

Indiana Department of Transportation

County Porter

Route US 20 & Waverly Rd

Des. No. 1006622

Part I - PUBLIC INVOLVEMENT

Every Federal action requires some level of public involvement, providing for early and continuous opportunities throughout the project development process. The level of public involvement should be commensurate with the proposed action.

Does the project have a historic bridge processed under the Historic Bridges PA*? Yes No
If No, then: Opportunity for a Public Hearing Required? X

* A public hearing is required for all historic bridges processed under the Historic Bridges Programmatic Agreement between INDOT, FHWA, SHPO, and the ACHP.

Discuss what public involvement activities (legal notices, letters to affected property owners and residents (i.e. notice of entry), meetings, special purpose meetings, newspaper articles, etc.) have occurred for this project.

Remarks: A Notice of Entry for Survey or Investigation was sent to affected property owners within the project area on August 28, 2014 (Appendix I1-I2). On September 9, 2015 INDOT, acting on behalf of the Federal Highway Administration (FHWA), approved the finding of "No Historic Properties Affected". On September 10, 2015 the Indiana State Historic Preservation Officer (SHPO) concurred with the FHWA finding of "No Historic Properties Affected". See Appendix E66-E67 for SHPO letter. The section 106 documentation was placed in the Northwest Indiana Times newspaper on October 1, 2015 to give consulting parties and the public an opportunity to comment on the "No Historic Properties" finding (Appendix E72). A 30-day comment period produced no dissenting comments regarding the finding for Section 106. A public information meeting was held on August 13, 2015 by INDOT Office of Public Involvement (Appendix I3-I17). The information meeting was held to provide an overview of the project to the public and see if they had any concerns (See Appendix I18-I25 for meeting presentation and sign-in sheet). Concerns about maintenance of traffic during construction, removal of trees, drainage issues, and changes to existing drives were brought up during the meeting and addressed by INDOT and Lawson-Fisher Associates. A letter was provided at the meeting (Appendix I4-I5) for comments. One comment was received regarding traffic signals (Appendix I27). The proposed project meets one or more of the conditions described in the current Indiana Department of Transportation (INDOT) Public Involvement Manual 2012, Part 1, Section IV.C.4, which would require INDOT to offer the public an opportunity to request a public hearing. This project will require 0.691 acres of permanent right of way. In accordance with the FHWA approved INDOT public involvement policy this project will require an opportunity for public comment based on the acquisition of more than 0.5 acres of new permanent right of way. Therefore, a legal notice will appear in a local publication contingent upon the release for public involvement of this document. This environmental document will be revised after the public involvement requirements are fulfilled. A legal notice of public hearing was advertised in the Northwest Indiana Times on Wednesday, January 6, 2016 and Wednesday, January 13, 2016 (Appendix I39-I40). The advertisement announced the project type, time, and date. The public hearing was held by INDOT Office of Public Involvement on Thursday, January 21, 2016 at 6:00pm (local time), at the Porter Town Hall, 303 Franklin Street, Porter, Indiana 46304 (See Appendix I44-I52). There were 12 attendees in total, including INDOT personnel (Appendix I54-I56). No major concerns were brought up during the meeting regarding the planned intersection improvement. A comment sheet was handed out at the public hearing (Appendix I53). The public comment period was open until February 5, 2016. During this time, the public was able to submit their comments and concerns. Comments were received during the comment period (Appendix I57-I65) and these comments/concerns were addressed by Lawson-Fisher Associates (LFA). The public comments and LFA's responses can be found Appendix I66-I67.

Public Controversy on Environmental Grounds Will the project involve substantial controversy concerning community and/or natural resource impacts? Yes No X

Remarks: This project is not expected to result in substantial controversy concerning community and/or natural resource impacts.

Part II - General Project Identification, Description, and Design Information

Sponsor of the Project: Indiana Department of Transportation INDOT District: LaPorte

This is page 2 of 19 Project name: Intersection Improvement at US 20 & Waverly Rd Date: December 2, 2015

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Local Name of the Facility: US 20 & Waverly Rd

Funding Source (mark all that apply): Federal State Local Other*

*If other is selected, please identify the funding source: _____

PURPOSE AND NEED:

Describe the transportation problem that the project will address. The solution to the traffic problem should NOT be discussed in this section. (Refer to the CE Manual, Section IV.B.2. Purpose and Need)

The purpose of the project is to increase the level of service of the intersection by reducing delays and the number of rear accidents due to traffic waiting to turn left from US 20.

The project is needed to address the issues with the split phase operation of the traffic signal controller and address delays at the intersection of US 20 and Waverly. The project also is needed because this intersection is a potential safety concern due to rear end accidents. See Appendix K4 for crash summary data (information taken from Lawson-Fisher Associates design documentation).

PROJECT DESCRIPTION (PREFERRED ALTERNATIVE):

County: Porter County Municipality: Porter

Limits of Proposed Work: Intersection of US 20 & Waverly Rd

Total Work Length: 0.25 Mile(s) Total Work Area: 3.24 Acre(s)

Is an Interchange Modification Study / Interchange Justification Study (IMS/IJS) required?
If yes, when did the FHWA grant a conditional approval for this project?

| Yes ¹ | No |
|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Date: _____ | |

¹If an IMS or IJS is required; a copy of the approved CE/EA document must be submitted to the FHWA with a request for final approval of the IMS/IJS.

In the remarks box below, describe existing conditions, provide in detail the scope of work for the project, including the preferred alternative. Include a discussion of logical termini. Discuss any major issues for the project and how the project will improve safety or roadway deficiencies if these are issues.

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Preferred Alternative:

This project is an intersection improvement project on U.S. 20 where it crosses Waverly Road at-grade on the northern fringe of Porter, Porter County, Indiana. This intersection is located in Dunes Acres Quadrangle, Section 25&26, Range 6W, Township 37N. This intersection is located approximately 0.5 miles west of SR 49. This area is commercial and residential. Specifically, the northeast and southeast quadrants are commercial and the northwest and southwest are residential. US 20 and Waverly provide access to several commercial businesses and access to subdivisions and homes.

The project involves the construction of left turn lanes for eastbound and westbound U.S. 20 and a traffic signal modernization. The roadway was constructed with concrete pavement in 1931. The concrete pavement was overlaid with asphalt in 1961. It has been widened and re-surfaced multiple times.

The traffic signal was installed in 1995. The intersection currently has split-phasing for U.S. 20 traffic to accommodate left turning movements onto Waverly Road.

The roadway project includes pavement widening, milling and re-surfacing of the existing pavement, maintaining off-road drainage, strain pole and overhead span reconstruction, and maintaining existing auxiliary turn lanes off of U.S. 20. The construction on Waverly Road will be limited to approach work. The existing horizontal alignment will be maintained. The existing profile grade will be maintained.

Traffic will be maintained on the existing pavement during construction with the use of barrels to delineate the edge where pavement widening is taking place. One lane of traffic may be closed in each direction during construction.

This project will require a total 1.014 acres of permanent and temporary right of way (ROW) combined. Approximately 0.691 is new ROW and 0.323 temporary ROW. All permanent and temporary ROW is commercial. One wetland was identified on the north side of US 20, east of the intersection, within the ROW area. Approximately 0.18 acres of this wetland will be impacted.

A 404/401 permit will be required for the work taking place within the wetland. It is also possible mitigation will be required depending on finalized plans. A Rule 5 is also anticipated.

OTHER ALTERNATIVES CONSIDERED:

Describe all discarded alternatives, including the Do-Nothing Alternative and an explanation of why each discarded alternative was not selected.

Two other alternatives were considered:

1. Roundabout
2. Do Nothing

Alternative No. 1: This alternative would be to install a multi-lane roundabout at intersection. The existing lane configuration on US 20 would require a two lane roundabout that could cause confusion to motorists as it would alter the traffic pattern. Although this alternative would meet the purpose and need, this alternative is the most expensive and would have greater impacts to the environment. Also, the proximity of the existing interchange at SR 49 would need to be modified.

Alternative No. 2: This alternative would maintain the existing lane configuration. The existing signal timing could be modified to provide increased time for the left turn movements. This would cause increased delay for the traffic on US 20 due to increased time for the traffic. Therefore, this alternative would not meet the purpose and need of this project.

The Do Nothing Alternative is not feasible, prudent or practicable because (Mark all that apply):

It would not correct existing capacity deficiencies;

It would not correct existing safety hazards;

It would not correct the existing roadway geometric deficiencies;

It would not correct existing deteriorated conditions and maintenance problems; or

It would result in serious impacts to the motoring public and general welfare of the economy.

Other (Describe)

| |
|---|
| X |
| X |
| X |
| |
| |
| |

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ROADWAY CHARACTER:

U.S. 20

Functional Classification: Urban Principal Arterial-Other
 Current ADT: 8,309 VPD (2017) Design Year ADT: 8,309 VPD (2037)
 Design Hour Volume (DHV): 10 Truck Percentage (%): 16
 Designed Speed (mph): 50 Legal Speed (mph): 50

Existing

Proposed

| | | | | |
|------------------|--|-----|--|-----|
| Number of Lanes: | Four | | Four | |
| Type of Lanes: | 4 Thru Lanes; auxiliary right turn lanes | | 4 Thru; 1 left turn lane; Auxiliary right turn lanes | |
| Pavement Width: | 11 | ft. | 11 | ft. |
| Shoulder Width: | 4 | ft. | 4 | ft. |
| Median Width: | | ft. | | ft. |
| Sidewalk Width: | | ft. | | ft. |

Setting: Urban Suburban Rural
 Topography: Level Rolling Hilly

Waverly Road

Functional Classification: Major Collector 5
 Current ADT: 2,501 VPD (2017) Design Year ADT: 2,501 VPD (2037)
 Design Hour Volume (DHV): 10 Truck Percentage (%): 2
 Designed Speed (mph): 30 Legal Speed (mph): 30

Existing

Proposed

| | | | | |
|------------------|--------------|-----|--------------|-----|
| Number of Lanes: | Two | | Two | |
| Type of Lanes: | 2 Thru Lanes | | 2 Thru Lanes | |
| Pavement Width: | 11 | ft. | 11 | ft. |
| Shoulder Width: | | ft. | | ft. |
| Median Width: | | ft. | | ft. |
| Sidewalk Width: | | ft. | | ft. |

Setting: Urban Suburban Rural
 Topography: Level Rolling Hilly

If the proposed action has multiple roadways, this section should be filled out for each roadway.

DESIGN CRITERIA FOR BRIDGES:

Structure/NBI Number(s): N/A Sufficiency Rating: N/A
 (Rating, Source of Information)

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Existing Proposed

| | | | |
|---------------------------|-----|-----|-----|
| Bridge Type: | N/A | N/A | |
| Number of Spans: | N/A | N/A | |
| Weight Restrictions: | N/A | ton | N/A |
| Height Restrictions: | N/A | ft. | N/A |
| Curb to Curb Width: | N/A | ft. | N/A |
| Outside to Outside Width: | N/A | ft. | N/A |
| Shoulder Width: | N/A | ft. | N/A |
| Length of Channel Work: | | | N/A |

Describe bridges and structures; provide specific location information for small structures.

Remarks: This project will not involve any bridges or culverts.

Will the structure be rehabilitated or replaced as part of the project? Yes No N/A
If the proposed action has multiple bridges or small structures, this section should be filled out for each structure.

MAINTENANCE OF TRAFFIC (MOT) DURING CONSTRUCTION:

| | Yes | No |
|---|--------------------------|-------------------------------------|
| Is a temporary bridge proposed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is a temporary roadway proposed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Will the project involve the use of a detour or require a ramp closure? (describe in remarks) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Provisions will be made for access by local traffic and so posted. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Provisions will be made for through-traffic dependent businesses. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Provisions will be made to accommodate any local special events or festivals. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Will the proposed MOT substantially change the environmental consequences of the action? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there substantial controversy associated with the proposed method for MOT? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Remarks: Traffic shall be maintained on the existing pavement with barrels to delineate the edge where the pavement widening is taking place. One lane of traffic may be closed in each direction during construction.

ESTIMATED PROJECT COST AND SCHEDULE:

Engineering: \$ 179,315 (2015) Right-of-Way: \$ 250,000 (2016) Construction: \$ 799,000 (2017)

Anticipated Start Date of Construction: August 2017

Date project incorporated into STIP December 9, 2014

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Is the project in an MPO Area? **Yes** **No**

If yes,

Name of MPO Northwestern Indiana Regional Planning Commission (NIRPC)

Location of Project in TIP NIRPC 2016-2019 page 17

Date of incorporation by reference into the STIP December 9, 2014

RIGHT OF WAY:

| Land Use Impacts | Amount (acres) | |
|------------------|----------------|--------------|
| | Permanent | Temporary |
| Residential | 0.0 | 0.0 |
| Commercial | 0.691 | 0.323 |
| Agricultural | 0.0 | 0.0 |
| Forest | 0.0 | 0.0 |
| Wetlands | 0.0 | 0.0 |
| Other: | 0.0 | 0.0 |
| Other: | 0.0 | 0.0 |
| TOTAL | 0.691 | 0.323 |

Describe both Permanent and Temporary right-of-way and describe their current use. Typical and Maximum right-of-way widths (existing and proposed) should also be discussed. Any advance acquisition or reacquisition, either known or suspected, and there impacts on the environmental analysis should be discussed.

Remarks:

This project requires a total of 1.014 acres of right of way (ROW). Approximately 0.691 acres of permanent commercial ROW and approximately 0.323 acres of temporary commercial ROW will be purchased. Right of way is being purchased from a total of eight (8) property owners; two (2) property owners have both commercial and temporary. This comes to a total ten (10) parcels being purchased; five (5) commercial parcels and five (5) temporary parcels.

Of the total 1.014 acres of ROW; 0.871 acres is grass and ditch area and 0.143 acres is private drive/public road. The areas with permanent ROW acquisition are approximately 50 ft from the center of the road, US 20. Approximately 17 ft of ROW from the edge of pavement is needed near the intersection.

Part III – Identification and Evaluation of Impacts of the Proposed Action

SECTION A – ECOLOGICAL RESOURCES

| | <u>Presence</u> | <u>Impacts</u> | |
|---|--------------------------|--------------------------|--------------------------|
| | | <u>Yes</u> | <u>No</u> |
| Streams, Rivers, Watercourses & Jurisdictional Ditches | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Federal Wild and Scenic Rivers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| State Natural, Scenic or Recreational Rivers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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Nationwide Rivers Inventory (NRI) listed
 Outstanding Rivers List for Indiana
 Navigable Waterways

Remarks: The area within and immediately adjacent to the project area was reviewed for the presence of water resources. An office determination was performed by INDOT Environmental Services using aerial maps. No waterways were identified on the aerial maps within the project area. A field visit was conducted on June 19, 2015 by INDOT Environmental Services. The field investigation confirmed that there were no waterways within the project area. See Appendix F for the Waters of the U.S. Determination Report.

| Other Surface Waters | <u>Presence</u> | <u>Impacts</u> | |
|-----------------------------------|--------------------------|--------------------------|--------------------------|
| | | Yes | No |
| Reservoirs | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Lakes | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Farm Ponds | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Detention Basins | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Storm Water Management Facilities | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Other: _____ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Remarks: The area within and immediately adjacent to the project area was reviewed for the presence of water resources. An office determination was performed by INDOT Environmental Services using aerial maps. No other surface waters such as lakes and ponds were identified on the aerial maps within the project area. A field visit was conducted on June 19, 2015 by INDOT Environmental Services. The field investigation confirmed that there were no other surface waters within the project area. See Appendix F for the Waters of the U.S. Determination Report.

| Wetlands | <u>Presence</u> | <u>Impacts</u> | |
|-----------------|-------------------------------------|-------------------------------------|--------------------------|
| | | Yes | No |
| | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Total wetland area: 0.7 acre(s) Total wetland area impacted: 0.18 acre(s)

(If a determination has not been made for non-isolated/isolated wetlands, fill in the total wetland area impacted above.)

| Wetland No. | Classification | Total Size (Acres) | Impacted Acres | Comments |
|-------------|---------------------|--------------------|----------------|------------------|
| A | Palustrine Emergent | 0.7 acres | 0.18 acres | Will be Impacted |

Documentation

ES Approval Dates

Wetlands (Mark all that apply)

| | | |
|-------------------------------------|-------------------------------------|--------------------------|
| Wetland Determination | <input checked="" type="checkbox"/> | November 13, 2015 |
| Wetland Delineation | <input type="checkbox"/> | <input type="text"/> |
| USACE Isolated Waters Determination | <input type="checkbox"/> | <input type="text"/> |
| Mitigation Plan | <input type="checkbox"/> | <input type="text"/> |

Improvements that will not result in any wetland impacts are not practicable because such avoidance

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would result in (Mark all that apply and explain):

- Substantial adverse impacts to adjacent homes, business or other improved properties;
- Substantially increased project costs;
- Unique engineering, traffic, maintenance, or safety problems;
- Substantial adverse social, economic, or environmental impacts, or
- The project not meeting the identified needs.

| |
|---|
| |
| |
| X |
| |
| X |

Measures to avoid, minimize, and mitigate wetland impacts need to be discussed in the remarks box.

Remarks: A site visit to the project area was conducted on June 19, 2015 and September 22, 2015 by INDOT Environmental Services. One roadside ditch identified on the north side of US 20, east of the intersection, was identified as an emergent wetland. The most current aerial photos indicate that a wetland complex extended from the north ditch, starting at Pinkerton Oil facility driveway. A Dollar General store was recently constructed in that area to include a driveway and ditch modifications. As a result, the wetland portion of the ditch starts at the east edge of the property line. The wetland has been modified/shortened by the construction of Dollar General within the past year. This wetland is approximately 0.7 acres. Wetland A is considered a poor quality wetland.

Due to the widening of US 20, there will be impacts to this wetland. It is anticipated that approximately 0.18 acres of the wetland will be impacted. With consideration of the presence of wetlands, it has been determined that there is no practical alternative to the proposed new construction within the wetlands. The proposed actions include all practical measures to minimize wetland impacts to the greatest extent possible while meeting the projects purpose and need. Avoidance of all impacts to wetlands would necessitate eliminating prudent design criteria. 404/401 permits are anticipated for this project. Wetland mitigation is possible dependent on plans. See Appendix F for Waters of the U.S. Determination Report.

The United States Fish and Wildlife Services (USFWS) responded to early coordination stating that "the proposed project will have no effect on wetlands or other significant habitat types. Project impacts are expected to be minor in nature." See Appendix C15-C16 for USFWS letter.

| | <u>Presence</u> | <u>Impacts</u> | |
|--|-----------------|----------------|----|
| | | Yes | No |
| Terrestrial Habitat Unique or High Quality Habitat | X | X | |

Use the remarks box to identify each type of habitat and the acres impacted (i.e. forested, grassland, farmland, lawn, etc).

Remarks: Land use within the vicinity of the project consists of residential and commercial. Areas where ROW is being purchased to widen the road consists of maintained lawns, commercial drives, and private drives. All work will take place in previously disturbed soils. No unique or high quality habitats were identified during early coordination responses from IDNR or USFWS. In USFWS letter dated March 30, 2015, it was stated "The proposed project will have no effect on wetlands or other significant habitat types. Project impacts are expected to be minor in nature." See Appendix C15-C16 for USFWS letter.

Minimal tree clearing is anticipated in the southwest quadrant of the intersection. Four trees located on Pat Liquors Store, a commercial property where ROW is being purchased, will be removed. The Indiana Department of Natural Resources (IDNR) responded to early coordination on March 23, 2015 stating "impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on the area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees)." Therefore, tree mitigation is anticipated.

If there are high incidences of animal movements observed in the project area, or if bridges and other areas appear to be the sole corridor for animal movement, consideration of utilizing wildlife crossings should be taken.

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(<http://www.in.gov/idem/pages/wellhead/>) was accessed on 11/23/15 by INDOT-Environmental Services. The required project location data was provided and it was determined that this project is not located within a Wellhead Protection Area. This project lies outside of municipal water facilities and does not infringe on any residential wells, therefore no impacts will occur to any drinking water resources as a result of this project.

| | <u>Presence</u> | <u>Impacts</u> | |
|---|--------------------------|--------------------------|--------------------------|
| | | Yes | No |
| Flood Plains | | | |
| Longitudinal Encroachment | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Transverse Encroachment | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Project located within a regulated floodplain | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Homes located in floodplain within 1000' up/downstream from project | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Discuss impacts according to classification system described in the "Procedural Manual for Preparing Environmental Studies".

Remarks: This project does not encroach upon the regulatory floodplain of the HUD Special Flood Hazard Area. Therefore, it does not fall within the guidelines for the implementation of 23 CFR 650, 23 CFR 771 and 44 CFR. This was determined by a review of the DFIRM floodplain maps during the red flag investigation. See Appendix D for Red Flag Investigation. Flood plain maps were also accessed on IDNR's website (<http://dnrmmaps.dnr.in.gov/appsphp/fdms/>) on November 23, 2015 by INDOT Environmental Services to confirm the project does not fall within a floodplain.

| | <u>Presence</u> | <u>Impacts</u> | |
|---------------------------|--------------------------|--------------------------|--------------------------|
| | | Yes | No |
| Farmland | | | |
| Agricultural Lands | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Prime Farmland (per NRCS) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Total Points (from Section VII of CPA-106/AD-1006* N/A
**If 160 or greater, see CE Manual for guidance.*

See CE Manual for guidance to determine which NRCS form is appropriate for your project.

Remarks: None of the land within the project limits meets the definition of farmland under the Farmland Protection and Policy Act (FPPA). The requirements of the FPPA do not apply to this project. No alternatives other than those previously discussed in this document will be investigated without reevaluating impacts to prime farmland. See Appendix C14 for United States Department of Agriculture (USDA) early coordination letter.

SECTION C – CULTURAL RESOURCES

| | <u>Category</u> | <u>Type</u> | <u>INDOT Approval Dates</u> | <u>N/A</u> |
|-----------------------------|--------------------------|--------------------------|-----------------------------|-------------------------------------|
| Minor Projects PA Clearance | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Eligible and/or Listed
Resource Present**

Results of Research

| | |
|------------------------|--------------------------|
| Archaeology | <input type="checkbox"/> |
| NRHP Buildings/Site(s) | <input type="checkbox"/> |
| NRHP District(s) | <input type="checkbox"/> |
| NRHP Bridge(s) | <input type="checkbox"/> |

Project Effect

No Historic Properties Affected No Adverse Effect Adverse Effect

**Documentation
Prepared**

Documentation (mark all that apply)

| | | |
|--|-------------------------------------|----------------------------------|
| | <u>ES/FHWA Approval Date(s)</u> | <u>SHPO Approval Date(s)</u> |
|--|-------------------------------------|----------------------------------|

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| | | | |
|--|--------------------------|--------------------------|--------------------------|
| Historic Properties Short Report | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Historic Property Report | X | August 2015 | September 10, 2015 |
| Archaeological Records Check/ Review | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Archaeological Phase Ia Survey Report | X | July 13, 2015 | September 10, 2015 |
| Archaeological Phase Ic Survey Report | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Archaeological Phase II Investigation Report | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Archaeological Phase III Data Recovery | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| APE, Eligibility and Effect Determination | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 800.11 Documentation | X | September 29, 2015 | <input type="checkbox"/> |

MOA Signature Dates (List all signatories)

Memorandum of Agreement (MOA)

Describe all efforts to document cultural resources, including a detailed summary of the Section 106 process, using the categories outlined in the remarks box. The completion of the Section 106 process requires that a Legal Notice be published in local newspapers. Please indicate the publication date, name of paper(s) and the comment period deadline. Likewise include any further Section 106 work which must be completed at a later date, such as mitigation or deep trenching.

Remarks:

Area of Potential Effect (APE): The area of potential effects (APE) for the proposed project was drawn to include the land that would be physically and visually impacted by the project. The APE has been determined as those areas of existing and proposed right of way and incidental construction, also including areas surrounding the project from which the intersection improvement would likely be visible.

The APE contains no properties considered eligible for the National Register of Historic Places.

Coordination with Consulting Parties: On August 6, 2015 , early coordination and the Historic Property Report (HPR) were uploaded and posted to INDOT’s Section 106 document posting website, IN SCOPE (<http://netservices.indot.in.gov/Section106Documents/Default.aspx>). Hard copies of the early coordination were mailed to the following consulting parties: Indiana State Historic Preservation Officer (IN SHPO), Indiana Landmarks Northern Regional Office, Porter County Historian, Historic Preservation of Porter County, Inc., Indiana Lincoln Highway Association, Kankakee Valley Historical Society, Westchester Township History Museum, and Porter County Commissioners.

SHPO responded that they agreed with the HPR and archaeological survey report. No other invited consulting party responded to the early coordination letter or IN SCOPE posting.

Archaeology: The project ROW south of US 20 and west of Waverly Road consisted of previously disturbed roadside and a very narrow strip of undisturbed land adjacent to residential and commercial properties. The undisturbed portion of this area was investigated by a single transect of shovel probes. No archaeological materials were encountered within the project area, and no additional investigation is recommended.

Historic Properties: The State and National Register listings for Porter County were checked. None of the listed Westchester Township are located in or near the proposed projects APE. No National Register listed or eligible properties were within the proposed project area.

Documentation, Findings: INDOT, acting on FHWA’s behalf, has determined a “No Historic Properties Affected” is appropriate for this undertaking because no properties eligible for the listing in the National Register are present within the area of potential effects.

Public Involvement: The section 106 documentation was placed in the Northwest Indiana Times newspaper on October 1, 2015 to give consulting parties and the public an opportunity to comment on the “No Historic Properties” finding. A 30-day comment period produced no dissenting comments regarding the finding for Section 106.

The Section 106 process has been completed and the responsibilities of the FHWA under Section 106 have been fulfilled.

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See Appendix E for all Section 106 documentation.

SECTION D – SECTION 4(f) RESOURCES/ SECTION 6(f) RESOURCES

Section 4(f) Involvement (mark all that apply)

Parks & Other Recreational Land

- Publicly owned park
- Publicly owned recreation area
- Other (school, state/national forest, bikeway, etc.)

Presence

| |
|--|
| |
| |
| |

Use

| Yes | No |
|-----|----|
| | |
| | |
| | |

Evaluations

Prepared

- Programmatic Section 4(f)*
- “De minimis” Impact*
- Individual Section 4(f)

| |
|--|
| |
| |
| |

FHWA
Approval date

| |
|--|
| |
|--|

Wildlife & Waterfowl Refuges

- National Wildlife Refuge
- National Natural Landmark
- State Wildlife Area
- State Nature Preserve

Presence

| |
|--|
| |
| |
| |
| |

Use

| Yes | No |
|-----|----|
| | |
| | |
| | |
| | |

Evaluations

Prepared

- Programmatic Section 4(f)*
- “De minimis” Impact*
- Individual Section 4(f)

| |
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FHWA
Approval date

| |
|--|
| |
|--|

Historic Properties

- Sites eligible and/or listed on the NRHP

Presence

| |
|--|
| |
|--|

Use

| Yes | No | | |
|--|----|---|---|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="height: 20px;"></td></tr> </table> | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">X</td></tr> </table> | X |
| | | | |
| X | | | |

Evaluations

Prepared

- Programmatic Section 4(f)*
- “De minimis” Impact*
- Individual Section 4(f)

| |
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| |
| |
| |

FHWA
Approval date

| |
|--|
| |
|--|

*FHWA approval of the environmental document also serves as approval of any Section 4f Programmatic and/or De minimis evaluation(s) discussed below.

Discuss Programmatic Section 4(f) and “de minimis” Section 4(f) impacts in the remarks box below. Individual Section 4(f) documentation must be separate Draft and Final documents. For further discussions on Programmatic, “de minimis” and Individual Section 4(f) evaluations please refer to the “Procedural Manual for the Preparation of Environmental Studies”. Discuss proposed alternatives that satisfy the requirements of Section 4(f).

Remarks:

There are no Section 4(f) in or near the project area; therefore, there will be no impacts to any Section 4(f) resources.

Indiana Department of Transportation

County Porter Route US 20 & Waverly Rd Des. No. 1006622

Section 6(f) Involvement

Presence

Use

Yes

No

Section 6(f) Property

Discuss proposed alternatives that satisfy the requirements of Section 6(f). Discuss any Section 6(f) involvement.

Remarks:

There are no Section 6(f) resources in or near the project area. No recreational properties, either acquired with or improved by the Land and Water Conservation Fund (LWCF) will be impacted by this project. The National Park Service (NPS) website was checked and no 6(f) properties are located within or near the project area. See Appendix K3.

SECTION E – Air Quality

Air Quality

Conformity Status of the Project

Is the project in an air quality non-attainment or maintenance area?

Yes

No

If YES, then:

Is the project in the most current MPO TIP?

Is the project exempt from conformity?

If the project is NOT exempt from conformity, then:

Is the project in the Transportation Plan (TP)?

Is a hot spot analysis required (CO/PM)?

Level of MSAT Analysis required?

Level 1a Level 1b Level 2 Level 3 Level 4 Level 5

Remarks:

This project is located in Porter County, which is currently a non-attainment area for 8-hour Ozone (O₃) and a maintenance area for particulate matter (PM_{2.5}). This project has been identified as being exempt from air quality analysis in accordance with 40 CFR 93.126 and this project is not a project of air quality concern(40 CFR 93.123) . It can therefore be concluded that the project will have no significant impact on air quality. The project's design, concept and scope are accurately reflected in the Northwestern Indiana Regional Planning Commission (NIRPC)Transportation Improvement Program (TIP) and conforms to the State Implementation Plan (SIP). Therefore, the conformity requirements of 40 CFR 93 have been met. This project is of a type qualifying as a categorical exclusion (Group 1) under 23 CFR 771.117(d), or exempt under the Clean Air Act conformity rule under 40 CFR 93.126, and as such, a Mobile Source Air Toxics analysis is not required. See Appendix G for STIP, TIP, and Nonattainment areas map.

SECTION F - NOISE

Noise

Yes

No

Is a noise analysis required in accordance with FHWA regulations and INDOT's traffic noise policy?

No

Yes/ Date

ES Review of Noise Analysis

Indiana Department of Transportation

County Porter Route US 20 & Waverly Rd Des. No. 1006622

Remarks: This project is a Type III project. In accordance with 23 CFR 772 and the INDOT Traffic Noise Policy this action does not require formal noise analysis.

SECTION G – COMMUNITY IMPACTS

Regional, Community & Neighborhood Factors

| | Yes | No |
|--|-------------------------------------|-------------------------------------|
| Will the proposed action comply with the local/regional development patterns for the area? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Will the proposed action result in substantial impacts to community cohesion? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Will the proposed action result in substantial impacts to local tax base or property values? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Will construction activities impact community events (festivals, fairs, etc.)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the community have an approved transition plan? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| If No, are steps being made to advance the community's transition plan? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the project comply with the transition plan? (explain in the remarks box) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Remarks: Inconvenience associated with construction such as increased travel times, possible utility interruptions, vehicular operating costs, construction noise, and fugitive dust should be expected. These impacts will be temporary and cease upon completion of the project. No substantial economic impacts are anticipated for the proposed project. No impacts to the local tax base and property values are anticipated.

Indirect and Cumulative Impacts

| | Yes | No |
|--|--------------------------|-------------------------------------|
| Will the proposed action result in substantial indirect or cumulative impacts? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Remarks: The project is not likely to result in substantial indirect and cumulative impacts. If the scope of the project changes the INDOT - La Porte District Environmental Section will be notified immediately and the necessary environmental investigations will be performed. Additional mitigation features will be determined and included as necessary.

Public Facilities & Services

| | Yes | No |
|--|--------------------------|-------------------------------------|
| Will the proposed action result in substantial impacts on health and educational facilities, public and private utilities, emergency services, religious institutions, airports, public transportation or pedestrian and bicycle facilities? <i>Discuss how the maintenance of traffic will affect public facilities and services.</i> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Remarks: This project will not have substantial impacts to any public facilities and services. Traffic will be maintained on the existing pavement during construction with the use of barrels to delineate the edge where pavement widening is taking place. One lane of traffic may be closed in each direction during construction.

Environmental Justice (EJ) (Presidential EO 12898)

| | Yes | No |
|--|-------------------------------------|-------------------------------------|
| During the development of the project were EJ issues identified? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the project require an EJ analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If YES, then: | | |
| Are any EJ populations located within the project area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Will the project result in adversely high or disproportionate impacts to EJ populations? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Remarks: Per the INDOT Procedural Manual for Preparing Environmental Studies, an Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 acre of additional permanent ROW. The project will require approximately 0.69 acres of permanent ROW. Therefore, an EJ Analysis is required.

Potential EJ impacts are detected by locating minority and low-income populations relative to a reference population to

Indiana Department of Transportation

County Porter Route US 20 & Waverly Rd Des. No. 1006622

determine if populations of EJ concern do, in fact, exist and, if so, determining whether there could be disproportionate and adverse impacts to them. The reference population may be a county, city or town and is called the community of comparison (COC). In this project, the COC is (Porter County, Indiana). The community that overlaps the project limits is called the affected community (AC). In this project, the AC is Census Tract 503 and 502.3. These Census Tracts are located within Westchester Township (See Appendix J2 for township map). Westchester Township was used as the AC for the low-income table. An AC has a population of concern for environmental justice if the population is more than 50% minority or low-income or if the low-income or minority population is 125% of the COC.

Data from the 2010 Census Summary File and 2009-2013 American Community Survey (ACS) 5-Year Estimates was obtained from the US Census Bureau Website (<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>) on November 25, 2015 by INDOT Environmental Services. The data collected for minority and low-income populations within the AC was then utilized to determine their percentages relative to the COC (Refer to Table 1, Table 2, and Table 3). See Appendix J3-J10 for data information.

Table 1: Minority Data for Census Tract 502.3 (2010 Census Summary)

| | COC | AC-M1 |
|---|------------------------|--|
| | Porter County, Indiana | Census Tract 502.03, Porter County, Indiana |
| Total Population | 164,343 | 6,659 |
| Number Non-white/minority | 28,230 | 771 |
| Percent Non-white/minority | 17.2% | 11.6% |
| 125 Percent of COC | 21.5% | AC<125% COC |
| Minority Population of EJ Concern? | | No |

The Census Tract 502.03 AC has a minority percent of 11.6%, which is below 50% and is below the 125% COC threshold. Therefore, AC-M1, does not contain a minority population of EJ concern.

Table 2: Minority Data for Census Tract 503 (2010 Census Summary)

| | COC | AC-M2 |
|---|------------------------|---|
| | Porter County, Indiana | Census Tract 503, Porter County, Indiana |
| Total Population | 164,343 | 6,483 |
| Number Non-white/minority | 28,230 | 837 |
| Percent Non-white/minority | 17.2% | 12.9% |
| 125 Percent of COC | 21.5% | AC<125% COC |
| Minority Population of EJ Concern? | | No |

The Census Tract 503 AC has a minority percent of 12.9%, which is below 50% and is below the 125% COC threshold. Therefore, AC-M2, does not contain a minority population of EJ concern.

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Table3: Low-Income for Westchester Township (2009-2013 ACS Estimates)

| | COC | AC-L1 |
|--|------------------------|--|
| | Porter County, Indiana | Westchester Township: Census Tract 502.02, 502.03, 503 & 9800.02 Porter County, Indiana |
| Total Population | 161,397 | 19,414 |
| Income in the past 12 months is below | 16,752 | 2,240 |
| Percent Low-income | 10.4% | 11.5% |
| 125 Percent of COC | 12.9% | AC<125% COC |
| Minority Population of EJ Concern? | | No |

The Westchester Township (which contains the two Census Tracts within the project area: 502.03 and 503) AC has a low-income percent of 11.5%, which is below 50% and is below the 125% COC threshold. Therefore, AC-L1, does not contain a low-income population of EJ concern.

No minority or low-income populations have been identified that would be adversely impacted by the proposed project as determined above. Therefore, in accordance with the provisions of E.O. 12898 and FHWA Order 6640.23, no further EJ analysis is required. See Appendix J for all Environmental Justice Documentation.

Relocation of People, Businesses or Farms

Will the proposed action result in the relocation of people, businesses or farms?
 Is a Business Information Survey (BIS) required?
 Is a Conceptual Stage Relocation Study (CSRS) required?
 Has utility relocation coordination been initiated for this project?

| Yes | No |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Number of relocations: Residences: 0 Businesses: 0 Farms: 0 Other: 0

If a BIS or CSRS is required, discuss the results in the remarks box.

Remarks:

Utility coordination has been initiated for this project. This project will not require the relocation of people, businesses or farms.

SECTION H – HAZARDOUS MATERIALS & REGULATED SUBSTANCES

Documentation

Hazardous Materials & Regulated Substances (Mark all that apply)

Red Flag Investigation
 Phase I Environmental Site Assessment (Phase I ESA)
 Phase II Environmental Site Assessment (Phase II ESA)
 Design/Specifications for Remediation required?

No Yes/ Date

| | | |
|------------------------------------|--|----------------|
| ES Review of Investigations | | April 25, 2014 |
|------------------------------------|--|----------------|

Include a summary of findings for each investigation.

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Remarks: A red flag investigation was conducted on April 25, 2014 by INDOT Environmental Services. Two hazardous materials were identified near the project area. One Leaking Underground Storage Tank (LUST) was identified at the gas station at the northeast corner of US 20. This LUST, owned by Reese Holdings III LLC, was issued a "No Further Action Determination" on September 11, 2006. One Underground Storage Tank (UST) was identified near the project area. This UST, owned by Pinkerton Oil, was inspected on May 28, 2014 and passed the compliance inspection. No further investigation is needed concerning hazardous materials. See Appendix D for Red Flag Investigation.

SECTION I – PERMITS CHECKLIST

| Permits (mark all that apply) | <u>Likely Required</u> |
|---|-------------------------------------|
| Army Corps of Engineers (404/Section10 Permit) | |
| Individual Permit (IP) | <input type="checkbox"/> |
| Nationwide Permit (NWP) | <input type="checkbox"/> |
| Regional General Permit (RGP) | <input checked="" type="checkbox"/> |
| Pre-Construction Notification (PCN) | <input type="checkbox"/> |
| Other | <input type="checkbox"/> |
| Wetland Mitigation required | <input type="checkbox"/> |
| Stream Mitigation required | <input type="checkbox"/> |
| IDEM | |
| Section 401 WQC | <input checked="" type="checkbox"/> |
| Isolated Wetlands determination | <input type="checkbox"/> |
| Rule 5 | <input checked="" type="checkbox"/> |
| Other | <input type="checkbox"/> |
| Wetland Mitigation required | <input type="checkbox"/> |
| Stream Mitigation required | <input type="checkbox"/> |
| IDNR | |
| Construction in a Floodway | <input type="checkbox"/> |
| Navigable Waterway Permit | <input type="checkbox"/> |
| Lake Preservation Permit | <input type="checkbox"/> |
| Other | <input type="checkbox"/> |
| Mitigation Required | <input type="checkbox"/> |
| US Coast Guard Section 9 Bridge Permit | <input type="checkbox"/> |
| Others (Please discuss in the remarks box below) | <input type="checkbox"/> |

Remarks: Permits will be required for this project. It will be the responsibility of the designer to submit plans to INDOT Environmental Services to process all necessary permits. It is anticipated that a 401/404 waterway permit will be required due to the wetland within the project area. Since work is taking place within the wetland, it is possible that wetland mitigation might be required. A rule 5 is also anticipated since there will be over 1 acre of disturbance. All appropriate permits must be obtained prior to construction.

SECTION J- ENVIRONMENTAL COMMITMENTS

The following information should be provided below: List all commitments, name of agency/organization requesting the commitment(s), and indicating which are firm and which are for further consideration. The commitments should be numbered.

Remarks:

1. If the scope of work or ROW amounts change, INDOT-Laporte District Environmental Section should be contacted immediately. **INDOT, Firm**
2. If any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving

Indiana Department of Transportation

County Porter Route US 20 & Waverly Rd Des. No. 1006622

activities, state law (Indiana Code 14-21-1-27 and -29) requires that the discovery be reported to the Department of Natural Resources 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 -29 does not obviate the need to adhere to applicable federal statutes and regulations.

Firm INDOT

3. If any potential hazardous materials are discovered during construction the IDEM Spill Line should be notified with details of the discovery within 24 hours. INDOT Environmental Services, Hazardous Materials Unit should then be contacted to organize the proper handling of the material to be in accordance with the IDEM guidelines. **Firm INDOT**

4. All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. Remove all broken concrete and construction debris upon completion of the project. **Firm INDOT**

5. Install silt fence or other erosion control measures around the perimeter of any wetlands and/or other waterbodies to remain undisturbed at the project site **INDOT Firm**

6. All appropriate permits must be obtained before construction may begin. **INDOT Firm**

7. Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on the area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees) **IDNR Firm**

8. Plant five native trees, at least 2 inches in diameter-at-breast height, for each tree which is removed that is ten inches or greater in diameter-at-breast height. **IDNR Firm**

9. Do not cut any trees suitable for Indiana bat roosting (greater than 3 inches dbh, living or dead, with loose hanging bark) from April 1 through September 30. **IDNR Firm**

10. Revegetate all bare and disturbed areas with a mixture of grasses (excluding all varieties of tall fescue), legumes and native shrub and hardwood tree species as soon as possible upon completion **IDNR For Consideration**

11. Minimize and contain within the project limits in-channel disturbance and the clearing of trees and brush **IDNR For Consideration**

12. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized. **IDNR For Consideration**

13. Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. Dirt tracked onto paved roads from unpaved areas should be minimized. **IDEM For Consideration**

SECTION K- EARLY COORDINATION

Please list the date coordination was sent and all agencies that were contacted as a part of the development of this Environmental Study. Also, include the date of their response or indicate that no response was received. INDOT and FHWA are automatically considered early coordination participants and should only be listed if a response is received.

Remarks:

Early coordination was initiated on March 23, 2015 with applicable federal, state, and local agencies. Review comments from those agencies that returned a reply have been incorporated into this study as appropriate. The agencies contacted and the date on which they replied is identified below.

| Agency | Response Received | Appendix Page |
|---|-------------------|---------------|
| Indiana Geological Survey | May 6, 2015 | C27 |
| Natural Resources Conservation Service | April 1, 2015 | C14 |
| Indiana Department of Natural Resources | March 23, 2015 | C12-13 |
| U.S. Army Corp of Engineers, Chicago District | No Response | |
| Indiana Department of Environmental Management, Auto Response | May 23, 2015 | C17-26 |
| U.S. Fish and Wildlife Services | March 30, 2015 | C15-16 |



INDIANA DEPARTMENT OF TRANSPORTATION LAPORTE DISTRICT

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INDIANA DEPARTMENT OF TRANSPORTATION
LAPORTE DISTRICT

Appendix A
INDOT Supporting Documentation

Categorical Exclusion Level Thresholds

| | Level 1 | Level 2 | Level 3 | Level 4 |
|--|--|---|----------------------------------|--|
| Relocations | None | ≤ 2 | > 2 | > 10 |
| Right-of-Way¹ | < 0.5 acre | < 10 acres | ≥ 10 acres | ≥ 10 acres |
| Length of Added Through Lane | None | None | Any | Any |
| Permanent Traffic Pattern Alteration | None | None | Yes | Yes |
| New Alignment | None | None | < 1 mile | ≥ 1 mile ² |
| Wetlands | < 0.1 acre | < 1 acre | < 1 acre | ≥ 1 acre |
| Stream Impacts* | ≤ 300 linear feet of stream impacts, no work beyond 75 feet from pavement | > 300 linear feet impacts, or work beyond 75 feet from pavement | N/A | N/A |
| Section 4(f) | None | None | None | Any impacts |
| Section 6(f) | None | None | Any impacts | Any impacts |
| Section 106* | "No Historic Properties Affected" or falls within guidelines of Minor Projects PA | "No Adverse Effect" or "Adverse Effect" | N/A | If ACHP involved Or Historic Bridge Involvement ⁷ |
| Noise Analysis Required | No | No | Yes ³ | Yes ³ |
| Threatened/Endangered Species | "Not likely to Adversely Affect", or Falls within Guidelines of USFWS 9/8/93 Programmatic Response | N/A | N/A | "Likely to Adversely Affect" ⁴ |
| Sole Source Aquifer Groundwater Assessment | Detailed Assessment Not Required | Detailed Assessment Not Required | Detailed Assessment Not Required | Detailed Assessment Required |
| Approval Level • ESM ⁵ • ES ⁶ • FHWA | Yes | Yes | Yes Yes | Yes Yes Yes |

*These thresholds have changed from the March 2011 Manual.

