feet of excavation of the existing pavement and shoulders for new pavement and shoulders, and eight (8) feet of roadway embankment excavation for abutment repairs.

Maintenance of traffic (MOT): The proposed method of traffic maintenance is a full closure with a detour utilizing Interstate (I) 65. The detour will be approximately 10 miles in length.

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

State Project: LPA:

Any other factors influencing recommendations: N/A

INFRASTRUCTURE TABLE AND SUMMARY

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

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

Explanation:

Recreational Facilities: One (1) recreational facility is located within the 0.5 mile search radius. The recreational facility, Prophetstown State Park, is located adjacent to the project area. Coordination with IDNR Division of State Parks and Reservoirs will occur.

Pipelines: One (1) pipeline segment is located within the 0.5 mile search radius. The pipeline segment, Indiana Gas Company Natural Gas Pipeline, is 0.04 mile southwest of the project area. Coordination with the Indiana Gas Company will occur.

Trails: Two (2) trail segments are located within the 0.5 mile search radius. One (1) trail segment is located 0.18 mile west of the project area. No impact is expected

Managed Lands: One (1) Managed Land is located within the 0.5 mile search radius. The managed land, Prophetstown State Park, is adjacent to the project area. Coordination with IDNR Division of State Parks and Reservoirs is recommended.

WATER RESOURCES TABLE AND SUMMARY

Water Resources			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
NWI - Points	N/A	Canal Routes - Historic	1
Karst Springs	N/A	NWI - Wetlands	10
Canal Structures – Historic	N/A	Lakes	1
NPS NRI Listed	N/A	Floodplain - DFIRM	8
NWI-Lines	N/A	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	3	Sinkhole Areas	N/A
Rivers and Streams	3	Sinking-Stream Basins	N/A

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

Explanation:

IDEM 303d Listed Rivers and Streams: Three (3) 303d Listed Rivers and Streams are located within the 0.5 mile search radius. One stream segment, Wabash River, is located within the project area. According to ArcGIS, Wabash River is listed for Impaired Biotic Communities (IBC), nutrient impairment, and E. coli. According to <https://www.in.gov/idem/nps/online-e303d-tool/>, Wabash River is listed for IBC, Nutrients, and PCBs in fish tissue. Concerning IBC and nutrient impairment Best Management Practices (BMPs) will be used to avoid further degradation to the stream. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. Workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT SAM will occur.

Rivers and Streams: Three (3) stream segments are located within the 0.5 mile search radius. One (1) stream segment, Wabash River, is located within the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Canal Routes - Historic: One (1) canal route is located within the 0.5 mile search radius. The Wabash-Eerie Canal is located approximately 0.34 mile southeast of the project area. No impact is expected.

NWI-Wetlands: Ten (10) wetlands are located within the 0.5 mile search radius. Two (2) wetlands are located within the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Lakes: One (1) lake is located within the 0.5 mile search radius. The lake is located approximately 0.03 mile west - southwest of the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Floodplains: Eight (8) floodplain polygons are located within the 0.5 mile search radius. The project area is located within three (3) of the floodplain polygons. Coordination with INDOT ESD 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	N/A	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

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

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

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

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

Explanation: No hazardous material concerns were identified within the 0.5 mile search radius.

ECOLOGICAL INFORMATION SUMMARY

The Tippecanoe County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is provided at https://www.in.gov/dnr/nature-preserves/files/np_tippecanoe.pdf. A preliminary review of the Indiana Natural Heritage Database by INDOT ESD did indicate the presence of ETR species within the 0.5 mile search radius. Coordination with USFWS and IDNR will occur.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The project area is located in a rural area surrounded by farm fields and some residences. The May 23, 2022, inspection report for Bridge #225-79-04016G/NBI # 029150 states that no evidence of bats was seen or heard under the bridge. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent “Using the USFWS’s IPaC System for Listed Bat Consultation for INDOT Projects.”

RECOMMENDATIONS SECTION

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

Bridge No. 225-79-04016-G/ NBI # 029150 is a four span, Steel Pratt Thru Truss conveying SR 225 over the Wabash River. Constructed in 1912, it has undergone multiple repairs between 1954 and 2014; however, it has retained the integrity necessary to convey its significance and has been identified as a “Select” bridge in the State of Indiana and is identified as eligible for inclusion in the National Register of Historic Places under Criterion C for its distinctive engineering and/or aesthetic characteristics that are displayed with the exceptional overall span length for its type, representing an innovative design and/or construction technique. Additionally, the bridge represents an early use of riveting or bolting

as an initial application of a new metal bridge construction technique and it is also associated with an accomplished Indiana builder, Lafayette Engineering Company. As such, and given the proposed project scope, early coordination with INDOT CRO and SHPO will occur.

INFRASTRUCTURE: One (1) recreational facility, Prophetstown State Park, is adjacent to the project area. Coordination with IDNR Division of State Parks and Reservoirs will occur.

Pipelines: One (1) pipeline segment, Indiana Gas Company Natural Gas Pipeline, is 0.04 mile southwest of the project area. Coordination with the Indiana Gas Company will occur.

Managed Lands: One (1) managed land, Prophetstown State Park, is adjacent to the project area. Coordination with IDNR Division of State Parks and Reservoirs is recommended.

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

- Two (2) wetlands are located within the project area.
- The project area is located within three (3) of the floodplain polygons (coordination only).
- One (1) stream segment, Wabash River, flows through the project area.
- One (1) lake is 0.03 mile west-southwest of the project area

IDEM 303d Listed Rivers and Streams: According to ArcGIS, Wabash River is listed for Impaired Biotic Communities (IBC), nutrient impairment, and E. coli. According to <https://www.in.gov/idem/nps/online-e303d-tool/>, Wabash River is listed for IBC, Nutrients, and PCBs in fish tissue. Concerning IBC and nutrient impairment Best Management Practices (BMPs) will be used to avoid further degradation to the stream. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure. Exposure to PCBs in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. Workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT SAM will occur.

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

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

INDOT ESD concurrence: Nicole Fohey Breting (Signature)
Digitally signed by Nicole Fohey-Breting
Date: 2022.08.29 08:40:16 -04'00'

Prepared by:
Hillary Shaffer
Senior Environmental Analyst
Beam, Longest & Neff, LLC.