¹Permanent and/or temporary right-of-way.

²If the length of the new alignment is equal to or greater than one mile, contact the FHWA's Air Quality/Environmental Specialist.

³In accordance with INDOT's Noise Policy.

⁴If the project is considered Likely to Adversely Affect Threatened and/or Endangered Species, INDOT and the FHWA should be consulted to determine whether a higher class of document is warranted.

⁵Environmental Scoping Manager

⁶Environmental Services Division

⁷Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement



INDIANA DEPARTMENT OF TRANSPORTATION
LAPORTE DISTRICT

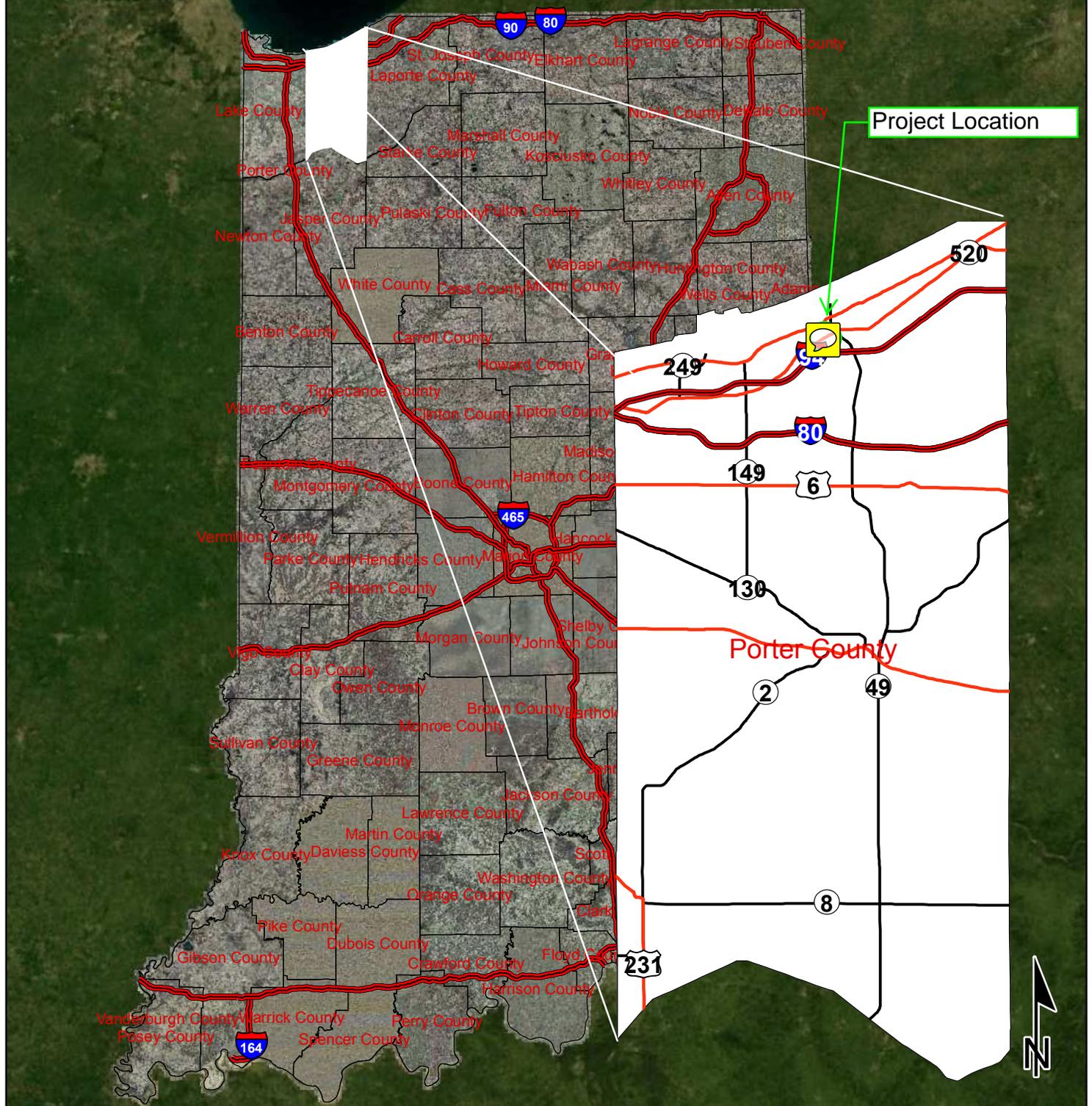
Appendix B
Graphics

Site Location

US 20, & Waverly Rd

DES 1006622, Other Intersection Improvement

Porter County, IN



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

Sources: Non Orthophotography

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

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

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

Scale 1:2,244,201 Miles
 30 15 0 30

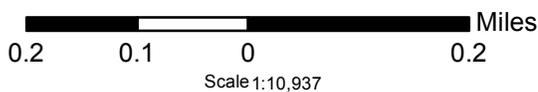
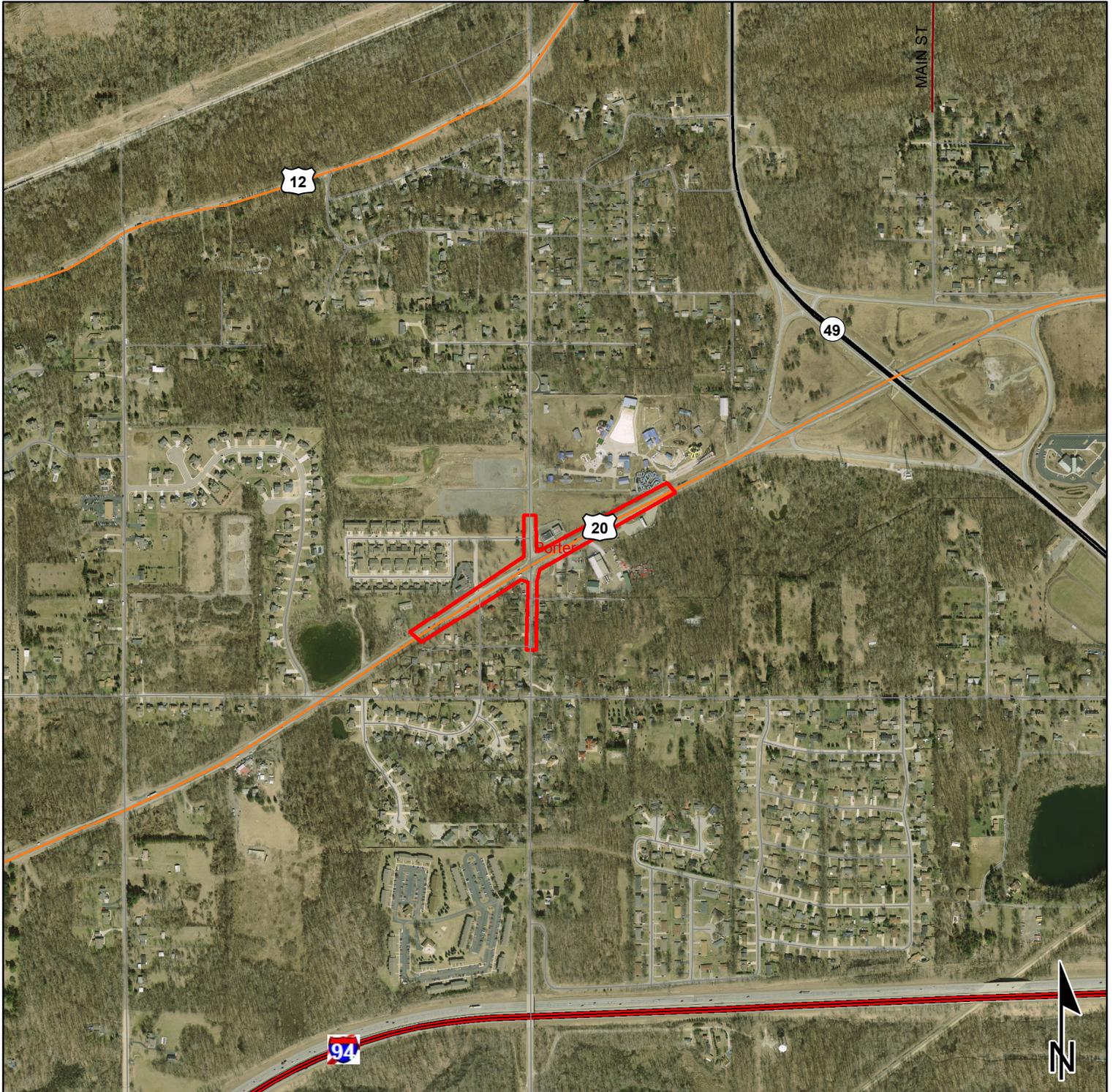


Project Location

US 20, & Waverly Rd

Des No. 1006622, Other Intersection Improvement

Porter County, Indiana

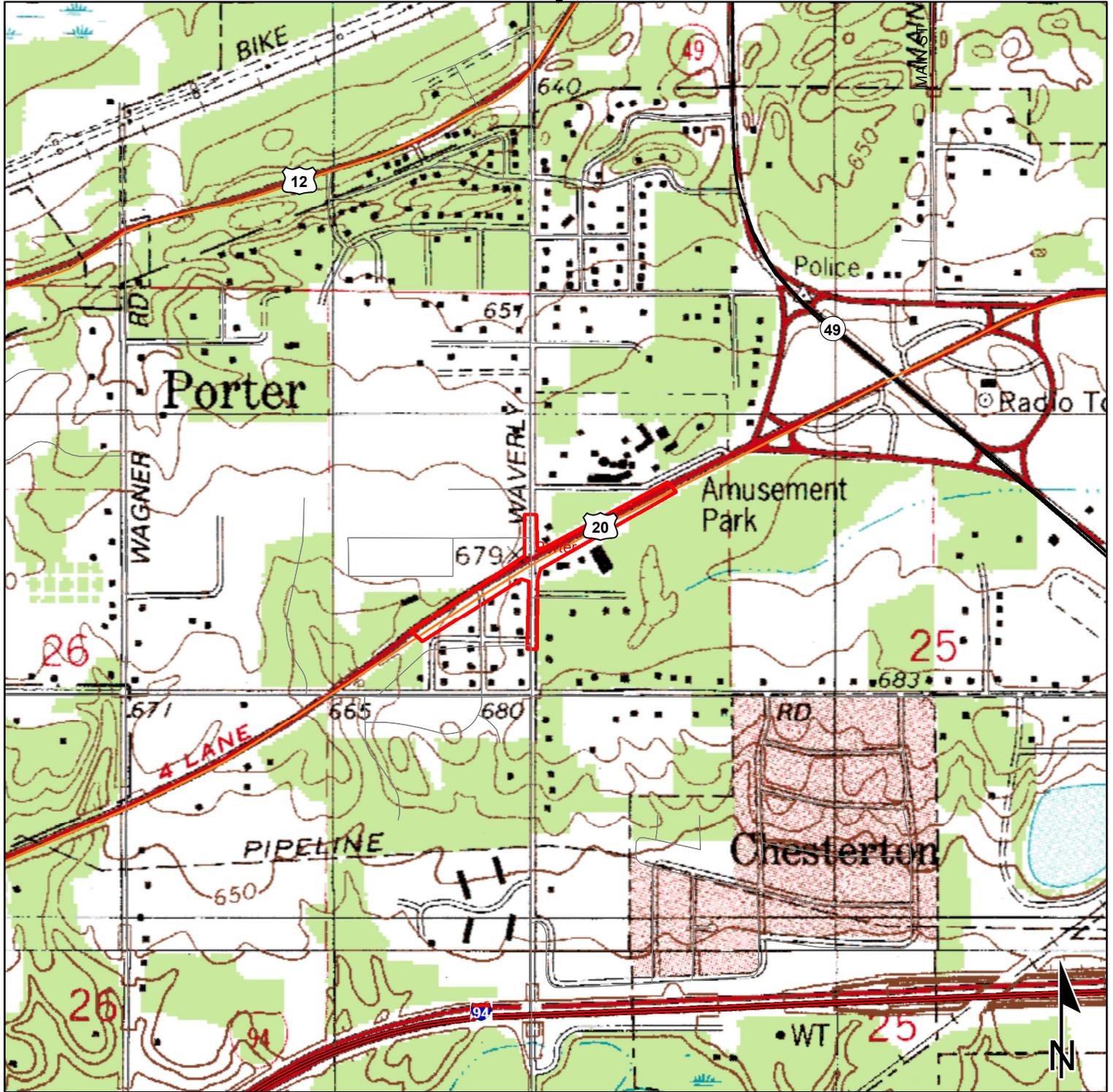


Sources: **Non Orthophotography**
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

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



Topographic Map US 20, & Waverly Rd Des No. 1006622, Intersection Improvement Porter 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.





INDIANA DEPARTMENT OF TRANSPORTATION
LAPORTE DISTRICT

Appendix C
Early Coordination



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

LaPorte District
315 East Boyd Boulevard, P.O. Box 429
LaPorte, Indiana 46350, 46352 (219) 362-6125 FAX: (219) 325-7516

The following agencies received Early Coordination Letters:

Environmental Coordinator
Indiana Department of Natural Resources
Division of Fish and Wildlife
Room W264, IGC South
402 West Washington Street
Indianapolis, IN 46204
Online Coordination:
environmentalreview@dnr.in.gov

State Conservationist
Natural Resource Conservation Service
6013 Lakeside Boulevard
Indianapolis, IN 46278

U.S. Fish & Wildlife Service
Northern Indiana Suboffice
P.O. Box 2616
Chesterton, IN 46304
Online Coordination:
elizabeth_mccloskey@fws.gov

Indiana Department of Environmental Management
Automatic Website Early Coordination
http://www.in.gov/idem/enviroreview/hwy_earlyenviroreview.html

Indiana Geological Survey
611 North Walnut Grove
Bloomington, IN 47405
Online Coordination:
IGSenvir@indiana.edu

Chicago District, U.S. Army Corps of Engineers
231 S. LaSalle Street #1500
Chicago, IL 60604



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

March 23, 2015

Re: Des. No. 1006622
Other Intersection Improvement, US 20 & Waverly Road
Porter County, Indiana

Scour and patching of piers
To Whom It May Concern:

The Indiana Department of Transportation intends to proceed with the aforementioned project. This letter is part of the early coordination phase of the environmental review process, in which we are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. **Please use the above designation number and description in your reply.** We will incorporate your comments into a study of this project's environmental impacts.

This project is needed to improve traffic flow and safety at this intersection. This intersection has a large number of rear end accidents due to traffic waiting to turn left from US 20.

This project involves widening the pavement on US 20 and adding a left turn lane Eastbound and Westbound. This would provide additional storage length and allow for a shorter signal by eliminating split phasing and increasing safety.

Two additional alternatives were considered:

- 1) Do no work on the structure.
- 2) Roundabout

Alternative 1 is not recommended because it does not address the structural deficiencies of the bridge.

Alternative 2 would be to install a multi-lane roundabout at the intersection. The existing lane configuration on US 20 would require a two lane roundabout. This alternative is not recommended because it is the most expensive alternative and would have greater impacts to the environment. Also the proximity of the existing interchange at SR 49 would need to be modified.

No new permanent right-of-way is required. However, re-acquired permanent right-of way is anticipated.

Please respond with your comments on any environmental impacts that may be incurred as a result of this project so that an environmental report can be prepared. We also welcome your related opinions and other input for consideration in the preparation of the environmental document. If we do not receive your response

within **thirty (30) days**, it will be assumed that your agency or organization feels that there will be no significant effects as a result of this project or you do not wish to offer opinions concerning this project. However, should you find that an extension to respond is required; a reasonable amount of time will be granted upon request. If you have any questions regarding this matter, please contact Lisa Hutcheson at (219) 325-7439.

Thank you in advance for your input.

Attachments: Aerial Maps
 Topographic Map
 Photographs

Sincerely,

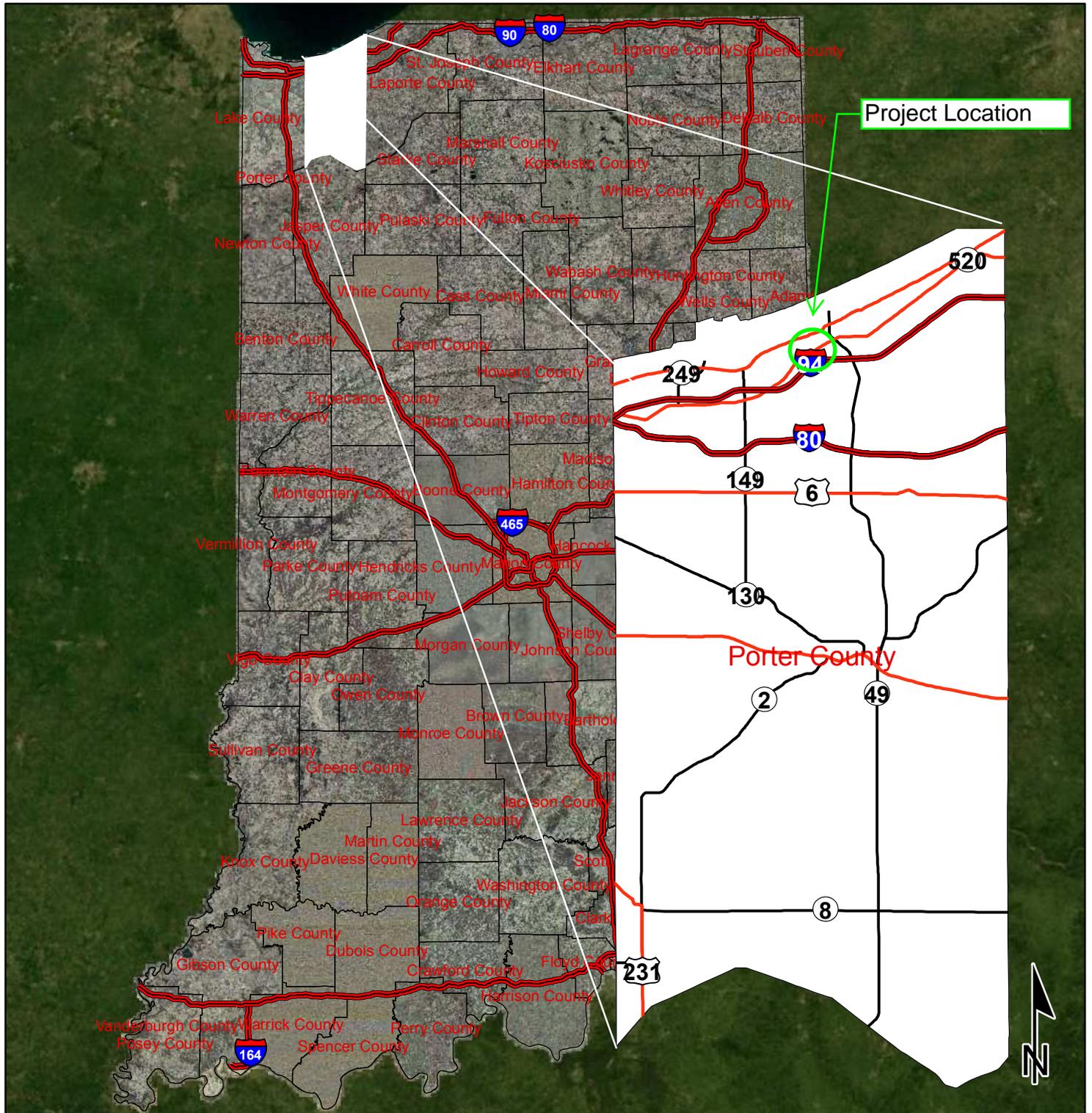
Lisa Hutcheson
Capital Program Management
Northwest District, INDOT
Lhutcheson@indot.in.gov

Site Location

US 20, intersection with Waverly Rd.

DES 1006622, Other Intersection Improvement

Porter County, IN



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

Sources: Non Orthophotography

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

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

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

Scale 1:2,244,201 Miles
 30 15 0 30



Waters of the U.S. Determination - Water Resources

US 20 & Waverly Rd. Intersection

Porter County, Indiana

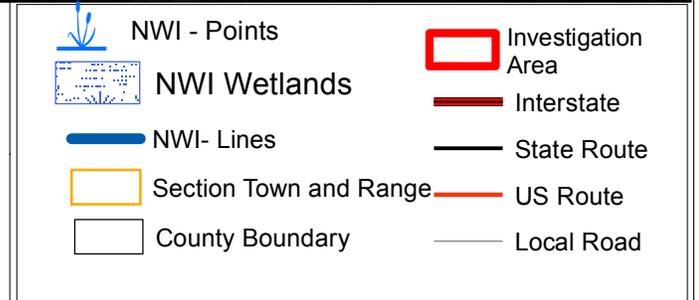
Des.No 1006622, Other Intersection Improvement



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.

C5

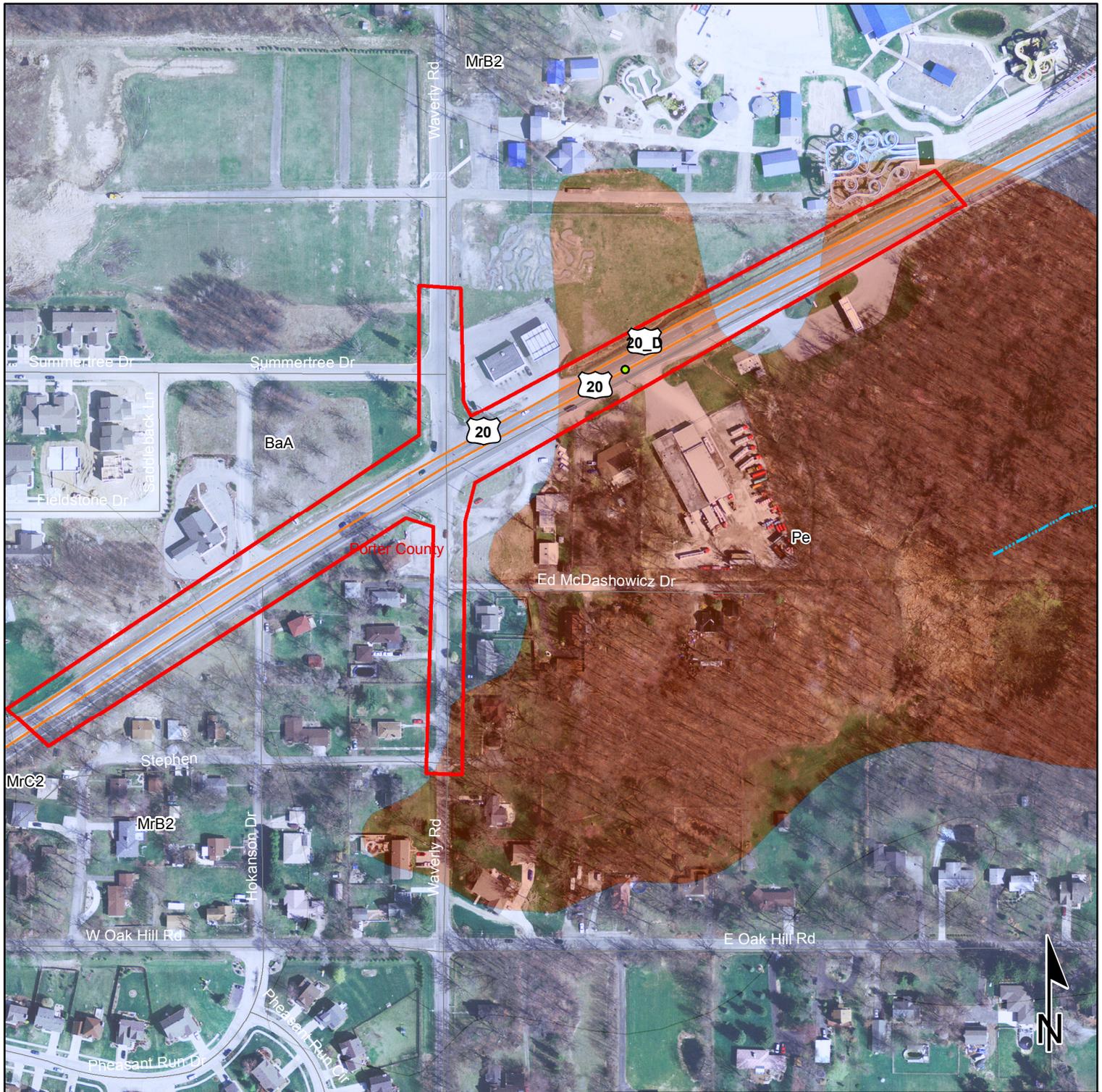


Waters of the U.S. Determination - NRCS Soils

US 20 & Waverly Rd. Intersection

Porter County, Indiana

Des.No 1006622, Other Intersection Improvement

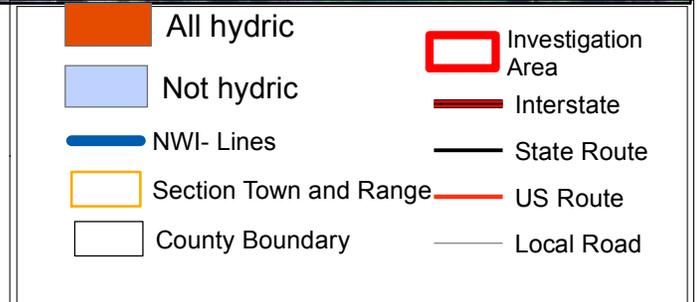


0 0.0150.03 0.06 0.09 0.12 Miles

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

C6

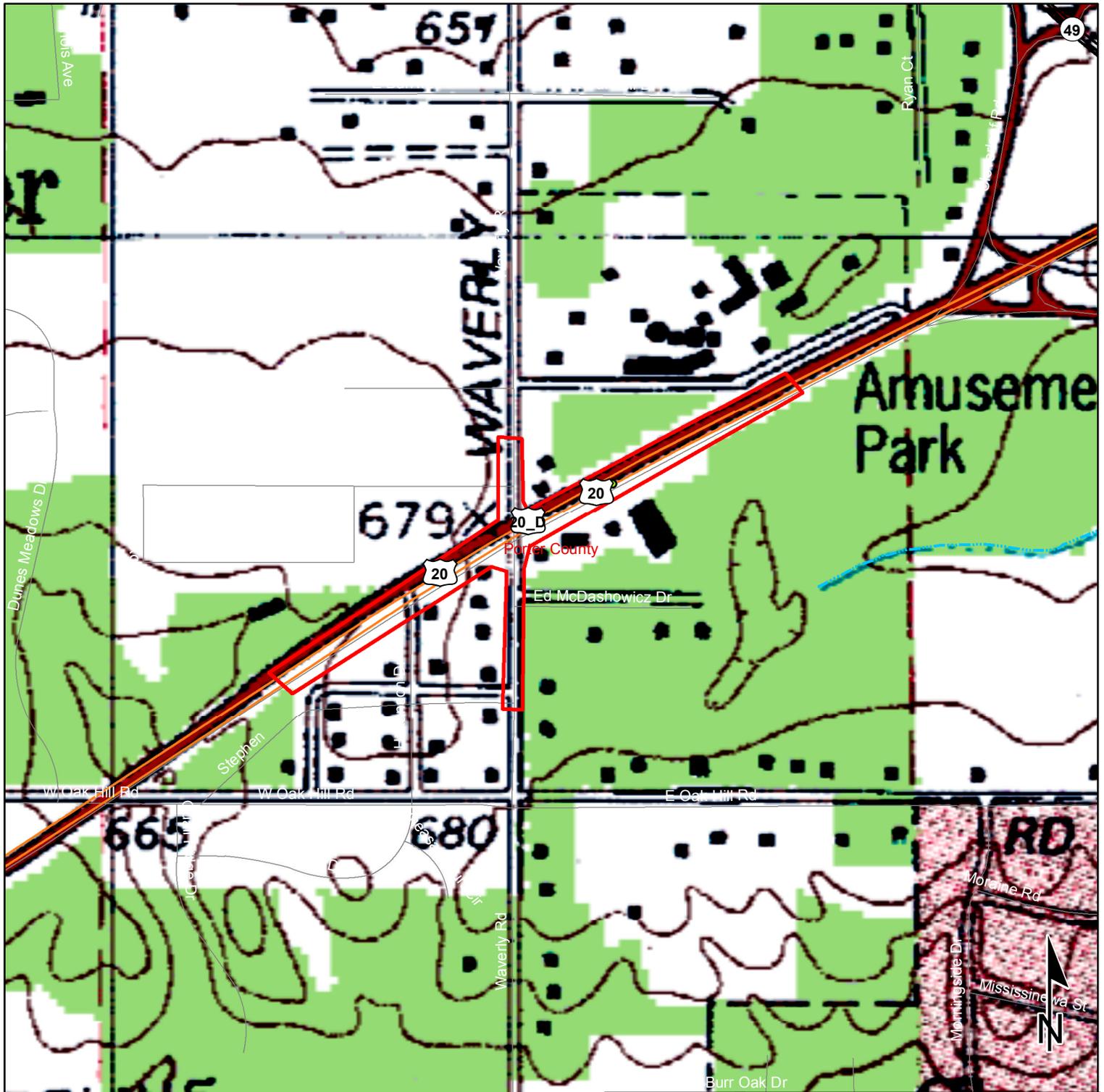


Waters of the U.S. Determination - Topo

US 20 & Waverly Rd. Intersection

Porter County, Indiana

Des.No 1006622, Other Intersection Improvement

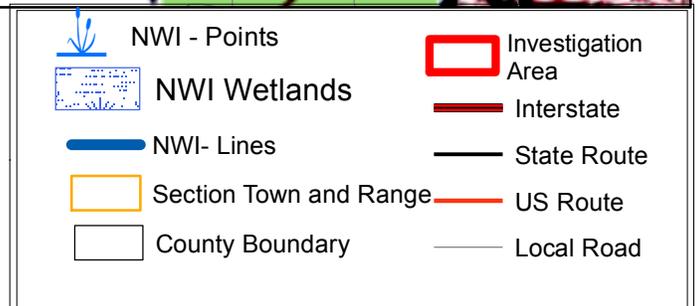


0 0.025 0.05 0.1 0.15 0.2 Miles

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

C7





(39) Waverly Rd, Facing South



(40) Waverly Rd, Facing North



(41) US 20, Facing West



(42) US 20, Facing East

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

DNR #: ER-18217

Request Received: March 23, 2015

Requestor: Indiana Department of Transportation
LaPorte District
Lisa Hutcheson
315 East Boyd Boulevard
PO Box 429
LaPorte, IN 46350

Project: US 20 and Waverly Road intersection improvement; widening the pavement on US 20 and adding eastbound and westbound left turn lanes; Des #1006622

County/Site info: Porter

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

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

Regulatory Assessment: Formal approval by the Department of Natural Resources under the regulatory programs administered by the Division of Water is not required for this project.

Natural Heritage Database: The Natural Heritage Program's data have been checked. To date, no plant or animal species listed as state or federally threatened, endangered, or rare have been reported to occur in the project vicinity.

Fish & Wildlife Comments: We recommend a mitigation plan be developed if habitat impacts will occur. The DNR's Floodway Habitat Mitigation guidelines (and plant lists) can be found online at: <http://www.in.gov/legislative/iac/20140806-IR-312140295NRA.xml.pdf>.

Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees).

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

1. Revegetate all bare and disturbed areas with a mixture of grasses (excluding all varieties of tall fescue) and legumes as soon as possible upon completion; low endophyte tall fescue may be used in the ditch bottom and side slopes only.
2. Minimize and contain within the project limits all tree and brush clearing.
3. Do not cut any trees suitable for Indiana bat roosting (greater than 3 inches dbh, living or dead, with loose hanging bark) from April 1 through September 30.
4. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
5. Plant five native trees, at least 2 inches in diameter-at-breast height, for each tree which is removed that is ten inches or greater in diameter-at-breast height.

THIS IS NOT A PERMIT

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

Contact Staff:

Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife
Our agency appreciates this opportunity to be of service. Please contact the above
staff member at (317) 232-4080 if we can be of further assistance.



Date: April 22, 2015

Christie L. Stanifer
Environ. Coordinator
Division of Fish and Wildlife

April 1, 2015

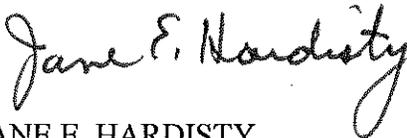
Lisa Hutcheson
Capital Program Management
Northwest District – INDOT
315 East Boyd Boulevard
P.O. Box 429
LaPorte, Indiana 46352

Dear Ms. Hutcheson:

The proposed project to make intersection improvements at US 20 and Waverly Road in Porter County, Indiana, as referred to in your letter received March 30, 2015, will not cause a conversion of prime farmland.

If you need additional information, please contact Rick Neilson at 317-295-5875.

Sincerely,



JANE E. HARDISTY
State Conservationist

Helping People Help the Land.



USDA is an equal opportunity provider and employer.



United States Department of the Interior

Fish and Wildlife Service



Bloomington Field Office (ES)
620 South Walker Street
Bloomington, IN 47403-2121
Phone: (812) 334-4261 Fax: (812) 334-4273

March 30, 2015

Ms. Lisa Hutcheson
Northwest District, INDOT
315 East Boyd Boulevard
LaPorte, Indiana 46350

Project No.: Des. 1006622
Project: Intersection Improvements US 20 and Waverly Road
Location: Porter, Porter County

Dear Ms. Hutcheson:

This responds to your letter dated March 23, 2015, requesting our comments on the aforementioned project.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (16 U.S.C. 661 et. seq.) and are consistent with the intent of the National Environmental Policy Act of 1969, the Endangered Species Act of 1973, and the U. S. Fish and Wildlife Service's Mitigation Policy.

The proposed project will have no effect on wetlands or other significant habitat types. Project impacts are expected to be minor in nature. Based on a review of the information you provided, the U.S. Fish and Wildlife Service has no objections to the project as currently proposed. This precludes the need for further consultation on this project as required under Section 7 of the Endangered Species Act of 1973, as amended. However, should new information arise pertaining to project plans or a revised list be published, it will be necessary for the Federal agency to reinitiate consultation.

We appreciate the opportunity to comment at this early stage of project planning. If project plans change such that fish and wildlife habitat may be affected, please recoordinate with our office as soon as possible. If you have any questions, please contact Elizabeth McCloskey at (219) 983-9753 or elizabeth_mccloskey@fws.gov.

Sincerely yours,

/s/ Elizabeth S. McCloskey

For Scott E. Pruitt
Supervisor

Sent via email March 30, 2015; no hard copy to follow.

cc: Federal Highway Administration, Indianapolis, IN
Christie Stanifer, Environmental Coordinator, Division of Fish and Wildlife, Indianapolis, IN

[IDEM](#) > Environmental Review Letter



Indiana Department of Environmental Management

We make Indiana a cleaner, healthier place to live.

Mike Pence
Governor

100 North Senate
Avenue
Indianapolis , Indiana
46206

Thomas W. Easterly
Commissioner

(317) 232-8603
800) 451-6027
www.IN.gov/idem

INDOT
Lisa Hutcheson
315 E. Boyd Blvd.
La Porte , IN 46350

, IN

Date

Dear Grant Administrator or Other Finance Approval Authority:

RE: Des. No. 1006622- Other Intersection Improvement, US 20 & Waverly Road in Porter County, Indiana This project involves widening the pavement on US 20 and adding a left turn land Eastbound and Westbound. This would provide additional storage length and allow for shorter signal by eliminating split phasing and increase safety.

The Indiana Department of Environmental Management (IDEM) is aware that many local government or not-for-profit entities are seeking grant monies, a bond issuance, or another public funding mechanism to cover some portion of the cost of a public works, infrastructure, or community development project. IDEM also is aware that in order to be eligible for such funding assistance, applicants are required to first evaluate the potential impacts that their particular project may have on the environment. In order to assist applicants seeking such financial assistance and to ensure that such projects do not have an adverse impact on the environment, IDEM has prepared the following list of environmental issues that each applicant must consider in order to minimize environmental impacts in compliance with all relevant state laws.

IDEM recommends that each applicant consider the following issues when moving forward with their project. IDEM also requests that, in addition to submitting the information requested above, each applicant also sign the attached certification, attesting to the fact that they have read the letter in its entirety, agree to abide by the recommendations of the letter, and to apply for any permits required from IDEM for the completion of their project.

IDEM recommends that any person(s) intending to complete a public works, infrastructure, or community development project using any public funding consider each of the following applicable recommendations and requirements:

WATER AND BIOTIC QUALITY

1. Section 404 of the Clean Water Act requires that you obtain a permit from the U.S. Army Corps of Engineers (USACE) before discharging dredged or fill materials into any wetlands or other waters, such as rivers, lakes, streams, and ditches. Other activities regulated include the relocation, channelization, widening, or other such alteration of a stream, and the mechanical clearing (use of heavy construction equipment) of wetlands. Thus, as a project owner or sponsor, it is your responsibility to ensure that no wetlands are disturbed without the proper permit. Although you may initially refer to the U.S. Fish and Wildlife Service National Wetland Inventory maps as a means of identifying potential areas of concern, please be mindful that those maps do not depict jurisdictional wetlands regulated by the USACE or the Department of Environmental Management. A valid jurisdictional wetlands determination can only be made by the USACE, using the 1987 Wetland Delineation Manual.

USACE recommends that you have a consultant check to determine whether your project will abut, or lie within, a wetland area. To view

a list of consultants that have requested to be included on a list posted by the USACE on their Web site, see USACE [Permits and Public Notices](http://www.lrl.usace.army.mil/orf/default.asp) (<http://www.lrl.usace.army.mil/orf/default.asp>) and then click on "Information" from the menu on the right-hand side of that page. Their "Consultant List" is the fourth entry down on the "Information" page. Please note that the USACE posts all consultants that request to appear on the list, and that inclusion of any particular consultant on the list does not represent an endorsement of that consultant by the USACE, or by IDEM.

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Elkhart, LaGrange, Steuben, and Dekalb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is served by the USACE District Office in Detroit (313-226-6812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciusko, and Wells counties; smaller portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and all other Indiana counties located in north-central, central, and southern Indiana) are served by the USACE Louisville District Office (502-315-6733).

Additional information on contacting these U.S. Army Corps of Engineers (USACE) District Offices, government agencies with jurisdiction over wetlands, and other water quality issues, can be found at <http://www.in.gov/idem/4396.htm>. IDEM recommends that impacts to wetlands and other water resources be avoided to the fullest extent.

2. In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality. To learn more about the water quality certification program, visit: <http://www.in.gov/idem/4384.htm>.
3. If the USACE determines that a wetland or other body of water is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana . A state isolated wetland permit from IDEM's Office of Water Quality is required for any activity that results in the discharge of dredged or fill materials into isolated wetlands. To learn more about isolated wetlands, contact the Office of Water Quality at 317-233-8488.
4. If your project will impact more than 0.5 acres of wetland, stream relocation, or other large-scale alterations to bodies of water such as the creation of a dam or a water diversion, you should seek additional input from the Office of Water Quality, Wetlands staff at

317-233-8488.

5. Work within the one-hundred year floodway of a given body of water is regulated by the Department of Natural Resources, Division of Water. Contact this agency at 317-232-4160 for further information.
6. The physical disturbance of the stream and riparian vegetation, especially large trees overhanging any affected water bodies should be limited to only that which is absolutely necessary to complete the project. The shade provided by the large overhanging trees helps maintain proper stream temperatures and dissolved oxygen for aquatic life.
7. For projects involving construction activity (which includes clearing, grading, excavation and other land disturbing activities) that result in the disturbance of one (1), or more, acres of total land area, contact the Office of Water Quality – Watershed Planning Branch (317/233-1864) regarding the need for of a Rule 5 Storm Water Runoff Permit. Visit the following Web page
 - <http://www.in.gov/idem/4902.htm>

To obtain, and operate under, a Rule 5 permit you will first need to develop a Construction Plan (<http://www.in.gov/idem/4917.htm#constreq>), and as described in 327 IAC 15-5-6.5 (<http://www.in.gov/legislative/iac/T03270/A00150> [PDF], pages 16 through 19). Before you may apply for a Rule 5 Permit, or begin construction, you must submit your Construction Plan to your county Soil and Water Conservation District (SWCD) (<http://www.in.gov/isda/soil/contacts/map.html>).

Upon receipt of the construction plan, personnel of the SWCD or the Indiana Department of Environmental Management will review the plan to determine if it meets the requirements of 327 IAC 15-5. Plans that are deemed deficient will require re-submittal. If the plan is sufficient you will be notified and instructed to submit the verification to IDEM as part of the Rule 5 Notice of Intent (NOI) submittal. Once construction begins, staff of the SWCD or Indiana Department of Environmental Management will perform inspections of activities at the site for compliance with the regulation.

Please be mindful that approximately 149 Municipal Separate Storm Sewer System (MS4) areas are now being established by various local governmental entities throughout the state as part of the implementation of Phase II federal storm water requirements. All of these MS4 areas will eventually take responsibility for Construction Plan review, inspection, and enforcement. As these MS4 areas obtain program approval from IDEM, they will be added to a list of MS4 areas posted on the IDEM Website at:

<http://www.in.gov/idem/4900.htm>.

If your project is located in an IDEM-approved MS4 area, please contact the local MS4 program about meeting their storm water requirements. Once the MS4 approves the plan, the NOI can be submitted to IDEM.

Regardless of the size of your project, or which agency you work with to meet storm water requirements, IDEM recommends that appropriate structures and techniques be utilized both during the construction phase, and after completion of the project, to minimize the impacts associated with storm water runoff. The use of appropriate planning and site development and appropriate storm water quality measures are recommended to prevent soil from leaving the construction site during active land disturbance and for post construction water quality concerns. Information and assistance regarding storm water related to construction activities are available from the Soil and Water Conservation District (SWCD) offices in each county or from IDEM.

8. For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources - Division of Fish and Wildlife (317-232-4080) for additional project input.
9. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality - Drinking Water Branch (317-308-3299) regarding the need for permits.
10. For projects involving effluent discharges to waters of the State of Indiana , contact the Office of Water Quality - Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.
11. For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality - Permits Branch (317-232-8675) regarding the need for permits.

AIR QUALITY

The above-noted project (see page 1) should be designed to minimize any impact on ambient air quality in, or near, the project area. The project must comply with all federal and state air pollution regulations.

Consideration should be given to the following:

1. Regarding open burning, and disposing of organic debris generated by land clearing activities; some types of open burning are allowed under specific conditions (<http://www.in.gov/idem/4148.htm>). You

also can seek an open burning variance from IDEM.

IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on-site. You must register with IDEM if more than 2,000 pounds is to be composted; contact 317-232-0066). The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as leaves, twigs, branches, limbs, tree trunks and stumps) on-site, although burying large quantities of such material can lead to subsidence problems.

2. Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. For example, wetting the area with water, constructing wind barriers, or treating dusty areas with chemical stabilizers (such as calcium chloride or several other commercial products). Dirt tracked onto paved roads from unpaved areas should be minimized.

If construction or demolition is conducted in a wooded area where blackbirds have roosted or abandoned buildings or building sections in which pigeons or bats have roosted for three to five years, precautionary measures should be taken to avoid an outbreak of histoplasmosis. This disease is caused by the fungus *Histoplasma capsulatum*, which stems from bird or bat droppings that have accumulated in one area for three to five years. The spores from this fungus become airborne when the area is disturbed and can cause infections over an entire community downwind of the site. The area should be wetted down prior to cleanup or demolition of the project site. For more detailed information on histoplasmosis prevention and control, please contact the Acute Disease Control Division of the Indiana State Department of Health at 317-233-7272.

3. The U.S. EPA and the U.S. Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. For a county-by-county map of predicted radon levels in Indiana , visit <http://www.in.gov/idem/4267.htm>.

The U.S. EPA further recommends that all homes and apartments (within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L or higher, then U.S. EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L or higher, then U.S. EPA recommends the installation of radon-reduction measures. For a list of qualified radon testers and radon mitigation (or reduction) specialists, visit http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf.

Also, it is recommended that radon reduction measures be built into all new homes, particularly in areas like Indiana that have moderate to high predicted radon levels.

To learn more about radon, radon risks, and ways to reduce exposure, visit <http://www.in.gov/isdh/regsvcs/radhealth/radon.htm>, <http://www.in.gov/idem/4145.htm>, or <http://www.epa.gov/radon/index.html>.