Graphics:

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

SITE LOCATION: YES

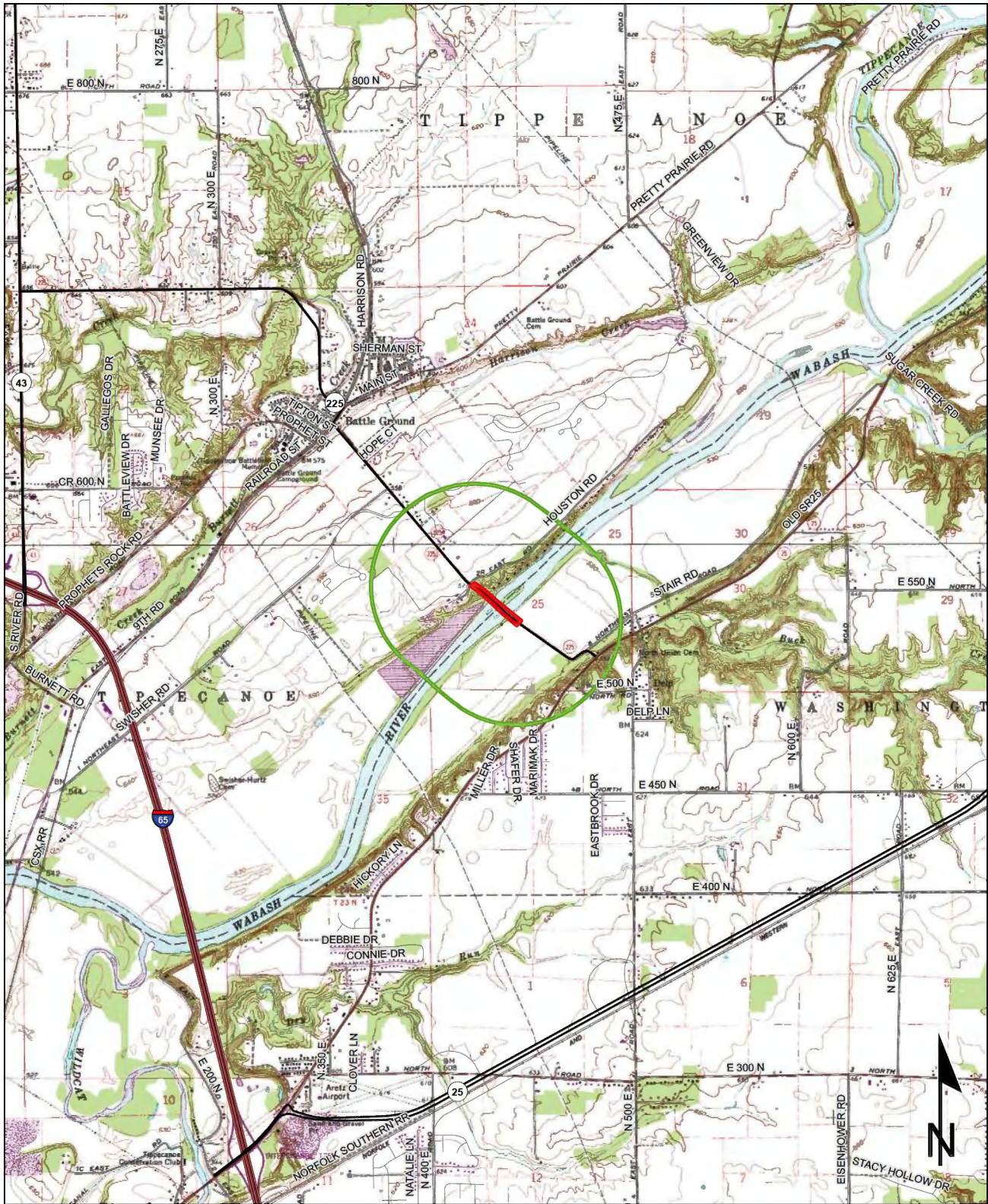
INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

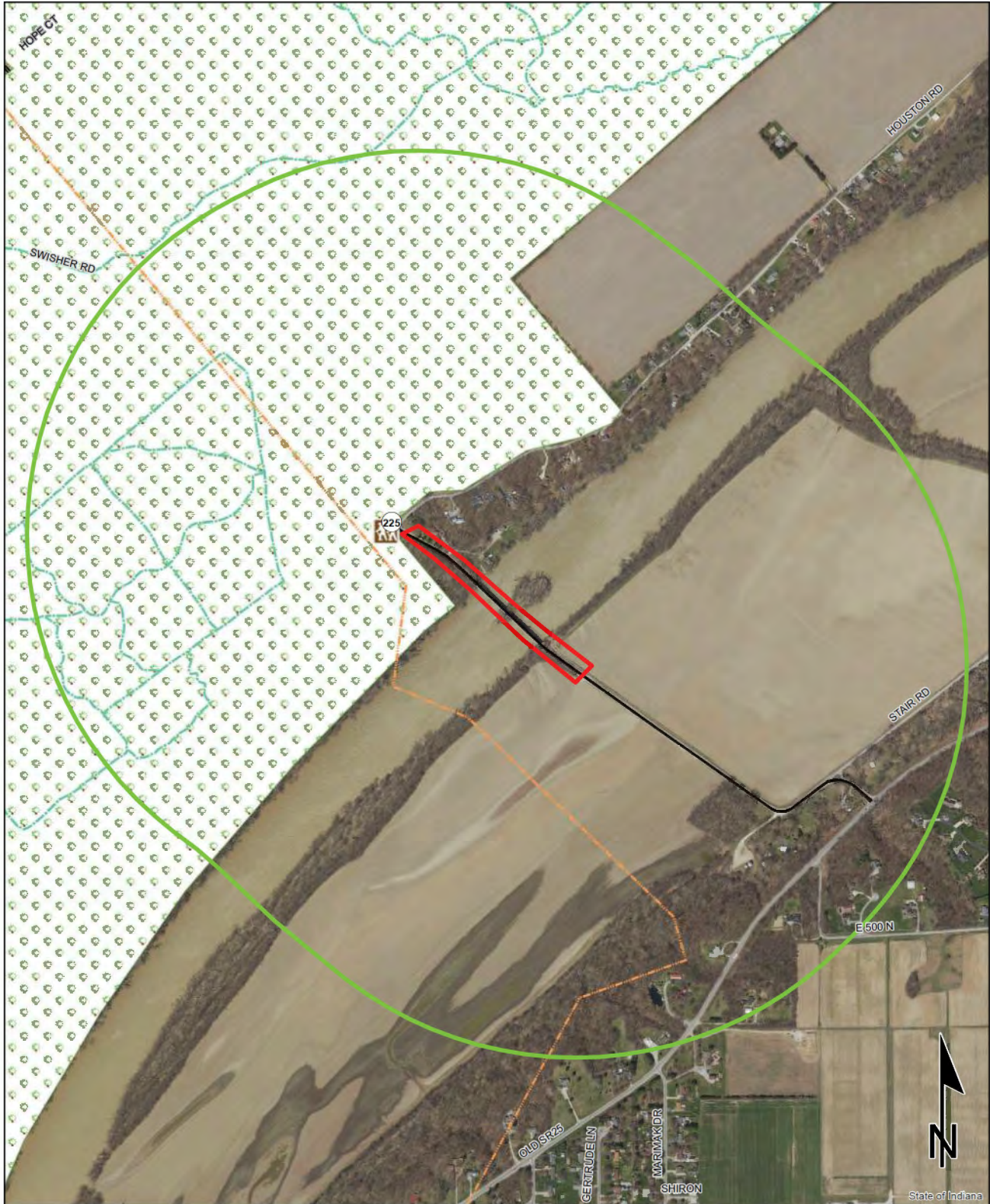
Red Flag Investigation - Site Location
SR 225 over Wabash River, 0.60 Mile North of Old SR 25
Des. No. 2002077, Bridge Project
Tippecanoe County, Indiana



Sources: 0.6 0.3 0 0.6 Miles
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

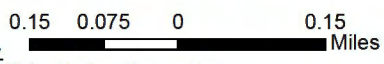
LAFAYETTE EAST
QUADRANGLE
INDIANA
7.5 MINUTE SERIES

Red Flag Investigation - Infrastructure
SR 225 over Wabash River, 0.60 Mile North of Old SR 25
Des. No. 2002077, Bridge Project
Tippecanoe County, Indiana



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

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



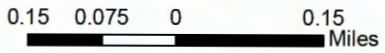
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Water Resources
 SR 225 over Wabash River, 0.60 Mile North of Old SR 25
 Des. No. 2002077, Bridge Project
 Tippecanoe County, Indiana



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

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



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

Appendix F:

Water Resources

**Waters Report
SR 225 over Wabash River
Tippecanoe County, Indiana
Bridge Rehabilitation Project
Des. No. 2002077
225-79-04016 G**

Prepared by: Preeti Samra
psamra@b-l-n.com; 317-806-3008
Beam, Longest and Neff, LLC (BLN)
Completed Date: February 6, 2023

PROJECT INFORMATION

Date of Field Reconnaissance

August 17, 2022

Location

This project is located on State Road (SR) 225 over Wabash River, 0.60 mile north of SR 25 in Tippecanoe County, Indiana.

- Section 25, Township 24 N, Range 4 W
- Lafayette East Quadrangle
- Tippecanoe County, Indiana
- 40.49530, -86.82379

PROJECT DESCRIPTION

The proposed project consists of a bridge rehabilitation project on SR 225 over the Wabash River in Tippecanoe County, Indiana near Delphi. Bridge number 225-79-04016 G (NBI# 029150) is an NRHP-eligible, four-span, steel, Pratt truss bridge that is approximately 646 feet long with a deck that is approximately 15 feet, 11 inches wide and originally constructed in 1912. The bridge has one lane and is currently closed to traffic. Riprap is present at the bridge piers on both banks of the waterway. The proposed project will include the replacement of truss members, gusset plates, and deck, a new railing will be constructed, and the substructure units will be patched to repair damaged piers and abutments. Riprap will be placed along the two piers in the Wabash River, but no work will be done to the pier on Goose Island. Goose Island is present within the investigated area but was not surveyed because no work will be completed there. It is anticipated 0.2 acre of temporary right-of-way (ROW) will be required as well. The project is anticipated to begin construction in Spring 2024. Topographic maps and an aerial map showing the project location can be found in Figures 2-3. The investigated area is 0.23 mile long and was selected because it encompasses the area where work is anticipated for this project.

General topography is undulating along the roadway, with agricultural, forested lands, as well as residential houses and farmsteads. According to the United States Geological Survey (USGS) Lafayette East, Indiana 7.5-Minute Quadrangle Map, the roadway has an elevation of approximately 525.3 feet above mean sea level (MSL).

DESKTOP RECONNAISSANCE

National Wetland Inventory (NWI) Information

Based on the U.S. Fish and Wildlife National Wetland Inventory (NWI) data, one NWI-mapped linear water feature, Wabash River, is present within the investigated area (Figure 4). The Wabash River is classified as a riverine, lower perennial, unconsolidated bottom, permanently flooded feature (R2UBH). Additionally, a freshwater forested/shrub wetland is present within the project area, classified as a palustrine, forested, broad-leaved, deciduous, seasonally flooded wetland (PFO1C). This wetland was not located during the field investigation.

Table 1 NWI Features

Feature	Cowardin Classification	NWI Abbreviation
Wabash River	Riverine, lower perennial, unconsolidated bottom, permanently flooded	RSUBH
Freshwater Forested Shrub Wetland	Palustrine, forested, broad-leaved, deciduous, seasonally flooded	PFO1C

National Hydrography Dataset (NHD)

Figure 4 also depicts data from the National Hydrography Dataset (NHD), which represents the water drainage network surface water component on the USGS topographic maps. Three NHD flowlines; one perennial and two artificial paths, are depicted within the investigated area. One NHD flowline, the Wabash River, was verified within the investigated area during the site visit.

Soils

According to the Soil Survey Geographic (SSURGO) Database for Tippecanoe County, the investigated area does contain a soil type on the National List of Hydric Soils (Figure 5). Table 1 lists soil types present within the investigated area.

Table 2: Soil Series in the Investigated Area

Soil Unit Name	Symbol	NRCS Flooding Frequency	NRCS Drainage Class	NRCS Hydric Soil Category	SSURGO Hydric Rating
Battleground silt loam, frequently flooded	Bb	Frequent	Well drained	Predominately Nonhydric	3%
Billet loam, gravelly substratum, 0 to 2 percent slopes	BnA	None	Well drained	Nonhydric	0%
Lash silt loam, frequently flooded	Lm	Frequent	Well drained	Nonhydric	0%
Rodman gravelly loam, 25 to 60 percent slopes	RsF	None	Excessively drained	Nonhydric	0%

Floodplain

An Indiana Department of Natural Resources (IDNR) Flood Hazard Map shows the investigated area within the IDNR Approximate Floodway (Figure 6).

Hydrological Unit Code (HUC)

The project is in the Harrison Creek – Wabash River, identified by the 12-digit HUC 051201050603 (Figure 7).

Attached Documents

- ~~Graphics (Figures 1–10)~~
- ~~Ground Level Photographs~~
- Sample Point Data Sheet
- Preliminary Jurisdictional Form

Some graphics and ground-level photographs have been removed to avoid duplication and can be found in Appendix B.

FIELD RECONNAISSANCE

A field visit to inspect the investigated area for aquatic resources was conducted by BLN staff on August 17, 2022. Existing land use in the investigated area is primarily agricultural fields and forests with some residences. The survey footprint extended approximately 70 feet northeast, 70 feet southwest, 790 feet northwest, and 790 feet southeast of the SR 225 bridge. The survey footprint also extended 30 feet upstream and 30 feet downstream of the bridge to encompass the maximum estimated area of disturbance based on the design. The field investigation identified one waterway, Wabash River, in the investigated area (Figure 9). No unusual circumstances were encountered during the field investigation.

Streams

The investigated area was inspected for the presence of streams; any streams found were mapped, measured, and informally evaluated using the techniques described in *Methods for Assessing Habitat in Flowing Waters: Using the Qualitative Habitat Evaluation Index* (Ohio EPA, 2006). Recommendations on the jurisdictional status of water resources within the investigated area were made based on guidance from the *US Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook* (2007). One stream, Wabash River, was identified in the investigated area during the site visit.