4. With respect to asbestos removal, all facilities slated for renovation or demolition (except residential buildings that have four (4) or fewer dwelling units and which will not be used for commercial purposes) must be inspected by an Indiana-licensed asbestos inspector prior to the commencement of any renovation or demolition activities. If regulated asbestos-containing material (RACM) that may become airborne is found, any subsequent demolition, renovation, or asbestos removal activities must be performed in accordance with the proper notification and emission control requirements.

If no asbestos is found where a renovation activity will occur, or if the renovation involves removal of less than 260 linear feet of RACM off of pipes, less than 160 square feet of RACM off of other facility components, or less than 35 cubic feet of RACM off of all facility components, the owner or operator of the project does not need to notify IDEM before beginning the renovation activity.

For questions on asbestos demolition and renovation activities, you can also call IDEM's Lead/Asbestos section at 1-888-574-8150.

In all cases where a demolition activity will occur (even if no asbestos is found), the owner or operator must still notify IDEM 10 working days prior to the demolition, using the form found at www.in.gov/icpr/webfile/formsdiv/44593.pdf.

Anyone submitting a renovation/demolition notification form will be billed a notification fee based upon the amount of friable asbestos containing material to be removed or demolished. Projects that involve the removal of more than 2,600 linear feet of friable asbestos containing materials on pipes, or 1,600 square feet or 400 cubic feet of friable asbestos containing material on other facility components, will be billed a fee of \$150 per project; projects below these amounts will be billed a fee of \$50 per project. Billings will occur on a quarterly basis.

For more information about IDEM policy regarding asbestos removal and disposal, visit: <http://www.in.gov/idem/4983.htm>.

5. With respect to lead-based paint removal, IDEM encourages all

efforts to minimize human exposure to lead-based paint chips and dust. IDEM is particularly concerned that young children exposed to lead can suffer from learning disabilities. Although lead-based paint abatement efforts are not mandatory, any abatement that is conducted within housing built before January 1, 1978 , or a child-occupied facility is required to comply with all lead-based paint work practice standards, licensing and notification requirements. For more information about lead-based paint removal, visit

<http://www.in.gov/idem/permits/guide/waste/leadabatement.html>.

6. Ensure that asphalt paving plants are permitted and operate properly. The use of cutback asphalt, or asphalt emulsion containing more than seven percent (7%) oil distillate, is prohibited during the months of April through October. See 326 IAC 8-5-2 , Asphalt Paving Rule (<http://www.ai.org/legislative/iac/T03260/A00080.PDF>).
7. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 (www.ai.org/legislative/iac/t03260/a00020.pdf). New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.
8. For more information on air permits, visit <http://www.in.gov/idem/4223.htm>, or to initiate the IDEM air permitting process, please contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or oamprod at idem.in.gov.

LAND QUALITY

In order to maintain compliance with all applicable laws regarding contamination and/or proper waste disposal, IDEM recommends that:

1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ) at 317-308-3103.
2. All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more information, visit <http://www.in.gov/idem/4998.htm>.
3. If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal

procedures.

4. If Polychlorinated Biphenyls (PCBs) are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.
5. If there are any asbestos disposal issues related to this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbestos wastes. (Asbestos removal is addressed above, under Air Quality.)
6. If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317-308-3039(<http://www.in.gov/idem/4999.htm>).

FINAL REMARKS

Should the applicant need to obtain any environmental permits in association with this proposed project, please be mindful that IC 13-15-8 requires that they notify all adjoining property owners and/or occupants within ten days of your submittal of each permit application. Applicants seeking multiple permits, may still meet the notification requirement with a single notice if all required permit applications are submitted with the same ten day period.

Please note that this letter does not constitutes a permit, license, endorsement, or any other form of approval on the part of either the Indiana Department of Environmental Management or any other Indiana state agency.

Should you have any questions relating to the content or recommendations of this letter, or if you have additional questions about whether a more complete environmental review of your project should be conducted, please feel free to contact Steve Howell at (317) 232-8587, snhowell@idem.in.gov.

Sincerely,



Thomas W. Easterly
Commissioner

Signature(s) of the Applicant

I acknowledge that I am seeking grant monies, a bond issuance, or other public funding mechanism to cover some portion of the cost of the public works, infrastructure, or community development project as described herein, which I am working (possibly with others) to complete.

Project Description

Des. No. 1006622- Other Intersection Improvement, US 20 & Waverly Road in Porter County, Indiana This project involves widening the pavement on US 20 and adding a left turn lane Eastbound and Westbound. This would provide additional storage length and allow for shorter signal by eliminating split phasing and increase safety.

With my signature, I do hereby affirm that I have read the letter from the Indiana Department of Environmental Management that appears directly above. In addition, I understand that in order to complete the project in which I am interested, with a minimum impact to the environment, I must consider all the issues addressed in the aforementioned letter, and further, that I must obtain any required permits.

Dated Signature of the Public Owner
Contact/Responsible Elected Official

Lisa Hutcheson

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Project No. _____ Des. No. 1006622

Project Description Other Intersection Improvement, US 20 & Waverly Road, Porter County, Indiana

Name of Organization requesting early coordination:

Indiana Department of Transportation

QUESTIONNAIRE FOR THE INDIANA GEOLOGICAL SURVEY

1) Do unusual and/or problem () geographic, () geological, () geophysical, or () topographic features exist within the project limits? Describe:

None

2) Have existing or potential mineral resources been identified in this area? Describe:

None

3) Are there any active or abandoned mineral resources extraction sites located nearby? Describe: None

This information was furnished by:

Name: Robin Rupp Title: Geologist

Address: 611 North Walnut Grove, Bloomington, IN 47405

Phone: 812-855-7428 Date: May 6, 2015



INDIANA DEPARTMENT OF TRANSPORTATION
LAPORTE DISTRICT

Appendix D
Red Flag Investigation



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

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

Michael R. Pence, Governor
Karl B. Browning, Commissioner

Date: April 25, 2014

To: Hazardous Materials Unit
Environmental Services
Indiana Department of Transportation
100 N Senate Avenue, Room N642
Indianapolis, IN 46204

From: Jeremy Reiman
LaPorte District
Environmental Manager
jreiman@indot.in.gov

Re: RED FLAG INVESTIGATION
DES #1006622
Intersection Improvement
US 20 and Waverly Rd. Intersection
Porter County, Indiana

NARRATIVE

The project consists of widening pavement 8' on both sides of US 20 to provide a 12' left turn lane and 4' paved shoulder both eastbound and westbound. The Radii of the approaches will be improved to meet the widened pavement. The existing signal will be replaced with modernized signal heads and back plates. Approximately 20' of right-of-way from existing edge of pavement along the south side of US 20 will be acquired. Traffic will be maintained on existing pavement with barrels to delineate the edge where pavement widening is taken place. One lane of traffic may be closed in each direction during construction.

SUMMARY

| Infrastructure | | | |
|--|-----|-------------------------|-----|
| Indicate the number of items of concern found within ½ mile, including an explanation why each item within the ½ mile radius will/will not impact the project. If there are no items, please indicate N/A: | | | |
| Religious Facilities | N/A | Recreational Facilities | 3 |
| Airports | N/A | Pipelines | 1 |
| Cemeteries | N/A | Railroads | N/A |
| Hospitals | N/A | Trails | 1 |
| Schools | 1 | Managed Lands | 1 |

Explanation:

Schools: One (1) school was identified within the ½ mile project radius, over 900 feet from the project area. No impacts will occur to this school.

Recreational Facilities: Three (3) recreational facilities were identified within the ½ mile project radius. One of these points was adjacent to the project area, Splash Down Dunes. Further research revealed the precise location of the park is over 250 feet from the project area. This facility will remain accessible during construction. No impacts will occur to these facilities.

Pipelines: One (1) pipeline segment was identified within the ½ mile project radius, over 1,600 feet from the project area. No impacts will occur to this pipeline segment.

Trails: One (1) trail segment was identified within the ½ mile project radius, over 2,100 feet from the project area. No impacts will occur to this trail.

Managed Lands: One (1) managed land polygon was identified within the ½ mile project radius, over 1,700 feet from the project area. No impacts will occur to this managed land.

| Water Resources | | | |
|--|-----|------------------------|-----|
| Indicate the number of items of concern found within ½ mile, including an explanation why each item within the ½ mile radius will/will not impact the project. If there are no items, please indicate N/A: | | | |
| NWI - Points | N/A | NWI - Wetlands | 4 |
| Karst Springs | N/A | IDEM 303d Listed Lakes | N/A |
| Canal Structures – Historic | N/A | Lakes | N/A |
| NWI - Lines | N/A | Floodplain - DFIRM | N/A |
| IDEM 303d Listed Rivers and Streams (Impaired) | 1 | Cave Entrance Density | N/A |
| Rivers and Streams | N/A | Sinkhole Areas | N/A |
| Canal Routes - Historic | N/A | Sinking-Stream Basins | N/A |

Explanation:

IDEM 303d Rivers and Streams: One (1) impaired rivers and streams segment was identified within the ½ mile project radius, over 750 feet from the project area. No impacts will occur to this impaired body of water.

NWI – Wetlands: Four (4) wetland polygons were identified within the ½ mile project radius. All wetland polygons were over 650 feet from the project area therefore they will not be impacted by the proposed project.

| Mining/Mineral Exploration | | | |
|--|-----|---------------------|-----|
| Indicate the number of items of concern found within ½ mile, including an explanation why each item within the ½ mile radius will/will not impact the project. If there are no items, please indicate N/A: | | | |
| Petroleum Wells | N/A | Petroleum Fields | N/A |
| Mines – Surface | N/A | Mines – Underground | N/A |

Explanation: No mining/mineral exploration items were identified within the ½ mile project radius.

| Hazmat Concerns | | | |
|--|-----|--|-----|
| Indicate the number of items of concern found within ½ mile, including an explanation why each item within the ½ mile radius will/will not impact the project. If there are no items, please indicate N/A: | | | |
| Brownfield Sites | N/A | Restricted Waste Sites | N/A |
| Corrective Action Sites (RCRA) | N/A | Septage Waste Sites | N/A |
| Confined Feeding Operations | N/A | Solid Waste Landfills | N/A |
| Construction Demolition Waste | N/A | State Cleanup Sites | N/A |
| Industrial Waste Sites (RCRA Generators) | N/A | Tire Waste Sites | N/A |
| Infectious/Medical Waste Sites | N/A | Waste Transfer Stations | N/A |
| Lagoon/Surface Impoundments | N/A | RCRA Waste Treatment, Storage, and Disposal Sites (TSDs) | N/A |
| Leaking Underground Storage Tanks (LUSTs) | 1 | Underground Storage Tanks | 1 |
| Manufactured Gas Plant Sites | N/A | Voluntary Remediation Program | N/A |
| NPDES Facilities | N/A | Superfund | N/A |
| NPDES Pipe Locations | N/A | Institutional Control Sites | N/A |
| Open Dump Sites | N/A | | |

Explanation:

Leaking Underground Storage Tanks (LUSTs): One (1) LUST was identified within the ½ mile project radius, adjacent to the project area. The site LUST named “Reese Holdings III LLC” is adjacent to the north side of the project area. This site was issued a “No Further Action Determination” on September 11, 2006.

Underground Storage Tanks (USTs): One (1) UST was identified within the ½ mile project radius, over 670 feet from the project area. This UST will not be impacted by the proposed project.

Ecological Information

The Porter County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted.

Research into the Indiana Natural Heritage Database revealed no ETR species or high quality communities within the ½ mile project radius.

Early coordination with the Indiana Department of Natural Resources and U.S. Fish and Wildlife is anticipated due to the purchase of right-of-way.

Cultural Resources

INDOT Cultural Resources was notified of this project on March 24, 2014. Section 106 is pending their review.

RECOMMENDATIONS

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

INFRASTRUCTURE: N/A

WATER RESOURCES: N/A

MINING/MINERAL EXPLORATION: N/A

HAZMAT CONCERNS: The following items are items of concern near the project area

- LUST named "Reese Holdings III LLC" is adjacent to the north side of the project area. This site was issued a "No Further Action Determination" on September 11, 2006.

ECOLOGICAL INFORMATION: Early coordination with the Indiana Department of Natural Resources and U.S. Fish and Wildlife is anticipated due to the purchase of right-of-way.

CULTURAL RESOURCES: INDOT Cultural Resources was notified of this project on March 24, 2014. Section 106 is pending their review.



INDOT Environmental Services concurrence: _____ (Signature)

Prepared by:
Jeremy Reiman
Environmental Manager
Indiana Department of Transportation

Graphics:

A map for each report section with a ½ mile 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:

GENERAL SITE MAP SHOWING PROJECT AREA: YES

INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: N/A

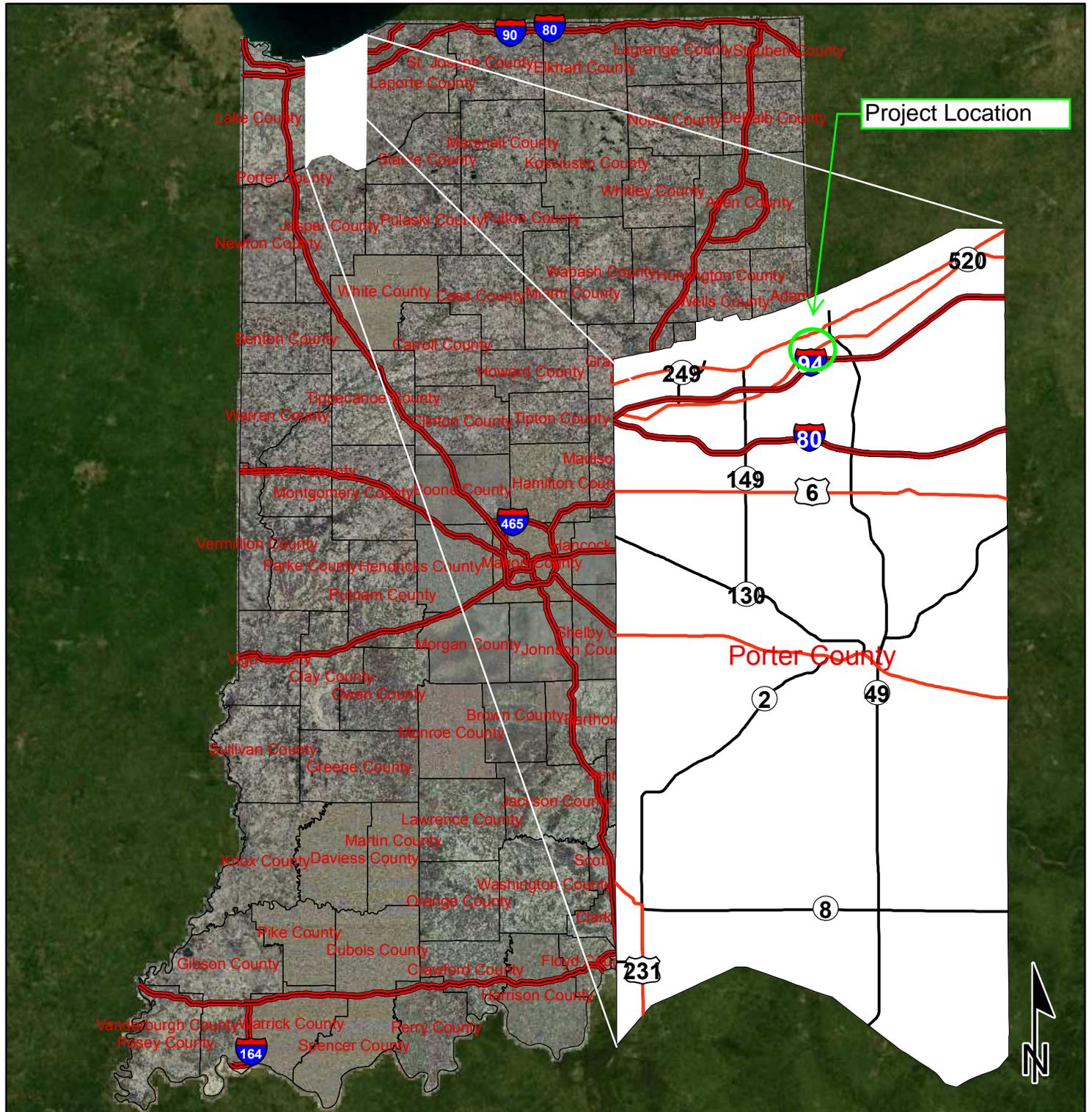
HAZMAT CONCERNS: YES

Site Location

US 20, intersection with Waverly Rd.

DES 1006622, Other Intersection Improvement

Porter County, IN



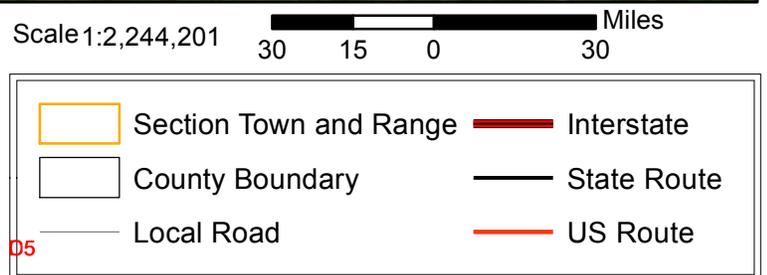
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Sources: Non Orthophotography

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

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

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

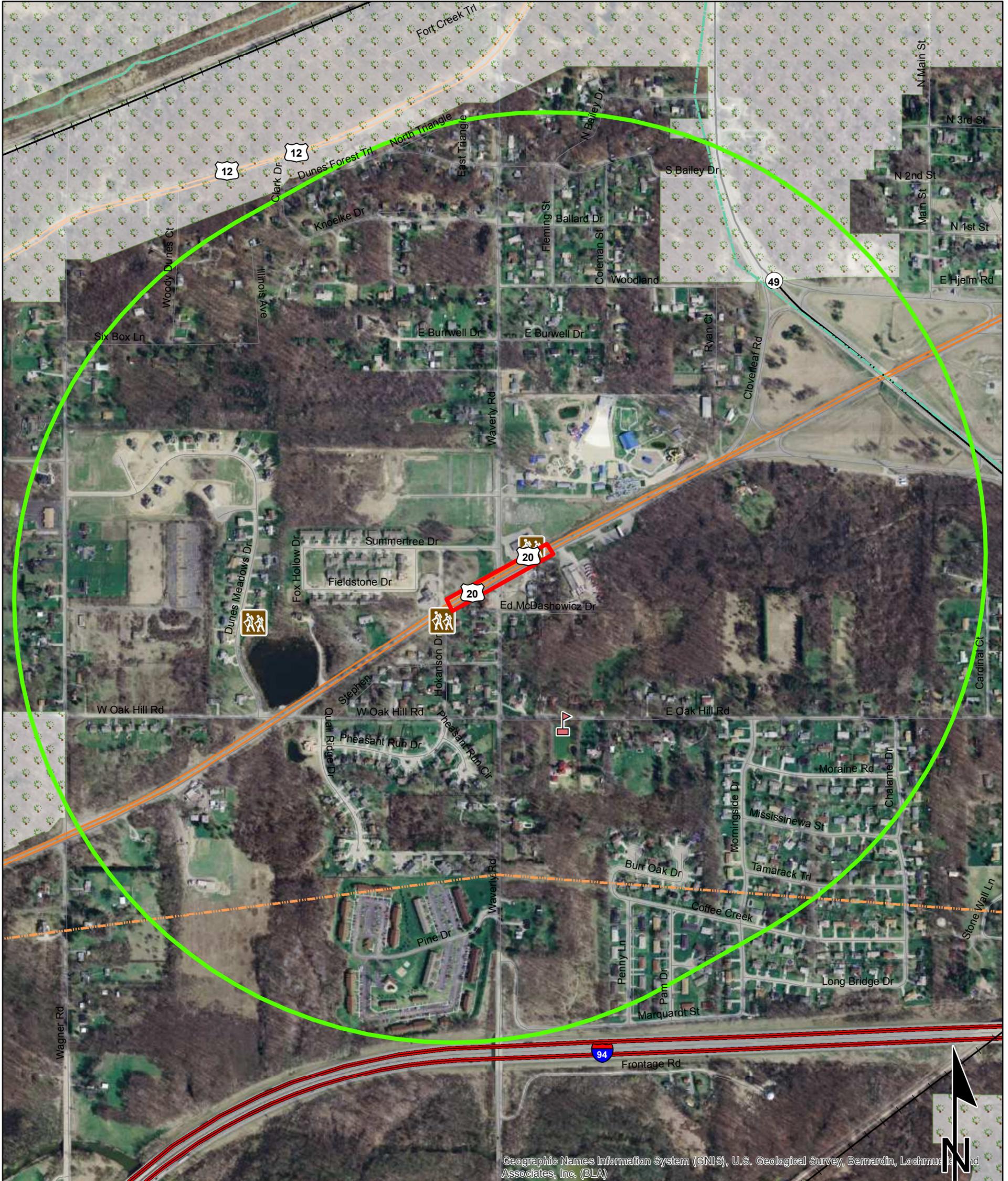


Red Flag Investigation - Infrastructure

US 20, intersection with Waverly Rd.

Des. No. 1006622, Other Intersection Improvement

Porter County, Indiana



Sources: 0.1 0.05 0 0.1 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.

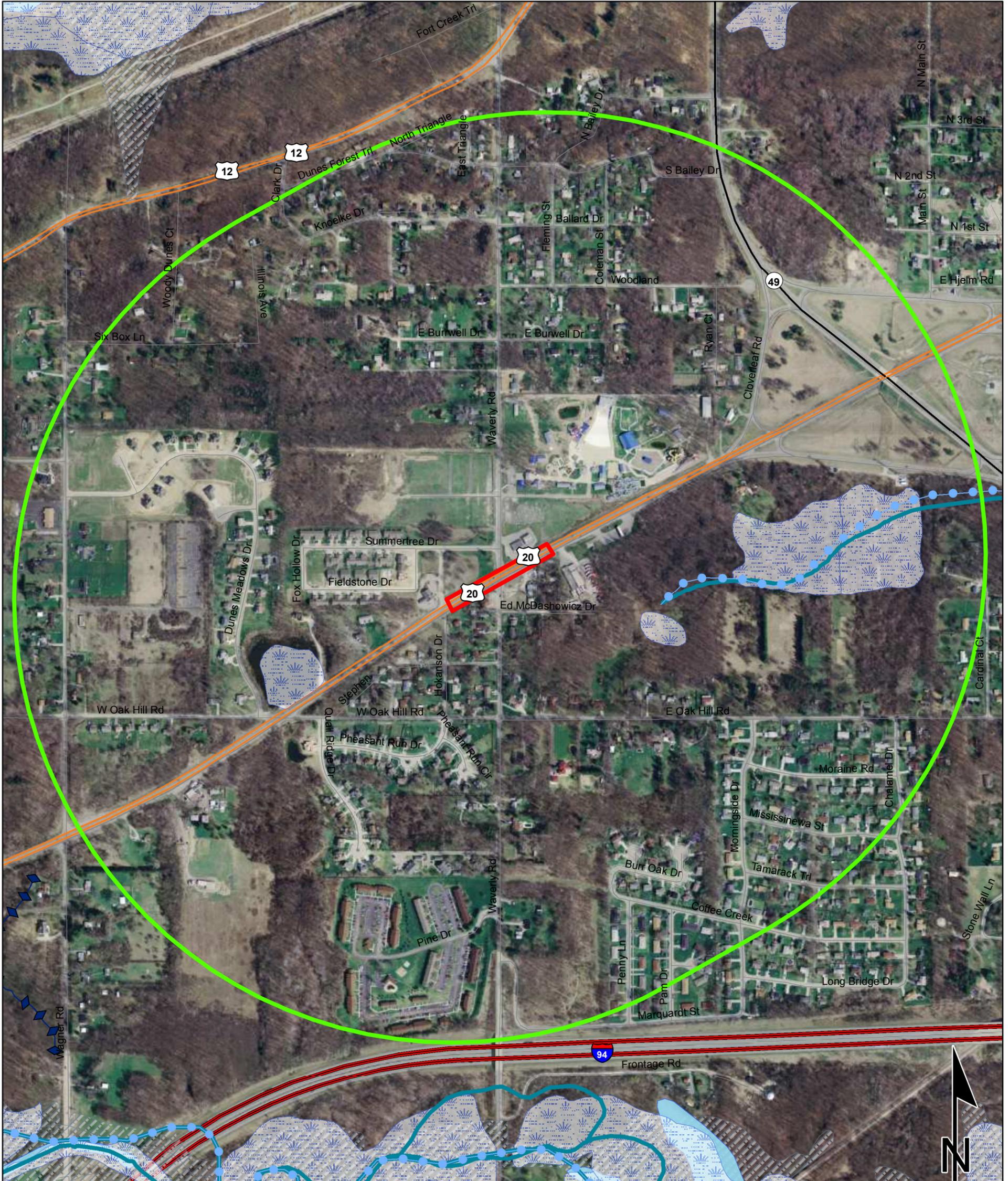
| | | | | | |
|--|--------------------|--|---------------------|--|------------------|
| | Religious Facility | | Recreation Facility | | Project Area |
| | Religious Facility | | Pipeline | | Half Mile Radius |
| | Indiana Map | | Railroad | | Interstate |
| | Airport | | Trails | | State Route |
|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

Red Flag Investigation - Water Resources

US 20, intersection with Waverly Rd.

Des. No. 1006622, Other Intersection Improvement

Porter 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

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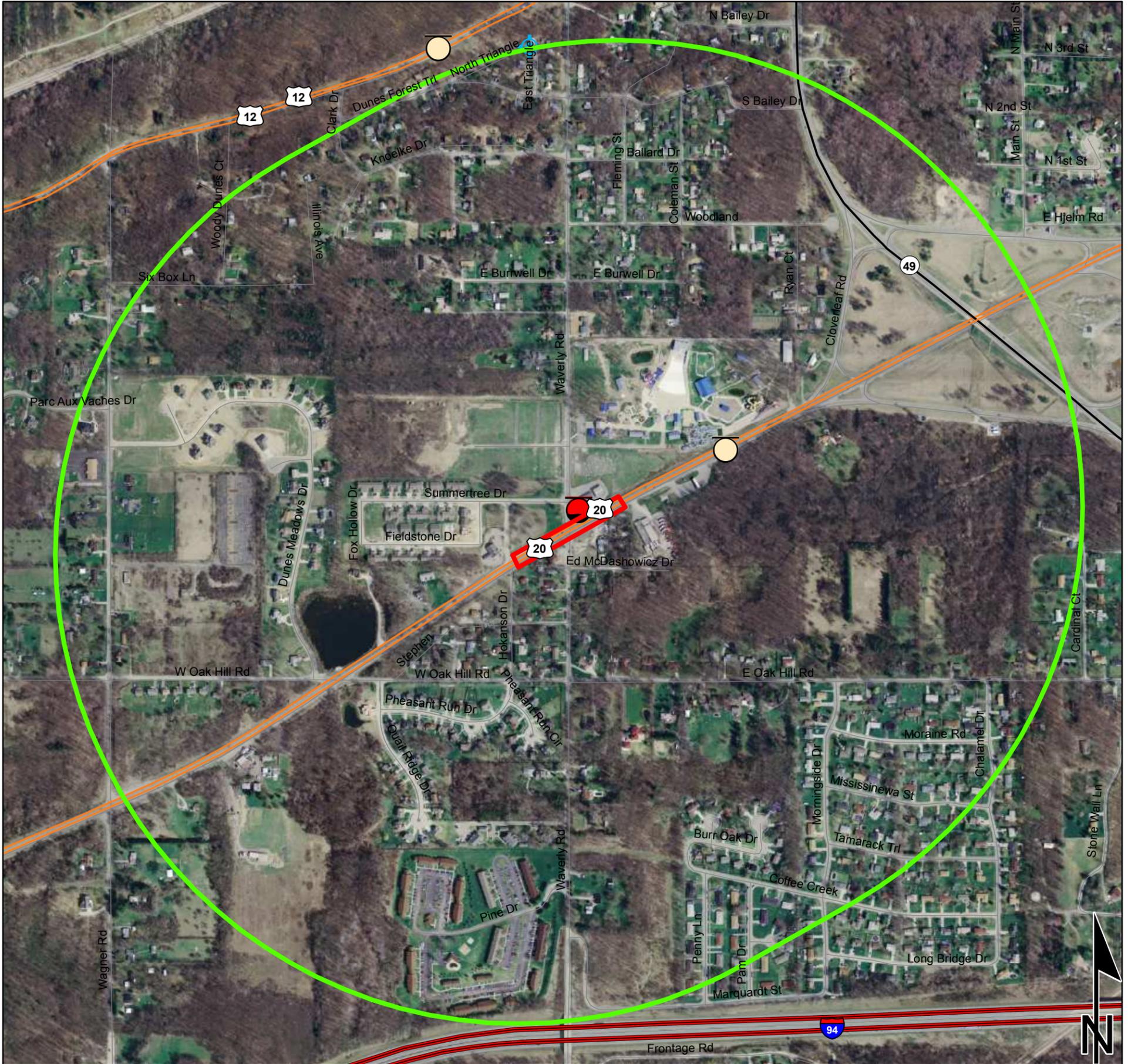
| | | | | | |
|--|----------------------------|--|-----------------------|--|------------------|
| | NWI - Point | | Wetlands | | Project Area |
| | Karst Spring | | Lake - Impaired | | Half Mile Radius |
| | Canal Structure - Historic | | Lake | | Interstate |
| | NWI- Line | | Floodplain - DFIRM |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

Red Flag Investigation - Hazmat Concerns

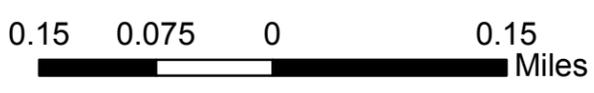
US 20, intersection with Waverly Rd.

Des. No. 1006622, Other Intersection Improvement

Porter County, Indiana



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



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

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

Indiana County Endangered, Threatened and Rare Species List

County: Porter

| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|--|---------------------------------------|-----|-------|-------|-------|
| Crustacean: Malacostraca | | | | | |
| Procambarus gracilis | Prairie Crayfish | | ST | G5 | S1S2 |
| Mollusk: Bivalvia (Mussels) | | | | | |
| Plethobasus cyphus | Sheepnose | C | SE | G3 | S1 |
| Venustaconcha ellipsiformis | Ellipse | | SSC | G4 | S2 |
| Insect: Coleoptera (Beetles) | | | | | |
| Nicrophorus americanus | American Burying Beetle | LE | SX | G2G3 | SH |
| Insect: Diptera | | | | | |
| Mydas tibialis | Golden Legged Mydas Fly | | ST | GNR | S1S2 |
| Insect: Homoptera | | | | | |
| Bruchomorpha dorsata | | | SR | GNR | S2 |
| Bruchomorpha oculata | | | SR | GNR | SNR |
| Chlorotettix fallax | A Leafhopper | | SR | GNR | S2 |
| Cosmotettix bilineatus | Two-lined cosmotettix | | ST | GNR | S1S2 |
| Flexamia pyrops | The Long-nose Three-awn Leafhopper | | SR | GNR | S1S3 |
| Flexamia reflexus | Indiangrass Flexamia | | ST | GNR | S2S3 |
| Graminella mohri | | | SR | GNR | SNR |
| Mesamia nigradorsum | A Leafhopper | | SR | GNR | S2S3 |
| Mesamia stramineus | Helianthus Leafhopper | | SE | GNR | S1 |
| Philaenarcys killa | Great Lakes dune spittlebug | | SR | GNR | S2S3 |
| Polyamia caperata | Little Bluestem Polyamia | | SR | GNR | SNR |
| Polyamia herbida | The Prairie Panic Grass Leafhopper | | ST | GNR | S1S3 |
| Polyamia obtectus | Sand Panic Grass Leafhopper | | SR | GNR | S2S3 |
| Prairiana kansana | The Kansas Prairie Leafhopper | | SE | GNR | S1S2 |
| Prosapia ignipectus | Red-legged Spittle Bug | | SR | G4 | S2 |
| Insect: Lepidoptera (Butterflies & Moths) | | | | | |
| chalarus lyciades | The Hoary Edge Skipper | | SR | G5 | S2S3 |
| ethes patricia | | | SE | G3G4 | S1 |
| grotis stigmosa | | | ST | G4 | S1S2 |
| grotis vetusta | A Moth | | SR | G5 | S2 |
| mblyscirtes vialis | Common Roadside-skipper | | SR | G5 | S3 |
| ncylis semiovana | | | SR | GNR | S2S3 |
| nepia capsularis | The Starry Campion Capsule Moth | | SR | G5 | S1S2 |
| pamea burgessi | A Noctuid Moth | | ST | G4 | S1 |
| pamea indocilis | The spastic apamea | | | GNR | S1S3 |
| pamea lutosa | Opalescent Apamea | | SE | GNR | S1 |
| pamea nigrior | Black-dashed Apamea | | SR | G5 | S2S3 |

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

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting
 State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list
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 SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

Indiana County Endangered, Threatened and Rare Species List

County: Porter

| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|-----------------------------|---|-----|-------|--------|-------|
| pamea relicina | A Noctuid Moth | | ST | G4 | S1S2 |
| trytonopsis hianna | Dusted Skipper | | ST | G4G5 | S1S2 |
| Boloria selene myrina | Silver-bordered Fritillary | | ST | G5T5 | S2 |
| Boloria selene nebraskensis | The Nebraska Silver Bordered Fritillary | | SE | G5T3T4 | S1 |
| Callophrys irus | Frosted Elfin | | SE | G3 | S1 |
| Callophrys polios | Hoary Elfin | | SE | G5 | S1 |
| Capis curvata | A Noctuid Moth | | ST | G4 | S2S3 |
| Catocala gracilis | Graceful Underwing | | SR | G5 | S2S3 |
| Catocala praeclara | Praeclara Underwing | | SR | G5 | S2S3 |
| Chortodes enervata | The Many-lined Cordgrass Moth | | ST | G4 | S1 |
| Chrysanympha formosa | The Huckleberry Looper Moth | | SR | G5 | S1S3 |
| Coenochroa bipunctella | Sand Dune Panic Grass Moth | | SR | GNR | S2S3 |
| Coenochroa illibella | Dune Panic Grass Moth | | SR | GNR | S2S3 |
| Crambus bidens | | | SR | GNR | SNR |
| Crambus girardellus | Orange-striped Sedge Moth | | SR | GNR | S2S3 |
| Croesia curvalana | | | SR | GNR | SNR |
| Croesia semipurpurana | | | SR | GNR | SNR |
| Cyclophora penduliniaria | Sweetfern Geometer | | SR | G5 | SNR |
| Cychnia inopinatus | The Unexpected Milkweed Moth | | SR | G4 | S2S3 |
| Epipaschia zelleri | | | SR | GNR | SNR |
| Erynnis martialis | Mottled Duskywing | | ST | G3 | S2S3 |
| Erynnis persius persius | Persius Dusky Wing | | SE | G5T1T3 | S1S2 |
| Eubaphe meridiana | AMoth | | SR | G4 | S2 |
| Euchloe olympia | Olympia Marble | | ST | G4G5 | S2 |
| Eucrotopocnemis fimbriaris | A Noctuid Moth | | ST | G4 | S1 |
| Euphydryas phaeton | Baltimore | | SR | G4 | S2 |
| Euphyes bimacula | Two-spotted Skipper | | ST | G4 | S2 |
| Euphyes dion | Sedge Skipper | | SR | G4 | S2S3 |
| Eupsilia devia | The Devious Sallow | | | GNR | SNR |
| Euxoa albipennis | White-striped Dart | | SR | G4G5 | S1S3 |
| Euxoa aurulenta | Dune Cutworm | | ST | G5 | S2 |
| Fagitana littera | The Marsh Fern Moth | | ST | G4 | S1S2 |
| Faronta rubripennis | The Pine Streak | | ST | G3G4 | S1 |
| Grammia anna | Anna's tiger moth | | SR | G5 | S2S3 |
| Grammia figurata | The Figured Grammia | | SR | G5 | S2S3 |
| Grammia phyllira | The Sand Barrens Grammia | | SR | G4 | S2S3 |
| Grammia virguncula | | | SR | G5 | S1S2 |
| Hadena ectypa | The Starry Campion Moth | | ST | G3G4 | S1S3 |
| Hemaris gracilis | The Blueberry Clearwing Sphinx | | SR | G3G4 | S1S2 |

Indiana Natural Heritage Data Center
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Indiana Department of Natural Resources
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Indiana County Endangered, Threatened and Rare Species List

County: Porter

| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|----------------------------|--------------------------------|-----------|-------|-------|-------|
| Hesperia leonardus | Leonard's Skipper | No Status | SR | G4 | S2 |
| Holomelina opella | The Smokey Holomelina | | SR | G5 | S2S3 |
| Lesmone detrahens | A Moth | | SR | G5 | S2 |
| Leucania inermis | A Moth | | SR | G4 | S2S3 |
| Leucania linita | Salt Marsh Wainscot | | SR | GNR | S2 |
| Loxagrotis acclivis | A Noctuid Moth | | ST | G4G5 | S2 |
| Lycaeides melissa samuelis | Karner Blue | LE | SE | G5T2 | S1 |
| Lycaena helloides | Purplish Copper | | SR | G5 | S2S4 |
| Macrochilo absorptalis | A Moth | | SR | G4G5 | S2S3 |
| Macrochilo hypocriticalis | A Noctuid Moth | | SR | G4 | S2 |
| Macrochilo louisiana | | | ST | G4 | S1S2 |
| Melanomma auricinctaria | Huckleberry Eye-spot Moth | | SR | G4 | S2S3 |
| Meropleon ambifuscum | Newman's Brocade | | ST | G3G4 | S1S2 |
| Meropleon diversicolor | A Noctuid Moth | | SR | G4 | S2S3 |
| Mesapamea stipata | The Four-lined Cordgrass Borer | | SE | G4 | S1 |
| Metanema determinata | Dark Metanema | | SR | GNR | SNR |
| Metanema inatomaria | Pale Metanema | | SR | GNR | SNR |
| Nephoterix dammersi | Leadplant Leafwebber Moth | | SE | GNR | S1 |
| Nola cilicoides | | | SR | G4 | SNR |
| Nola pustulata | Sharp-blotched Nola | | SR | G4 | SNR |
| Odontotia elegans | Elegant Prominent | | SR | G5 | S1S2 |
| Oligia obtusa | A Noctuid Moth | | SE | G4 | S1 |
| Paectes abrostolella | The Barrens Paectes Moth | | SR | G4 | S2S3 |
| Papaipema cerina | Golden Borer Moth | | ST | G2G4 | S1 |
| Papaipema leucostigma | Columbine Borer | | ST | G4 | S1S2 |
| Papaipema lysimachiae | The St. John'Swort Borer Moth | | SR | G4 | S1S3 |
| Papaipema maritima | The Giant Sunflower Borer Moth | | ST | G3 | S2 |
| Papaipema silphii | Silphium Borer Moth | | ST | G3G4 | S2 |
| Papaipema speciosissima | The Royal Fern Borer Moth | | ST | G4 | S2S3 |
| Parasa indetermina | A Moth | | SR | G4 | S1S2 |
| Peoria gemmatella | Gemmed Cordgrass Borer | | SR | GNR | S1 |
| Peoria tetradella | | | SR | GNR | SNR |
| Phaneta ochroterminana | | | SR | GNR | SNR |
| Phaneta ornatula | | | SR | GNR | SNR |
| Phaneta striatana | | | SR | GNR | SNR |
| Platyperigea meralis | The Rare Sand Quaker | | ST | G4 | S2 |
| Platyperigea multifera | Dune rustic | | | GNR | S1S2 |
| Poanes viator viator | Big Broad-winged Skipper | | ST | G5T4 | S2 |
| Polygonia progne | Gray Comma | | SR | G4G5 | S2 |
| Problema byssus | Bunchgrass Skipper | | ST | G3G4 | S2 |

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Indiana County Endangered, Threatened and Rare Species List

County: Porter

| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|--|--|-----|-------|--------|-------|
| Protorthodes incincta | Saturn quaker | | SR | GNR | S2 |
| Pygarctia spraguei | Sprague's Pygartic | | SR | G5 | S1S2 |
| Pyrausta laticlavia | The Southern Purple Mint Moth | | SR | GNR | S1S2 |
| Satyroides eurydice fumosa | Smoky-eyed Brown | | ST | G5T3T4 | S1S2 |
| Schinia indiana | Phlox Moth | | SE | G2G4 | S1 |
| Schinia septentrionalis | A Noctuid Moth | | SR | G3G4 | S2S3 |
| Scirpophaga perstrialis | | | SR | GNR | SNR |
| Semiothisa eremiata | The Goat's Rue Looper | | SR | G4 | S2S3 |
| Sitochroa dasconalis | Pearly Indigo Borer | | ST | GNR | S1S2 |
| Spartiniphaga inops | Spartina Borer Moth | | SR | G3G4 | S2S3 |
| Speyeria aphrodite | Aphrodite Fritillary | | WL | G5 | S3 |
| Sphinx luscitiosa | The Luscious Willow Sphinx | | SR | G4 | S1S2 |
| Tampa dimediatella | Red-striped Panic Grass Moth | | ST | GNR | S2S3 |
| Thorybes pylades | Northern Cloudywing | | SR | G5 | S2S3 |
| Tricholita notata | Marked Noctuid | | ST | G5 | S1S2 |
| Trichosilia manifesta | The Record Keeper Moth | | SR | G4 | S3S4 |
| Zomaria interruptolinea | | | SR | GNR | SNR |
| Insect: Odonata (Dragonflies & Damselflies) | | | | | |
| Sympetrum semicinctum | Band-winged Meadowhawk | | SR | G5 | S2S3 |
| Insect: Orthoptera | | | | | |
| Chloealtis conspersa | Sprinkled Locust | | SR | G5 | S2S3 |
| Conocephalus saltans | Prairie Meadow Katydid | | SR | GNR | S1S2 |
| Hesperotettix viridis pratensis | A Grasshopper | | SR | G5T5 | S1S2 |
| Melanoplus viridipes viridipes | Green-legged Spur-throated Grasshopper | | SR | G4 | S2 |
| Neoconocephalus exiliscanorus | A Katydid | | SR | GNR | SNR |
| Neoconocephalus nebrascensis | A Katydid | | SR | GNR | S1S2 |
| Orphulella pelidna | Green Desert Grasshopper | | SR | G5 | S1S2 |
| Pseudopomala brachyptera | Bunch Grass Locust | | ST | G5 | S1S2 |
| Psinidia fenestralis | Sand Locust | | SR | G5 | S1S2 |
| Trimerotropis maritima | The Dune Locust | | ST | G5 | S2 |
| Fish | | | | | |
| cipenser fulvescens | Lake Sturgeon | | SE | G3G4 | S1 |
| Amphibian | | | | | |
| mbystoma laterale | Blue-spotted Salamander | | SSC | G5 | S2 |
| Hemidactylium scutatum | Four-toed Salamander | | SE | G5 | S2 |
| Necturus maculosus | Common mudpuppy | | SSC | G5 | S2 |
| Rana pipiens | Northern Leopard Frog | | SSC | G5 | S2 |
| Reptile | | | | | |
| Clemmys guttata | Spotted Turtle | | SE | G5 | S2 |

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Indiana County Endangered, Threatened and Rare Species List

County: Porter

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|--------------------------------------|------------------------------|-----------|-------|-----------|-------|
| <i>Clonophis kirtlandii</i> | Kirtland's Snake | | SE | G2 | S2 |
| <i>Emydoidea blandingii</i> | Blanding's Turtle | | SE | G4 | S2 |
| <i>Liochlorophis vernalis</i> | Smooth Green Snake | | SE | G5 | S2 |
| <i>Sistrurus catenatus catenatus</i> | Eastern Massasauga | C | SE | G3G4T3T4Q | S2 |
| <i>Thamnophis butleri</i> | Butler's Garter Snake | | SE | G4 | S1 |
| <i>Thamnophis proximus proximus</i> | Western Ribbon Snake | | SSC | G5T5 | S3 |
| Bird | | | | | |
| <i>mmodramus henslowii</i> | Henslow's Sparrow | | SE | G4 | S3B |
| <i>rdea alba</i> | Great Egret | | SSC | G5 | S1B |
| <i>Bartramia longicauda</i> | Upland Sandpiper | | SE | G5 | S3B |
| <i>Botaurus lentiginosus</i> | American Bittern | | SE | G4 | S2B |
| <i>Buteo lineatus</i> | Red-shouldered Hawk | | SSC | G5 | S3 |
| <i>Buteo platypterus</i> | Broad-winged Hawk | No Status | SSC | G5 | S3B |
| <i>Circus cyaneus</i> | Northern Harrier | | SE | G5 | S2 |
| <i>Cistothorus palustris</i> | Marsh Wren | | SE | G5 | S3B |
| <i>Cistothorus platensis</i> | Sedge Wren | | SE | G5 | S3B |
| <i>Dendroica cerulea</i> | Cerulean Warbler | | SE | G4 | S3B |
| <i>Falco peregrinus</i> | Peregrine Falcon | No Status | SE | G4 | S2B |
| <i>Ixobrychus exilis</i> | Least Bittern | | SE | G5 | S3B |
| <i>Lanius ludovicianus</i> | Loggerhead Shrike | No Status | SE | G4 | S3B |
| <i>Mniotilta varia</i> | Black-and-white Warbler | | SSC | G5 | S1S2B |
| <i>Nycticorax nycticorax</i> | Black-crowned Night-heron | | SE | G5 | S1B |
| <i>Rallus elegans</i> | King Rail | | SE | G4 | S1B |
| <i>Rallus limicola</i> | Virginia Rail | | SE | G5 | S3B |
| <i>Sturnella neglecta</i> | Western Meadowlark | | SSC | G5 | S2B |
| <i>Vermivora chrysoptera</i> | Golden-winged Warbler | | SE | G4 | S1B |
| <i>Wilsonia citrina</i> | Hooded Warbler | | SSC | G5 | S3B |
| Mammal | | | | | |
| <i>Lasiurus borealis</i> | Eastern Red Bat | | SSC | G5 | S4 |
| <i>Lasiurus cinereus</i> | Hoary Bat | No Status | SSC | G5 | S4 |
| <i>Myotis lucifugus</i> | Little Brown Bat | | SSC | G5 | S4 |
| <i>Myotis septentrionalis</i> | Northern Myotis | | SSC | G4 | S3 |
| <i>Myotis sodalis</i> | Indiana Bat or Social Myotis | LE | SE | G2 | S1 |
| <i>Pipistrellus subflavus</i> | Eastern Pipistrelle | | SSC | G5 | S4 |
| <i>Spermophilus franklinii</i> | Franklin's Ground Squirrel | | SE | G5 | S2 |
| <i>Taxidea taxus</i> | American Badger | | SSC | G5 | S2 |
| Vascular Plant | | | | | |
| <i>ctaea rubra</i> | Red Baneberry | | SR | G5 | S2 |
| <i>melanchier humilis</i> | Running Serviceberry | | SE | G5 | S1 |
| <i>rabis glabra</i> | Tower-mustard | | WL | G5 | S2 |

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Indiana County Endangered, Threatened and Rare Species List

County: Porter

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| <i>ralia hispida</i> | Bristly Sarsaparilla | | SE | G5 | S1 |
| <i>rctostaphylos uva-ursi</i> | Bearberry | | SR | G5 | S2 |
| <i>renaria stricta</i> | Michaux's Stitchwort | | SR | G5 | S2 |
| <i>ristida intermedia</i> | Slim-spike Three-awn Grass | | SR | GNR | S2 |
| <i>ristida tuberculosa</i> | Seabeach Needlegrass | | SR | G5 | S2 |
| <i>ster borealis</i> | Rushlike Aster | | SR | G5 | S2 |
| <i>ster furcatus</i> | Forked Aster | | SR | G3 | S2 |
| <i>ster sericeus</i> | Western Silvery Aster | | SR | G5 | S2 |
| <i>Betula populifolia</i> | Gray Birch | | SE | G5 | S1 |
| <i>Bidens beckii</i> | Beck Water-marigold | | ST | G4G5 | S1 |
| <i>Botrychium matricariifolium</i> | Chamomile Grape-fern | | SR | G5 | S2 |
| <i>Botrychium multifidum</i> var. <i>intermedium</i> | Leathery Grape-fern | | SX | G5T4? | SX |
| <i>Brachyelytrum aristosum</i> | Northern shorthusk | | SE | G4G5 | S1 |
| <i>Buchnera americana</i> | Bluehearts | | SE | G5? | S1 |
| <i>Carex atherodes</i> | Awned Sedge | | SE | G5 | S1 |
| <i>Carex atlantica</i> ssp. <i>capillacea</i> | Howe Sedge | | SE | G5T5? | S1 |
| <i>Carex aurea</i> | Golden-fruited Sedge | | SR | G5 | S2 |
| <i>Carex brunnescens</i> | Brownish Sedge | | SE | G5 | S1 |
| <i>Carex conoidea</i> | Prairie Gray Sedge | | ST | G5 | S1 |
| <i>Carex debilis</i> var. <i>rudgei</i> | White-edge Sedge | | SR | G5T5 | S2 |
| <i>Carex eburnea</i> | Ebony Sedge | | SR | G5 | S2 |
| <i>Carex flava</i> | Yellow Sedge | | ST | G5 | S2 |
| <i>Carex folliculata</i> | Long Sedge | | SR | G4G5 | S2 |
| <i>Carex garberi</i> | Elk Sedge | | ST | G5 | S2 |
| <i>Carex leptoneura</i> | Finely-nerved Sedge | | SE | G4 | S1 |
| <i>Carex limosa</i> | Mud Sedge | | SE | G5 | S1 |
| <i>Carex pedunculata</i> | Longstalk Sedge | | SR | G5 | S2 |
| <i>Carex seorsa</i> | Weak Stellate Sedge | | SR | G4 | S2 |
| <i>Chimaphila umbellata</i> ssp. <i>cisatlantica</i> | Pipsissewa | | ST | G5T5 | S2 |
| <i>Chrysosplenium americanum</i> | American Golden-saxifrage | | ST | G5 | S2 |
| <i>Circaea alpina</i> | Small Enchanter's Nightshade | | SX | G5 | SX |
| <i>Cirsium hillii</i> | Hill's Thistle | | SE | G3 | S1 |
| <i>Cirsium pitcheri</i> | Dune Thistle | LT | ST | G3 | S2 |
| <i>Clintonia borealis</i> | Clinton Lily | | SE | G5 | S1 |
| <i>Coeloglossum viride</i> var. <i>virescens</i> | Long-bract Green Orchis | | ST | G5T5 | S2 |
| <i>Cornus amomum</i> ssp. <i>amomum</i> | Silky Dogwood | | SE | G5T5 | S1 |
| <i>Cornus canadensis</i> | Bunchberry | | SE | G5 | S1 |
| <i>Cornus rugosa</i> | Roundleaf Dogwood | | SR | G5 | S2 |
| <i>Cyperus houghtonii</i> | Houghton's Nutsedge | | SE | G4? | S2 |
| <i>Cypripedium calceolus</i> var. <i>parviflorum</i> | Small Yellow Lady's-slipper | | SR | G5 | S2 |

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|--------------------------------------|---------------------------------|-----|-------|--------|-------|
| Cypripedium candidum | Small White Lady's-slipper | | WL | G4 | S2 |
| Dichanthelium sabulorum var. thinium | Hemlock Panic-grass | | SR | G5T5 | S2 |
| Diervilla lonicera | Northern Bush-honeysuckle | | SR | G5 | S2 |
| Drosera intermedia | Spoon-leaved Sundew | | SR | G5 | S2 |
| Dryopteris clintoniana | Clinton Woodfern | | SX | G5 | SX |
| Eleocharis geniculata | Capitate Spike-rush | | ST | G5 | S2 |
| Eleocharis melanocarpa | Black-fruited Spike-rush | | ST | G4 | S2 |
| Eleocharis microcarpa | Small-fruited Spike-rush | | SE | G5 | S1 |
| Eleocharis robbinsii | Robbins Spikerush | | SR | G4G5 | S2 |
| Epigaea repens | Trailing Arbutus | | WL | G5 | S3 |
| Eriocaulon aquaticum | Pipewort | | SE | G5 | S1 |
| Eriophorum angustifolium | Narrow-leaved Cotton-grass | | SR | G5 | S2 |
| Euphorbia polygonifolia | Seaside Spurge | | SR | G5? | S3 |
| Fimbristylis puberula | Carolina Fimbry | | SE | G5 | S1 |
| Fuirena pumila | Dwarf Umbrella-sedge | | ST | G4 | S2 |
| Gentiana alba | Yellow Gentian | | SR | G4 | S2 |
| Gentiana puberulenta | Downy Gentian | | ST | G4G5 | S2 |
| Geranium bicknellii | Bicknell Northern Crane's-bill | | SE | G5 | S1 |
| Hemicarpha drummondii | Drummond Hemicarpha | | se | G4G5 | S1 |
| Hudsonia tomentosa | Sand-heather | | ST | G5 | S2 |
| Hypericum adpressum | Creeping St. John's-wort | | SE | G3 | S1 |
| Hypericum pyramidatum | Great St. John's-wort | | ST | G4 | S1 |
| Juglans cinerea | Butternut | | WL | G4 | S3 |
| Juncus articulatus | Jointed Rush | | SE | G5 | S1 |
| Juncus balticus var. littoralis | Baltic Rush | | SR | G5T5 | S2 |
| Juncus militaris | Bayonet Rush | | SE | G4 | S1 |
| Juncus pelocarpus | Brown-fruited Rush | | SE | G5 | S2 |
| Juncus scirpoides | Scirpus-like Rush | | ST | G5 | S2 |
| Juniperus communis | Ground Juniper | | SR | G5 | S2 |
| Lathyrus maritimus var. glaber | Beach Peavine | | SE | G5T4T5 | S1 |
| Lathyrus ochroleucus | Pale Vetchling Peavine | | SE | G4G5 | S1 |
| Lathyrus venosus | Smooth Veiny Pea | | ST | G5 | S2 |
| Lechea stricta | Upright Pinweed | | SX | G4? | SX |
| Lemna minima | Least Duckweed | | SE | GNR | S1 |
| Lemna valdiviana | Pale Duckweed | | SE | G5 | S1 |
| Linnaea borealis | Twinflower | | SX | G5 | SX |
| Linum striatum | Ridged Yellow Flax | | WL | G5 | S3 |
| Ludwigia sphaerocarpa | Globe-fruited False-loosestrife | | SE | G5 | S1 |
| Lycopodiella inundata | Northern Bog Clubmoss | | SE | G5 | S1 |

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|--|----------------------------------|-----|-------|--------|-------|
| Lycopodiella subappressa | Northern Appressed Bog Clubmoss | | SE | G2 | S1 |
| Lycopodium hickeyi | Hickey's Clubmoss | | SR | G5 | S2 |
| Lycopodium obscurum | Tree Clubmoss | | SR | G5 | S2 |
| Lycopodium tristachyum | Deep-root Clubmoss | | SR | G5 | S2 |
| Melampyrum lineare | American Cow-wheat | | SR | G5 | S2 |
| Mikania scandens | Climbing Hempweed | | SE | G5 | S1 |
| Milium effusum | Tall Millet-grass | | SR | G5 | S2 |
| Myosotis laxa | Smaller Forget-me-not | | ST | G5 | S1 |
| Myriophyllum pinnatum | Cutleaf Water-milfoil | | SE | G5 | S1 |
| Myriophyllum verticillatum | Whorled Water-milfoil | | SR | G5 | S2 |
| Najas gracillima | Thread-like Naiad | | ST | G5? | S1 |
| Orobanche fasciculata | Clustered Broomrape | | SE | G4 | S1 |
| Oryzopsis asperifolia | White-grained Mountain-ricegrass | | SE | G5 | S1 |
| Oryzopsis pungens | Slender Mountain-ricegrass | | SX | G5 | SX |
| Oryzopsis racemosa | Black-fruit Mountain-ricegrass | | SR | G5 | S2 |
| Panax quinquefolius | American Ginseng | | WL | G3G4 | S3 |
| Panax trifolius | Dwarf Ginseng | | WL | G5 | S2 |
| Panicum boreale | Northern Witchgrass | | SR | G5 | S2 |
| Panicum leibergii | Leiberg's Witchgrass | | ST | G5 | S2 |
| Panicum mattamuskeetense | A Panic-grass | | SX | G4? | SX |
| Panicum verrucosum | Warty Panic-grass | | ST | G4 | S2 |
| Pinus banksiana | Jack Pine | | SR | G5 | S2 |
| Pinus strobus | Eastern White Pine | | SR | G5 | S2 |
| Plantago cordata | Heart-leaved Plantain | | SE | G4 | S1 |
| Platanthera ciliaris | Yellow-fringe Orchis | | SE | G5 | S1 |
| Platanthera hookeri | Hooker Orchis | | SX | G4 | SX |
| Platanthera hyperborea | Leafy Northern Green Orchis | | ST | G5 | S2 |
| Platanthera psycodes | Small Purple-fringe Orchis | | SR | G5 | S2 |
| Poa alsodes | Grove Meadow Grass | | SR | G4G5 | S2 |
| Poa paludigena | Bog Bluegrass | | WL | G3 | S3 |
| Polygala paucifolia | Gay-wing Milkwort | | SE | G5 | S1 |
| Polygonella articulata | Eastern Jointweed | | SR | G5 | S2 |
| Polygonum careyi | Carey's Smartweed | | ST | G4 | S2 |
| Polygonum hydropiperoides var. opelousanum | Northeastern Smartweed | | ST | G5TNRQ | S2 |
| Populus balsamifera | Balsam Poplar | | SX | G5 | SX |
| Potamogeton epihydrus | Nuttall Pondweed | | SE | G5 | S1 |
| Potamogeton pulcher | Spotted Pondweed | | SE | G5 | S1 |
| Potamogeton pusillus | Slender Pondweed | | WL | G5 | S2 |
| Potamogeton richardsonii | Redheadgrass | | SR | G5 | S2 |

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| Potamogeton strictifolius | Straight-leaf Pondweed | | ST | G5 | S1 |
| Potamogeton vaseyi | Vasey's Pondweed | | SE | G4 | S1 |
| Potentilla anserina | Silverweed | | ST | G5 | S2 |
| Prunus pensylvanica | Fire Cherry | | SR | G5 | S2 |
| Psilocarya nitens | Short-beaked Bald-rush | | SX | G4? | SX |
| Psilocarya scirpoides | Long-beaked Bulrush | | ST | G4 | S2 |
| Pyrola rotundifolia var. americana | American Wintergreen | | SR | G5 | S2 |
| Pyrola secunda | One-sided Wintergreen | | SX | G5 | SX |
| Rhus aromatica var. arenaria | Beach Sumac | | SR | G5T3Q | S2 |
| Rhynchospora macrostachya | Tall Beaked-rush | | SR | G4 | S2 |
| Rhynchospora recognita | Globe Beaked-rush | | SE | G5? | S1 |
| Salix cordata | Heartleaf Willow | | ST | G4 | S2 |
| Schoenoplectus hallii | Hall's Bulrush | | SE | G2G3 | S1 |
| Scirpus expansus | Bulrush | | SE | G4 | S1 |
| Scirpus purshianus | Weakstalk Bulrush | | SR | G4G5 | S1 |
| Scirpus smithii | Smith's Bulrush | | SE | G5? | S1 |
| Scirpus subterminalis | Water Bulrush | | SR | G4G5 | S2 |
| Scirpus torreyi | Torrey's Bulrush | | SE | G5? | S1 |
| Scleria reticularis | Reticulated Nutrush | | ST | G4 | S2 |
| Selaginella rupestris | Ledge Spike-moss | | ST | G5 | S2 |
| Sisyrinchium montanum | Strict Blue-eyed-grass | | SE | G5 | S1 |
| Solidago ptarmicoides | Prairie Goldenrod | | SR | G5 | S2 |
| Solidago simplex var. gillmanii | Sticky Goldenrod | | ST | G5T3? | S2 |
| Sorbus decora | Northern Mountain-ash | | SX | G4G5 | SX |
| Sparganium androcladum | Branching Bur-reed | | ST | G4G5 | S2 |
| Spiranthes lucida | Shining Ladies'-tresses | | SR | G5 | S2 |
| Spiranthes magnicamporum | Great Plains Ladies'-tresses | | SE | G4 | S1 |
| Stipa avenacea | Blackseed Needlegrass | | SR | G5 | S2 |
| Styrax americanus | American Snowbell | | WL | G5 | S3 |
| Talinum rugospermum | Prairie Fame-flower | | ST | G3G4 | S2 |
| Thalictrum pubescens | Tall Meadowrue | | ST | G5 | S2 |
| Thuja occidentalis | Northern White Cedar | | SE | G5 | S1 |
| Trichostema dichotomum | Forked Bluecurl | | SR | G5 | S2 |
| Trillium cernuum var. macranthum | Nodding Trillium | | SE | G5T4 | S1 |
| Utricularia cornuta | Horned Bladderwort | | ST | G5 | S2 |
| Utricularia minor | Lesser Bladderwort | | ST | G5 | S1 |
| Utricularia purpurea | Purple Bladderwort | | SR | G5 | S2 |
| Utricularia subulata | Zigzag Bladderwort | | ST | G5 | S2 |
| Vaccinium oxycoccos | Small Cranberry | | ST | G5 | S2 |
| Valerianella chenopodiifolia | Goose-foot Corn-salad | | SE | G5 | S1 |

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

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

Indiana County Endangered, Threatened and Rare Species List

County: Porter

| Species Name | Common Name | FED | STATE | GRANK | SRANK |
|--|-------------------------------------|-----|-------|-------|-------|
| Viburnum opulus var. americanum | Highbush-cranberry | | SE | G5T5 | S1 |
| Viola primulifolia | Primrose-leaf Violet | | ST | G5 | S2 |
| Woodwardia areolata | Netted Chainfern | | SR | G5 | S2 |
| Xyris difformis | Carolina Yellow-eyed Grass | | ST | G5 | S2 |
| Zannichellia palustris | Horned Pondweed | | SR | G5 | S2 |
| High Quality Natural Community | | | | | |
| Forest - upland dry | Dry Upland Forest | | SG | G4 | S4 |
| Forest - upland dry-mesic | Dry-mesic Upland Forest | | SG | G4 | S4 |
| Forest - upland mesic | Mesic Upland Forest | | SG | G3? | S3 |
| Lake - lake | Lake | | SG | GNR | S2 |
| Lake - pond | Pond | | SG | GNR | SNR |
| Prairie - dry-mesic | Dry-mesic Prairie | | SG | G3 | S2 |
| Prairie - mesic | Mesic Prairie | | SG | G2 | S2 |
| Prairie - sand dry | Dry Sand Prairie | | SG | G3 | S2 |
| Prairie - sand dry-mesic | Dry-mesic Sand Prairie | | SG | G3 | S3 |
| Prairie - sand wet-mesic | Wet-mesic Sand Prairie | | SG | G1? | S2 |
| Prairie - wet | Wet Prairie | | SG | G3 | S1 |
| Primary - dune lake | Foredune | | SG | G3 | S1 |
| Savanna - sand dry | Dry Sand Savanna | | SG | G2? | S2 |
| Savanna - sand dry-mesic | Dry-mesic Sand Savanna | | SG | G2? | S2S3 |
| Wetland - fen | Fen | | SG | G3 | S3 |
| Wetland - fen forested | Forested Fen | | SG | G3 | S1 |
| Wetland - marsh | Marsh | | SG | GU | S4 |
| Wetland - meadow sedge | Sedge Meadow | | SG | G3? | S1 |
| Wetland - panne | Panne | | SG | G2 | S1 |
| Wetland - swamp shrub | Shrub Swamp | | SG | GU | S2 |
| Other | | | | | |
| Critical habitat area - charadrius melodus | Piping Plover Critical Habitat Area | | | GNR | SNR |

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

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



INDIANA DEPARTMENT OF TRANSPORTATION
LAPORTE DISTRICT

Appendix E
Section 106 Documentation

**FEDERAL HIGHWAY ADMINISTRATION
SECTION 4(f) COMPLIANCE REQUIREMENTS (for historic properties) AND
SECTION 106 FINDINGS AND DETERMINATIONS
AREA OF POTENTIAL EFFECT
ELIGIBILITY DETERMINATIONS
EFFECT FINDING
Intersection Improvement
US 20 at Waverly Road
Westchester Township, Porter County
DES. NO. 1006622
FEDERAL PROJECT NO.**

AREA OF POTENTIAL EFFECT

(Pursuant to 36 CFR Section 800.4(a)(1))

The area of potential effects (APE) for the proposed project was drawn to include the land that would be physically and visually impacted by the project. The APE has been determined as those areas of existing and proposed right-of-way and incidental construction, also including areas surrounding the project from which the intersection improvement would likely be visible. The proposed project is in the INDOT LaPorte District.

Area land use is commercial in the northeast and southeast quadrants and residential in the southwest and northwest quadrants. Splash Down Dunes Water Park is located in the northeast quadrant. Area topography is level. Permanent right-of-way in the approximate amount of .69 acre will be required for the proposed project; in addition, temporary right-of-way in the approximate amount of .32 acre will be required for the project. Traffic will be maintained throughout construction by means of selective lane closures

ELIGIBILITY DETERMINATIONS

(Pursuant to 36 CFR 800.4(c)(2))

The APE contains no properties considered eligible for listing in the National Register of Historic Places.

EFFECT FINDING

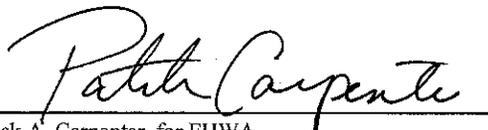
(Pursuant to 36 CFR 800.4(d)(1))

INDOT, acting on FHWA's behalf, has determined a "No Historic Properties Affected" finding is appropriate for this undertaking because no properties eligible for listing in the National Register are present within the area of potential effects. INDOT respectfully requests the Indiana State Historic Preservation Officer provide written concurrence with INDOT's Section 106 determination of "No Historic Properties Affected."

SECTION 4(f) COMPLIANCE REQUIREMENTS (for historic properties)

This undertaking will not convert property from any Section 4(f) historic property to a transportation use; the INDOT, acting on FHWA's behalf, has determined the appropriate Section 106 finding is "No Historic Properties Affected;" therefore, no Section 4(f) evaluation is required.

Consulting parties will be provided a copy of the findings and determinations in accordance with INDOT and FHWA's Section 106 procedures. Comments will be accepted for 30 days upon receipt of the findings.



Patrick A. Carpenter, for FHWA
Manager, Cultural Resources Office
INDOT Environmental Services

9-29-2015

Approved Date

**FEDERAL HIGHWAY ADMINISTRATION
DOCUMENTATION OF SECTION 106 FINDING OF
NO HISTORIC PROPERTIES AFFECTED
SUBMITTED TO THE STATE HISTORIC PRESERVATION OFFICER
PURSUANT TO 36 CFR 800.4(d)(1)
Intersection Improvement
US 20 at Waverly Road
Westchester Township, Porter County
DES. NO. 1006622
FEDERAL PROJECT NO.**

1. DESCRIPTION OF UNDERTAKING

Des. #1006622 is an intersection improvement project located on US 20 at Waverly Road in Westchester Township, Porter County. In the proposed project area, US 20 is functionally classified as an Urban Other Principal Arterial route with a design speed of 50 mph. The project is located within the INDOT LaPorte District. The federal involvement in the project is funding received from the Federal Highway Administration (FHWA).

US 20 lane width is 12 feet with a 3-foot paved shoulder; traffic waiting to turn left onto Waverly Road lines up in the passing lanes. The crest of a vertical curve is located to the west of the US 20/Waverly Road intersection. This crest causes the queuing left-turning vehicles to be less visible, while trucks are accelerating to crest the curve. In addition, several commercial drives are located within the project area.

The preferred alternative for Des. #1006622 is an intersection improvement that will widen pavement 8 feet on both sides of US 20. This widening will provide a 12-foot left-turn lane and 4-foot paved shoulder in both eastbound and westbound directions. The radii of the approaches will be improved to meet the widened pavement, and the existing traffic signal will be replaced with modernized signal-heads and back-plates.

Area land use is commercial in the northeast and southeast quadrants and residential in the southwest and northwest quadrants. Splash Down Dunes Water Park is located in the northeast quadrant. Area topography is level. Permanent right-of-way in the approximate amount of .69 acre will be required for the proposed project; in addition, temporary right-of-way in the approximate amount of .32 acre will be required for the project. Traffic will be maintained throughout construction by means of selective lane closures.

The area of potential effects (APE) for this project was drawn to include the land that would be physically and visually impacted by the project. The APE has been determined as those areas of existing and proposed right-of-way and incidental construction, also including areas surrounding the project from which the intersection improvement would likely be visible. (See APE map in *Appendix B*.)

2. EFFORTS TO IDENTIFY HISTORIC PROPERTIES

The State and National Register listings for Porter County were checked. None of the listed Westchester Township are located in or near the proposed project's APE.

Porter County was surveyed for the Indiana Historic Sites and Structures Inventory in 1991. The Porter County Interim Report (Westchester Township) was consulted. The following surveyed Westchester Township resource was located within the APE for the proposed project: **1) #127-175-05026** (NA Oak Hill Rd.; ca.-1930 bungalow; rated "Contributing"); **2) #127-175-05027** (NA Waverly Rd.; ca.-1925 bungalow; rated "Contributing"). No other surveyed Westchester Township resources were located in the project APE.

Ten (10) newly inventoried resources (NIR) were located within the APE for Des. #1006622: **1) NIR #001** (1041 E. Sievert St.; ca.-1960 minimal ranch; INDOT-rated "Contributing"); **2) NIR #002** (1021 Sievert St.; ca.-1965 ranch; INDOT-rated "Contributing"); **3) NIR #003** (NA Stephen St.; ca.-1950 Lustron House; INDOT-rated "Contributing"); **4) NIR #004** (1100 Hokanson St.; ca.-1940 Colonial Revival; INDOT-rated "Non-contributing"); **5) NIR #005** (NA Hokanson St.; ca.-1955-1960 minimal ranch; INDOT-rated "Contributing"); **6) NIR #006** (1121 Hokanson St.; ca.-1950 hipped roof vernacular; INDOT-rated "Non-contributing"); **7) NIR #007** (NA Waverly Rd.; ca.-1925-1930 bungalow; INDOT-rated "Contributing"); **8) NIR #008** (1100 S. Waverly Rd.; ca.-1930-1935 bungalow; rated "Contributing"); **9) NIR #009** (1010 S. Waverly; ca.-1950 minimal traditional; INDOT-rated "Contributing"); **10) NIR #010** (NA US 20; north side; ca.-1955 limestone ranch; INDOT-rated "Contributing"). No other newly inventoried resources were located in the proposed project area.

Above-ground resources that met the requisite age and/or conditions for NR-eligibility assessment were analyzed in the text of the historic property report (Branigin/August, 2015) prepared for this project. It was the author's conclusion that the proposed project's APE did not contain any above-ground resources listed in or eligible for inclusion in the National Register of Historic Places. (See report conclusions in *Appendix E*.)

With regard to archaeological concerns, a Phase Ia archaeological reconnaissance/archaeological short report (Coon/July, 2015) was completed, and was submitted to the office of the SHPO for review and comment. The report recommended project clearance based on the author's opinion that "...the Phase Ia archaeological reconnaissance has located no archaeological sites within the project area and it is recommended that the project be allowed to proceed as planned..." (See report conclusions in *Appendix F*).

On August 6, 2015, the Des. #1006619 early coordination letter (ECL) and the HPR were uploaded to and posted electronically on INDOT's Section 106 document-posting website, IN SCOPE, at <http://netservices.indot.in.gov/Section106Documents/Default.aspx>. Hard copies of the ECL were also mailed to the following, who were invited to be Section 106 consulting parties and to aid in identification of historic properties: Indiana State Historic Preservation Officer (IN SHPO); Indiana Landmarks Northern Regional Office; Porter County Historian; Historic Preservation of Porter County, Inc.; Indiana Lincoln Highway Association; Kankakee Valley Historical Society; Westchester Township History Museum; Porter County Commissioners

The ECL informed consulting parties that a hard copy of the HPR report was submitted to the Indiana State Historic Preservation Officer (SHPO), and stated that INDOT would provide a hard copy of the HPR to any invited consulting party who makes such a request within seven (7) days of receipt of this notification. No consulting party requested a hard copy of the HPR. (See letter in *Appendix D*.)

The SHPO responded in a letter dated September 10, 2015 (DHPA #18063), stating in part the following: "...Based on the identification and evaluation information provided in the HPR [Branigin, 08/2015], it does not appear that any above-ground properties that are listed in or eligible for inclusion in the National Register of Historic Places ("NRHP") exist within the proposed APE..." (See letter in *Appendix D*).

With regard to archaeological resources, the SHPO's September 10, 2015 letter (DHPA #18063) stated in part the following: "...We agree with the opinion of the archaeologist, as expressed in the archaeological field reconnaissance survey report (Coon, 07/13/2015) that, due to the lack of specificity about the site's location in the McAllister document (1932), the location of the archaeological site 12-Pr-0005 cannot sufficiently be determined..." (See letter in *Appendix D*).

No other invited consulting party responded to the August 6, 2015 letter/IN SCOPE posting.

INDOT, on behalf of FHWA, made a determination of "No Historic Properties Affected" for this project. This finding is appropriate because no resources listed in or eligible for inclusion in the National Register were present in the proposed project area.

3. BASIS FOR FINDING

A finding of "No Historic Properties Affected" is appropriate because the proposed project area contains no NR-listed or eligible properties.

A public notice regarding FHWA's APE and "No Historic Properties Affected" finding will be issued for this project in a local newspaper in October, 2015. A 30-day comment period will be given. This document will be revised, if necessary, after the public notice to reflect any comments received.

APPENDIX

- A. List of Consulting Parties**
- B. Maps/Plans**
- C. Tables/Photos**
- D. Correspondence**
- E. HPR Conclusions Page**
- F. Archaeological Report conclusions pages**

Appendix A---List of Consulting Parties

Des. #1006622
 US 20 at Waverly Road
 Intersection Improvement
 Westchester Township, Porter County
 Consulting Parties: Those who responded to early coordination are shaded

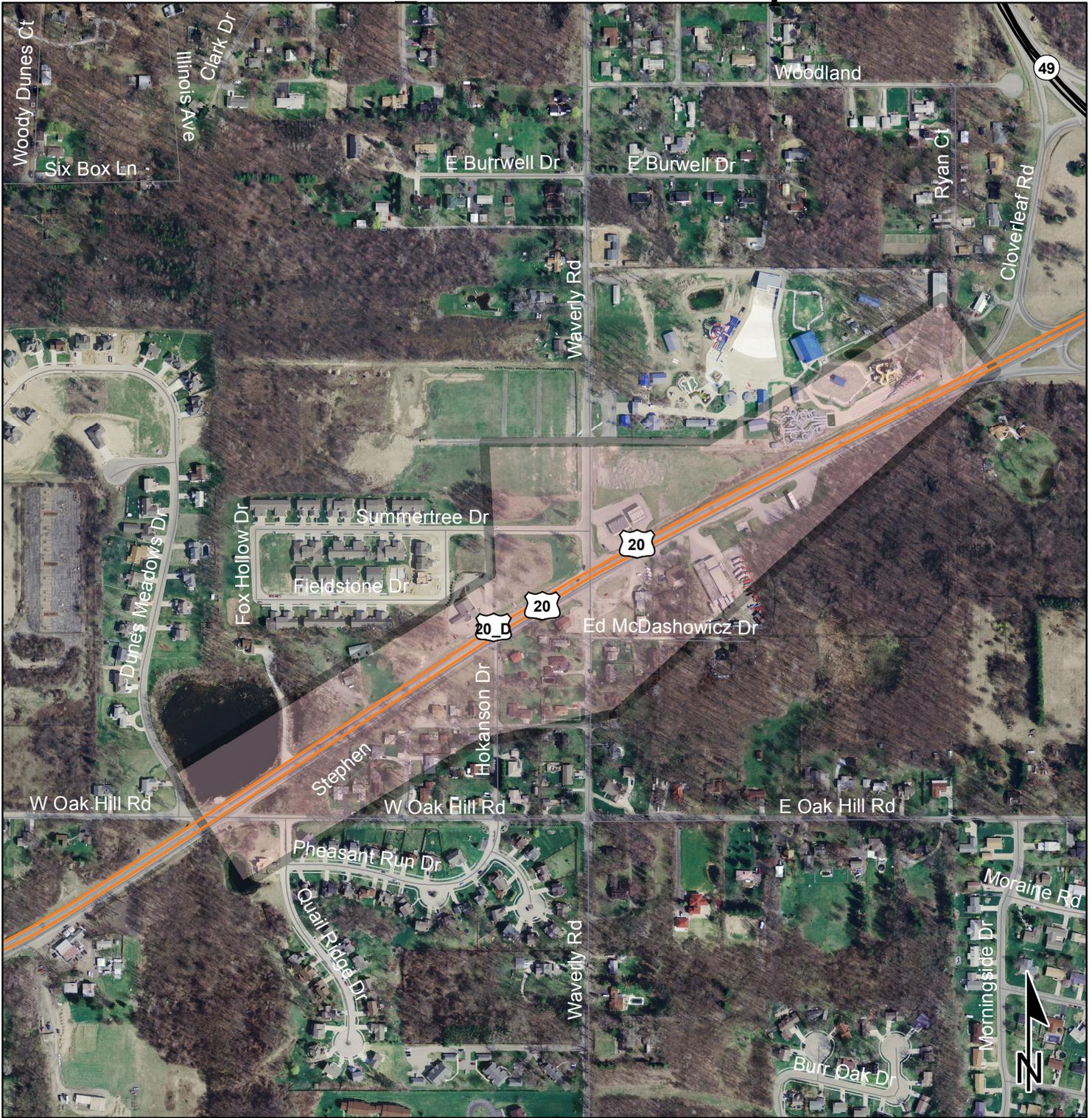
| Title1 | First_Name | Last_Name | Title | Company_Name | Address_Line_1 | Address_Line_2 | Address_Line_3 | City | State | ZIP_Code |
|--------|------------------|----------------|-------------------------------------|--|---|---|----------------|--------------|-------|------------|
| Mr. | Cameron F. | Clark | State Historic Preservation Officer | Indiana Department of Natural Resources | Division of Historic Preservation and Archaeology | Indiana Government Center South, Rm. W274 | | Indianapolis | IN | 46204 |
| Mr. | Todd | Zieger | Dir. | IN Landmarks NRO | 402 W. Washington St. | | | South Bend | IN | 46601 |
| Ms. | Serena | Sutliff | Curator | Westchester Township History Museum | 700 W. Porter Ave. | | | Chesterton | IN | 46304 |
| Mr. | Kevin | Pazour | Ex. Dir. | Porter County Museum | 153 Franklin St. | | | Valparaiso | IN | 46383-5631 |
| | Porter Co. Comm. | | | | 155 Indiana Ave., Ste. 505 | | | Valparaiso | IN | 46383 |
| Mr. | Jeff | Jacobs | Pres. | Historic Preservation of Porter County, Inc. | 236 Haas Street | | | Valparaiso | IN | 46383 |
| Ms. | Laura | Weston-Eichert | Pres. | IN Lincoln Highway Assoc., Inc. | 402 W. Washington St. | | | South Bend | IN | 46601 |
| Mr. | John | Hodson | Pres. | Kankakee Valley Historical Society | 22 West CR 1050S | | | Kouts | IN | 46347 |
| Mr. | Larry | Clark | Porter County Historian | 107 Jefferson St. | | | | Valparaiso | IN | 46383-0524 |

Appendix B---Maps/Plans

Intersection with Waverly Road US 20/Porter Co., IN

Area of Potential
Effects
(APE)
Map

Des. #1006622 Intersection Improvement



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

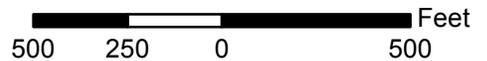
Sources: Non Orthophotography

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

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

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

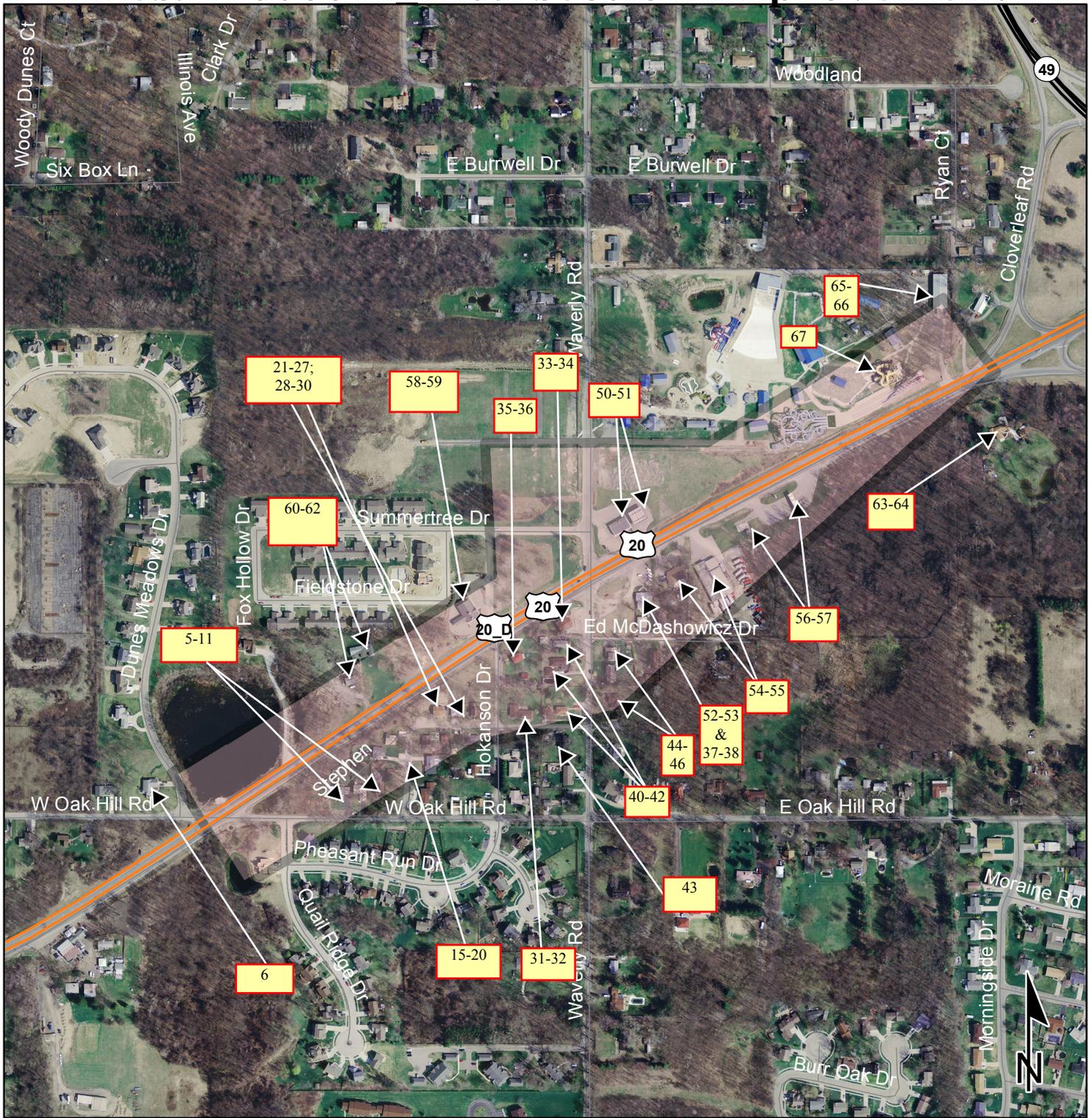
Scale 1:6,077



Intersection with Waverly Road US 20/Porter Co., IN

Des. #1006622 Intersection Improvement

APE PHOTO
KEY



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

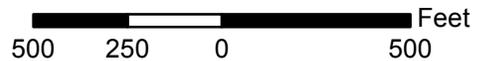
Sources: Non Orthophotography

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

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

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

Scale 1:6,077



| | | | |
|--|------------------------|--|-------------|
| | Section Town and Range | | Interstate |
| | County Boundary | | State Route |
| | Local Road | | US Route |

| | |
|----------|-------------|
| PROJECT | DESIGNATION |
| 1006622 | 1006622 |
| CONTRACT | BRIDGE FILE |
| T-37494 | |

INDIANA DEPARTMENT OF TRANSPORTATION

R/W CODE: 6068
DES. NO.: 1006622



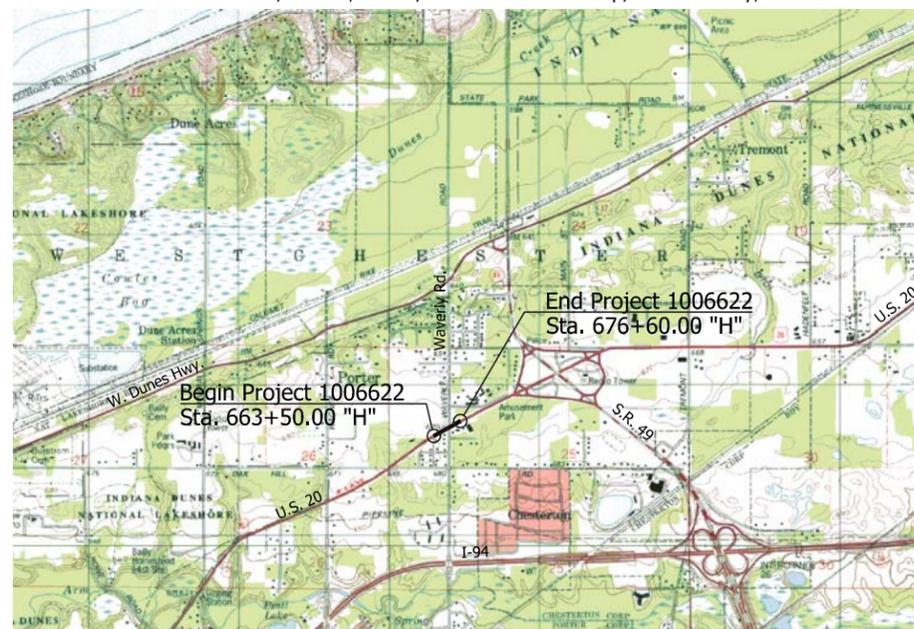
RIGHT-OF-WAY PLANS

ROUTE: U.S. 20 FROM: RP 29+94.00 TO: RP 29+94.00

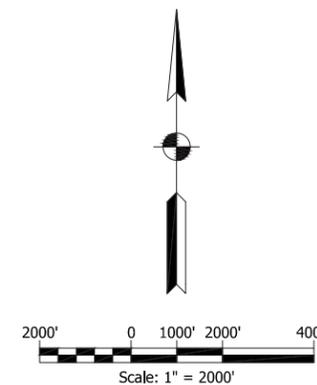
PROJECT NO. ~~1006622~~ ~~P.E.~~
1006622 R/W
~~1006622~~ ~~CONST.~~

Gross Length: 0.25 MI.
Net Length: 0.25 MI.
Maximum Grade: 2.48%

Intersection Improvement on U.S. 20 at Waverly Road
in Sections 25 & 26, T-37-N, R-6-W, Westchester Township, Porter County, Indiana



LOCATION MAP
PORTER COUNTY



| | |
|---------------------------|----------------------------|
| TRAFFIC DATA | U.S. 20 (Line "H") |
| A.A.D.T. (2017) | 8,309 V.P.D. |
| A.A.D.T. (2037) | 8,309 V.P.D. |
| D.H.V. (2037) | 10% |
| DIRECTIONAL DISTRIBUTION | 52% |
| TRUCKS | 16% A.A.D.T. 10% D.H.V. |
| DESIGN DATA | |
| DESIGN SPEED | 50 M.P.H. |
| PROJECT DESIGN CRITERIA | 3R (NON-FREEWAY) |
| FUNCTIONAL CLASSIFICATION | PRINCIPAL ARTERIAL |
| RURAL/URBAN | RURAL |
| TERRAIN | LEVEL |
| ACCESS CONTROL | NONE |



LATITUDE: 41°37'55"N LONGITUDE: 87°04'02"W
HYDROLOGIC UNIT CODE (S): X

PRELIMINARY R/W PLANS
June 10, 2015

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2014
TO BE USED WITH THESE PLANS