Wabash River

The USGS topographic map identifies Wabash River as a solid (perennial) blue-line stream and is shown on the NHD map as an artificial path. The river generally flows northeast to southwest. The ordinary high-water mark (OHWM) was obtained using Graphic Information System (GIS) due to the large width of the river. It was measured upstream of the bridge at the largest point in the river within the investigated area; the OHWM is 580 feet wide. Wabash River is classified as a riverine, lower perennial, unconsolidated bottom, permanently flooded feature (R2UBH). Approximately 130 linear feet of the river is present within the investigated area. According to the USGS Stream Stats application, the stream has an upstream drainage area of 6,390.082 square miles.

The river was rated average quality based on the ability to support aquatic life, a wide riparian buffer, and riffles were present and there was overhead cover along the banks of the river. Unusual features include Goose Island, which is located directly under the structure and extending east. Vegetation was present on the riverbanks, and the main substrate present in the stream was cobble and silt. The Wabash River is a traditional navigable water (TNW) and is therefore considered a Water of the U.S (WOTUS).

Table 3: Stream Summary

Water Feature Name	Photos	Lat/Long	OHWL Width (ft)	OHWL Depth (ft)	USGS Blue-line? Type?	Aquatic Resource in Review Area (ft)	Quality	Substrate	Riffles/ Pools?	Likely Water of US?
Wabash River	8-12	40.49530, -86.82379	580	N/A	Yes, perennial	130	Average	Predominantly cobble and silt	R: Yes P: No	Yes

Wetlands

The US Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual and the 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0) were used to determine whether wetlands were present within the investigated area. Wetland/non-wetland determinations were made using guidance and techniques provided by the Delineation Manual and Regional Supplement, including vegetation (National Wetland Plant List, Lichvar et al, 2016), hydrology, and soil characteristics. One sample point was taken during the site visit despite the lack of observed hydrology in the investigated area.

Table 4: Wetland Data Point Summary

Data Point	Photos	Lat/Long	Vegetation	Soils	Hydrology	Wetland
SP 1	5,6	40.49459/-86.82179	No	No	No	No

Sample Point 1 (SP1)

SP 1 was taken in the northeast quadrant on the approach to the bridge.. Dominant vegetation included evening primrose (*Oenothera biennis*), hackberry (*Celtis occidentalis*), reed canary grass (*Phalaris arundinacea*), rice cutgrass (*Leersia oryzoides*), and common thistle (*Cirsium vulgare*) in the herb stratum. This observation did not meet the vegetation criterion for a positive wetland determination, not passing the dominance test and not meeting the prevalence index. The soils in the test pit consisted of a silt loam with a matrix color of 10YR 4/4 (100%) from 0 to 17 inches with no redox concentrations observed. This observation did not meet the hydric soil criterion for a positive wetland determination. No primary or secondary indicators of wetland hydrology were observed. This observation did not meet the hydrology criterion for a positive wetland determination. SP1 did not have sufficient hydrophytic vegetation indicators, lacked hydric soils and had no hydrology indicators and therefore was designated as an upland point. There was a lack of observed hydrology throughout the investigated area and no additional sample points were taken.

The NWI-mapped PFO1C wetland identified on Goose Island during the desktop review was not confirmed during the site visit. No work will be done on Goose Island, therefore it was not investigated during the site visit. An aerial photograph illustrating the identified water resources is provided as Figure 9. Also attached to this report are ground-level photographs and a photo orientation map (Figure 10).

Other Features

The investigated area was surveyed for other aquatic features including roadside ditches and open water bodies. Any features identified were evaluated for potential jurisdictional status.

Open Water

No lakes, ponds, or other bodies of open water were observed in the investigated area.

Roadside Ditches

No roadside ditches were observed in the investigated area.

Wildlife Evidence and Concerns

INDOT structure #225-79-04016/NBI #029150, was evaluated for use or potential use for wildlife crossing and no evidence of wildlife crossings were identified. The bridge was also inspected by BLN Environmental Staff for the presence of birds and bats, and no signs of either were observed during the site visit.

Conclusions

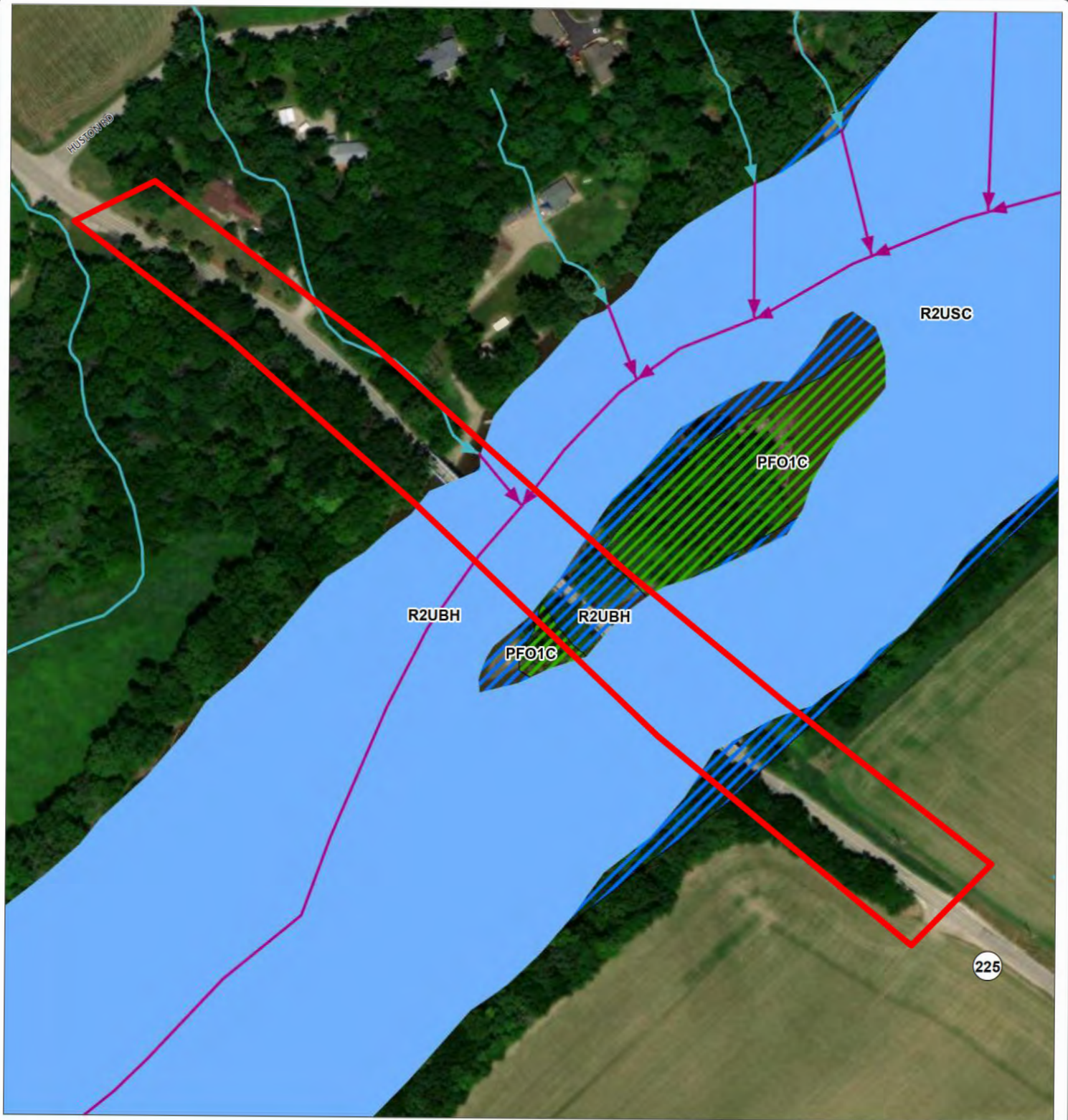
BLN conducted a field investigation on August 17, 2022, and identified one likely jurisdictional feature, Wabash River, within the investigated area. Wabash River is a TNW, and therefore likely to be considered a WOTUS. Every effort should be made to avoid and minimize impacts to the waterway. If impacts are necessary, mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by USACE. This report is our best judgement based on the guidelines set forth by USACE.