APPROVED: _____ CHIEF, DIVISION OF REAL ESTATE DATE _____

RECOMMENDED FOR APPROVAL: _____ MANAGER, R/W ENGINEERING SECTION DATE _____

NOT FOR
CONSTRUCTION

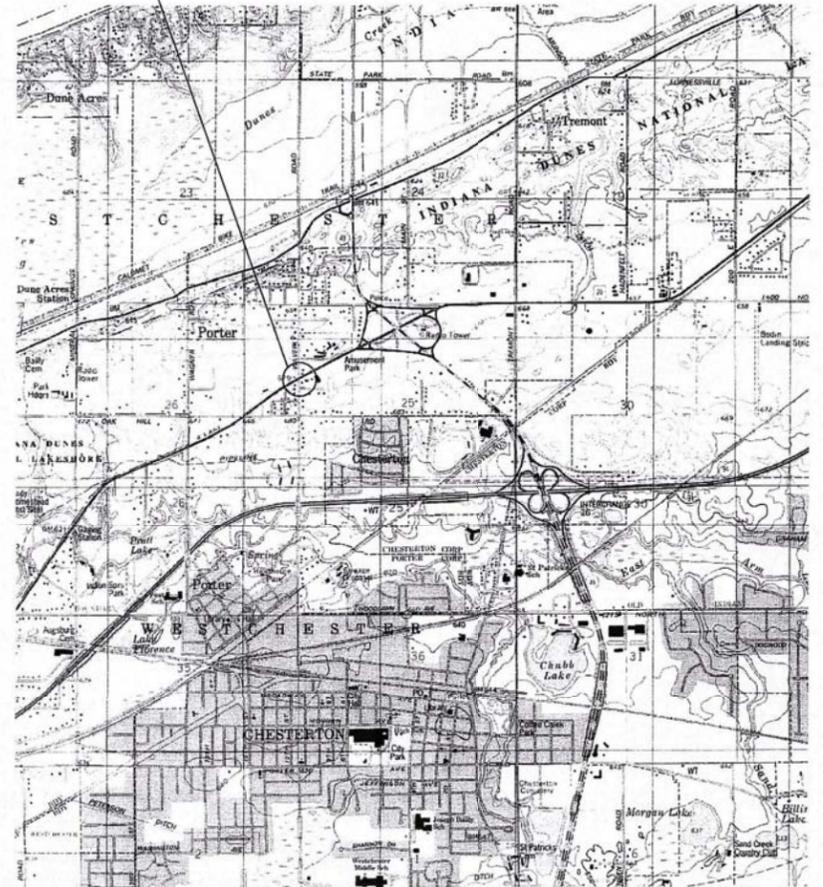
| | |
|-------------|---------|
| B-4 | |
| SURVEY BOOK | SHEETS |
| CONTRACT | PROJECT |
| T-37494 | 1006622 |
| DESIGNATION | 1006622 |
| 1 | of 13 |

| REFERENCE POINT LOCAL GROUND COORDINATE TABLE (UNITS ARE U.S. SURVEY FEET) | | | | | | | |
|--|-------------|-------------|-------|--------------|-------------|-------------|------|
| POINT NUMBER | NORTHING | EASTING | LINE | POINT NUMBER | NORTHING | EASTING | LINE |
| 501 | 29,605.8068 | 29,474.8411 | "H" | 406 | 30,599.5313 | 30,445.8898 | "H" |
| 502 | 29,893.7167 | 29,909.1943 | "H" | 407 | 30,389.4990 | 30,807.4182 | "H" |
| 503 | 30,250.5069 | 30,447.4633 | "H" | 408 | 30,569.3598 | 31,154.3086 | "H" |
| 504 | 30,544.5618 | 31,022.4107 | "H" | 052 | 32,043.3178 | 27,835.8477 | N/A |
| 505 | 30,812.6207 | 31,546.5296 | "H" | 054 | 32,035.5130 | 30,482.1616 | N/A |
| 510 | 31,221.8300 | 32,344.6927 | "H" | 056 | 32,034.0289 | 33,110.2260 | N/A |
| 511 | 31,699.8659 | 33,279.3127 | "H" | 058 | 32,038.1101 | 35,743.8667 | N/A |
| 550 | 30,000.0000 | 30,000.0000 | "GPS" | 070 | 29,410.2594 | 25,187.1285 | N/A |
| 551 | 31,239.3520 | 32,303.3680 | "GPS" | 072 | 29,403.2213 | 27,835.7368 | N/A |
| 400 | 29,819.2552 | 29,738.3032 | "H" | 074 | 29,397.2333 | 30,487.7509 | N/A |
| 401 | 29,936.1933 | 30,055.6282 | "H" | 076 | 29,394.3849 | 33,123.4637 | N/A |
| 402 | 30,178.8413 | 30,283.5519 | "H" | 078 | 29,396.7453 | 35,754.7219 | N/A |
| 403 | 29,818.7524 | 30,472.8612 | "H" | 090 | 26,776.9021 | 25,187.7699 | N/A |
| 404 | 30,241.8987 | 30,550.2065 | "H" | 094 | 26,761.9967 | 30,489.4592 | N/A |
| 405 | 30,341.2101 | 30,541.0790 | "H" | | | | |

| REFERENCE POINT STATE PLANE COORDINATE TABLE (UNITS ARE U.S. SURVEY FEET) | | | | | | | |
|---|----------------|----------------|-------|--------------|----------------|----------------|------|
| POINT NUMBER | NORTHING | EASTING | LINE | POINT NUMBER | NORTHING | EASTING | LINE |
| 501 | 2,324,611.5881 | 2,956,108.9556 | "H" | 406 | 2,325,605.2524 | 2,957,079.9455 | "H" |
| 502 | 2,324,899.4805 | 2,956,543.2825 | "H" | 407 | 2,325,395.2328 | 2,957,441.4520 | "H" |
| 503 | 2,325,256.2491 | 2,957,081.5189 | "H" | 408 | 2,325,575.0827 | 2,957,788.3214 | "H" |
| 504 | 2,325,550.2862 | 2,957,656.4315 | "H" | 052 | 2,327,048.9515 | 2,954,470.0613 | N/A |
| 505 | 2,325,818.3289 | 2,958,180.5187 | "H" | 054 | 2,327,041.1472 | 2,957,116.2151 | N/A |
| 510 | 2,326,227.5135 | 2,958,978.6335 | "H" | 056 | 2,327,039.6632 | 2,959,744.1205 | N/A |
| 511 | 2,326,705.5204 | 2,959,913.1969 | "H" | 058 | 2,327,043.7442 | 2,962,377.6018 | N/A |
| 550 | 2,325,005.7574 | 2,956,634.0827 | "GPS" | 070 | 2,324,416.0525 | 2,951,821.5025 | N/A |
| 551 | 2,326,245.0344 | 2,958,937.3113 | "GPS" | 072 | 2,324,409.0148 | 2,954,469.9505 | N/A |
| 400 | 2,324,825.0235 | 2,956,372.4017 | "H" | 074 | 2,324,403.0272 | 2,957,121.8041 | N/A |
| 401 | 2,324,941.9546 | 2,956,689.7075 | "H" | 076 | 2,324,400.1789 | 2,959,757.3574 | N/A |
| 402 | 2,325,184.5879 | 2,956,917.6174 | "H" | 078 | 2,324,402.5392 | 2,962,388.4563 | N/A |
| 403 | 2,324,824.5208 | 2,957,106.9153 | "H" | 090 | 2,321,782.8545 | 2,951,822.1438 | N/A |
| 404 | 2,325,247.6415 | 2,957,184.2559 | "H" | 094 | 2,321,767.9500 | 2,957,123.5123 | N/A |
| 405 | 2,325,346.9469 | 2,957,175.1290 | "H" | | | | |

2014-025930
 FILED FOR RECORD
 DEC 19 2014
 9:54 AM
 PORTER COUNTY RECORDER
 JON C. MILLER

PROJECT LOCATION



070 (BRASS PLUG IN R.R. IRON DOWN 5") MAG NAIL S.E. JOINT POLE 223/920
 CENTER OF PHONE TUB
 W. 1/4 COR. SEC. 26 T-37-N R-6-W

072 NAIL/CAP W. SIDE OLD POWER POLE
 INTERSECTION OF WAGNER AND OAKHILL (SURVEY NAIL IN 2" SQ. STEEL BLOCK IN MONUMENT BOX) DOWN 4"
 CENTER COR. SEC. 26 T-37-N R-6-W

074 (BROKEN OFF HARRISON MON. DOWN 5.5") PK NAIL N.W. SIDE OF POWER POLE *234/986
 PK NAIL S.W. SIDE POWER POLE *234/323
 W. 1/4 COR. SEC. 25 T-37-N R-6-W

076 NAIL/TAG N. SIDE NIPSCO POLE 228/732
 OAK HILL RD.
 (1.1/8" IRON ROD BENT WITH MAG NAIL IN END IN MONUMENT BOX DOWN 4" 1.5' S. OF CL.)
 CENTER COR. SEC. 25 T-37-N R-6-W

078 (BERNTSEN MONUMENT DOWN 4") S.E. FACE FENCE CORNER POST
 MONUMENT IS AT END OF STREET
 E. 1/4 COR SEC 25 T-37-N R-6-W

090 (1" IRON BAR BENT OVER 2" DOWN) MAG NAIL IN DECK 16.9' SO. OF NO. EDGE OF BRIDGE DECK DOWN 2"
 S.W. COR. SEC. 25 T-37-N R-6-W

094 (PK NAIL IN BRIDGE DECK 16.9' SO. OF NO. EDGE OF BRIDGE DECK DOWN 2")
 DRILL HOLE
 DRILL HOLE
 DRILL HOLE
 DRILL HOLE
 S.W. COR. SEC. 25 T-37-N R-6-W

406 (REBAR W/CAP FLUSH) 38' E. TO C.L. OF WAVERLY RD
 CENTER OF WATER DRAIN INLET FLY STATION

407 (REBAR W/CAP FLUSH) 37.5' TO C.L. US20
 NAIL/TAG N.E. SIDE POWER POLE *960/802
 R.R. SPIKE N. SIDE POWER POLE *234/317
 FLY STATION

408 (REBAR/CAP FLUSH) 38.5' TO C.L. US20
 N.E. COR. OF N. STEEL CANOPY POST OVER GAS ISLAND
 W. COR. OF 6"X6" PINKERTON SIGN
 FLY STATION

052 (2"X2" STEEL BAR W/SURVEY NAIL DOWN 10" IN 12" STEEL MON.)
 NAIL/TAG S.W. SIDE OF JOINT POLE *237/184
 WAGNER RD.
 N. 1/4 COR. SEC. 26 T-37-N R-6-W

054 (R.R. RAIL DOWN 10" IN TOWN OF PORTER MANHOLE 2' EAST OF CL) PK NAIL S.E. SIDE TEL. POLE 953/660
 HJELM RD.
 N.E. COR. SEC. 26 T-37-N R-6-W

056 (1/2" IRON PIPE 6.5' W. OF CL) PK NAIL E. SIDE POWER POLE
 SCREW S.W. SIDE POWER/LIGHT POLE 957/820
 N. 1/4 COR. SEC. 25 T-37-N R-6-W

058 RR SPIKE FLUSH
 20 PENNY NAIL W. SIDE PWP 243/787
 MAG NAIL IN SHOULDER
 N.E. COR. SEC. 25 T-37-N R-6-W

551 (REBAR/CAP FLUSH) N. EDGE OF S. POST GARY VALPO/ CHESTERTON SIGN
 MIDDLE OF C.L. MONUMENT BOX
 N. EDGE OF NO PARKING SIGN
 GPS CONTROL

400 S.E. CORNER OF FLAGPOLE 50 MPH SIGN POST
 SOUTH EDGE US20
 (REBAR W/INDOT CAP FLUSH)
 NORTH CORNER WOOD MAILBOX POST *150 WEST
 US20 32' TO C.L.
 FLY STATION

401 (REBAR W/INDOT CAP FLUSH) 44.5' TO C.L. WEST EDGE WARNING GAS PIPELINE NIPSCO SIGN POST
 WEST EDGE US20 & HOKANSON SIGN POST
 NORTH EDGE SCHOOL BUS SIGN POST
 FLY STATION

402 NAIL/TAG S.W. SIDE PNT 960/804
 NAIL/TAG SOUTH SIDE PNT
 NORTH SIDE NO PARKING SIGN POST
 US20 40' TO C.L.
 FLY STATION

403 (REBAR W/INDOT CAP FLUSH) WEST EDGE WAVERLY & STEPHENS SIGN POST
 TOP CENTER OF METAL GRATE ON WATER INLET
 FLY STATION

404 (REBAR W/INDOT CAP FLUSH) 41' TO C.L. NAIL/TAG NORTH SIDE PWP 960/802
 NAIL/TAG N.E. SIDE PWP 234/316
 FLY STATION

405 (SURVEY SPIKE IN ASPHALT FLUSH) 12.94' 272'
 W. COR. OF BOLT OF STRAIN POLE
 50' TO C.L. US20
 *1 E. COR. OF CONCRETE BASE FOR VACUUM
 *2 S.O. COR. OF STEEL PLATE SIGN POST 66'
 FLY STATION

501 SW SIDE "SIGNAL AHEAD" SIGN POST
 N. SIDE OF N. POST "SIGNAL AHEAD" SIGN POST
 PK NAIL IN 170 W. PRIV DR
 C.P. R.R. SPIKE FLUSH
 P.O.T. 658+00.00

502 N/CAP W. SIDE PWP 223/431
 C.P. R.R. SPIKE FLUSH
 N. SIDE "WATCH FOR SCHOOL BUS" SIGN POST
 P.C. 663+21.11

503 CUT S BOLT TRAF. STRAIN POLE
 MAG NAIL DOWN 1"
 CENTER NW BOLT TRAF. STRAIN POLE
 CENTER S BOLT TRAF. STRAIN POLE
 P.I. 669+66.89

504 NW COR. CONC. BASE "PINKERTON" SIGN POST
 W. SIDE "NO PARKING" SIGN POST
 N/CAP NW. SIDE PWP 236/435
 C.P. R.R. SPIKE FLUSH
 P.T. 676+11.31

505 (NOT SET)
 P.O.T. 682+00.00

510 W. COR. CHESTERTON VALPARAISO/GARY SIGN POST
 1" IRON ROD IN MONUMENT BOX DOWN 1"
 N. COR. "NO PARKING" SIGN POST
 W. COR. "NO LEFT TURN" SIGN POST
 O.P.O.T. 690+96.94

511 1" IRON ROD IN MONUMENT BOX DOWN 1"
 N. COR. "INDIANA DUNES STATE PARK" SIGN POST
 E. FACE OF FIBER OPTIC PED.
 N. FACE "INDIANA DUNE PARK" POST *1"
 O.P.O.T. 701+46.72

550 (REBAR/CAP FLUSH) NAIL/TAG E. SIDE POWER POLE *223/431
 E. EDGE OF TELEPHONE CABLE SIGN
 N.W. BOLT OF TELEPHONE TUB
 39.0' TO C.L. US20
 GPS CONTROL

** NOTE: ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED AND ANGLES ARE IN AZIMUTH FROM NORTH

| | |
|-------------------|--------------------|
| SURVEY STARTED | SEPTEMBER 04, 2014 |
| SURVEY COMPLETED | DECEMBER 12, 2014 |
| ROUTE PLAT SHEETS | 2 of 3 |

FIELD SURVEYOR STATEMENT
 THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXCLUDED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-26 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



I AFFIRM, UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW.
 CHECKED BY M.M. & A.H. DEC. 18, 2014
 RECOMMENDED FOR APPROVAL
 Douglas Furness
 REGISTERED LAND SURVEYOR, FIELD
 DATE DEC 19 2014

INDIANA DEPARTMENT OF TRANSPORTATION
LOCATION CONTROL ROUTE SURVEY

| | |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1:2400 | |
| COUNTY | DESIGNATION |
| PORTER | 1006622 |
| SURVEY BOOK | SHEETS |
| | 4 of 13 |
| CONTRACT | PROJECT |
| | 1006622 |

2014-025930
FILED FOR RECORD
DEC 19 2014
9:34 AM
PORTER COUNTY RECORDER
JON C. MILLER

SURVEYORS REPORT

FOR

ROUTE SURVEY-INDOT PROJECT NO. PAGE 1 OF 1
DES. # 1006622 DATE DECEMBER 15, 2014

GENERAL:

- ALL MONUMENT REFERENCE TIES ARE SHOWN ON THE ROUTE SURVEY PLAT.
- SHOULD ADDITIONAL USPLS CORNERS BE NEEDED WHERE NONE WERE FOUND, THEY SHOULD BE REESTABLISHED AND TIED INTO THIS SURVEY.
- ITEM NUMBERS REFER TO MONUMENT NUMBERS SHOWN ON ROUTE SURVEY PLAT PAGE NUMBER INDICATED ABOVE.

ALIGNMENT WAS ESTABLISHED BY USING THE NORTHWEST CORNER (POINT # 9007) AND NORTHEAST CORNER (POINT # 9011) OF TRIANGLE OAKS SUBDIVISION TO ESTABLISH THE BACK TANGENT BY USING A LINE 50 FEET PARALLEL TO THESE POINTS. THE FORE TANGENT WAS ESTABLISHED BY USING THE SOUTHEAST CORNER OF REESE MINOR SUBDIVISION (POINT # 3809) AND POINT # 3810 FARTHER TO THE NORTHEAST AND USING A LINE 50 FEET PARALLEL TO THESE TWO POINTS. THESE TWO TANGENTS CLOSELY FOLLOW OTHER PROPERTY PINS FOUND IN THE TANGENT AREAS. THESE TWO TANGENTS WERE INTERSECTED TO ESTABLISH THE POINT OF INTERSECTION OF THE CURVE. THE DELTA ANGLE FOR THE CURVE DOES NOT CHECK THE PLANS SO USED THE ANGLE FORMED BY INTERSECTION AND A RADIUS OF 11,459.16' TO CALCULATE THE CURVE DATA. COULD NOT GET STATIONING TO CHECK FROM WEST OF WAVERLY ROAD TO SR 49 WITHIN REASONABLE TOLERANCES. ESTABLISHED THE STATIONING ON THE P.I. USING EXISTING TOPOGRAPHY AT WAVERLY ROAD. THIS STATIONING SHOULD CHECK OLD PLANS FROM THE POINT OF INTERSECTION AND GOING HEAD LINE FAIRLY WELL. STATION EQUATION P.I. 669+66.89 LINE "H" = P.O.S.T. 669+66.89 LINE "G" PROJECT 193 SEC. "C" 1930.

POINTS 550 AND 551 ARE POSITIONS LOCATED USING A GPS ROVER WITH GEOID 2012A MODEL CONNECTED TO THE INCORS NETWORK (INDOT CONTINUOUSLY OPERATING REFERENCE STATIONS) NAD 83(2011) EPOCH 2010.0. INCORS NETWORK CORRECTIONS (RTCM 3.1) WERE RECEIVED VIA NTRIP USING A MIFI UNIT. THESE POSITIONS ARE LOCATED IN THE 1983 STATE PLANE COORDINATE SYSTEM FOR INDIANA WEST ZONE 1302 IN US SURVEY FOOT UNITS. THE STATE PLANE COORDINATE SYSTEM FOR THESE CONTROL POINTS WERE CONVERTED TO A LOCAL GROUND COORDINATE SYSTEM BY ASSIGNING A COORDINATE VALUE OF NORTH 30,000.0000 AND EAST 30,000.0000 TO POINT 550 WITH A GRID BEARING OF NORTH 61 DEGREES 43 MINUTES 01.37 SECONDS EAST TO POINT 551 WITH COORDINATES OF NORTH 31,239.3520 AND EAST 32,303.3680.

THIS GIVES A STARTING BEARING OF NORTH 56 DEGREES 27 MINUTES 42.10 SECONDS EAST FROM POINT 501 TO POINT 503 AND IS THE BASIS OF BEARING FOR THIS SURVEY.

A GROUND SCALE FACTOR OF 1.00006052305334 WAS USED FOR ALL POSITIONS COLLECTED IN STATE PLANE COORDINATES CONVERTED TO GROUND COORDINATES AND TRANSLATED TO THE LOCAL COORDINATE SYSTEM USED FOR THIS SURVEY. ALL TRANSLATIONS WERE DONE HOLDING POINT 550 AS THE FIXED ORIGIN.

ALL COORDINATES IN THE LOCAL GROUND SYSTEM USED FOR THIS SURVEY CAN BE CONVERTED TO STATE PLANE COORDINATE POSITION (GRID) USING THE FOLLOWING FORMULA FOR INDIANA ZONE 1302.

$$2.325.005.7574 - [(30,000 - \text{LOCAL NORTHING})(0.9999394806094)] = \text{STATE PLANE COORDINATE NORTHING}$$

$$2.956.634.0827 - [(30,000 - \text{LOCAL EASTING})(0.9999394806094)] = \text{STATE PLANE COORDINATE EASTING}$$

THE RELATIVE POSITIONAL ACCURACY (DUE TO RANDOM ERRORS IN MEASUREMENT) OF THIS SURVEY IS WITHIN THAT ALLOWABLE FOR AN ROUTE SURVEY (0.50) FEET AS DEFINED IN IAC 865.

- 501. SET RAILROAD SPIKE WITH CENTER PUNCH FLUSH AT A POINT ON TANGENT FOR STARTING POINT OF LINE "H". ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 502. SET RAILROAD SPIKE WITH CENTER PUNCH FLUSH AT STARTING POINT OF THE CURVE. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 503. SET MAG NAIL DOWN 1" AT THE POINT OF INTERSECTION OF TANGENTS. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 504. SET RAILROAD SPIKE WITH CENTER PUNCH FLUSH AT ENDING POINT OF THE CURVE. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 505. NO POINT SET AT A POINT ON TANGENT.
- 510. USED 1" IRON ROD IN MONUMENT BOX DOWN 1" FOUND FROM FIELD RESEARCH AS A OFFSET POINT ON TANGENT. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 0.3 FEET.
- 511. USED 1" IRON ROD IN MONUMENT BOX DOWN 1" FOUND FROM FIELD RESEARCH AS A OFFSET POINT ON TANGENT. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 0.3 FEET.
- 550. SET 5/8" REBAR WITH INDOT CAP FLUSH AS A GPS CONTROL POINT. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 551. SET 5/8" REBAR WITH INDOT CAP FLUSH AS A GPS CONTROL POINT. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 400. SET 5/8" IRON REBAR WITH INDOT CAP FLUSH AS A CONTROL POINT. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 401. SET 5/8" IRON REBAR WITH INDOT CAP FLUSH AS A CONTROL POINT. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 402. SET 5/8" IRON REBAR WITH INDOT CAP FLUSH AS A CONTROL POINT. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 403. SET 5/8" IRON REBAR WITH INDOT CAP FLUSH AS A CONTROL POINT. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
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- 406. SET 5/8" IRON REBAR WITH INDOT CAP FLUSH AS A CONTROL POINT. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 407. SET 5/8" IRON REBAR WITH INDOT CAP FLUSH AS A CONTROL POINT. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 408. SET 5/8" IRON REBAR WITH INDOT CAP FLUSH AS A CONTROL POINT. ORIGINAL MONUMENT, THEREFORE THERE IS NO UNCERTAINTY.
- 052. USED 2" x 2" STEEL BAR DOWN 10" FOUND FROM FIELD RESEARCH. THE ORIGIN OF THIS POINT IS UNKNOWN. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 3.00 FEET.
- 054. USED RAILROAD RAIL DOWN 10" FOUND FROM COUNTY SURVEYOR RECORDS. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 1.00 FEET.
- 056. USED 1/2" IRON PIPE DOWN 4" FOUND FROM FIELD RESEARCH. THE ORIGIN OF THIS POINT IS UNKNOWN. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 3.00 FEET.
- 058. USED RAILROAD SPIKE FLUSH FOUND FROM COUNTY SURVEYOR RECORDS. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 1.00 FEET. THIS POINT WAS DESTROYED BY MILLING AND REPAVING US 20. AT THE END OF FIELD WORK ON THIS SURVEY THE MONUMENT HAD STILL NOT BEEN REPLACED.
- 070. USED BRASS PLUG IN RAIROAD IRON DOWN 5" FOUND FROM COUNTY SURVEYOR RECORDS. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 1.00 FEET.
- 072. USED SURVEY NAIL IN 2" STEEL BLOCK IN MONUMENT BOX DOWN 4" FOUND FROM FIELD RESEARCH. THE ORIGIN OF THIS POINT IS UNKNOWN. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 3.00 FEET.
- 074. USED BROKEN OFF HARRISON MARKER DOWN 5.5" IN MONUMENT BOX FOUND FROM COUNTY SURVEYOR RECORDS. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 1.00 FEET.
- 076. USED 1 1/8" IRON ROD WITH MAG NAIL IN END IN MONUMENT BOX DOWN 4" FOUND FROM FIELD RESEARCH. THE ORIGIN OF THIS POINT IS UNKNOWN. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 3.00 FEET.
- 078. USED BERNTSEN MONUMENT DOWN 4" FOUND FROM COUNTY SURVEYOR RECORDS. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 1.00 FEET.
- 090. USED 1" IRON BAR BENT OVER DOWN 2" FOUND FROM COUNTY SURVEYOR RECORDS. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 1.00 FEET.
- 094. USED PK NAIL IN BRIDGE DECK DOWN 2" FOUND FROM COUNTY SURVEYOR RECORDS. THE UNCERTAINTY OF THIS POINT IS ESTIMATED TO BE PLUS OR MINUS 1.00 FEET.
- 999. FIELD RESEARCH WAS DONE, BUT NOTHING WAS FOUND AT THE NORTHWEST CORNER AND SOUTH 1/4 CORNER OF SECTION 26 T-37-N R-6-W. ALSO NOTHING FOUND AT THE SOUTHEAST CORNER AND SOUTH 1/4 CORNER OF SECTION 25 T-37-N R-6-W.

THE NUMBER OF SIGNIFICANT DIGITS SHOWN ARE FOR CALCULATION PURPOSES ONLY AND DO NOT INTEND TO IMPLY THE PRECISION OF THE ORIGINAL MEASUREMENTS.

| FOUND MONUMENT TABLE | | | |
|----------------------|-----------|-------------|--|
| POINT NUMBER | STATION | OFFSET | DESCRIPTION |
| 1066 | 667+15.41 | 422.10' RT | 5/8" REBAR SHOT AT BASE LEANING SOUTH |
| 1067 | 667+81.22 | 316.69' RT. | 1/2" PIPE DOWN 6" |
| 1116 | 668+45.23 | 212.40' RT. | 3/4" PINCH PIPE DOWN 6" |
| 1135 | 666+71.14 | 585.77' RT. | 1/2" PIPE DOWN 6" |
| 1650 | 671+25.99 | 273.96' LT. | WOOD HUB UP 1" |
| 1651 | 671+25.81 | 273.46' LT. | 5/8" REBAR WITH CAP FLUSH |
| 1652 | 671+21.97 | 266.51' LT. | 1/2" PINCH PIPE FLUSH |
| 1776 | 672+49.67 | 390.22' LT. | 5/8" REBAR LEANING N.W. DOWN 1" |
| 2296 | 663+75.83 | 65.14' RT. | 1/2" IRON PIPE DOWN 2" |
| 2297 | 663+07.97 | 167.18' RT. | 5/8" REBAR WITH GORSKI CAP DOWN 2" |
| 2298 | 664+27.55 | 244.30' RT. | 1/2" IRON PIPE DOWN 12" |
| 2299 | 664+94.53 | 141.60' RT. | 1/2" IRON PIPE DOWN 6" |
| 2300 | 665+27.69 | 90.05' RT. | 1/2" IRON PIPE DOWN 8" |
| 2301 | 665+99.51 | 62.86' RT. | 3/4" IRON PIPE DOWN 3" |
| 2302 | 666+03.01 | 65.16' RT. | 5/8" REBAR DOWN 1" |
| 2303 | 667+06.81 | 50.63' RT. | 5/8" REBAR WITH HUTSON CAP DOWN 1" |
| 2304 | 665+38.21 | 167.94' RT. | 1" IRON PIPE DOWN 4" |
| 2305 | 664+70.42 | 271.39' RT. | 1/2" IRON PIPE DOWN 8" |
| 2306 | 661+15.11 | 158.35' RT. | 1/2" REBAR WITH CAP DOWN 3" |
| 2307 | 664+32.06 | 49.71' LT. | 5/8" REBAR DOWN 2" |
| 2308 | 665+44.62 | 49.59' LT. | 5/8" REBAR UNDER LARGE BOULDER |
| 2309 | 661+21.83 | 194.02' RT. | 1" PINCH PIPE DOWN 2" |
| 2310 | 660+75.36 | 265.85' RT. | 1" IRON PIPE DOWN 2" |
| 2311 | 660+76.44 | 217.10' RT. | 1/2" REBAR IN 4" X 4" CONCRETE MONUMENT FLUSH |
| 2312 | 656+31.91 | 99.98' RT. | 1/2" REBAR W/CAP IN 4" X 4" CONCRETE MONUMENT FLUSH |
| 2313 | 658+36.31 | 236.08' RT. | 1/2" REBAR W/CAP DOWN 4" |
| 2314 | 658+94.57 | 274.96' RT. | 1/2" REBAR IN 4" X 4" CONCRETE MONUMENT DOWN 3" |
| 3133 | 669+46.13 | 49.62' LT. | 5/8" REBAR WITH BROKEN CAP FLUSH |
| 3187 | 666+26.29 | 49.77' LT. | MAG NAIL FLUSH |
| 3188 | 670+50.35 | 198.89' LT. | 5/8" REBAR DOWN 2" |
| 3189 | 670+49.03 | 194.97' LT. | MAG NAIL FLUSH IN CURB |
| 3190 | 670+47.47 | 146.32' LT. | 5/8" REBAR DOWN 9" |
| 3191 | 670+38.14 | 126.54' LT. | 5/8" REBAR FLUSH |
| 3400 | 671+00.01 | 50.14' LT. | 5/8" REBAR LEANING NORTH UP 1" |
| 3401 | 670+82.50 | 84.43' LT. | 5/8" REBAR DOWN 5" |
| 3613 | 673+87.63 | 169.64' LT. | 5/8" REBAR WITH CAP LS 29600014 DOWN 2" |
| 3804 | 672+24.41 | 404.71' LT. | MAG NAIL FLUSH IN ROAD WITH WASHER. A.M. KOLLAK LS29700021 |
| 3805 | 672+45.85 | 392.69' LT. | 3/4" PIPE DOWN 1" |
| 3806 | 671+90.89 | 280.68' LT. | 1/2" REBAR DOWN 8" BENT OVER TO THE NW |
| 3807 | 673+23.95 | 50.12' LT. | 1/2" REBAR DOWN 9" |
| 3808 | 676+12.87 | 46.93' LT. | 1/2" REBAR LEANING EAST DOWN 6" IN DIRT UNDER THE RIP RAP |
| 3809 | 678+84.03 | 50.00' LT. | 3/4" PIPE FLUSH |
| 3810 | 684+62.38 | 50.00' LT. | 5/8" REBAR FLUSH A.M. KOLLAK LS29700021 |
| 3811 | 670+49.99 | 49.89' RT. | 5/8" REBAR W/CAP LS29600014 DOWN 2" |
| 3813 | 672+38.96 | 50.24' RT. | 1" IRON ROD DOWN 7" |
| 3814 | 673+88.50 | 50.25' RT. | 5/8" REBAR W/CAP HUTSON LS80228 DOWN 3" |
| 5818 | 672+23.93 | 348.24' RT. | 5/8" REBAR DOWN 1" UNDER WATER |
| 5819 | 672+23.38 | 350.50' RT. | 1/2" REBAR W/CAP DOWN 6" UNDER WATER |
| 5821 | 674+92.75 | 490.12' RT. | 5/8" REBAR W/CAP DOWN 2" UNDER WATER |
| 5822 | 674+91.01 | 493.31' RT. | 5/8" REBAR W/CAP DOWN 2" UNDER WATER |
| 5860 | 664+73.48 | 95.83' LT. | 5/8" REBAR WITH BROKEN CAP DOWN 2" |
| 5861 | 664+65.31 | 101.33' LT. | 5/8" REBAR WITH CAP UP 2" |
| 5945 | 661+77.84 | 292.57' LT. | 5/8" REBAR FLUSH |
| 6281 | 665+19.57 | 181.37' LT. | 1/2" REBAR DOWN 6" |
| 6282 | 660+63.60 | 965.83' LT. | 3/4" PIPE DOWN 2" |
| 6283 | 658+16.69 | 593.32' LT. | REBAR W/CAP LS* 9964 DOWN 8" |
| 6284 | 657+89.30 | 552.02' LT. | 5/8" REBAR W/CAP LS*29600014 DOWN 4" |
| 9007 | 657+05.25 | 50.00' RT. | 1/2" REBAR IN CONCRETE FLUSH |
| 9008 | 658+75.31 | 49.95' RT. | 1/2" REBAR WITH CAP FLUSH CAN NOT READ |
| 9009 | 659+59.10 | 50.00' RT. | 1/2" REBAR UP 2" BENT OVER TO SOUTHWEST |
| 9010 | 659+83.25 | 49.92' RT. | 1/2" REBAR WITH CAP DOWN 2" CAN NOT READ |
| 9011 | 661+86.74 | 50.00' RT. | 1/2" REBAR WITH CAP IN 4" X 4" CONCRETE MONUMENT UP 2" |
| 9012 | 662+16.30 | 51.77' RT. | 5/8" REBAR WITH CAP UP 2" BENT TO THE SOUTHWEST |
| 9013 | 663+84.91 | 51.21' RT. | 5/8" REBAR WITH CAP UP 2" BENT TO THE NORTHEAST |
| 9014 | 666+12.06 | 50.78' RT. | 5/8" REBAR WITH HUTSON CAP DOWN 2" |

| | |
|-------------------|--------------------|
| SURVEY STARTED | SEPTEMBER 04, 2014 |
| SURVEY COMPLETED | DECEMBER 12, 2014 |
| ROUTE PLAT SHEETS | 3 of 3 |

FIELD SURVEYOR STATEMENT

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 CHECKED BY M.M. & A.H. DEC. 18, 2014
 RECOMMENDED FOR APPROVAL
 Douglas Furness, Registered Land Surveyor, Field, Dec. 19, 2014

INDIANA DEPARTMENT OF TRANSPORTATION
 LOCATION CONTROL ROUTE SURVEY

| | |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1:2400 | |
| COUNTY | DESIGNATION |
| PORTER | 1006622 |
| SURVEY BOOK | SHEETS |
| | 5 of 13 |
| CONTRACT | PROJECT |
| | 1006622 |

2014-025930

FILED FOR RECORD

DEC 19 2014
9:31 AM
PORTER COUNTY RECORDER
JON C. MILLER

052
N. 1/4 COR. SEC. 26
T-37-N R-6-W

- PROPERTY OWNERS**
- A JOSEPH R. & JOSEPHINE J. BARCELLI
 - B BANK ROCK, LLC
 - C FOX CHASE DEVELOPMENT
 - D COLE D G PORTER IN, LLC
 - E K J BASRA, LLC
 - F JAMES T. BARBAROSSA
 - G COLIN D. & MICHELLE J. SMITH
 - H DUNES REALTY, LLC
 - I FIRST STATE BANK OF PORTER
 - J R D VINE, LLC
 - K RYAN T. WALSH
 - L DANIEL L. & SONIA DOREEN FABB
 - M CARL M. & HELENEV WAGNER
 - N ARLENE E. TILDEN
 - O TONY R. & BONNIE CRAVEN KRUK
 - P KYLE R. BLYTHE
 - Q PHILLIP W. & DEBRA L. GRUZOSKY
 - R KIMBERLEY S. & CHARLES A. THUNHERST
 - S CHRISTINE ANN & DZIERBA MICHA BERRY
 - T NICE & EASY GAS & MINI MART, INC.
 - U DEAN S. & MARGARET M. HULTMAN
 - V LAURENCE W. & GLORIA J. REED

054
N.E. COR. SEC. 26
T-37-N R-6-W

056
N. 1/4 COR. SEC. 25
T-37-N R-6-W

058
N.E. COR. SEC. 25
T-37-N R-6-W

051
O.P.O.T. 701+46.72 "H"
0.91' LT. TO MONUMENT
FROM LINE "H"
= P.O.T. 701+50.00 "G"
DES. # 0100337

GPS
551
051
O.P.O.T. 690+96.94 "H"
0.88' LT. TO MONUMENT
FROM LINE "H"
= P.O.T. 691+00.00 "G"
DES. # 0100337

WHITE STALLION, LLC

WHITE STALLION, LLC

ROBERT E. & MARIA POPARAD

P.I. 669+66.89 "H"
DELTA= 06°-27'-03.54" RT.
R= 11,459.1600'
= P.O.S.T. 669+66.89 "G"
PROJECT 193 SEC. "C"

P.C. 663+21.11 "H"
= P.O.T. 663+21.11 "G"
PROJECT 193 SEC. "C"

P.O.T. 658+00.00 "H" 051

055 P.O.T. 682+00.00 "H"

054 P.T. 676+11.31 "H"

070
W. 1/4 COR. SEC. 26
T-37-N R-6-W

076
CENTER COR. SEC. 25
T-37-N R-6-W

078
E. 1/4 COR. SEC. 25
T-37-N R-6-W

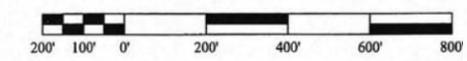
072
CENTER COR. SEC. 26
T-37-N R-6-W

074
W. 1/4 COR. SEC. 25
T-37-N R-6-W

090
S.W. COR. SEC. 26
T-37-N R-6-W

094
S.W. COR. SEC. 25
T-37-N R-6-W

Right of Way Note:
The existing right of way lines, parcel ownership lines, and ownership information shown on this plat are preliminary and subject to change based on verification/validation of title. This information is shown only to help orient the user of this plat as it relates to project centerlines and is not intended to establish existing right of way lines or ownership lines. The source used to plot existing right of way lines and ownership lines shown on this plat is from last deed of record obtained from County Recorder's Office as well as other sources cited on this plat. The designer/consultant responsible for Right of Way Engineering will complete the final determination of this information.



SCALE: 1" = 200'

Note: "Survey Started" date and "Survey Completed" date shown below indicate date of first field work and date of last field work, respectively. This does not represent a continuous time span of work for this Project; field work was stopped and re-started as necessary due to work on various other Projects.

| | |
|--------------------|------|
| SURVEY STARTED | |
| SEPTEMBER 04, 2014 | |
| SURVEY COMPLETED | |
| DECEMBER 12, 2014 | |
| ROUTE PLAT SHEETS | |
| 1 | of 3 |

FIELD SURVEYOR STATEMENT

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-26 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



I AFFIRM, UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW.

CHECKED BY M.M. & A.H. DEC. 18, 2014

RECOMMENDED FOR APPROVAL

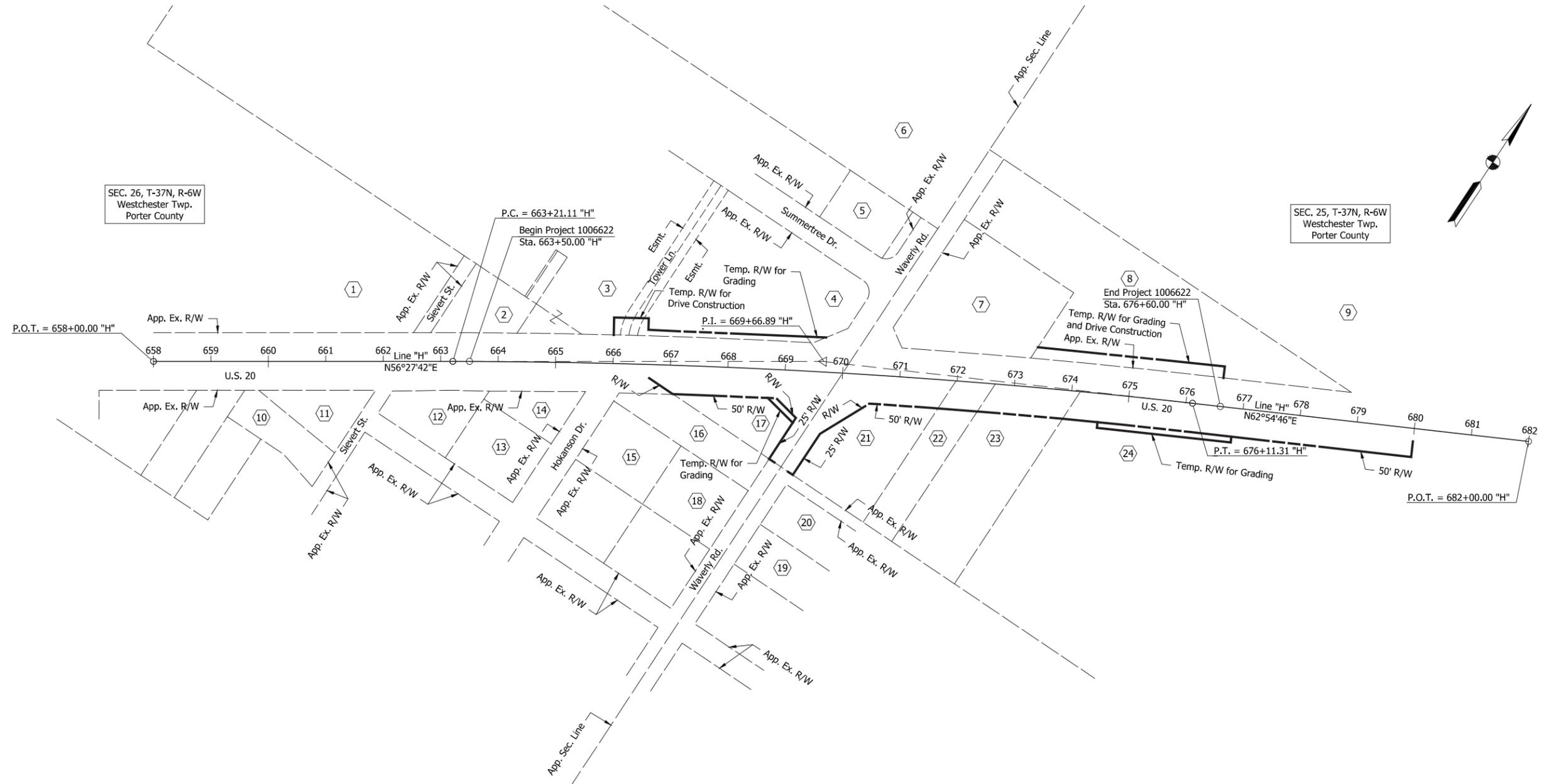
Douglas Furness Dec. 19, 2014
REGISTERED LAND SURVEYOR, FIELD

INDIANA DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

| | |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1:2400 | |
| COUNTY | DESIGNATION |
| PORTER | 1006622 |
| SURVEY BOOK | SHEETS |
| | 3 of 13 |
| CONTRACT | PROJECT |
| | 1006622 |

- | | |
|-------------------------------------|---------------------------------------|
| ① JOSEPH R. & JOSEPHINE J. BARCELLI | ⑬ R D VINE, LLC |
| ② JOSEPH R. & JOSEPHINE J. BARCELLI | ⑭ FIRST STATE BANK OF PORTER |
| ③ BANK ROCK, LLC | ⑮ DANIEL L. & SONIA DOREEN FABB |
| ④ FOX CHASE DEVELOPMENT, L.L.C. | ⑯ CARL M. & HELENEV WAGNER |
| ⑤ FOX CHASE DEVELOPMENT, L.L.C. | ⑰ ARLENE E. TILDEN |
| ⑥ WHITE STALLION, LLC | ⑱ TONY R. & BONNIE CRAVEN KRUK |
| ⑦ K J BASRA, LLC | ⑲ KIMBERLEY S. & CHARLES A. THUNHERST |
| ⑧ COLE D G PORTER IN, LLC | ⑳ CHRISTINE ANN & DZIERBA MICHA BERRY |
| ⑨ WHITE STALLION, LLC | ㉑ NICE & EASY GAS & MINI MART, INC. |
| ⑩ JAMES T. BARBAROSSA | ㉒ DEAN S. & MARGARET M. HULTMAN |
| ⑪ COLIN D. & MICHELLE J. SMITH | ㉓ LAURENCE W. & GLORIA J. REED |
| ⑫ DUNES REALTY, LLC | ㉔ ROBERT E. & MARIA POPARAD |



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B-9

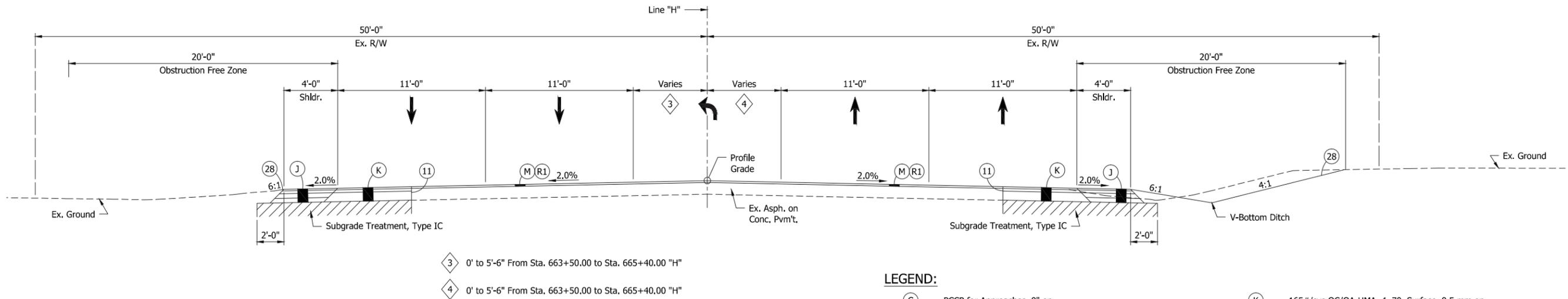
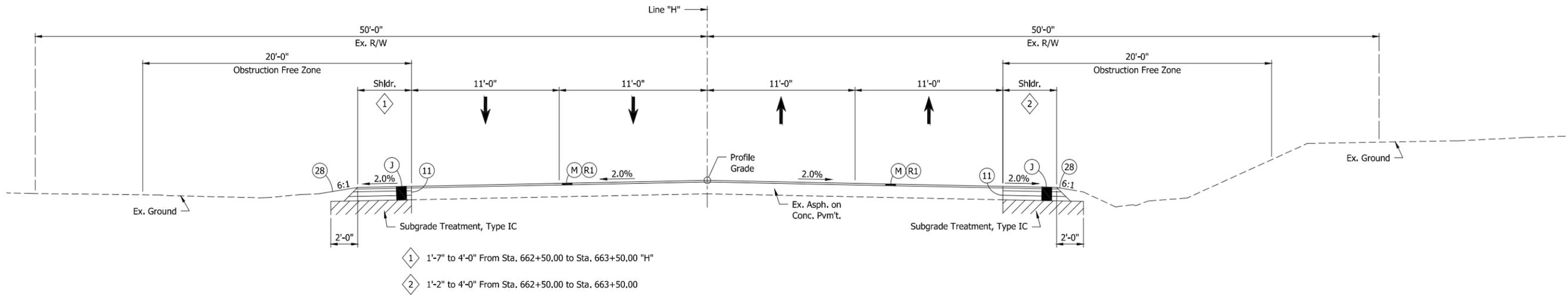
NOT FOR CONSTRUCTION
E14

| | | |
|--------------------------------|-----------------------|------------|
| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____ | DATE _____ |
| DESIGNED: DGA _____ | DRAWN: JAJ _____ | |
| CHECKED: DGD _____ | CHECKED: DGD _____ | |

INDIANA DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

| | |
|-------------------------------|------------------------|
| HORIZONTAL SCALE 1" = 100' | BRIDGE FILE |
| VERTICAL SCALE | DESIGNATION 1006622 |
| SURVEY BOOK | SHEETS 6 of 13 |
| CONTRACT T-37494 | PROJECT 1006622 |



LEGEND:

- (C) PCCP for Approaches, 9" on Subgrade Treatment, Type II
- (D1) 440#/sys HMA for Approaches, Type A
165#/sys HMA, Type A, Surface on 275#/sys HMA, Type A, Intermediate on 8" Compacted Aggregate, No. 53, Base
- (D2) 1320#/sys HMA for Approaches, Type B
165#/sys HMA, Type B, Surface on 275#/sys HMA, Type B, Intermediate on 880#/sys HMA, Type B, Base on Subgrade Treatment, Type II
- (J) 165#/sys QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275#/sys QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on 440#/sys QC/QA-HMA, 2, 64, Base, 19.0 mm on 4" Compacted Aggregate, No. 53 Base
- (K) 165#/sys QC/QA-HMA, 4, 70, Surface, 9.5 mm on 275#/sys QC/QA-HMA, 4, 70, Intermediate, 19.0 mm on 880#/sys QC/QA-HMA, 4, 64, Base, 25.0 mm
- (M) Milling, Asphalt, Variable Depth (0" Min. to 3.5" Max.)
- (R1) 165#/sys QC/QA-HMA, 4, 70, Surface, 9.5 mm
- (R2) 165#/sys QC/QA-HMA, 4, 70, Surface, 9.5 mm on 275#/sys QC/QA-HMA, 4, 70, Intermediate, 19.0 mm
- (1) No Change Req'd. to Existing Sign and Supports
- (11) Sawcut
- (15) Concrete Curb, Type 'C'
- (18) Remove Existing Sign and Reset
- (28) Mulched Seeding, R
- (30) Adjust Casting to Grade
- (97) Relocate (By Others)
- (99) Remove

B-10

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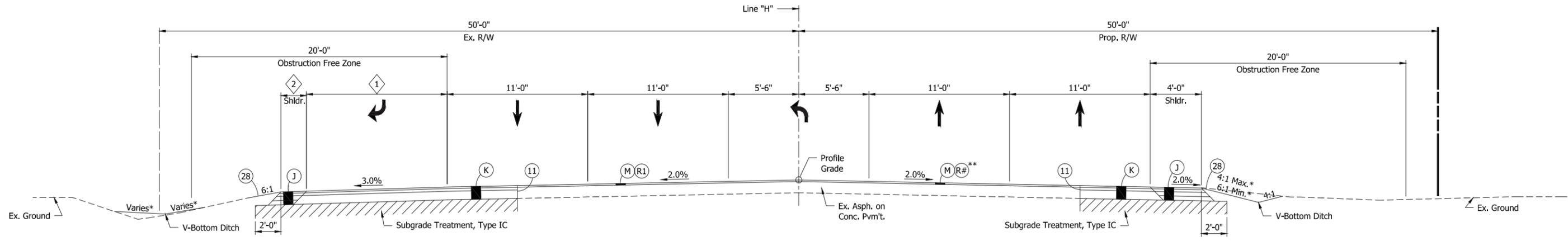
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E15

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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE | |
| DESIGNED: DGD | DRAWN: BJS | | |
| CHECKED: MFJ | CHECKED: DGD | | |

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS LINE "H"

| | |
|-----------------------|------------------------|
| SCALE 1/4" = 1'-0" | BRIDGE FILE |
| | DESIGNATION 1006622 |
| SURVEY BOOK | SHEETS 7 of 13 |
| CONTRACT T-37494 | PROJECT 1006622 |

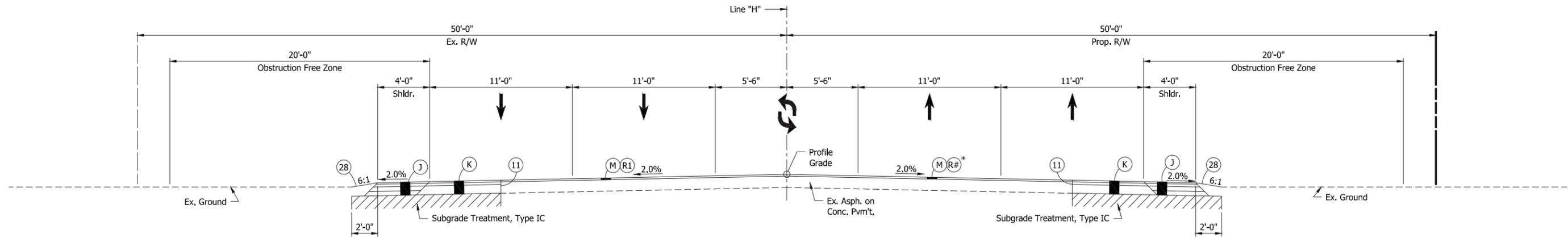


- 1 0' From Sta. 665+40.00 to Sta. 666+00.00 "H"
11'-0" From Sta. 666+00.00 to Sta. 667+45.00 "H"
11'-0" to 0' From Sta. 667+45.00 to Sta. 668+15.00 "H"
- 2 4'-0" From Sta. 665+00.00 to Sta. 666+00.00 "H"
2'-0" From Sta. 666+00.00 to Sta. 667+45.00 "H"
2'-0" to 4'-0" From Sta. 667+45.00 to Sta. 668+15.00 "H"

U.S. 20
TYPICAL SECTION LINE "H"
Sta. 665+40.00 to Sta. 668+15.00 "H"
Scale: 1/4" = 1'-0"

- ** (M) (R1) From Sta. 665+40.00 to Sta. 670+00.00
- (M) (R2) From Sta. 670+00.00 to Sta. 674+50.00

* See Cross Sections



U.S. 20
TYPICAL SECTION LINE "H"
Sta. 668+15.00 to Sta. 674+55.00 "H"
Scale: 1/4" = 1'-0"

LEGEND:

- (J) 165#/sys QC/QA-HMA, 2, 64, Surface, 9.5 mm on
275#/sys QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on
440#/sys QC/QA-HMA, 2, 64, Base, 19.0 mm on
4" Compacted Aggregate, No. 53 Base
- (K) 165#/sys QC/QA-HMA, 4, 70, Surface, 9.5 mm on
275#/sys QC/QA-HMA, 4, 70, Intermediate, 19.0 mm on
880#/sys QC/QA-HMA, 4, 64, Base, 25.0 mm
- (M) Milling, Asphalt, Variable Depth (0" Min. to 3.5" Max.)
- (R1) 165#/sys QC/QA-HMA, 4, 70, Surface, 9.5 mm
- (R2) 165#/sys QC/QA-HMA, 4, 70, Surface, 9.5 mm on
275#/sys QC/QA-HMA, 4, 70, Intermediate, 19.0 mm
- (11) Sawcut
- (28) Mulched Seeding, R

B-11

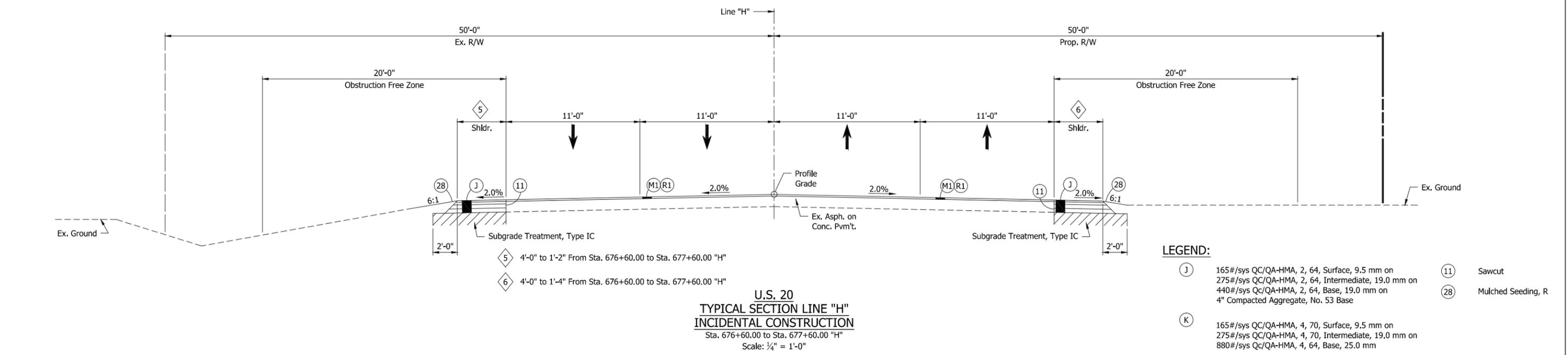
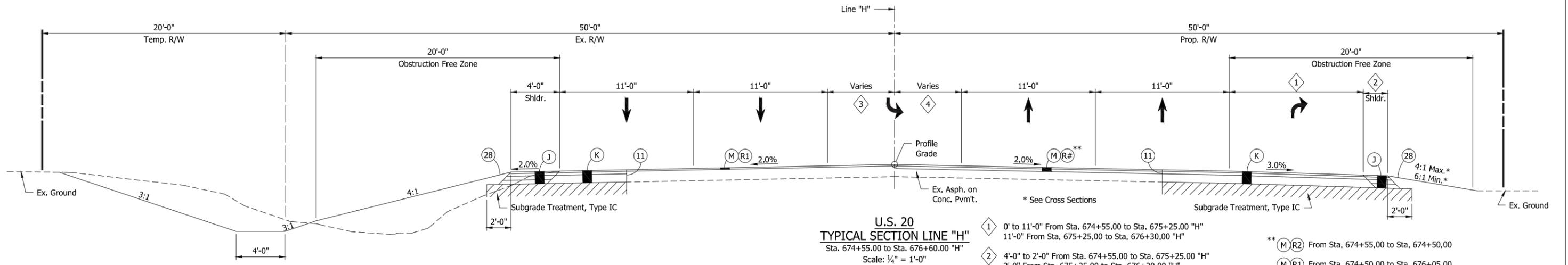
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NOT FOR CONSTRUCTION
E16

| | | |
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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: DGD | DRAWN: BJS | |
| CHECKED: MFJ | CHECKED: DGD | |

| | |
|---|--|
| INDIANA DEPARTMENT OF TRANSPORTATION | |
| TYPICAL SECTIONS LINE "H" | |

| | |
|-----------------------|------------------------|
| SCALE 1/4" = 1'-0" | BRIDGE FILE |
| | DESIGNATION 1006622 |
| SURVEY BOOK | SHEETS 8 of 13 |
| CONTRACT T-37494 | PROJECT 1006622 |



- LEGEND:**
- (J) 165#/sys QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275#/sys QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on 440#/sys QC/QA-HMA, 2, 64, Base, 19.0 mm on 4" Compacted Aggregate, No. 53 Base
 - (K) 165#/sys QC/QA-HMA, 4, 70, Surface, 9.5 mm on 275#/sys QC/QA-HMA, 4, 70, Intermediate, 19.0 mm on 880#/sys QC/QA-HMA, 4, 64, Base, 25.0 mm
 - (M) Milling, Asphalt, Variable Depth (0" Min. to 3.5" Max.)
 - (R1) 165#/sys QC/QA-HMA, 4, 70, Surface, 9.5 mm
 - (R2) 165#/sys QC/QA-HMA, 4, 70, Surface, 9.5 mm on 275#/sys QC/QA-HMA, 4, 70, Intermediate, 19.0 mm
 - (11) Sawcut
 - (28) Mulched Seeding, R

B-12

GDH- 6/5/2015 10:10 AM - U:\2014\201456_00_INDOT_20-Waverly\Cad\Plan_Set\Civil\Misc\145640TR_TS03.dwg

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E17

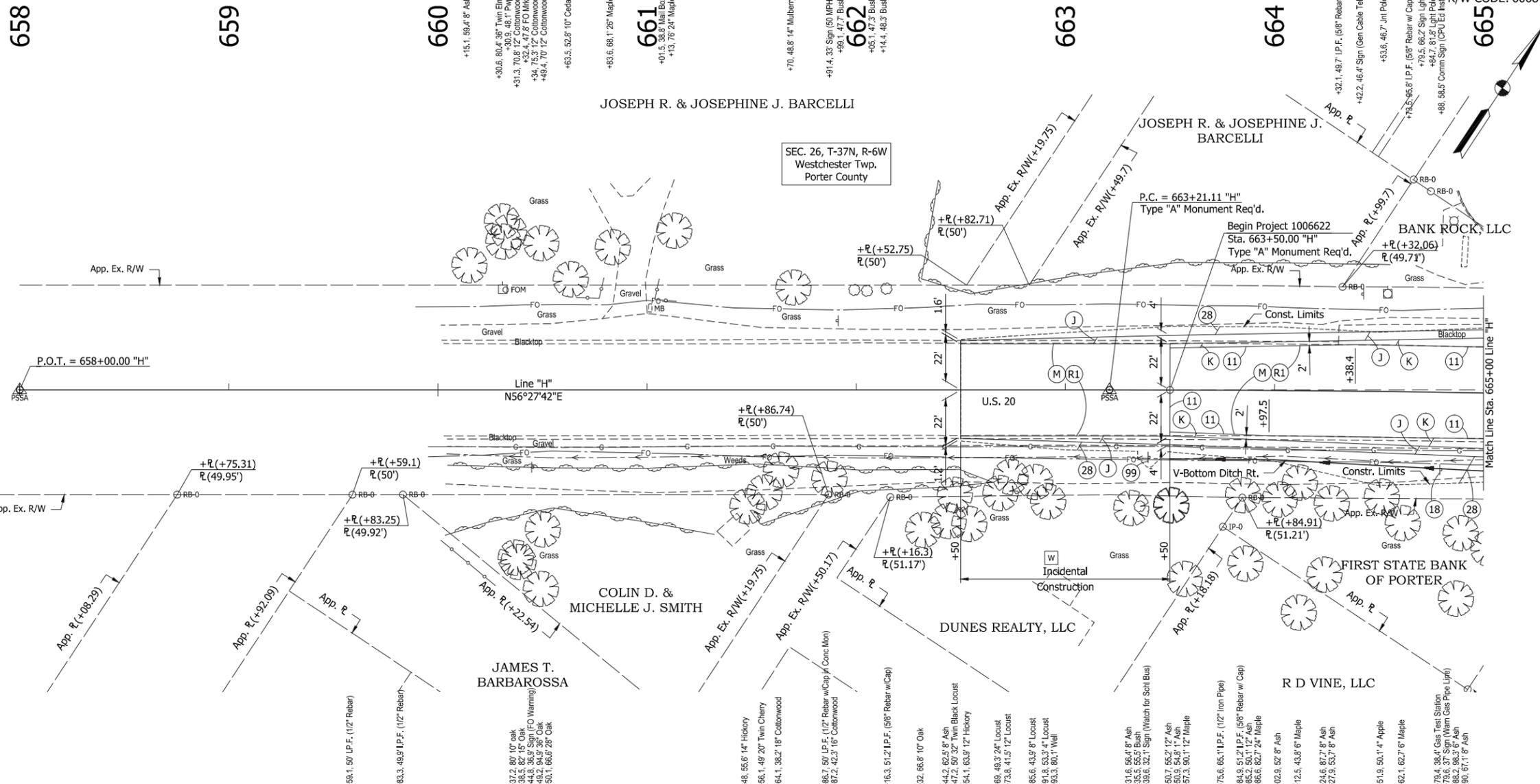
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| RECOMMENDED FOR APPROVAL _____ | DESIGN ENGINEER _____ | DATE _____ |
| DESIGNED: DGD _____ | DRAWN: BJS _____ | |
| CHECKED: MFJ _____ | CHECKED: DGD _____ | |

**INDIANA
DEPARTMENT OF TRANSPORTATION**

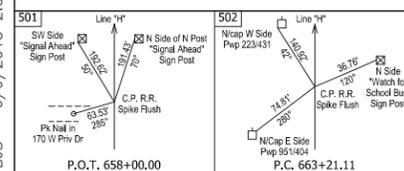
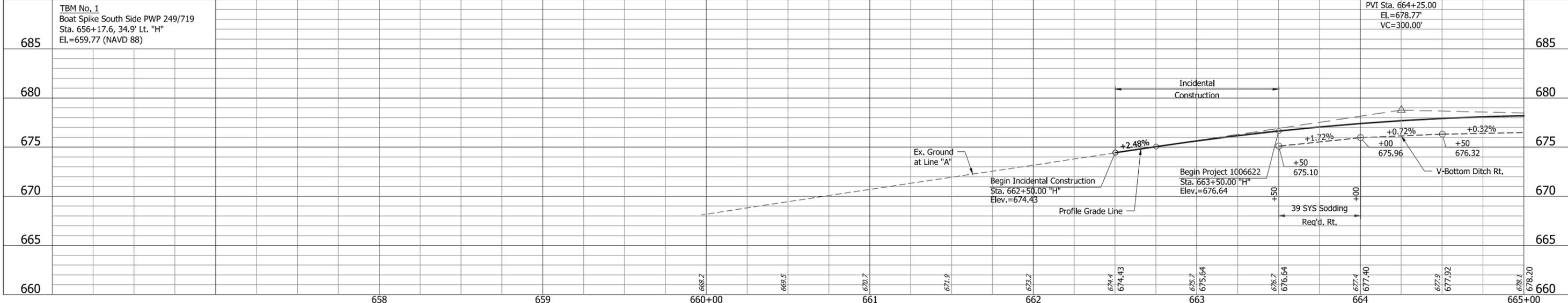
**TYPICAL SECTIONS
LINE "H"**

| | |
|-----------------------|------------------------|
| SCALE 1/4" = 1'-0" | BRIDGE FILE |
| | DESIGNATION 1006622 |
| SURVEY BOOK | SHEETS 9 of 13 |
| CONTRACT T-37494 | PROJECT 1006622 |

| EARTHWORK TABULATION | |
|----------------------|-------------|
| Fill +25% | = 312 Cyd |
| Common Excavation | = 1,339 Cyd |
| Waste | = 1,027 Cyd |



NOTE:
See sheet 3 for legend.
All R/W described from Line "H"
All topography described from Line "H"



NOT FOR CONSTRUCTION
E18

| | | |
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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: DGD | DRAWN: BJS | |
| CHECKED: MFJ | CHECKED: DGD | |

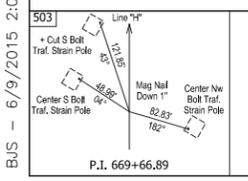
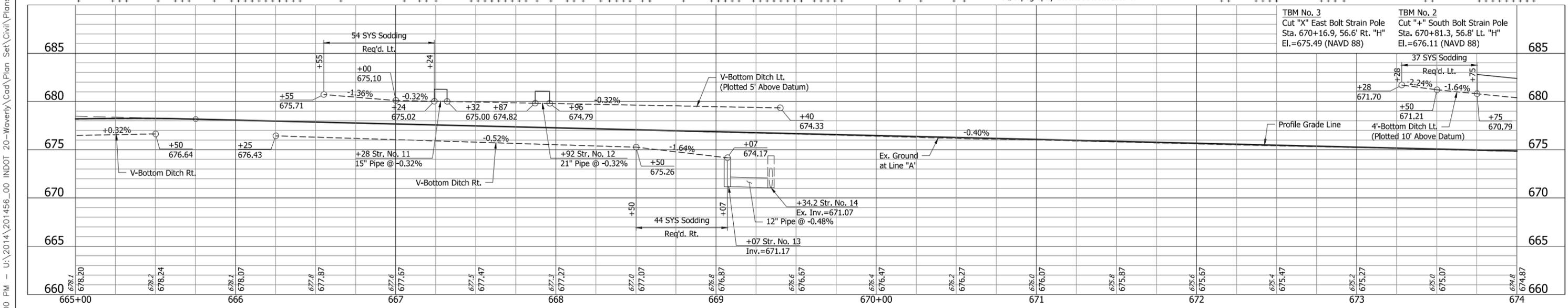
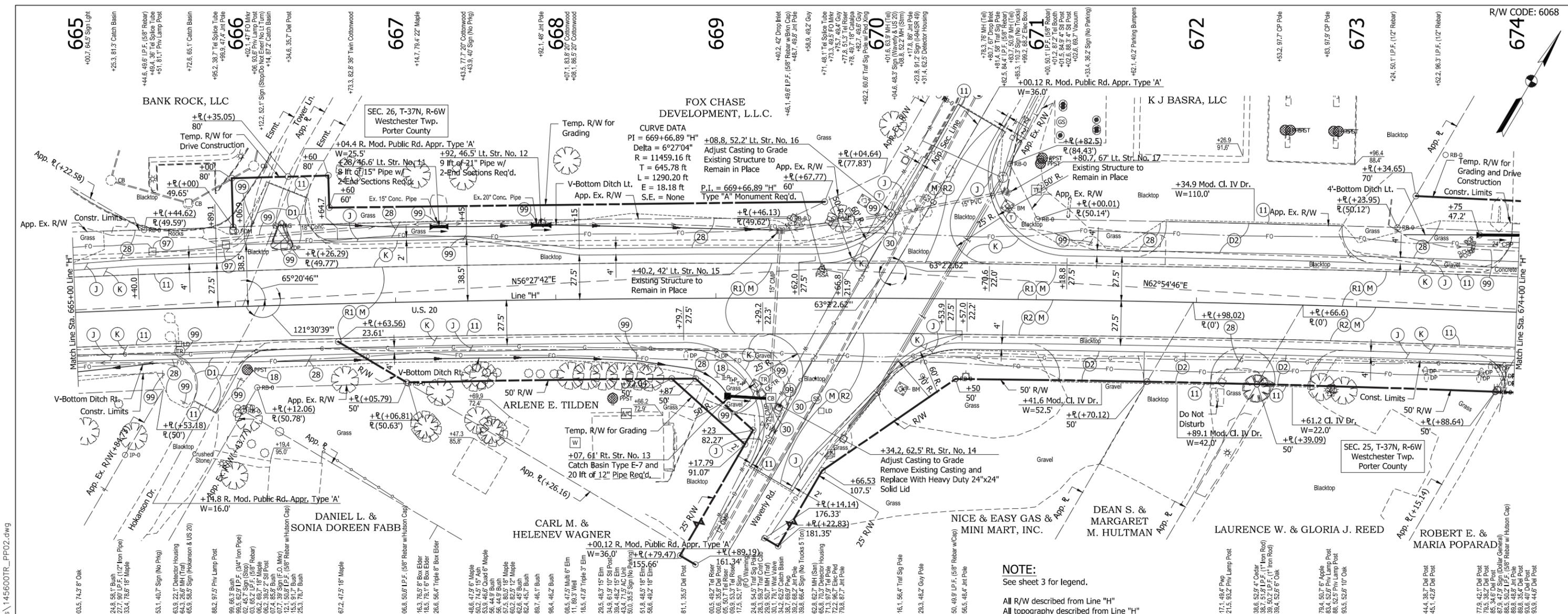
INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE - "H"
STA. 658+00 TO STA. 665+00

B-13

| | |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1" = 30' | |
| VERTICAL SCALE | DESIGNATION |
| 1" = 5' | 1006622 |
| SURVEY BOOK | SHEETS |
| | 10 of 13 |
| CONTRACT | PROJECT |
| T-37494 | 1006622 |

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E19

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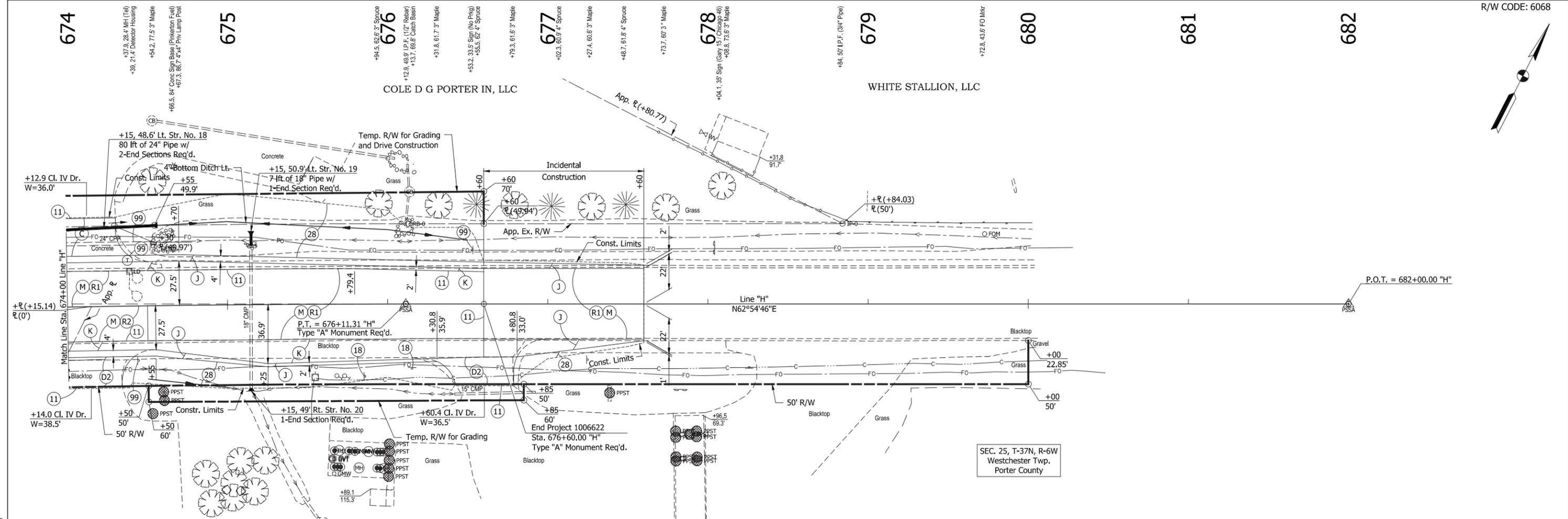
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE - "H"
STA. 665+00 TO STA. 674+00

B-14

| | |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1" = 30' | |
| VERTICAL SCALE | DESIGNATION |
| 1" = 5' | 1006622 |
| SURVEY BOOK | SHEETS |
| | 11 of 13 |
| CONTRACT | PROJECT |
| T-37494 | 1006622 |

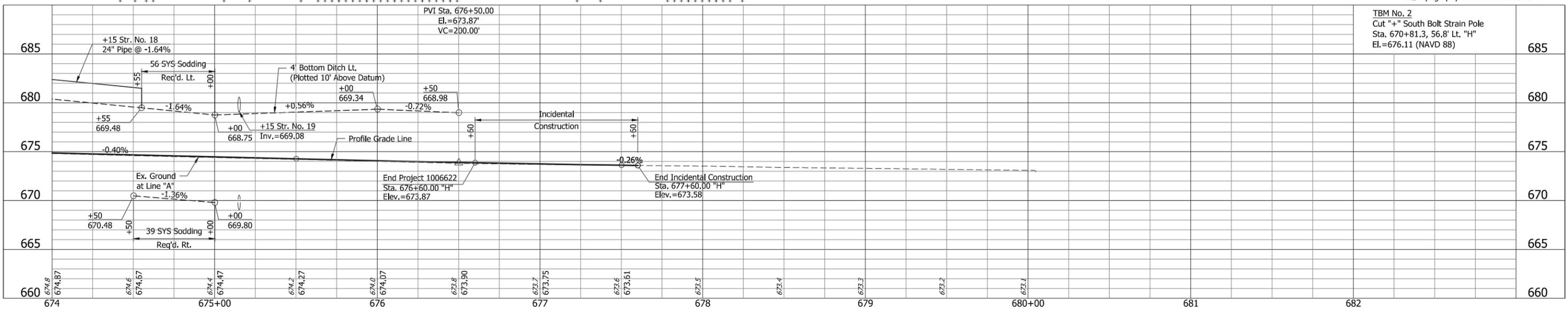
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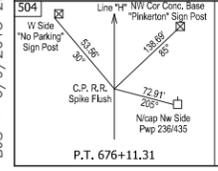
SEC. 25, T-37N, R-6W
Westchester Twp.
Porter County

ROBERT E. & MARIA POPARAD

NOTE:
See sheet 3 for legend.
All R/W described from Line "H"
All topography described from Line "H"



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E20

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| RECOMMENDED FOR APPROVAL | DESIGN ENGINEER | DATE |
| DESIGNED: DGD | DRAWN: BJS | |
| CHECKED: MFJ | CHECKED: DGD | |

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE - "H"
STA. 674+00 TO STA. 682+00

B-15

| | |
|------------------|-------------|
| HORIZONTAL SCALE | BRIDGE FILE |
| 1" = 30' | |
| VERTICAL SCALE | DESIGNATION |
| 1" = 5' | 1006622 |
| SURVEY BOOK | SHEETS |
| | 12 of 13 |
| CONTRACT | PROJECT |
| T-37494 | 1006622 |

Appendix C---Photos/Tables



Photo 1: Looking south at intersection of Oak Hill Road/CR 1350N and US 20 (Melton Road).



Photo 2: Looking east on US 20/Melton Road at intersection with Oak Hill Road/CR 1350N.



Photo 3: Looking west on US 20/Melton Road at intersection with Oak Hill Road/CR 1350N.



Photo 4: Intersection of Oak Hill Road and Dune Meadows Dr. North side of US 20/Melton Road.



Photo 5: North side CR 1050N/Oak Hill Road.



Photo 6: North side CR 1050N/Oak Hill Road.
NA CR 1050N; ca.-1980s ranch style.



Photo 7: NA CR 1050/Oak Hill Road. Ca.-1980s-1990s, style indeterminate.



Photo 8: Same as previous image.



Photo 9: 110 Oak Hill Rd./CR 1050 N. Ca.-1990s split-level.



Photo 10: 110 Oak Hill Rd./CR 1050 N. Ca.-1990s split-level.



Photo 11: #127-175-05026 (NA Oak Hill Road; ca.-1930 bungalow; rated “Contributing”).



Photo 12: Same as previous photo.



Photo 13: Facing west, 1020 Sievert St. Ca.-1970s, style indeterminate.



Photo 14: Same as previous photo.



Photo 15: Facing west, 1040 Sievert St. Ca.-1990s; style indeterminate.



Photo 16: Same as previous photo.



Photo 17: Facing east, 1041 Sievert St. Ca.-1960 Ranch.
Newly Inventoried Resource (NIR) #001; INDOT-rated "Contributing").



Photo 18: Same as previous photo. NIR #001;
INDOT-rated "Contributing."



Photo 19: 1021 Sievert St. Ca.-1965 ranch house. NIR #002;
INDOT-rated "Contributing."



Photo 20: Looking east at 1021 Sievert St. Ca.-1965 ranch house; NIR #002.



Photo 21: NIR #003 (NA Stephens St.; ca. 1949-1950 Lustron House; INDOT-rated "Notable.")



Photo 22: NIR #003; NA Stephens St.; ca.-1949-1950 Lustron House; INDOT-rated "Notable.")



Photo 23: Ca.-1940 garage associated with property in Photos 25 & 26.



Photo 24: Ca.-1940 garage associated with property in Photos 25 & 26.



Photo 25: 1100 Hokanson St.; ca.-1940 Colonial Revival; NIR #004; INDOT-rated "Non-contributing."



Photo 26: 1100 Hokanson St.; ca.-1940 Colonial Revival; NIR #004; INDOT-rated “Non-contributing.”



Photo 27: 1040 Hokanson St. Age and style indeterminate.



Photo 28: 1040 Hokanson St. Age and style indeterminate.



Photo 29: Garage associated with property in Photos 17-18.



Photo 30: Garage associated with property in Photos 17-18.



Photo 31: NIR #005 (NA Hokanson St. Ca.-1955-1960 ranch; INDOT-rated “Contributing.”)



Photo 32: NA Hokanson St. Ca.-1955-1960 ranch. NIR #005; INDOT-rated “Contributing.”



Photo 33: Pat's Liquors; 1 US Hwy. 20. Southwest corner intersection US 20 and Waverly Road. Modern construction.



Photo 34: Pat's Liquors; 1 US Hwy. 20. Southwest corner intersection US 20 and Waverly Road. Modern construction. :

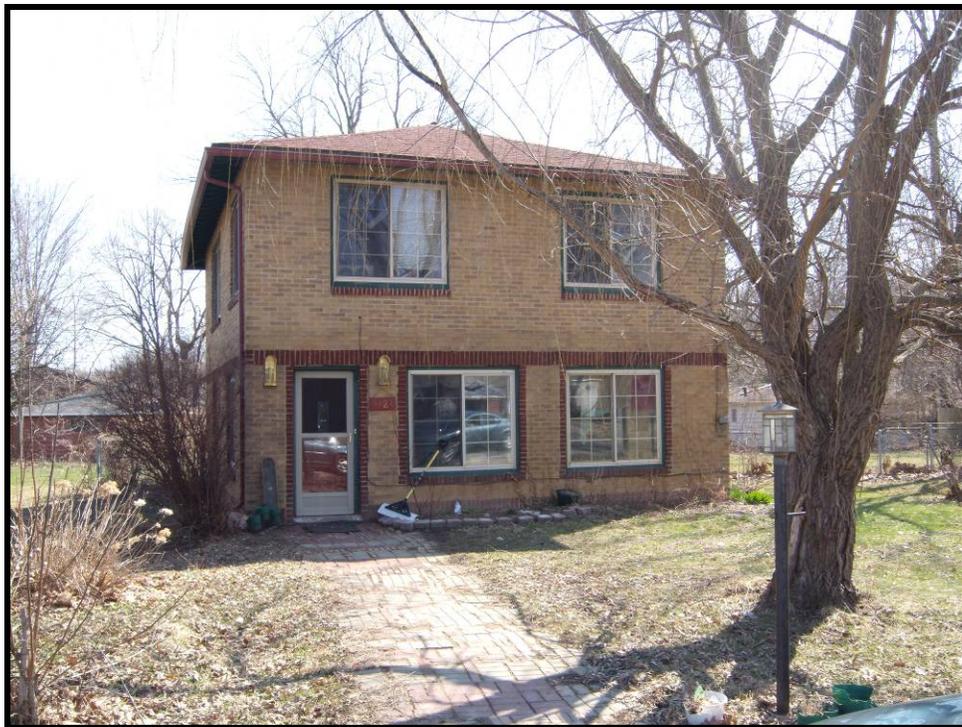


Photo 35: 1121 Hokanson St. Ca.-1950 vernacular; NIR #006; INDOT-rated "Non-contributing."



Photo 36: 1121 Hokanson St. Ca.-1950 vernacular; NIR #006;
INDOT-rated “Non-contributing.”



Photo 37: Near SE corner intersection of US 20 & Waverly Road.
Ca.-1970 ranch; converted to retail.



Photo 38: Near SE corner intersection of US 20 & Waverly Road.
Ca.-1970 ranch; converted to retail.



Photo 39: Looking south on Waverly Road from intersection with US 20.



Photo 40: Westchester Twp. #127-125-05027 (NA S. Waverly Rd.; ca.-1925 bungalow; rated “Contributing”).



Photo 41: NIR #007 (NA S. Waverly Road; ca.-1925-1930 bungalow; INDOT-rated “Contributing”).



Photo 42: NIR #008 (1100 S. Waverly Rd.; ca.-1930-1935 bungalow; INDOT-rated “Contributing”).



Photo 43: NIR #009 (1010 S. Waverly Rd.; ca.-1950-1955 minimal ranch; INDOT-rated “Contributing”).



Photo 44: 1123 S. Waverly Road; ca.-2000s modern construction.



Photo 45: 1114 S. Waverly Road; ca.-1990s modern construction.



Photo 46: NA S. Waverly Road; ca.1990s modern construction.



Photo 47: Looking north on Waverly Road from intersection with US 20.



Photo 48: Looking west on US 20 from intersection with Waverly Road.



Photo 49: Looking east on US 20 from intersection with Waverly Road.



Photo 50: NE corner intersection of US 20 and Waverly Road.



Photo 51: Same as previous photo.



Photo 52: Westchester Animal Clinic (55 US Hwy. 20; south side).



Photo 453: Westchester Animal Clinic (55 US Hwy. 20; south side).



Photo 54: Ca.-1960 parapet-roof retail building.
(Petro Canada; NA US 20; south side.)



Photo 55: Ca.-1960 parapet-roof retail building; NA US 20; south side.
Petro Canada; NA US 20; south side.



Photo 56: Modern support structure (NA US 20) associated with property in Photos 47-48.



Photo 57: Filling station (NA US 20) associated with property in Photos 47-48.



Photo 58: Modern building (ca.-2000s; style indeterminate) located at NW corner intersection of US 20 and Hokanson St.



Photo 59: Modern building (ca.-2000s; style indeterminate) located at NW corner intersection of US 20 and Hokanson St.



Photo 60: NA US 20; north side. Ca.-1955 brick ranch house; NIR #010; INDOT-rated “Contributing.”



Photo 61: NA US 20; north side. Ca.-1955 brick ranch house; NIR #010; INDOT-rated “Contributing.”



Photo 62: Modern outbuilding on property in Photos 53-54.

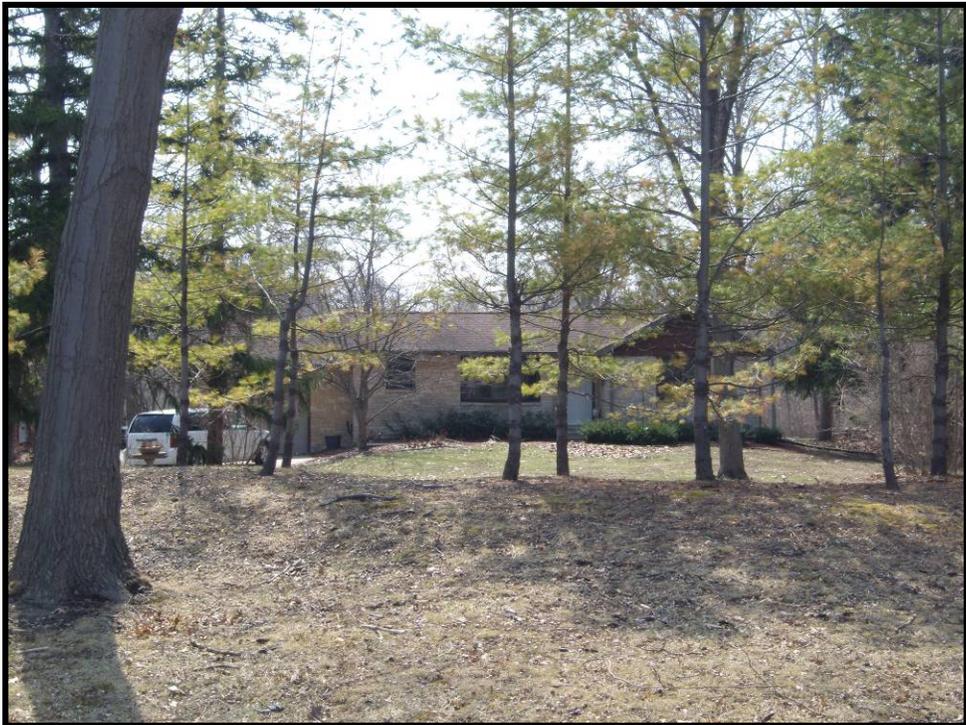


Photo 63: NA US 20, near Cloverleaf Road (ca.-1970s ranch house).



Photo 64: NA US 20, south side; near Cloverleaf Road (ca.-1970s ranch).



Photo 65: Modern modular home (NA Cloverleaf Road; north side).



Photo 66: Modern modular home (NA Cloverleaf Road; north side).



Photo 67: Splash Down Dunes Water Park (NA US 20; north side, at Cloverleaf Rd.).



Photo 68: Splash Down Dunes Water Park (NA US 20; north side; at Cloverleaf Rd.)



Photo 69: Splash Down Dunes Water Park (NA US 20; north side, at Cloverleaf Rd.)