Acknowledgement

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



1/18/20223
Preeti Samra
Environmental Analyst
Beam, Longest and Neff, LLC



Source: U.S. Fish & Wildlife Service

1:2,400

1 in = 200 ft

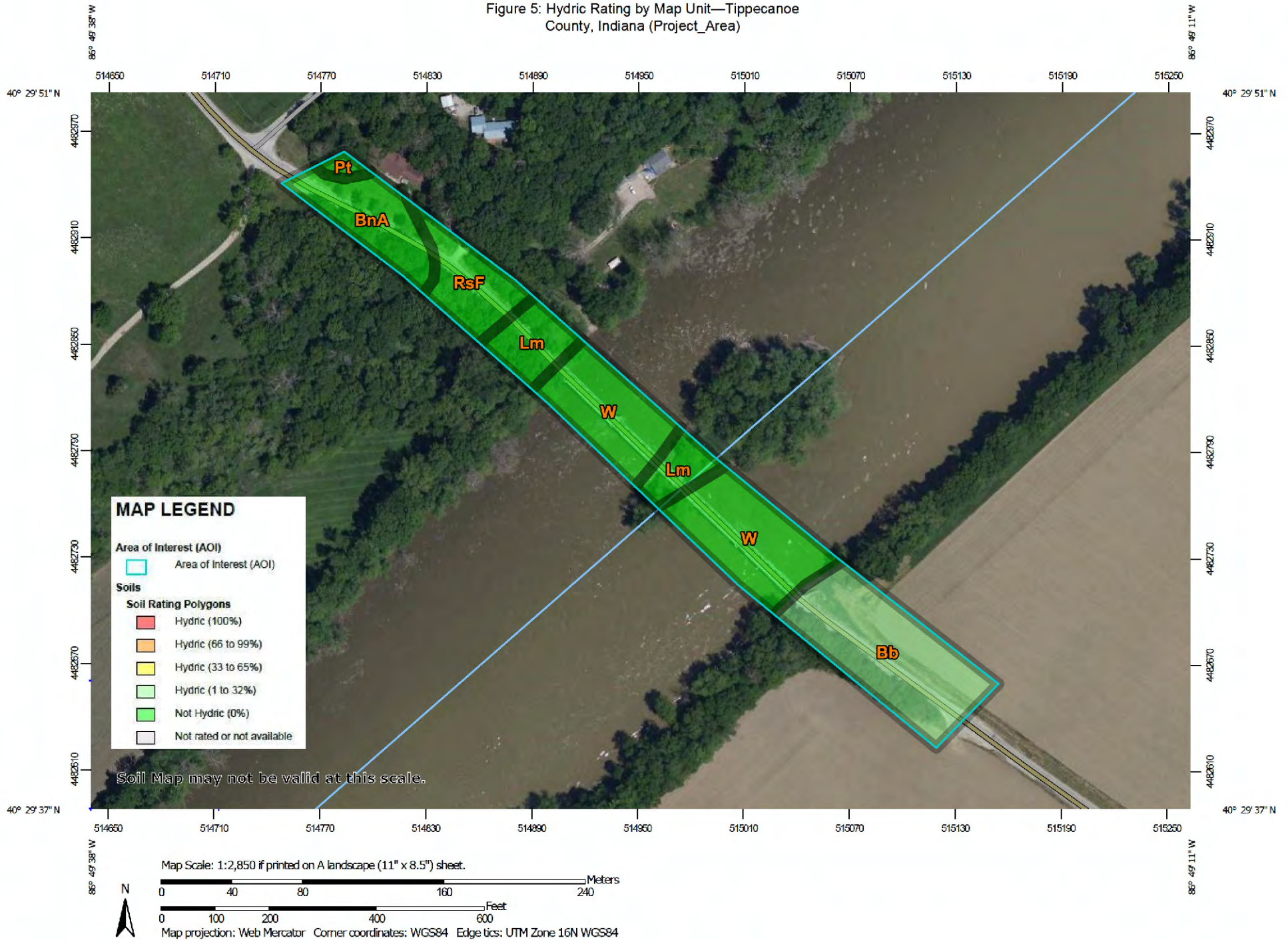


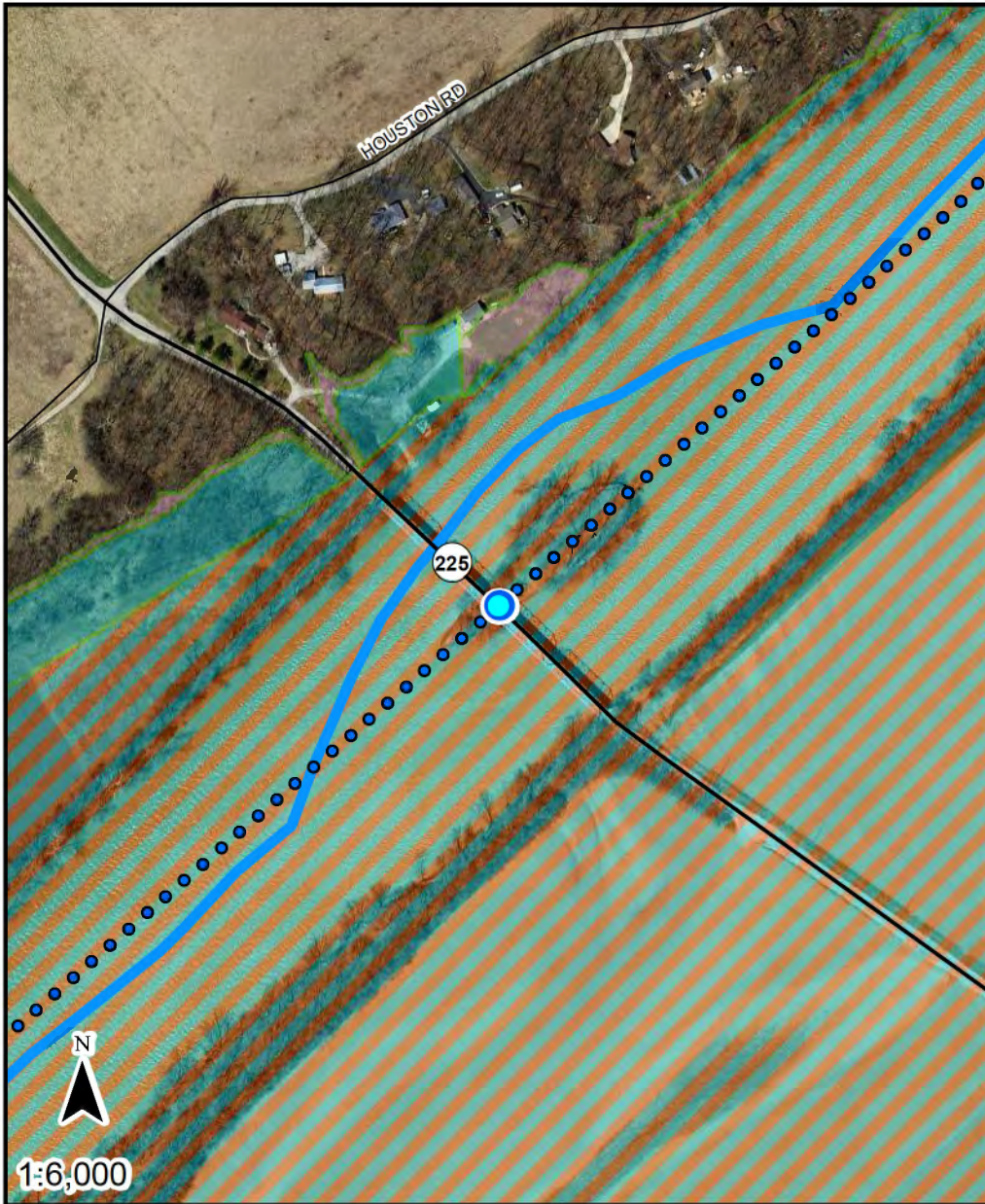
Legend		
Investigated Area	Perennial	Coastline
Wetland Type	Intermittent	Connector
Freshwater Forested/Shrub Wetland	Ephemeral	Pipeline
Riverine	Artificial Path	Underground Conduit
	Canal Ditch	

Figure 4: National Wetlands Inventory and National Hydrography Dataset Map
 SR 225 over Wabash River
 0.60 Mile North of SR 25
 Tippecanoe County, Indiana
 Des. No. 2002077
 Author: Caitlin Caldwell

September 23, 2022

Figure 5: Hydric Rating by Map Unit—Tippecanoe County, Indiana (Project_Area)





- Point of Interest
- Base Flood Elevation Point