Table 1: Surveyed Westchester Township resources located in APE.

| Surveyed Westchester Township resources in APE | Address | Property Name | Interim Report Number/Rating | NRHP Eligibility Recommendation |
|--|-----------------------------|-------------------|---|--|
|  | NA Oak Hill Rd., north side | Ca.-1930 bungalow | #127-125-05026; rated “Contributing”); PHOTOS 11-12” | Not recommended NR-eligible due to combined lack of material integrity and historic significance. See analysis on pages 12-13. |
|  | NA Waverly Rd. | Ca.-1925 bungalow | #127-175-05027; rated “Contributing”); PHOTO 40 | Not recommended NR-eligible due to combined lack of material integrity and historic significance. See analysis on pages 14-15. |

Table 2. Newly inventoried resources located in project APE

| Newly inventoried resources located in project APE | Address | Property Name | INDOT Rating | NRHP Eligibility Recommendation/Integrity Issues |
|---|---------------------|---|--------------|--|
|  | 1041 E. Sievert St. | NIR #001; ca.-1960 ranch; PHOTOS 17-18 | Contributing | Not recommended NR-eligible due to a combined lack of material integrity and historic significance. See analysis on pages 15-16. |
|  | 1021 E. Sievert St. | NIR #002; Ca.-1965 ranch house; PHOTOS 19-20 | Contributing | Not recommended NR-eligible due to a combined lack of material integrity and historic significance. See analysis on pages 17-18. |

Table 2. Newly inventoried resources located in project APE

| Newly inventoried resources located in project APE | Address | Property Name | INDOT Rating | NRHP Eligibility Recommendation/Integrity Issues |
|--|--------------------|--|------------------|---|
|  | NA E. Stephens St. | NIR #003; ca.-1950 Lustron House; PHOTOS 21-22 | Notable | Not recommended NR-eligible due to a combined lack of material integrity and historic significance. See analysis on pages 19-20. |
|  | 1100 Hokanson St.. | NIR #004; ca.-1940 Colonial Revival; PHOTOS 25-26 | Non-contributing | Physical alterations: 1) Installation of modern replacement windows & door; 2) Removal of original porches; 3) Replacement roof. |
|  | NA Hokanson St. | NIR #005; Ca.-1955-60 minimal ranch; PHOTOS 31-32 | Contributing | Not recommended NR-eligible due to a combined lack of material integrity and historic significance. See analysis on pages 21-22. |

Table 2. Newly inventoried resources located in project APE

| Newly inventoried resources located in project APE | Address | Property Name | INDOT Rating | NRHP Eligibility Recommendation/Integrity Issues |
|---|----------------------|--|------------------|--|
|  | 1121 Hokanson St. | NIR #006; ca.-1950 hipped roof; style indeterminate PHOTOS 35-36 | Non-contributing | Physical alterations:: 1) Modern replacement roof; 2) Modern replacement windows & door; 3) Construction of rear addition at SE corner. |
|  | NA S. Waverly Road | NIR #007; ca.-1925-1930 bungalow; PHOTO 41 | Contributing | Not recommended NR-eligible due to a combined lack of material integrity and historic significance; See analysis on pages 23-24. |
|  | 1100 S. Waverly Road | NIR #008; Ca.-1930-1935 bungalow; PHOTO 42 | Contributing | Not recommended NR-eligible due to a combined lack of material integrity and historic significance. See analysis on pages 25-26. |

Table 2. Newly inventoried resources located in project APE

| Newly inventoried resources located in project APE | Address | Property Name | INDOT Rating | NRHP Eligibility Recommendation/Integrity Issues |
|--|-----------------------------|--|---------------------|---|
|  | <p>1010 S. Waverly Road</p> | <p>NIR #009; ca.-1950-1955 minimal ranch; PHOTO 43</p> | <p>Contributing</p> | <p>Not recommended NR-eligible due to a combined lack of material integrity and historic significance. See analysis on pages 26-27.</p> |
|  | <p>NA US 20; north side</p> | <p>NIR #010; ca.-1955 limestone ranch; PHOTOS 60-61</p> | <p>Contributing</p> | <p>Not recommended NR-eligible due to combined lack of material integrity and historical significance. See analysis on pp. 28-29</p> |

Appendix D---Correspondence



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 232-5533
FAX: (317) 232-0238

Michael R. Pence, Governor
Brandye L. Hendrickson,
Commissioner

6 August, 2015

«Title1» «First_Name» «Last_Name»
«Title»
«Company_Name»
«Address_Line_1»
«Address_Line_2»
«City», «State» «ZIP_Code»

Re: Des. #1006622, US 20 and Waverly Road
Intersection Improvement
Westchester Township, Porter County

Dear «Title» «Last Name»:

The Indiana Department of Transportation (INDOT) proposes the above project on US 20 at the intersection with Waverly Road in Westchester Township, Porter County. This letter is part of the early coordination phase of the environmental review process. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above description number and description in your reply.

In the proposed project area, US 20 is functionally classified as an Urban Other Principal Arterial route with a design speed of 50 mph. The project is located within the INDOT LaPorte District. Lane width is 12 feet with a 3-foot, paved shoulder. US 20 traffic waiting to turn left onto Waverly Road queues in the passing lanes. The crest of a vertical curve is located to the west of the US 20/Waverly Road intersection. This crest causes the queuing left-turning vehicles to be less visible, while trucks are accelerating to crest the curve. In addition, several commercial drives are located within the project area.

The preferred alternative for Des. #1006622 is an intersection improvement that will widen pavement 8 feet on both sides of US 20. This widening will provide a 12-foot left-turn lane and 4-foot paved shoulder in both eastbound and westbound directions. The radii of the approaches will be improved to meet the widened pavement, and the existing traffic signal will be replaced with modernized signal-heads and back-plates.

Area land use is commercial in the northeast and southeast quadrants and residential in the southwest and northwest quadrants. Splash Down Dunes Water Park is located in the northeast quadrant. Area topography is level. Permanent right-of-way in the approximate amount of .69acre will be required for the proposed project; in addition, temporary right-of-way in the approximate amount of .32 acre will be required for the project. Traffic will be maintained throughout construction by means of selective lane closures.

A historic properties report (HPR); Branigin, July, 2015) was prepared for the project. The report did not recommend any above-ground resources as eligible for listing in the NRHP. A hard copy report is being submitted to the Indiana State Historic Preservation Officer (SHPO). This early coordination letter (ECL), a copy of the project plans, and the HPR can be viewed electronically by accessing INDOT's Section 106 document posting website IN SCOPE at <http://netservices.indot.in.gov/Section106Documents/Default.aspx>. Please use the project identification detail provided in the subject heading to search for the documents. INDOT will provide a hard copy of the HPR to any invited consulting party who makes such a request within seven (7) days of receipt of this notification.

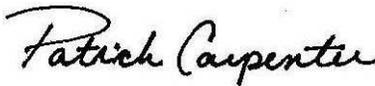
With regard to archaeological concerns, an Phase Ia archaeological reconnaissance/archaeological short report (Coon/July, 2015) has been completed, and is being submitted to the office of the SHPO for review and comment. The report recommended project clearance based on the author's opinion that "...the Phase Ia archaeological reconnaissance has located no archaeological sites within the project area and it is recommended that the project be allowed to proceed as planned..."

The following invited consulting parties for Des. # 1006622 are being invited to comment as part of the Section 106 review process: Indiana State Historic Preservation Officer (IN SHPO); Indiana Landmarks Northern Regional Office; Porter County Historian; Historic Preservation of Porter County, Inc.; Indiana Lincoln Highway Association; Kankakee Valley Historical Society; Westchester Township History Museum; Porter County Commissioners.

If you prefer to receive future notifications via email, please provide INDOT CRO with your/your organization's preferred email address.

Please respond with your comments on any historic resource impacts incurred as a result of the proposed project so that an environmental report can be prepared. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If we do not receive your response within thirty (30) days, it will then be assumed that your agency or organization feels that there will be no significant effects as a result of this project or that you wish to offer no opinions concerning this project. If we do not receive your response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes. Please use Des. #1006622 in your reply. If you have any questions regarding this matter, please feel free to contact Ms. Susan Branigin of this section at ((317) 234-0142; sbranigin@indot.in.gov). Thank you in advance for your input.

Sincerely,



Patrick A. Carpenter
Manager, Cultural Resources Office
INDOT Environmental Services

PAC/SRB/srb

Enclosures

CC: Ms. Margaret Dickerson, INDOT LaPorte District Project Manager
Ms. Laura Jack, INDOT LaPorte District Environmental Manager

ES Project File
Attachment

DNR Indiana Department of Natural Resources

Michael R. Pence, Governor
Cameron F. Clark, Director

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



September 10, 2015

Patrick A. Carpenter
Manager, Cultural Resources Office
Environmental Services Division
Indiana Department of Transportation
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204

Federal Agency: Indiana Department of Transportation ("INDOT"),
on behalf of Federal Highway Administration

Re: Indiana archaeological short report (Coon, 07/13/2015), and historic property report (Branigin, 08/2015), for the US 20 and Waverly Road Intersection Improvement, in Westchester Township of Porter County (Des. No. 1006622; DHPA No. 18083)

Dear Mr. Carpenter:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, and the "Programmatic Agreement Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana," the staff of the Indiana State Historic Preservation Officer ("Indiana SHPO") has reviewed the reports submitted with your letter dated August 6, 2015, and received on August 11, for the aforementioned project in Porter County, Indiana.

We are not aware of any other parties who should be invited to participate in this Section 106 consultation, beyond those whom you have invited.

In light of the information that has been provided about the scope of this project, it appears that the area of potential effects ("APE") proposed in the HPR is probably of adequate size to encompass all areas where direct or indirect effects could occur.

Based on the identification and evaluation information provided in the HPR it does not appear that any above-ground properties that are listed in or eligible for inclusion in the National Register of Historic Places ("NRHP") exist within the proposed APE.

We agree with the opinion of the archaeologist, as expressed in the archaeological field reconnaissance survey report (Coon, 07/13/2015), that, due to the lack of specificity about the site's location in the McAllister document (1932), the location of archaeological site 12-Pr-0005 cannot sufficiently be determined.

Based upon 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 National Register of Historic Places ("NRHP") within the proposed project area; and we concur with the opinion of the archaeologist, as expressed in the archaeological field reconnaissance survey report (Coon, 07/13/2015), that no further archaeological investigations appear necessary at this project location.

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 -29) requires that the discovery be reported to the Department of Natural Resources within two (2) business days. In that event, please call (317) 232-

Patrick A. Carpenter
September 10, 2015
Page 2

1646. Be advised that adherence to Indiana Code 14-21-1-27 and -29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. 800.

Unless another consulting party expresses the opinion that there is a historic property within the APE, it might be appropriate to discuss with INDOT whether a finding should be issued.

If you have questions about above-ground properties, such as buildings or structures, please contact John Carr at (317) 233-1949 or jcarr@dnr.IN.gov. Questions about archaeological issues should be directed to Wade T. Tharp at (317) 232-1650 wtharp1@dnr.IN.gov.

In all future correspondence regarding the US 20 and Waverly Road Intersection Improvement, please refer to DHPA No. 18083.

Very truly yours,



Mitchell K. Zoll
Deputy State Historic Preservation Officer

MKZ:JLC:WTT:wt

emc: Patrick Carpenter, Indiana Department of Transportation
Mary Kennedy, Indiana Department of Transportation
Susan Branigin, Indiana Department of Transportation
Shaun Miller, Indiana Department of Transportation
Matthew Coon, Ph.D., Indiana Department of Transportation
Shirley Clark, Indiana Department of Transportation
Wade T. Tharp, Indiana Department of Natural Resources
John Carr, Indiana Department of Natural Resources

Appendix E---HPR Conclusions Page

Conclusions

A long-form HPR was prepared for this project due to the presence in the project APE of at least one surveyed above-ground resource with a rating of “Contributing.” The State and National Register listings for Porter County were checked. No listed properties were located in or near the proposed project’s APE.

The Porter County Interim Report (1991; Westchester Township) was consulted. The following surveyed Westchester Township resources were located within the APE for the proposed project: **1) #127-175-05026** (NA Oak Hill Rd.; ca.-1930 bungalow; rated “Contributing”); **2) #127-175-05027** (NA Waverly Rd.; ca.-1925 bungalow; rated “Contributing”). No other surveyed Westchester Township resources were located in the proposed project’s APE.

The following ten (10) newly inventoried resources (NIR) were located within the APE for Des. #1006622: **1) NIR #001** (1041 E. Sievert St.; ca.-1960 minimal ranch; INDOT-rated “Contributing”); **2) NIR #002** (1021 Sievert St.; ca.-1965 ranch; INDOT-rated “Contributing”); **3) NIR #003** (NA Stephen St.; ca.-1950 Lustron House; INDOT-rated “Contributing”); **4) NIR #004** (1100 Hokanson St.; ca.-1940 Colonial Revival; INDOT-rated “Contributing”); **5) NIR #005** (NA Hokanson St.; ca.-1955-1960 minimal ranch; INDOT-rated “Contributing”); **6) NIR #006** (1121 Hokanson St.; ca.-1950 hipped roof vernacular; INDOT-rated “Non-contributing”); **7) NIR #007** (NA Waverly Rd.; ca.-1925-1930 bungalow; INDOT-rated “Contributing”); **8) NIR #008** (1100 S. Waverly Rd.; ca.-1930-1935 bungalow; rated “Contributing”); **9) NIR #009** (1010 S. Waverly; ca.-1950 minimal traditional; INDOT-rated “Contributing”); **10) NIR #010** (NA US 20; north side; ca.-1955 limestone ranch; INDOT-rated “Contributing”). No other newly inventoried resources were located in the proposed project area.

Those surveyed and newly inventoried resources in the project area meeting the requisite age and/or conditions criteria were analyzed for National Register-eligibility. Due to their respective lack of material integrity and historic significance, none of the above-listed resources were recommended NR-eligible. It is therefore the conclusion of this HPR that the project area for Des. #1006622 contains no above-ground resources eligible for inclusion in the National Register of Historic Places.

Appendix F:---Archaeological Report Conclusions Page

Describe Methods:

Field methodology was dependent upon conditions such as the amount of surface visibility, ground disturbance, and land use. Areas with inadequate survey conditions or surface visibility of 30% or less are investigated by systematic shovel probe survey consisting of the excavation of small test pits, 30 cm (1 ft) in diameter, placed in a grid pattern at 15 m (49.2 ft) intervals until the project boundaries are reached. Shovel probes are excavated into sterile subsoil, or to a maximum depth of 50 cm (1.6 ft), and the soil is screened through 0.635 cm (0.25 in) wire mesh and then replaced. If an artifact is encountered in a shovel probe, 5 m (16.4 ft) radial shovel probes in each cardinal direction are implemented around the site margins until the site or project boundaries are reached or no artifacts are recovered in two consecutive probes. Disturbed soils removed from shovel probes are not screened, although artifacts are recorded if present. Clearly disturbed areas (such as pavements, ponds, and ditches) and areas with slope greater than 11 degrees (20%) are not shovel tested but are visually inspected. Areas of standing water are not shovel probed.

The Phase Ia field investigations were performed according to the “Draft Guidebook for Indiana Historic Sites and Structures Inventory – Archaeological Sites” issued by the Division of Historic Preservation and Archaeology, INDOT’s Cultural Resources Manual, and the Indiana Historic Preservation Act (IC-14-21-1). All aspects of the Phase Ia investigations and the subsequent report preparation were conducted by qualified professional archaeologists meeting the standards set forth by the U.S. Department of the Interior outlined in 36 CFR Part 61 and 66, and the Secretary of the Interior’s “Guidelines for Historic Preservation and Archaeology” (48 FR 44716).

Attach photographs documenting disturbances below

Describe Disturbances:

The project r/w south of US 20 and east of Waverly Road was completely disturbed by previous road construction and commercial development. The apparent/existing r/w north of US 20 and along Waverly Road was visually inspected and found to be completely disturbed by road construction and commercial development.

Comments:

Results

- Archaeological records check has determined that the project area does not have the potential to contain archaeological resources.
- Archaeological records check has determined that the project area has the potential to contain archaeological resources.
- Phase Ia reconnaissance has located no archaeological resources in the project area.
- Phase Ia reconnaissance has identified landforms conducive to buried archaeological deposits.

Actual Area Surveyed hectares:

acres:

Comments:

The project r/w south of US 20 and west of Waverly Road consisted of previously disturbed roadside and a very narrow strip of undisturbed land adjacent to residential and commercial properties. The undisturbed portion of this area was investigated by a single transect of shovel probes. No archaeological materials were encountered within the project area, and no additional investigation is recommended.

Recommendation

- The archaeological records check has determined that the project area has the potential to contain archaeological resources and a Phase Ia archaeological reconnaissance is recommended.
- The archaeological records check has determined that the project area does not have the potential to contain archaeological resources and no further work is recommended before the project is allowed to proceed.
- The Phase Ia archaeological reconnaissance has located no archaeological sites within the project area and it is recommended that the project be allowed to proceed as planned.

IFERE

Indiana Dept. of Transportation

(Governmental Unit)

To: The Times Media Company

Public Notice
Des. #1006622

Indiana

601-45th Avenue, Munster, IN 46321

PUBLISHER'S CLAIM

The Indiana Department of Transportation (INDOT) is planning to undertake an intersection improvement project on US 20 at the intersection with Waverly Road in Westchester Township, Porter County. In the project area, US 20 lane width is 12 feet with a 3-foot, paved shoulder. Traffic waiting to turn left onto Waverly Road queues in the passing lanes. The crest of a vertical curve is located to the west of the US 20/Waverly Road intersection. This crest causes the queuing left-turning vehicles to be less visible, while trucks are accelerating to crest the curve. In addition, several commercial drives are located within the project area. The preferred alternative for Des. #1006622 will widen pavement 8 feet on both sides of US 20. This widening will provide a 12-foot left-turn lane and 4-foot paved shoulder in both eastbound and westbound directions. The radii of the approaches will be improved to meet the widened pavement, and the existing traffic signal will be replaced with modernized signal-heads and back-plates. Area land use is commercial in the northeast and southeast quadrants and residential in the southwest and northwest quadrants. Splash Down Dunes Water Park is located in the northeast quadrant. Area topography is level. Permanent right-of-way in the approximate amount of .69acre will be required for the proposed project; in addition, temporary right-of-way in the approximate amount of .32 acre will be required for the project. The proposed action doesn't impact items listed in or eligible for the National Register of Historic Places (NRHP). INDOT, on behalf of the FHWA, has issued a "No Historic Properties Affected" for the project, due to the fact that no resources listed or eligible for listing in the NRHP are located in the project area. In accordance with the National Historic Preservation Act, 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 800.6(a) (4), the documentation specified in 36 CFR 800.11(d) is available for inspection in the INDOT Cultural Resources Office in Indianapolis or the INDOT LaPorte District Office or through INDOT's Section 106 document posting website (<http://netservices.indot.in.gov/Section106Documents/Default.aspx>). This documentation serves as the basis for the "No Historic Properties Affected" finding. The views of the public on this finding are being sought. Please reply to the following address no later than Thursday, November 5, 2015: Patrick Carpenter, Manager, INDOT Environmental Services, 100 N. Senate Ave, IGCN Rm 642, Indianapolis, IN 46204, Ph: (317) 233-2061, Email: pacarpenter@indot.in.gov, 10/7 - 20726135 - hspaxlp

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y that the printed matter attached hereto is a true copy, of the same column width and type size, blished in said paper (1) times. The dates of publication being as follows:

October 1, 2015

the statement checked below is true and correct:

- per does not have a Web site.
- per has a Web site and this public notice was posted on the same day as it was published in newspaper.
- per has a Web site, but due to technical problem or error, public notice was posted on
- per has a Web site but refuses to post the public notice.

Jacob Am...

Title: Legal Clerk

-7-2015

Date



INDIANA DEPARTMENT OF TRANSPORTATION
LAPORTE DISTRICT

Appendix F
Waters Determination

**WATERS OF THE U.S. DETERMINATION FORM
US 20 and Waverly Rd. Intersection
Porter County, Indiana
Intersection Improvement
Designation Number: 1006622**

Prepared By: Laura Jack, INDOT, LaPorte District
November 13, 2015

Date of Waters Field Investigation: June 19, 2015 & September 22, 2015

Location:
Section 25 & 26, Township 37N, Range 6W
Dunes Acres Quadrangle Porter
County, Indiana

National Wetland Inventory (NWI) Information:
There are no NWI wetlands identified within the project area.
NWI Maps are attached to this report.

Soils:
According to the Soil Survey Geographic (SSURGO) Database for Porter County, Indiana, the project area does contain nationally listed hydric soils.

| Soil Unit Symbol | Soil Unit Name |
|------------------|------------------------|
| Pe | Pewamo silty clay loam |

Attached Documents:
See the following pages for:
 Datasheets for the project area.
 Maps of the project area.
 Photographs of the project area.

Project Description:

This project is an intersection improvement at US 20 and Waverly Road, near the town of Chesterton in Porter County, Indiana. The project consists of widening pavement on both sides of US 20 to provide a left turn lane eastbound and westbound at Waverly Rd. The pavement would be widened on both sides of US 20 to provide a 12' left turn lane and 4' paved shoulders. The widening will take place approximately 0.2 miles east and west of the intersection. This project will require right of way, approximately 1.01 acres: 0.69 permanent and 0.32 temporary. The land adjacent to the project is commercial in the northeast and southeast quadrants and residential in the southwest and northwest quadrant. All right of way that is being purchased is commercial.

Field Reconnaissance

A site visit to the project area was conducted on June 19, 2015. Another site visit was conducted on September 22, 2015 for further investigation and to obtain a soil sample. For both investigations, the waters survey area consisted of an area 0.3 miles east and west of US 20 and

Waverly Rd intersection and 0.04 miles north and south of the intersection. The project area was evaluated for the presence or absence of wetlands meeting the criteria of the 1987 Corps of Engineers Wetland Delineation Manual and the Midwest Supplement. No jurisdictional waterways were observed within the project area on the USGS maps. Two roadside ditches were identified within the project area. The first was identified on the north side of US 20, west of the intersection by the presence of a dark line along the road in aerial photos. There was no OHWM or hydrology present. In addition, this area did not extend beyond the roadside ditch. The second roadside ditch is located on the north side of US 20, east of the intersection. The most current aerial photos indicate that a wetland complex extended from the north ditch, starting at Pinkerton Oil facility driveway. A portion of the ditch is located in map hydric soils. The width of this feature varied. A Dollar General store was recently constructed in that area to include a driveway and ditch modifications. As a result, the wetland portion of the ditch starts at the east edge of the property line. The wetland has been modified/shortened by the construction of Dollar General within the past year. See photos 29, 31, and 32. The general area is identified as Wetland A (Wetland Map attached).

**Wetland Summary Table
US 20 & Waverly Rd, Intersection Improvement
Porter County, Indiana
Des No: 1006622**

| Wetland ID | Photos | Lat/Long | Wetland Type | Area of Wetland | Quality | Likely Water of U.S.? |
|------------|----------------------------|-----------------------------|--------------|-----------------|---------|-----------------------|
| Wetland A | 26,27,28,29, 35,36, 37, 38 | 41.632845°N -87.065502°W | PEM1A | 0.7 acres | Poor | No |

Wetland A:

One roadside ditch with wetland habitat was identified during a site investigation. An area along US 20 was observed for the absence or presence of wetlands near the intersection of US 20 and Waverly Rd. An emergent wetland approximately 0.7 acres was identified within this reviewed area. This emergent wetland, Wetland A, was located within the roadside ditch and outside the cut/fill area of the ditch in certain places. IndianaMaps was used to measure acreage. The ditch did not have Ordinary High Water Mark (OHWM) and the ditch appeared to be dug out. Hydrology was present in the ditch. The ditch line contained hydrophytic vegetation. The dominant vegetation was *Phragmites australis* (Common reed grass) and *Typha angustifolia* (Cattail). A soil sample was taken within the wetland. This soil was identified as a depleted matrix and therefore a hydric soil. A data sheet for the wetland plot is attached to this report. Wetland A appeared to be of poor quality due to a lack of vegetative diversity. The area surrounding the wetland had vegetation that did not pass the hydrophytic vegetation tests. The vegetation was *Poa pratensis* (Kentucky bluegrass), *Tridens flavus var. flavus* (Purple top), and *Dipsacus fullonum subsp. sylvestris* (Teasel). There were also no signs of hydrology outside of the ditch line.

Conclusions:

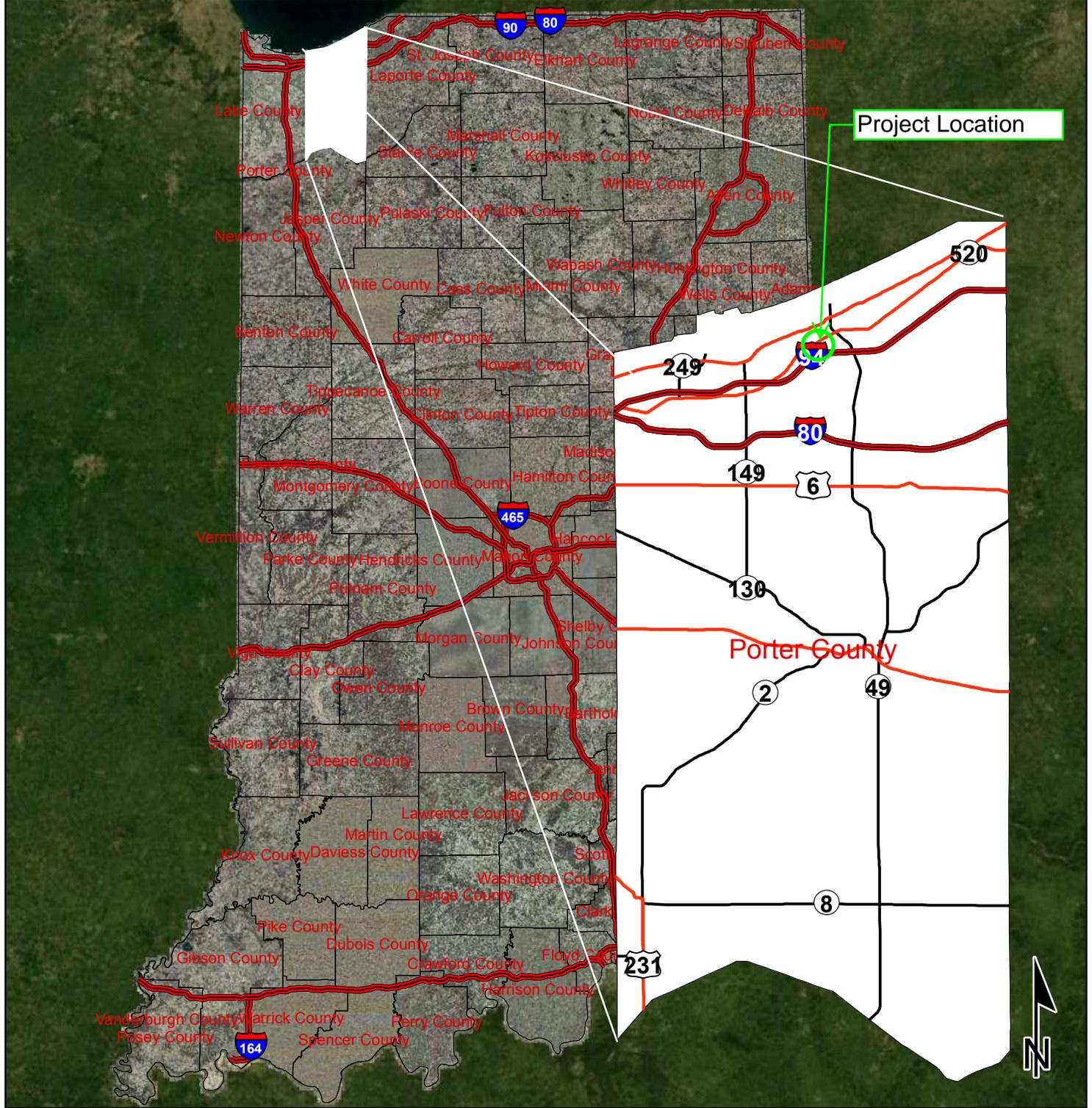
Two roadside ditches were discovered during the field investigation. One roadside ditch met the criteria for a wetland: hydrophytic vegetation, hydric soil, and hydrology. This wetland was approximately 0.7 acres and appeared to be a poor quality, emergent wetland. The other ditch that was identified in the project area did not meet the wetland criteria needed. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps.

Site Location

US 20 and Waverly Rd. Intersection

Des. No. 1006622, Intersection Improvement

Porter County, Indiana



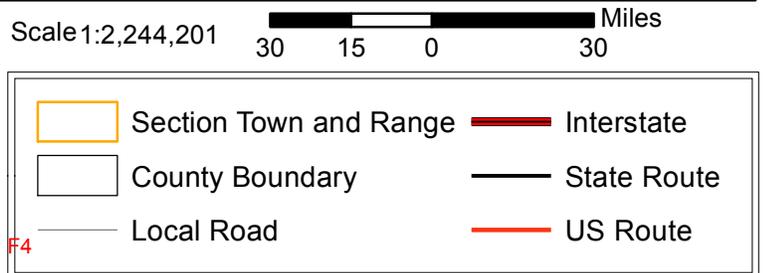
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Sources: Non Orthophotography

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

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

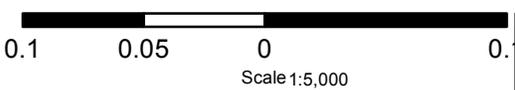
Map Projection: UTM Zone 16 N **Map Datum:** NAD83



Waters of the U.S. Determination - Aerial/NWI

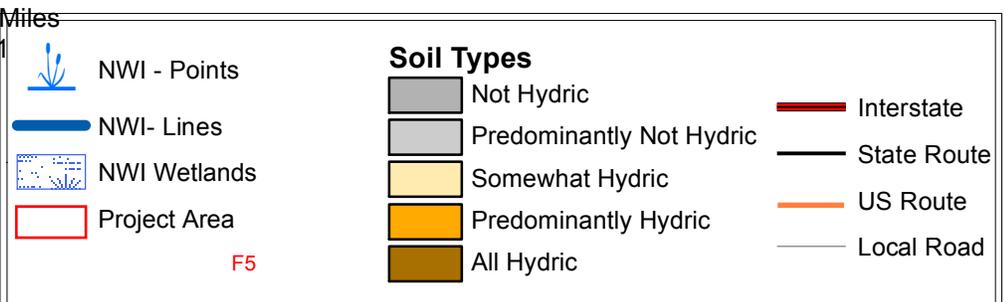
US 20 and Waverly Rd. Intersection Porter County, Indiana

Des No. 1006622, Intersection Improvement



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

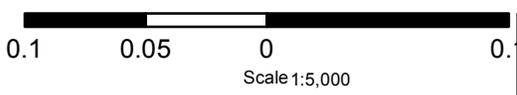
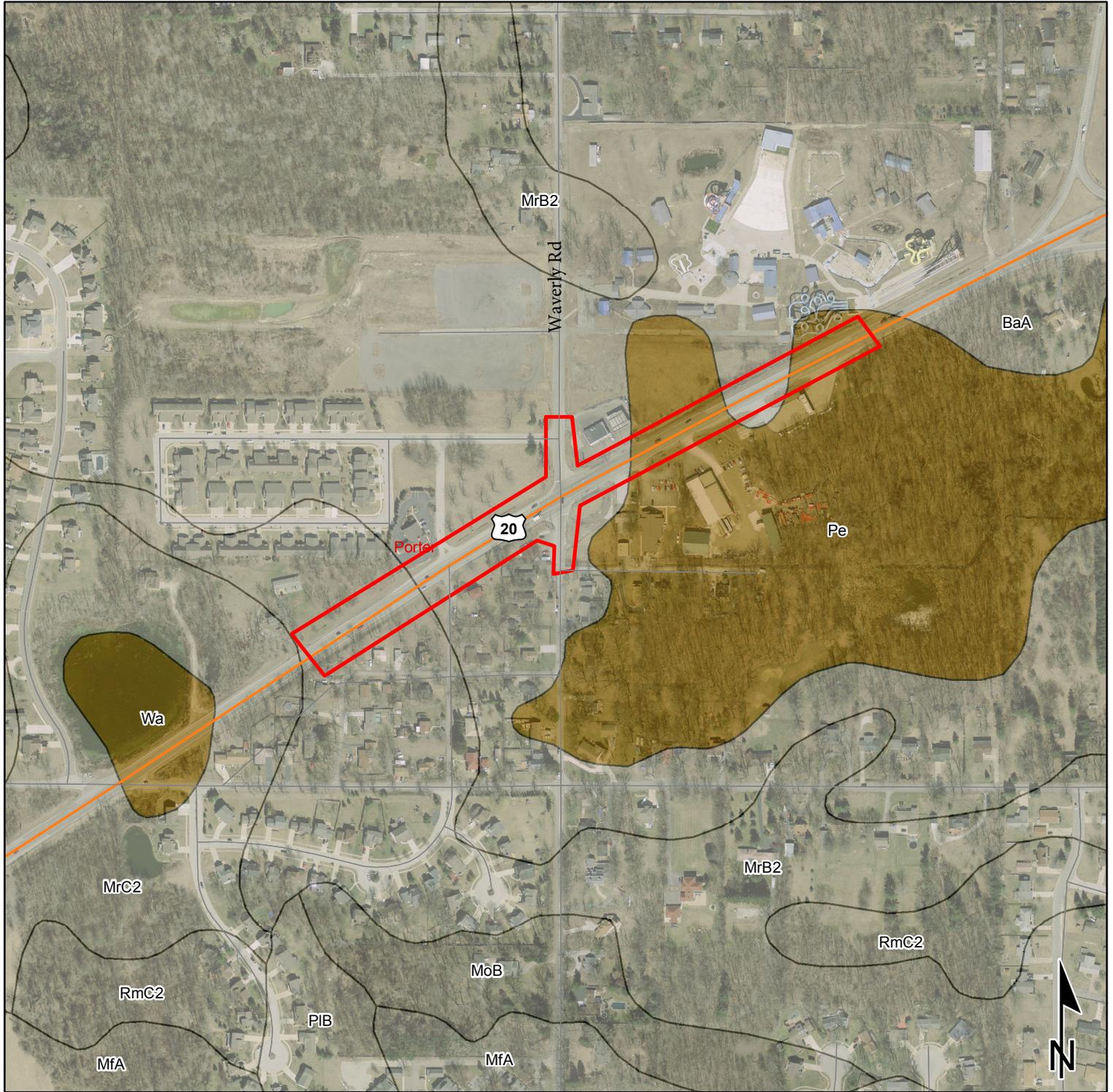
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



Waters of the U.S. Determination - Soils

US 20 and Waverly Rd. Intersection Porter County, Indiana

Des No. 1006622, Intersection Improvement



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

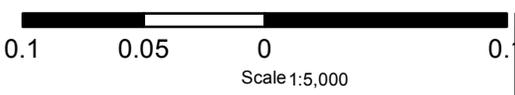
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

| | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|-------------|--|------------|--|--------------------------|--|-------------|--|-----------------|--|----------|--|----------------------|--|------------|--|------------|--|--|--|
| <p> NWI - Points</p> <p> NWI- Lines</p> <p> NWI Wetlands</p> <p> Project Area</p> <p style="text-align: right; color: red;">F6</p> | <p>Soil Types</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 20px;"></td> <td>Not Hydric</td> <td style="width: 20px;"></td> <td>Interstate</td> </tr> <tr> <td></td> <td>Predominantly Not Hydric</td> <td></td> <td>State Route</td> </tr> <tr> <td></td> <td>Somewhat Hydric</td> <td></td> <td>US Route</td> </tr> <tr> <td></td> <td>Predominantly Hydric</td> <td></td> <td>Local Road</td> </tr> <tr> <td></td> <td>All Hydric</td> <td></td> <td></td> </tr> </table> | | Not Hydric | | Interstate | | Predominantly Not Hydric | | State Route | | Somewhat Hydric | | US Route | | Predominantly Hydric | | Local Road | | All Hydric | | | |
| | Not Hydric | | Interstate | | | | | | | | | | | | | | | | | | | |
| | Predominantly Not Hydric | | State Route | | | | | | | | | | | | | | | | | | | |
| | Somewhat Hydric | | US Route | | | | | | | | | | | | | | | | | | | |
| | Predominantly Hydric | | Local Road | | | | | | | | | | | | | | | | | | | |
| | All Hydric | | | | | | | | | | | | | | | | | | | | | |

Waters of the U.S. Determination - TOPO

US 20 and Waverly Rd. Intersection Porter County, Indiana

Des No. 1006622, Intersection Improvement



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

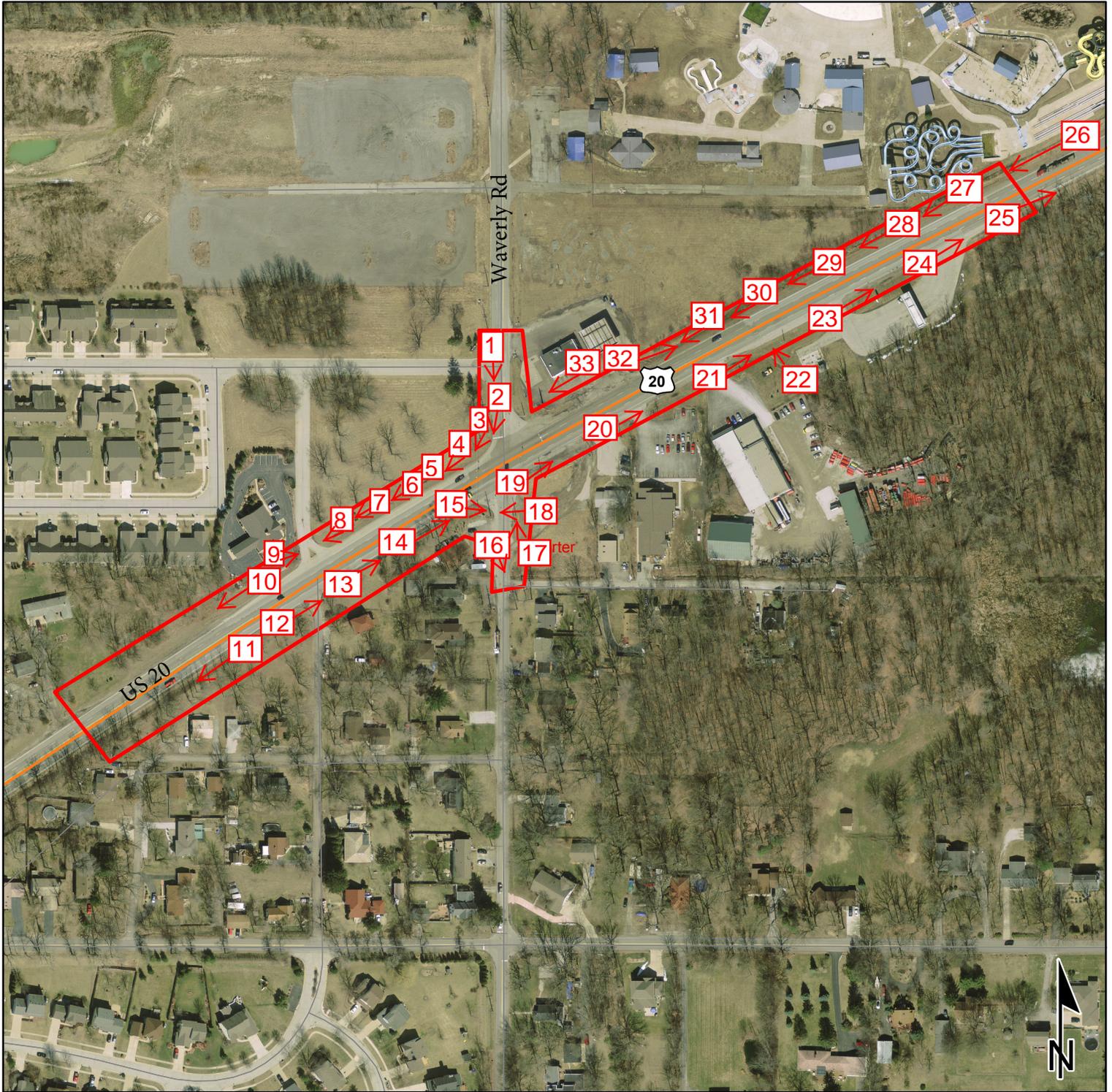
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

| | | |
|--|---|---|
| <p>Miles</p> <p>0.1 0.05 0 0.1</p> <p>Scale 1:5,000</p> <ul style="list-style-type: none"> NWI - Points NWI- Lines NWI Wetlands Project Area | <p>Soil Types</p> <ul style="list-style-type: none"> Not Hydric Predominantly Not Hydric Somewhat Hydric Predominantly Hydric All Hydric | <ul style="list-style-type: none"> Interstate State Route US Route Local Road |
|--|---|---|

Waters of the U.S. Determination - Photo Key

US 20 and Waverly Rd. Intersection Porter County, Indiana

Des No. 1006622, Intersection Improvement



0.06 0.03 0 0.06 Miles
Scale 1:3,000

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 - Points
 -  NWI- Lines
 -  NWI Wetlands
 -  Project Area
- F8

Soil Types

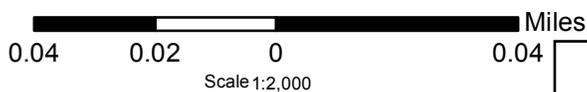
- | | | | |
|--|--------------------------|---|-------------|
|  | Not Hydric |  | Interstate |
|  | Predominantly Not Hydric |  | State Route |
|  | Somewhat Hydric |  | US Route |
|  | Predominantly Hydric |  | Local Road |
|  | All Hydric | | |

Waters of the U.S. Determination - Photo Key Cont'd

US 20 and Waverly Rd. Intersection

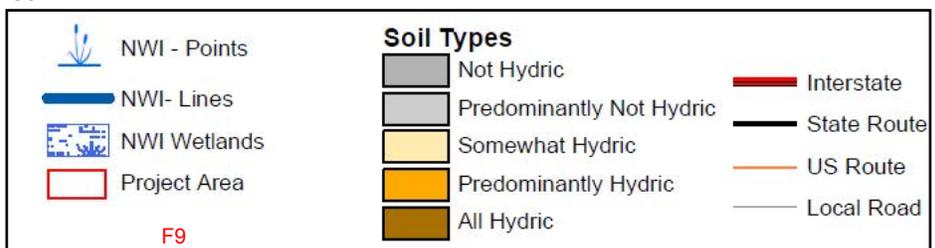
Porter County, Indiana

Des No. 1006622, Intersection Improvement



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

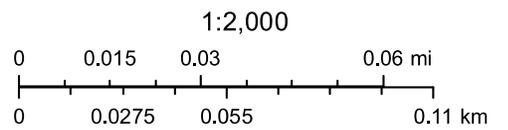
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



Wetland Map

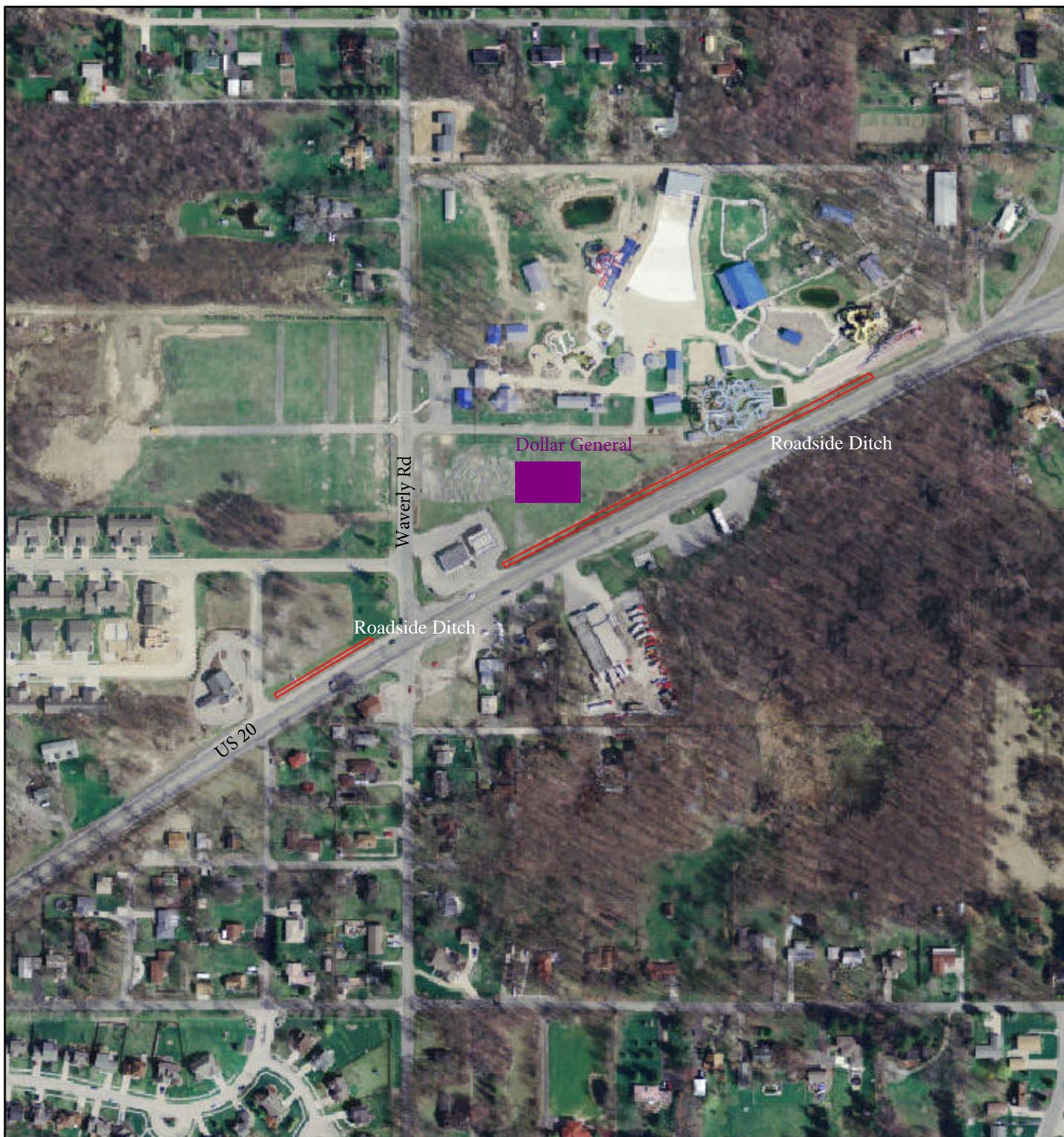


November 13, 2015

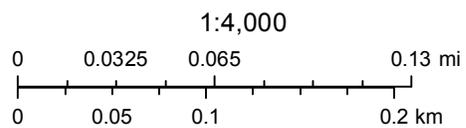


Indiana Spatial Data Portal, UITS, ESRI

Roadside Ditches
US 20 & Waverly Road, Intersection Improvement
Des. No. 1006622



October 1, 2015



Indiana Spatial Data Portal, UITS, ESRI

Field Investigation Photos
US 20 & Waverly Road, Intersection Improvement
Porter County, Indiana
June 19, 2015