- Flood Elevation Points**
 - STUDIED STREAM
- Rivers and Streams at least 1 square mile**
- Drainage Area (sq. miles)**
 - > 500
- ▨ FEMA Zone AE Floodway; FEMA Administrative Floodway
- ▨ FEMA Zone AE
- ▨ Additional Floodplain Area; DNR .2 Percent Flood Hazard

Point of Interest Coordinates (WGS84)
 Long: -86.8232479158
 Lat: 40.495521189

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

County: **Tippecanoe**

Approximate Ground Elevation: **525.3 feet (NAVD88)**

Stream Name:
Wabash River

Base Flood Elevation: **536.3 feet (NAVD88)**

Drainage Area: **Not available**

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

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

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

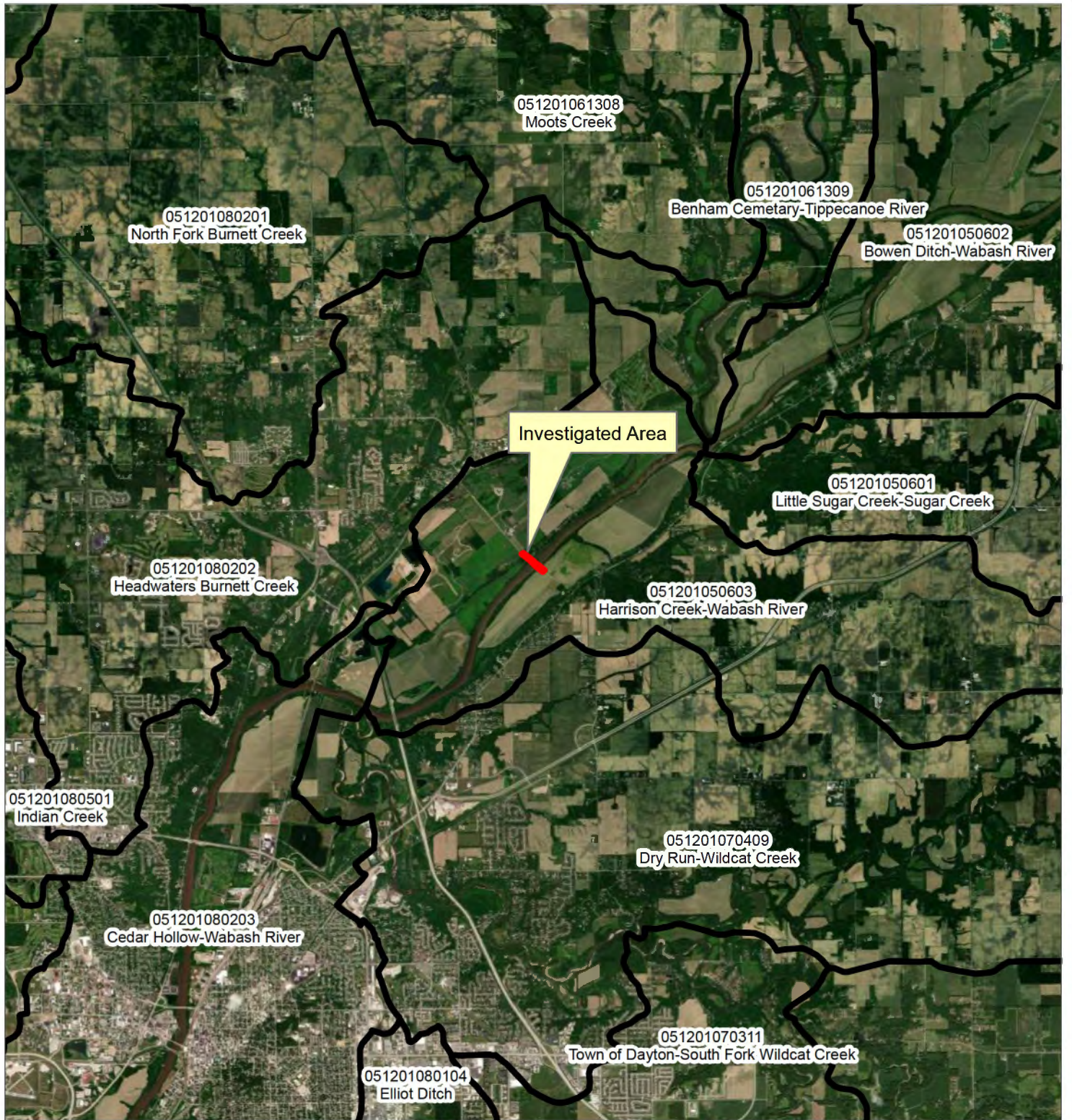
Is a local floodplain permit needed for this location? **yes-**

Floodplain Administrator: **David Hittle, Executive Director Area Plan Commission**

Community Jurisdiction: **Tippecanoe County, County proper**

Phone: **(765) 423-9242**

Email: **dhittle@tippecanoe.in.gov**



Source: Indiana Department of Environmental Management

1:96,000

1 in = 8,000 ft



Legend

-  Watershed - HUC 12
-  Investigated Area

Figure 7: Watershed Map
 SR 225 over Wabash River
 0.60 Mile North of SR 25
 Tippecanoe County, Indiana
 Des. No. 2002077
 Author: Caitlin Caldwell

August 31, 2022

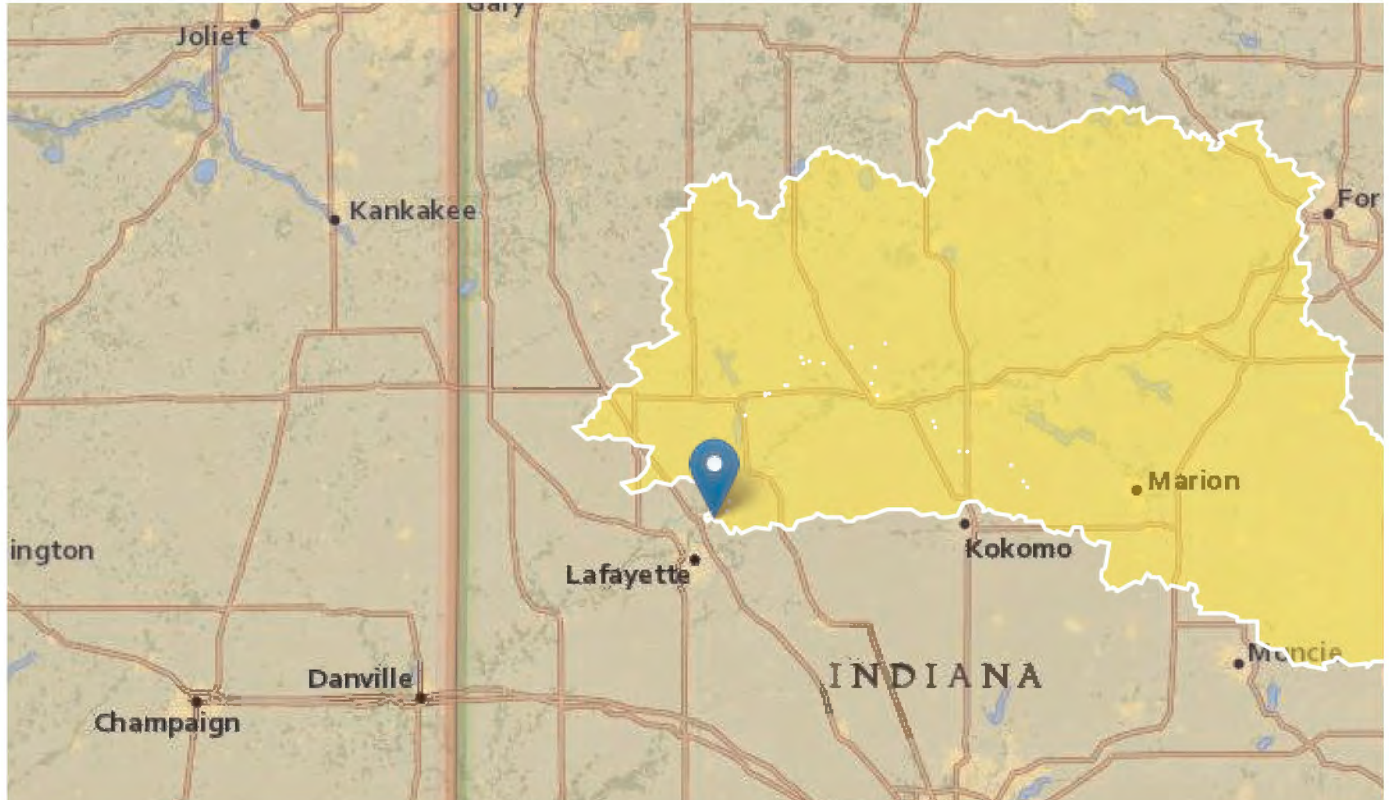
StreamStats Report Des 2002077

Region ID: IN

Workspace ID: IN20220829170239700000

Clicked Point (Latitude, Longitude): 40.49553, -86.82323

Time: 2022-08-29 13:03:01 -0400



+ Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	6390.082	square miles
K2INDNR	Average hydraulic conductivity (ft/d) for the full depth of unconsolidated deposits from InDNR well database.	30	ft per day
LC01FOREST	Percentage of forest from NLCD 2001 classes 41-43	8.8	percent
LOWREG	Low Flow Region Number	1729	dimensionless

Parameter Code	Parameter Description	Value	Unit
QSSPERMTHK	Index of the permeability of surficial Quaternary sediments computed as in SIR 2014-5177	2535.95	dimensionless
T2INDNR	Average transmissivity (ft ² /d) for the full depth of unconsolidated deposits from InDNR well database.	2475	square feet per day

General Disclaimers

The delineation point is in an exclusion area. FOR THE MAINSTEMS OF WABASH, ST. MARYS AND MAUMEE RIVER, THE TOTAL DRAINAGE AREA INCLUDES A PORTION OF THE GRAND LAKE ST. MARYS BASIN.

➤ General Flow Statistics

General Flow Statistics Parameters [Harmonic Mean Central Region 2016 5102]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	6390.082	square miles	2.99	8
K2INDNR	Avg_Hydraulic_Conductivity_Full_Depth	30	ft per day	6.36	4
QSSPERMTHK	Permeability_Index	2535.95	dimensionless	43.8	5
LOWREG	Low Flow Region Number	1729	dimensionless		

General Flow Statistics Disclaimers [Harmonic Mean Central Region 2016 5102]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

General Flow Statistics Flow Report [Harmonic Mean Central Region 2016 5102]

Statistic	Value	Unit
Harmonic Mean Streamflow	2570	ft ³ /s

General Flow Statistics Citations

Martin, G.R., Fowler, K.K., and Arihood, L.D.,2016, Estimating selected low-flow frequency statistics and harmonic-mean flows for ungaged, unregulated streams in Indiana (ver 1.1, October 2016): U.S. Geological Survey Scientific Investigations Report 2016–5102, 45 p. (<http://dx.doi.org/10.3133/sir20165102>)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

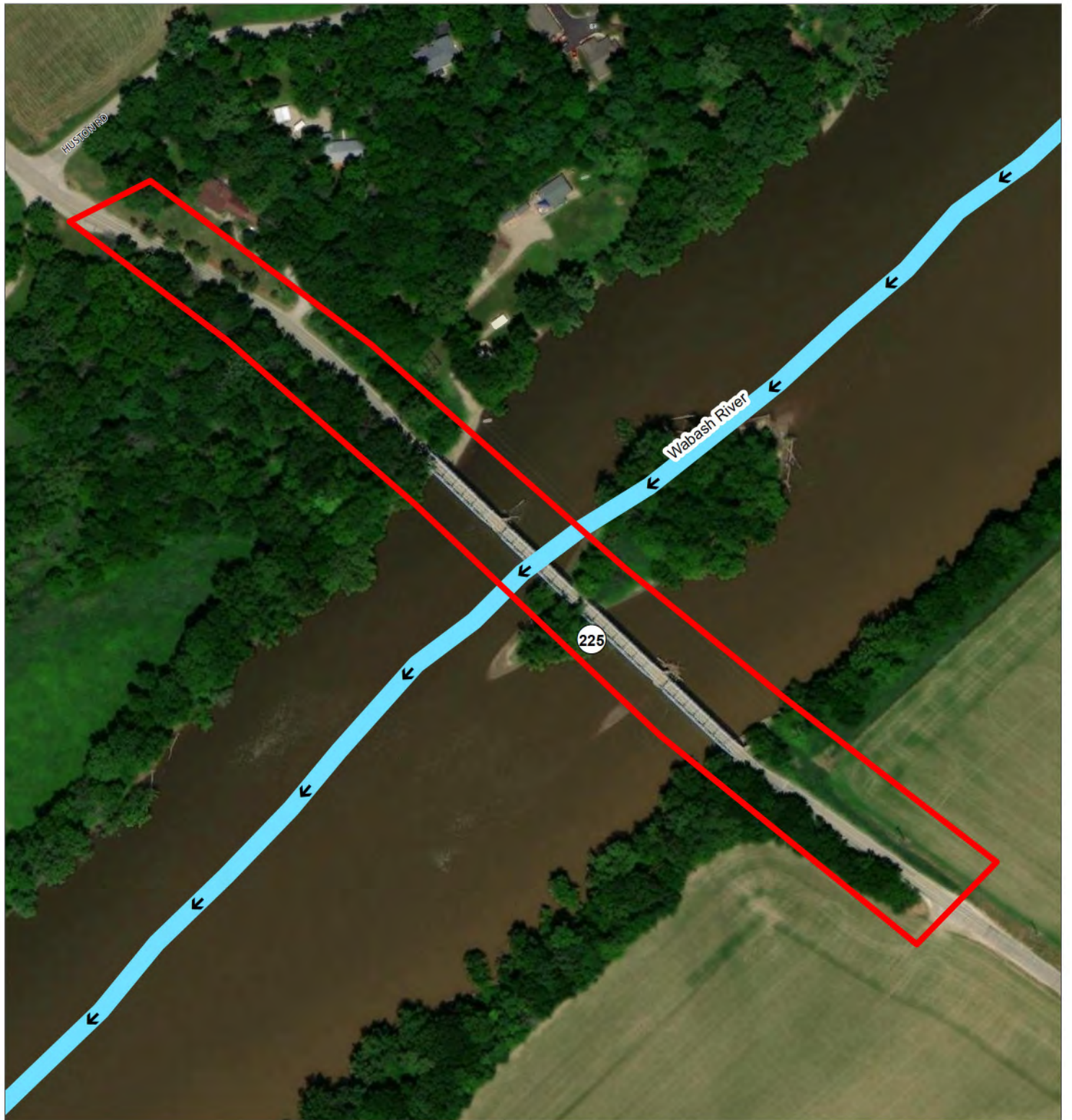
USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the software is released on condition that neither the USGS nor the U.S. Government shall be held liable for any damages resulting from its authorized or unauthorized use.

USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.10.1

StreamStats Services Version: 1.2.22

NSS Services Version: 2.2.1



Source: BLN Field Investigation

1:2,400

1 in = 200 ft



Legend

-  Investigated Area
-  Wabash River

Figure 9: Water Resources Map
 SR 225 over Wabash River
 0.60 Mile North of SR 25
 Tippecanoe County, Indiana
 Des. No. 2002077
 Author: Caitlin Caldwell

September 23, 2022

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Des 2002077 City/County: Lafayette/Tippecanoe Sampling Date: 2022-08-17
 Applicant/Owner: INDOT State: Indiana Sampling Point: SP1
 Investigator(s): P. Samra Section, Township, Range: 25, 24N, 4W
 Landform (hillslope, terrace, etc.): Upland, Hillslope Local relief (concave, convex, none): None
 Slope (%): 5 Lat: 40.49459 Long: -86.82179 Datum: WGS 84
 Soil Map Unit Name: Bb NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 ft r</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____	Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Total % Cover of:</td> <td style="width:50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>10</u></td> <td>x 1 = <u>10</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species <u>60</u></td> <td>x 4 = <u>240</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>330</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.30</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>10</u>	x 1 = <u>10</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>20</u>	x 3 = <u>60</u>	FACU species <u>60</u>	x 4 = <u>240</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>330</u> (B)	Prevalence Index = B/A = <u>3.30</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>10</u>	x 1 = <u>10</u>																			
FACW species <u>10</u>	x 2 = <u>20</u>																			
FAC species <u>20</u>	x 3 = <u>60</u>																			
FACU species <u>60</u>	x 4 = <u>240</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>330</u> (B)																			
Prevalence Index = B/A = <u>3.30</u>																				
5. _____	_____	_____	_____																	
_____ = Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15 ft r</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
_____ = Total Cover																				
Herb Stratum (Plot size: <u>5 ft r</u>)																				
1. <u>Cirsium vulgare</u>	<u>30</u>	<input checked="" type="checkbox"/>	<u>FACU</u>																	
2. <u>Oenothera biennis</u>	<u>30</u>	<input checked="" type="checkbox"/>	<u>FACU</u>																	
3. <u>Celtis occidentalis</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FAC</u>																	
4. <u>Leersia oryzoides</u>	<u>10</u>		<u>OBL</u>																	
5. <u>Phalaris arundinacea</u>	<u>10</u>		<u>FACW</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
<u>100%</u> = Total Cover																				
Woody Vine Stratum (Plot size: <u>30 ft r</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
_____ = Total Cover																				
Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain)																				
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																				
Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>																				
Remarks: (Include photo numbers here or on a separate sheet.)																				
Hydrophytic vegetation indicators not met																				

SOIL

Sampling Point: SP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0 - 17	10YR 4/4	100					Silt Loam	No hydric soil indicators were observed.
-								
-								
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>
---	---

Remarks:
Hydric soil indicators not present.

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: No primary or secondary indicators of hydrology observed		