Photo 1: Facing south looking at the north end of intersection US 20 and Waverly Rd



Photo 2: Facing south looking at the northwest corner of US 20 and Waverly Rd



Photo 3: Facing west looking at drain on northwest side of intersection US 20 and Waverly Rd



Photo 4: Facing west looking at north side of US 20, west of Waverly Rd



Photo 5: Drain on north side of US 20, west of Waverly Rd



Photo 6: Facing west looking at ditch line on north side of US 20, west of Waverly Rd



Photo 7: Facing west looking at ditch line on the north side of US 20, west of Waverly Rd



Photo 8: Facing west at pipe outlet on north side of US 20, west of Waverly Rd



Photo 9: Facing east at pipe outlet on north side of US 20, west of Waverly Rd



Photo 10: Facing west looking at north side of US 20, west of Waverly Rd



Photo 11: Facing west looking at south side of US 20, west of Waverly Rd



Photo 12: Facing east looking at south side of US 20, west of Waverly Rd



Photo 13: Facing east looking at south side of US 20, west of Waverly Rd



Photo 14: Facing east looking at south side of US 20, west of Waverly Rd



Photo 15: Facing east looking at southwest side of intersection at US 20 and Waverly Rd



Photo 16: Facing south looking at east side of Waverly Rd, south of US 20



Photo 17: Facing north looking at southeast side of intersection



Photo 18: Facing west looking at southwest side of intersection



Photo 19: Facing northeast looking at east side of intersection



Photo 20: Facing east looking at southeast side of US 20



Photo 21: Facing east looking at south side of US 20



Photo 22: Drain outlet on south side of US 20, east of Waverly Rd



Photo 23: Facing east looking at south side of US 20



Photo 24: Facing east looking at south side of US 20



Photo 25: Facing east looking at south side of US 20

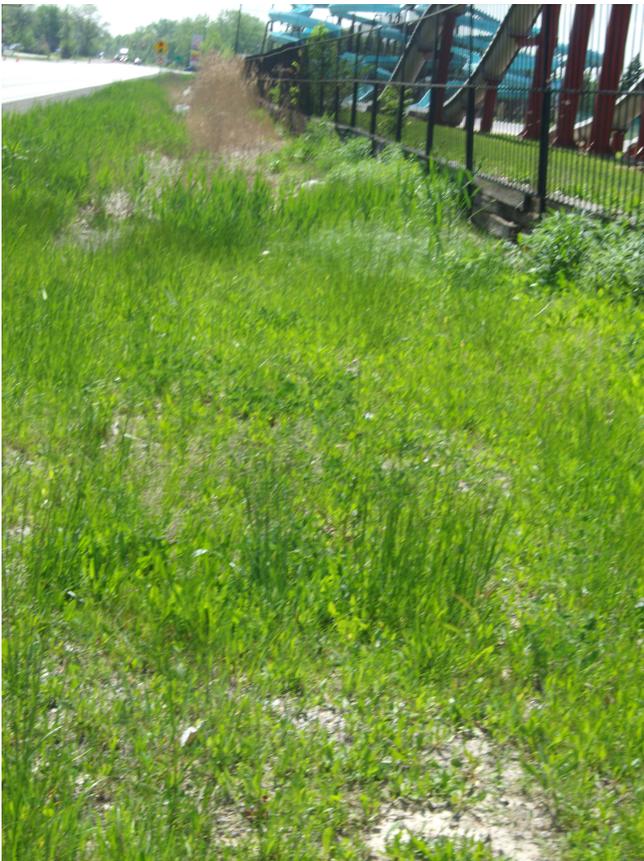


Photo 26: Facing west at north side of US 20



Photo 27: Facing west looking at ditch line on north side of US 20

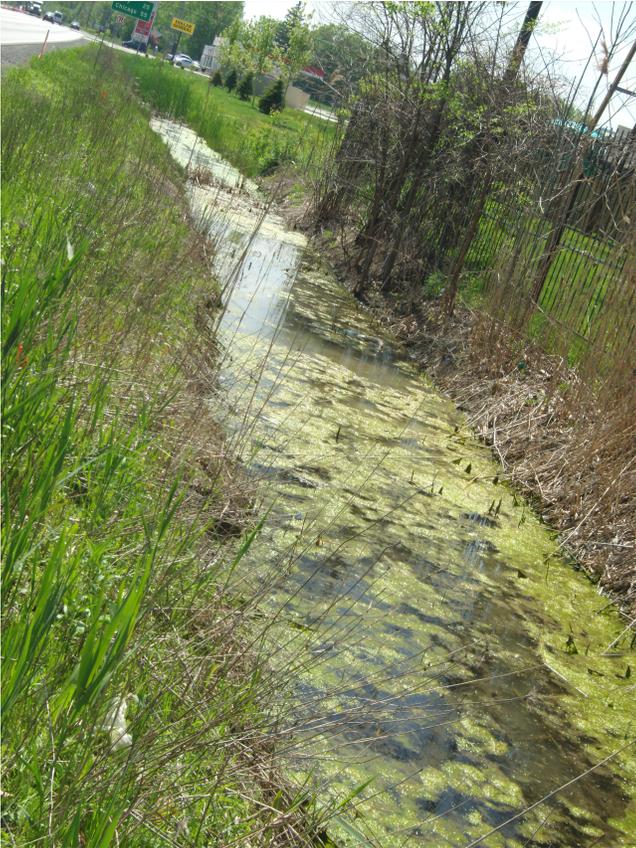


Photo 28: Facing west looking at ditch line on north side of US 20



Recent seeding near new Dollar General Store

Photo 29: Facing west looking at ditch line on north side of US 20, near new Dollar General Store



Photo 30: Facing west looking at east pipe outlet on north side of US 20

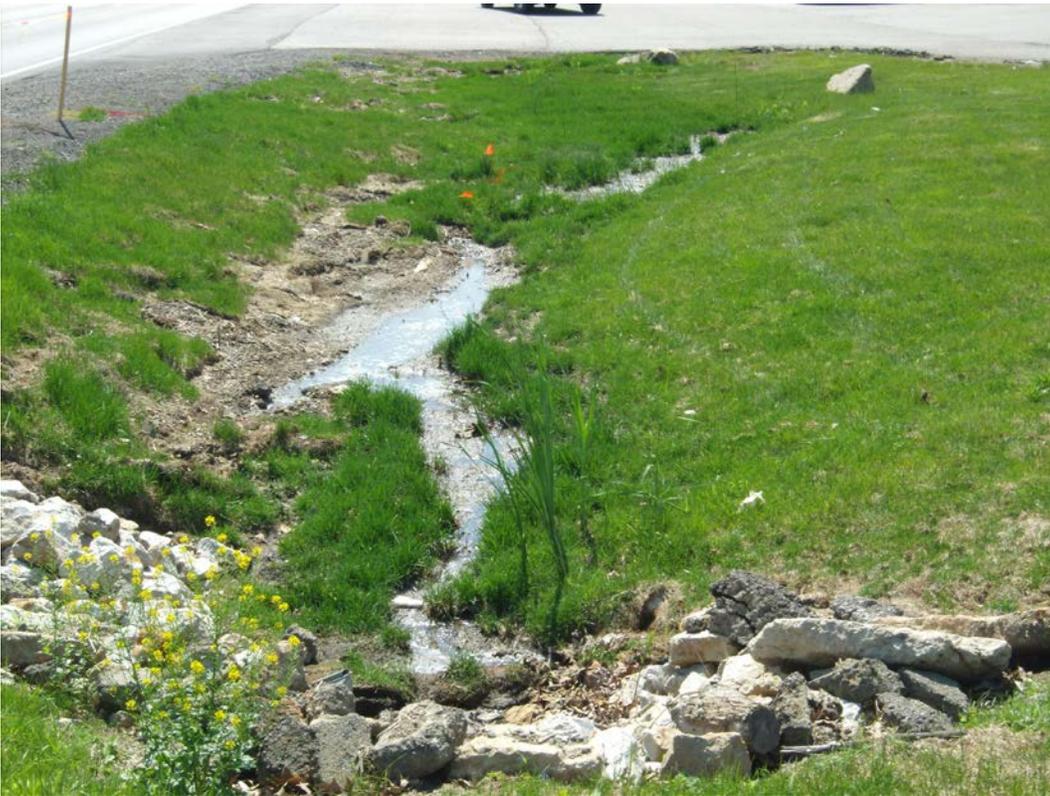


Photo 31: Facing west looking at drain ditch on north side of US 20



Photo 32: Facing east looking at west pipe outlet near new General Dollar Store on north side of US 20



Photo 33: Facing west looking at US 20 and Waverly Rd intersection



Photo 34: Facing northeast looking at north side of US 20

Field Investigation Photos
US 20 & Waverly Road, Intersection Improvement
Porter County, Indiana
June 19, 2015



Photo 35: Soil sample A1 within Wetland A on north end of US 20, east of Waverly Rd



Photo 36: Soil Sample A1 within Wetland A



Photo 37: Roadside ditch/emergent Wetland A north of US 20, east of Waverly Rd



Photo 38: Water within ditch/Wetland A

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: US 20 & Waverly Rd Intersection City/County: Porter County Sampling Date: 9/22/2015
 Applicant/Owner: INDOT State: IN Sampling Point: A1
 Investigator(s): Laura Jack Section, Township, Range: 25&26, 37N, 6W
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): None
 Slope (%): none Lat: 41.6328°N Long: 87.0654°W Datum: NAD83
 Soil Map Unit Name: Zadog-maumee loamy sands NWI Classification: _____

Are climatic/hydrologic conditions of the site typical for this time of the 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? remarks.)

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

| | |
|--|--|
| Hydrophytic vegetation present? <u>yes</u> Hydric soil present? <u>yes</u> Wetland hydrology present? <u>yes</u> | Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ |
| Remarks: (Explain alternative procedures here or in a separate report.) | |

VEGETATION -- Use scientific names of plants.

| Tree Stratum | (Plot size: <u>N/A</u>) | Absolute % Cover | Dominant Species | Indicator Status | |
|-----------------------|--------------------------|------------------|------------------|------------------|--|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| | | 0 | = Total Cover | | |
| Sapling/Shrub stratum | (Plot size: <u>N/A</u>) | | | | |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| | | 0 | = Total Cover | | |
| Herb stratum | (Plot size: <u>10</u>) | | | | |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| | | 100 | = Total Cover | | |
| Woody vine stratum | (Plot size: <u>N/A</u>) | | | | |
| 1 | | | | | |
| 2 | | | | | |
| | | 0 | = Total Cover | | |

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/B)

Prevalence Index Worksheet

Total % Cover of:

| | | | |
|---------------|----------------|-------|----------------|
| OBL species | <u>40</u> | x 1 = | <u>40</u> |
| FACW species | <u>60</u> | x 2 = | <u>120</u> |
| FAC species | <u>0</u> | x 3 = | <u>0</u> |
| FACU species | <u>0</u> | x 4 = | <u>0</u> |
| UPL species | <u>0</u> | x 5 = | <u>0</u> |
| Column totals | <u>100</u> (A) | | <u>160</u> (B) |

Prevalence Index = B/A = 1.60

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Yes No _____

Remarks: (Include photo numbers here or on a separate sheet)

SOIL

Sampling Point: A1

| 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 | | |
| 0-14 | 10YR 4-1 | 100 | | | | | clay loam | |
| 15 | | | | | | | gravel | |
| 16-18 | Gley 2.5/N | 100 | | | | | clay loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

| | | | | | |
|---|--|---|--|---|--|
| Hydric Soil Indicators: <input type="checkbox"/> Histisol (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 checked="" 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) | | Indicators for Problematic Hydric Soils³: <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <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: <u>Gravel</u> Depth (inches): <u>1</u> | Hydric soil present? Yes <u> x </u> No <u> </u> |
|--|---|

Remarks:

HYDROLOGY

| | | | | | |
|--|---|--|---|--|--|
| Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> | | | <u>Secondary Indicators (minimum of two required)</u> | | |
| <input checked="" type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Aquatic Fauna (B13) | <input type="checkbox"/> Surface Soil Cracks (B6) | | | |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> True Aquatic Plants (B14) | <input type="checkbox"/> Drainage Patterns (B10) | | | |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Dry-Season Water Table (C2) | | | |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input type="checkbox"/> Crayfish Burrows (C8) | | | |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | | | |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Stunted or Stressed Plants (D1) | | | |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Geomorphic Position (D2) | | | |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Gauge or Well Data (D9) | <input type="checkbox"/> FAC-Neutral Test (D5) | | | |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks) | | | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | | | | |
| <input type="checkbox"/> Water-Stained Leaves (B9) | | | | | |

| | | | | |
|--|--|--|--|---|
| Field Observations: Surface water present? Yes <u> x </u> No <u> </u> Depth (inches): <u> 2 </u> Water table present? Yes <u> </u> No <u> X </u> Depth (inches): <u> </u> Saturation present? Yes <u> </u> No <u> X </u> Depth (inches): <u> </u> (includes capillary fringe) | | | | Wetland hydrology present? Yes <u> x </u> No <u> </u> |
|--|--|--|--|---|

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

ATTACHMENT

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): November 13, 2015

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
INDOT-Laura Jack, 315 E. Boyd Blvd., LaPorte, IN 46350

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

DES #: 1006622

This project consists of widening pavement on both sides of US 20 to provide a left turn lane eastbound and westbound at Waverly Rd in Porter Indiana. The pavement would be widened on both sides of US 20 to provide a 12' left turn lane and 4' paved shoulders. This project will require right of way, approximately 1.01 acres: 0.69 permanent and 0.32 temporary. The land adjacent to the project is commercial in the northeast and southeast quadrants and residential in the southwest and northwest quadrant. All right of way is commercial.

(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: IN County/parish/borough: Porter County

City: Porter, IN

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

Lat. 41.631° N, Long. -87.067°W.

Universal Transverse Mercator: 37 N

Name of nearest waterbody: N/A

Identify (estimate) amount of waters in the review area:

Non-wetland waters: N/A

Cowardin Class: N/A

Stream Flow: N/A

Wetlands: 0.7 acres

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: N/A

Non-Tidal: N/A

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

Office (Desk) Determination. Date:

Field Determination. Date(s):

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

This preliminary JD finds that there “*may be*” waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply

- checked items should be included in case file and, where checked and requested, appropriately reference sources below):
- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: .
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps: .
- Corps navigable waters’ study: .
- U.S. Geological Survey Hydrologic Atlas: .
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: 7.5 Minute Series, Dune Acres Quadrangle.
- USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey Geographic Database, Porter County.
- National wetlands inventory map(s). Cite name: .
- State/Local wetland inventory map(s): .
- FEMA/FIRM maps: .
- 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date):
or Other (Name & Date): Field Photos 6/19/2015 & 9/22/2015
- Previous determination(s). File no. and date of response letter: .
- Other information (please specify): .

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

Signature and date of
Regulatory Project Manager
(REQUIRED)

 Digitally signed by Laura Jack
DN: cn=Laura Jack, o=INDOT,
ou=Environmental Manager,
email=ljack@indot.in.gov, c=US
Date: 2015.11.13 08:45:48
-06'00'

Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining
the signature is impracticable)

Waters of the U.S. and Wetlands

| Site number | Latitude | Longitude | Cowardin Class | Estimated amount of aquatic resource in review area | Class of aquatic resource |
|--------------------|-----------------|------------------|-----------------------|--|----------------------------------|
| Wetland A | 41.632845°N | -87.065502°W | PEM1A | 0.7 acres | non-section 10 non-tidal |



INDIANA DEPARTMENT OF TRANSPORTATION
LAPORTE DISTRICT

Appendix G
Transportation Improvement Plans

Indiana Department of Transportation (INDOT)
 State Preservation and Local Initiated Projects FY 2016 - 2019

| SPONSOR | DES | STIP NAME | ROUTE | WORK TYPE | LOCATION | DISTRICT | MILES | FEDERAL CATEGORY | Estimated Cost left to Complete Project* | PROGRAM | PHASE | FEDERAL | MATCH | 2016 | 2017 | 2018 | 2019 |
|---|---------|-----------|---------|--|---|----------|-------|------------------|--|-----------------------|-------|----------------|----------------|--------------|--------------|------|----------------|
| Valparaiso | 1400569 | M 09 | IR 1019 | Auxiliary Lanes, Accel & Decel or Turn Lanes | Calumet Ave from Burlington Beach Rd to Bullseye Lake Rd | LaPorte | .6 | STP | | Northwest Indiana MPO | RW | \$130,400.00 | \$0.00 | \$130,400.00 | | | |
| | | | | | | | | | | Northwest Indiana MPO | CN | \$600,000.00 | \$0.00 | | \$600,000.00 | | |
| | | | | | | | | | | 100% Local Funds | CN | \$0.00 | \$150,000.00 | | \$150,000.00 | | |
| Comments: NIRPC FY 16-19 TIP in cooperated into STIP 2016-2019 by reference July 1, 2016 for phases and year. | | | | | | | | | | | | | | | | | |
| Valparaiso | 1400569 | M 15 | IR 1019 | Auxiliary Lanes, Accel & Decel or Turn Lanes | Calumet Ave from Burlington Beach Rd to Bullseye Lake Rd | LaPorte | .6 | STP | \$1,641,278.00 | 100% Local Funds | CN | \$0.00 | \$145,656.00 | | \$145,656.00 | | |
| | | | | | | | | | | Northwest Indiana MPO | CN | \$582,622.00 | \$0.00 | | \$582,622.00 | | |
| Comments: NIRPC Admin Mod July 2015 increase federal CN to \$1,182,622 | | | | | | | | | | | | | | | | | |
| MPO - Northwest | 1400572 | A 04 | IR 1025 | Other Type Project (Miscellaneous) | Air Quality Public Education Program for SFY2015 and 2016 | LaPorte | 0 | STP | | 100% Local Funds | PE | \$0.00 | \$56,125.00 | \$56,125.00 | | | |
| | | | | | | | | | | Northwest Indiana MPO | PE | \$224,500.00 | \$0.00 | \$224,500.00 | | | |
| Comments: Adding second year (FY 16) UPWP CMAQ funding to amendment 16-04 STIP - already in 2016-19 NIRPC TIP | | | | | | | | | | | | | | | | | |
| Indiana Department of Transportation | 1400287 | Init. | SR 149 | Culvert Clean And Repair | 1.64 mi S of jct US 20 | LaPorte | 0 | INHPP | | Bridge ROW | RW | \$5,600.00 | \$1,400.00 | \$7,000.00 | | | |
| | | | | | | | | | | Bridge Construction | CN | \$84,800.00 | \$21,200.00 | | \$106,000.00 | | |
| Indiana Department of Transportation | 1006622 | Init. | US 20 | Other Intersection Improvement | & Waverly Rd | LaPorte | 0 | STP | | Mobility ROW | RW | \$200,000.00 | \$50,000.00 | \$250,000.00 | | | |
| | | | | | | | | | | Mobility Construction | CN | \$639,200.00 | \$159,800.00 | | \$799,000.00 | | |
| Porter County | 1401029 | M 09 | IR 1001 | Road Reconstruction (3R/4R Standards) | CR 100S - 2000' W of CR 725W to 1000' E of CR 500W | LaPorte | 5 | STP | | 100% Local Funds | CN | \$0.00 | \$1,220,197.50 | | | | \$1,220,197.50 |
| | | | | | | | | | | Group IV Program | RW | \$534,860.00 | \$0.00 | | \$534,860.00 | | |
| | | | | | | | | | | Group IV Program | CN | \$4,880,790.00 | \$0.00 | | | | \$4,880,790.00 |
| | | | | | | | | | | 100% Local Funds | RW | \$0.00 | \$133,715.00 | | \$133,715.00 | | |
| | | | | | | | | | | 100% Local Funds | PE | \$0.00 | \$246,140.00 | \$246,140.00 | | | |
| | | | | | | | | | | Group IV Program | PE | \$84,660.00 | \$0.00 | | \$84,660.00 | | |

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



2016-2019 Transportation Improvement Program for Lake, LaPorte, and Porter Counties, Indiana
Northwestern Indiana Regional Planning Commission
All State & Local Highway Projects September 2015

Includes Amendments through Sept 2015 & Administrative Modifications through August 2015

Yellow background denotes recent activity.

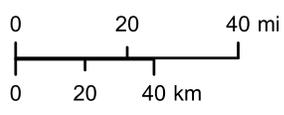
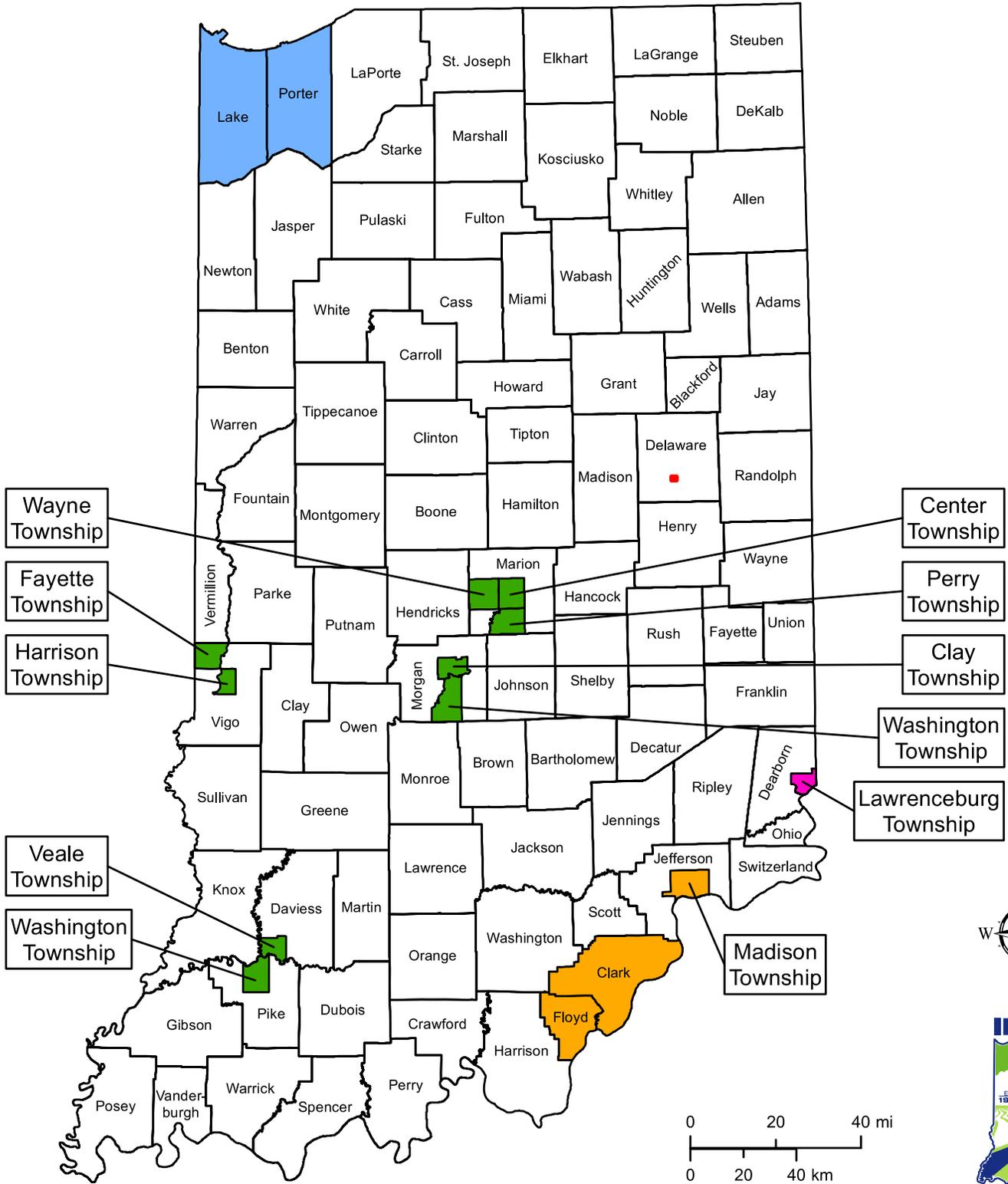
| Row No. | Des # | Sponsor | Route | Work Category | Work Type | Location | County | Des Length | Federal Fund Type | Phase | Year | Total Cost | Federal Funds | Non-Federal Funds | Non-Exempt (NE) or Regionally Significant (RS) |
|---------|---------|---------|--------|--|---------------------------------|--|--------|------------|-------------------|-------|------|--------------|---------------|-------------------|--|
| 202 | 1296364 | INDOT | SR 49 | District Bridge Project (Rehabilitation) | Bridge Painting | Bridge over Amtrak, 0.33 miles N of I-94 | Porter | 0.0 | FHWA NHPP - NHS | CN | 2016 | \$ 810,000 | \$ 648,000 | \$ 162,000 | |
| 203 | 1297642 | INDOT | US 20 | District Pavement Project (Non-I) | Surface Treatment, Microsurface | From SR 249 to SR 149 | Porter | 2.5 | FHWA STP (State) | PE | 2016 | \$ 57,596 | \$ 46,077 | \$ 11,519 | |
| 204 | 1297642 | INDOT | US 20 | District Pavement Project (Non-I) | Surface Treatment, Microsurface | From SR 249 to SR 149 | Porter | 2.5 | FHWA STP (State) | CN | 2016 | \$ 400,000 | \$ 320,000 | \$ 80,000 | |
| 205 | 1298402 | INDOT | US 20 | District Bridge Project (Rehabilitation) | Bridge Deck Replacement | Bridge over CSX RR, 1.3 mi. W of SR 249 | Porter | 0.0 | FHWA STP (State) | PE | 2017 | \$ 25,000 | \$ 20,000 | \$ 5,000 | |
| 206 | 1298402 | INDOT | US 20 | District Bridge Project (Rehabilitation) | Bridge Deck Replacement | Bridge over CSX RR, 1.3 mi. W of SR 249 | Porter | 0.0 | FHWA STP (State) | CN | 2018 | \$ 1,700,000 | \$ 1,360,000 | \$ 340,000 | |
| 207 | 1400287 | INDOT | SR 149 | District Bridge Project (Rehabilitation) | Culvert Clean And Repair | 1.64 mi S of jct US 20 | Porter | 0.0 | FHWA NHPP - NHS | RW | 2016 | \$ 10,000 | \$ 8,000 | \$ 2,000 | |
| 208 | 1400287 | INDOT | SR 149 | District Bridge Project (Rehabilitation) | Culvert Clean And Repair | 1.64 mi S of jct US 20 | Porter | 0.0 | FHWA NHPP - NHS | CN | 2016 | \$ 39,125 | \$ 31,300 | \$ 7,825 | |
| 209 | 1006622 | INDOT | US 20 | District Pavement Project (Non-I) | Other Intersection Improvement | & Waverly Rd | Porter | 0.0 | FHWA STP (State) | RW | 2016 | \$ 250,000 | \$ 200,000 | \$ 50,000 | |
| 210 | 1006622 | INDOT | US 20 | District Pavement Project (Non-I) | Other Intersection Improvement | & Waverly Rd | Porter | 0.0 | FHWA STP (State) | CN | 2017 | \$ 799,000 | \$ 639,200 | \$ 159,800 | |
| 211 | 1383719 | INDOT | US 30 | District Small Structure Project | Small Structure Replacement | Box Culvert near CR 325 E - WB | Porter | 0.0 | FHWA NHPP - NHS | RW | 2017 | \$ 9,000 | \$ 7,200 | \$ 1,800 | |
| 212 | 1383719 | INDOT | US 30 | District Small Structure Project | Small Structure Replacement | Box Culvert near CR 325 E - WB | Porter | 0.0 | FHWA NHPP - NHS | CN | 2019 | \$ 117,000 | \$ 93,600 | \$ 23,400 | |
| 213 | 1383583 | INDOT | SR 49 | District Pavement Project (Non-I) | HMA Overlay, Functional | From SR 8 to US 30 | Porter | 9.2 | FHWA STP (State) | CN | 2019 | \$ 4,983,000 | \$ 3,986,400 | \$ 996,600 | |
| 214 | 1383633 | INDOT | SR 2 | Intersection Improvement Project | Other Intersection Improvement | at Hayes-Leonard | Porter | 0.0 | FHWA NHPP - NHS | PE | 2016 | \$ 144,000 | \$ 115,200 | \$ 28,800 | |
| 215 | 1383633 | INDOT | SR 2 | Intersection Improvement Project | Other Intersection Improvement | at Hayes-Leonard | Porter | 0.0 | FHWA NHPP - NHS | RW | 2017 | \$ 67,000 | \$ 53,600 | \$ 13,400 | |
| 216 | 1383633 | INDOT | SR 2 | Intersection Improvement Project | Other Intersection Improvement | at Hayes-Leonard | Porter | 0.0 | FHWA NHPP - NHS | CN | 2019 | \$ 858,000 | \$ 686,400 | \$ 171,600 | |



INDIANA DEPARTMENT OF TRANSPORTATION
LAPORTE DISTRICT

Appendix H
Air Quality

Current Nonattainment Areas



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

Mapped By: B. Callahan, OAQ **Date:** 3/18/2015
Source: Office of Air Quality
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

- Nonattainment for the 1997 Annual Fine Particle Standard
- Nonattainment for the 2008 8-Hour Ozone Standard
- Nonattainment for the 2010 1-Hour SO₂ Standard
- Nonattainment for the 2008 Lead Standard
- Nonattainment for the 2008 8-Hour Ozone Standard and the 1997 Annual Fine Particle Standard



INDIANA DEPARTMENT OF TRANSPORTATION
LAPORTE DISTRICT

Appendix I
Public Involvement



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

LaPorte District
315 East Boyd Boulevard
P.O. Box 429
LaPorte, Indiana 46350

PHONE: (219) 362-6125
FAX: (219) 325-7516

Michael R. Pence, Governor
Karl B. Browning, Commissioner

August 28, 2014

Reno & Anita A. Boe
130 W. Oak Hill Road

Porter, In 46304

NOTICE OF SURVEY

Dear Property Owner:

The Indiana Department of Transportation (INDOT) will perform a survey for the proposed **Intersection Improvement** project on **US 20 at Waverly Road**, Des No. **1006622**, in **Porter** County, Indiana. A portion of this survey work may be performed on your property in order to provide design engineers information for project design. The survey work will include mapping the location of features such as trees, buildings, fences, drives, ground elevations, etc. The survey is needed for the proper planning and design of this highway project.

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

Indiana Code 8-23-7-26 allows the **LaPorte** Survey Section, as the authorized employees of INDOT, *Right of Entry* to the project site (including private property) upon proper notification. A copy of a Notice of Survey discussion sheet, as found on INDOT's website (<http://www.in.gov/indot/3271.htm>), is attached to this letter. Pursuant to Indiana Code 8-23-7-27, this letter serves as written notification that we will be performing the above noted survey in the vicinity of your property after **September 2, 2014**.

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

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

Doug Furness
315 East Boyd Boulevard
LaPorte, In. 46350
(219) 325-7407



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

LaPorte District
315 East Boyd Boulevard
P.O. Box 429
LaPorte, Indiana 46350

PHONE: (219) 362-6125
FAX: (219) 325-7516

Michael R. Pence, Governor
Karl B. Browning, Commissioner

Under Indiana Code 8-23-7-28, you have a right to compensation for any damage that occurs to your land or water as a result of the entry or work performed during the entry. To obtain such compensation, you should contact the [LaPorte](#) District Real Estate Manager; contact information is below. The District Real Estate Manager can provide you with a form to request compensation for damages. Once you fill out this form, you can return it to the District Real Estate Manager for consideration. If you are not satisfied with the compensation that INDOT determines is owed to you, Indiana Code 8-23-7-28 provides the following:

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

If you have questions regarding the rights and procedures outlined in this letter, please contact the [LaPorte](#) Real Estate Manager. This contact information is as follows:

[John Krueckeberg](#)
[315 East Boyd Boulevard](#)
[LaPorte, In. 46350](#)
[\(219\) 325-7520](#)

Thank you in advance for your cooperation in this matter.

Sincerely,

[Doug Furness](#)
[LaPorte District Survey](#)

Clark, Rickie

From: Clark, Rickie
Sent: Thursday, August 13, 2015 9:52 AM
To: auditor@porterco.org; jevans@porterco.org; lblaney@porterco.org; amckay@porterco.org; kshivley@porterco.org; djames@porterco.org; cpomeroy@townofporter.com; dwoodrich@townofporter.com; enelson@townofporter.com; gstinson@townofporter.com; jvirtue@townofporter.com; rpomeroy@townofporter.com; bbrueckheimer@townofporter.com; nirpc@nirpc.org
Cc: DOT LaPorte District Communications; Shrader, Lisa; Deitchley, Matthew K; Dickerson, Margaret; Summers, Stephan
Subject: Public meeting regarding a proposed intersection improvement project at U.S. 20 and Waverly Road in the Town of Porter, Porter County



INDIANA DEPARTMENT OF TRANSPORTATION

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INDOT welcomes the opportunity to meet with the community and looks forward to continuing engagement as a transportation safety enhancement solution is identified at this location.

Please Join Us

Thursday, August 13, 2015

6:00p.m. (local time) Formal Presentation

Porter Town Hall

303 Franklin Street

Porter, Indiana 46304

The meeting will feature a formal presentation beginning at 6:00pm (local time). Following the presentation, INDOT representatives will be available to address questions, comments and concerns. In an effort to better inform the community of proposal developments, information will be posted to our website at: <http://www.in.gov/indot/2705.htm> via the LaPorte District page following the public meeting. Please visit the INDOT website to follow project developments and to receive related news and updates.

In accordance with the "Americans with Disabilities Act", if you have a disability for which the Indiana Department of Transportation needs to provide accommodations in regards to your participation during the meeting and/or access to project related information requiring signers, large print materials, enhanced audio services or Braille converted documents, please contact Rickie Clark, INDOT Office of Public Involvement at (317) 232-6601 rclark@indot.in.gov. In addition, persons with Limited English Proficiency (LEP) requiring language interpretation and translation services are encouraged to contact the INDOT Office of Public Involvement for accommodation.

INDOT looks forward to meeting with the community on Thursday, August 13, 2015. Should you have additional questions regarding this meeting, please feel to contact Rickie Clark, INDOT Office of Public Involvement (317) 232-6601 rclark@indot.in.gov or the INDOT LaPorte District Customer Service Center at (855) 464-6368 LaPorteDistrictCommunications@indot.in.gov.

Rickie Clark, Indiana Department of Transportation
Office of Public Involvement / Central Office Communications
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204
Phone: (317) 232-6601
Email: rclark@indot.in.gov



Clark, Rickie

From: Clark, Rickie
Sent: Thursday, August 13, 2015 9:52 AM
To: House District 10; House District 11; House District 93; House District 46; House District 19; Senate District 5; Senate District 4
Cc: DOT LaPorte District Communications; Alderman, Robert; Shrader, Lisa; Deitchley, Matthew K; Powers, Rick
Subject: Public meeting regarding a proposed intersection improvement project at U.S. 20 and Waverly Road in the Town of Porter, Porter County



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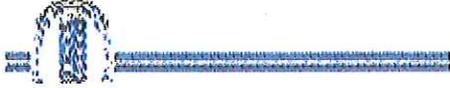
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Clark, Rickie

From: Clark, Rickie
Sent: Wednesday, July 29, 2015 3:27 PM
To: auditor@porterco.org; jevans@porterco.org; lblaney@porterco.org; amckay@porterco.org; kshivley@porterco.org; djames@porterco.org; cpomeroy@townofporter.com; dwoodrich@townofporter.com; enelson@townofporter.com; gstinson@townofporter.com; jvirtue@townofporter.com; rpomeroy@townofporter.com; bbrueckheimer@townofporter.com; nirpc@nirpc.org
Cc: DOT LaPorte District Communications; Shrader, Lisa; Deitchley, Matthew K; Dickerson, Margaret
Subject: Public meeting regarding a proposed intersection improvement project at U.S. 20 and Waverly Road in the Town of Porter, Porter County



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To: House District 10; House District 11; House District 93; House District 46; House District 19; Senate District 5; Senate District 4
Cc: DOT LaPorte District Communications; Alderman, Robert; Shrader, Lisa; Deitchley, Matthew K; Powers, Rick
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Indianapolis, Indiana 46204

Phone: (317) 232-6601

Email: rclark@indot.in.gov



Clark, Rickie

From: Clark, Rickie
Sent: Friday, August 07, 2015 3:21 PM
To: auditor@porterco.org; jevans@porterco.org; lbianey@porterco.org; amckay@porterco.org; kshivley@porterco.org; djames@porterco.org; cpomeroy@townofporter.com; dwoodrich@townofporter.com; enelson@townofporter.com; gstinson@townofporter.com; jvirtue@townofporter.com; rpomeroy@townofporter.com; bbrueckheimer@townofporter.com; nirpc@nirpc.org
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INDOT looks forward to meeting with the community on Thursday, August 13, 2015. Should you have additional questions regarding this meeting, please feel to contact Rickie Clark, INDOT Office of Public Involvement (317) 232-6601 rclark@indot.in.gov or the INDOT LaPorte District Customer Service Center at (855) 464-6368 LaPorteDistrictCommunications@indot.in.gov.

Rickie Clark, Indiana Department of Transportation
Office of Public Involvement / Central Office Communications
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204
Phone: (317) 232-6601
Email: rclark@indot.in.gov



Clark, Rickie

From: Clark, Rickie
Sent: Friday, August 07, 2015 3:21 PM
To: House District 10; House District 11; House District 93; House District 46; House District 19; Senate District 5; Senate District 4
Cc: DOT LaPorte District Communications; Alderman, Robert; Shrader, Lisa; Deitchley, Matthew K; Powers, Rick
Subject: Public meeting regarding a proposed intersection improvement project at U.S. 20 and Waverly Road in the Town of Porter, Porter County



INDIANA DEPARTMENT OF TRANSPORTATION

The Indiana Department of Transportation (INDOT) will host a public information meeting regarding a proposed intersection improvement project on U.S. 20 at Waverly Road in the Town of Porter. The purpose of this meeting is to present a preliminary plan for the community's review in addition to soliciting input and feedback regarding improving the intersection.

INDOT welcomes the opportunity to meet with the community and looks forward to continuing engagement as a transportation safety enhancement solution is identified at this location.

Please Join Us

Thursday, August 13, 2015

6:00p.m. (local time) Formal Presentation

Porter Town Hall

303 Franklin Street

Porter, Indiana 46304

The meeting will feature a formal presentation beginning at 6:00pm (local time). Following the presentation, INDOT representatives will be available to address questions, comments and concerns. In an effort to better inform the community of proposal developments, information will be posted to our website at: <http://www.in.gov/indot/2705.htm> via the LaPorte District page following the public meeting. Please visit the INDOT website to follow project developments and to receive related news and updates.

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rclark@indot.in.gov or the INDOT LaPorte District Customer Service Center at (855) 464-6368
LaPorteDistrictCommunications@indot.in.gov.

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Office of Public Involvement / Central Office Communications
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204

Phone: (317) 232-6601

Email: rclark@indot.in.gov





INDIANA DEPARTMENT OF TRANSPORTATION

Proposed US 20 Intersection Improvement at Waverly Road in Porter, Indiana (Porter County)

Thursday, August 13, 2015

6:00pm Public Information Meeting

Porter Town Hall

303 Franklin Street, Porter, Indiana 46303

Rickie Clark, Indiana Department of Transportation

Office of Public Involvement / Central Office Communications Division

100 North Senate Avenue, Room N642

Indianapolis, Indiana 46204

Phone: (317) 232-6601

Email: rclark@indot.in.gov





INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 232-6601
E-mail: rclark@indot.in.gov

Michael R. Pence, Governor
Brandye L. Hendrickson
Commissioner

Wednesday, July 29, 2015

Dear Local Resident, Concerned Citizen, and Elected Official:

The Indiana Department of Transportation (INDOT) will host a public information meeting regarding a proposed intersection improvement project at U.S. 20 and Waverly Road in the Town of Porter. The purpose of this meeting is to present a preliminary plan for the community's review in addition to soliciting input and feedback regarding improving the intersection.

INDOT welcomes the opportunity to meet with the community and looks forward to continuing engagement as a transportation safety enhancement solution is identified at this location.

Please Join Us

Thursday, August 13, 2015

6:00p.m. (local time) Formal Presentation

Porter Town Hall

303 Franklin Street

Porter, Indiana 46304

The meeting will feature a formal presentation beginning at 6:00pm (local time). Following the presentation, INDOT representatives will be available to address questions, comments and concerns. In an effort to better inform the community of proposal developments, information will be posted to our website at LaPorteDistrictCommunications@indot.in.gov via the LaPorte District page following the public meeting. Please visit the INDOT website to follow project developments and to receive related news and updates.

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INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 232-6601
E-mail: rclark@indot.in.gov

Michael R. Pence, Governor
Brandye Hendrickson
Commissioner

Thursday, August 13, 2015

Dear Local Resident, Citizen, and Elected Public Official:

Welcome to the Indiana Department of Transportation's (INDOT) public information meeting regarding a transportation safety improvement project on U.S. 20 at Waverly Road in the Town of Porter.

The purpose of this public meeting is to present information regarding preliminary plans to improve this intersection, as well as solicit input from local residents, community stakeholders and local officials.

INDOT welcomes the opportunity to meet with the community and looks forward to continuing engagement as safety focused transportation enhancements are considered.

There are several ways your comments may be presented this evening and over the next several weeks. You may submit comments in the following manner:

1. Complete a comment form and return it to an INDOT representative attending the public meeting. Comment forms are available at the sign-in table
2. Mail your comments to the Indiana Department of Transportation's (INDOT) LaPorte District Customer Service Center, 315 East Boyd Boulevard, LaPorte, Indiana 46350; comments may also be sent to the INDOT Office of Public Involvement, attention Rickie Clark, Room N642, 100 North Senate Avenue, Indianapolis, Indiana 46204
3. Comments may be e-mailed to: LaPorteDistrictCommunications@indot.in.gov and/or rclark@indot.in.gov
4. Contact the INDOT LaPorte District Customer Service Center 1-855-464-6368; INDOT Office of Public Involvement 317-232-6601
5. All comments will be reviewed, evaluated and considered

In an effort to keep the community informed, project related information will be posted to the INDOT LaPorte District page at: <http://www.in.gov/indot/2705.htm>. Please visit the district page to receive project related news and updates.

Thank you for attending this evening's public meeting.

Rickie Clark
INDOT Office of Public Involvement
(317) 232-6601 rclark@indot.in.gov

U.S. 20 Intersection Improvement Project at Waverly Road

Porter Town Hall

Thursday, August 13, 2015




Welcome

- Rickie Clark, INDOT Office of Public Involvement
- Purpose/explanation of public meeting
- Meeting format
- Visit our sign-in table
 - Project contact list to be developed
- Informational handouts
- Project display area




Welcome

- **Introduction of INDOT project officials**
 - Project Management
 - Public Involvement
 - LaPorte District – INDOT Regional Office
- **Recognition of elected and local public officials**

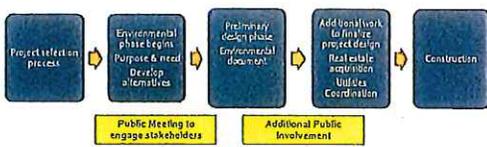



Project Stakeholders

- Indiana Department of Transportation
- Indiana Division Federal Highway Administration
- Porter County
- Town of Porter
- Local communities
- Elected public officials
- Community residents and citizens
- Commuters
- Businesses
- Trucking industry / freight movement




Project Development Process



```

    graph LR
      A[Project selection process] --> B[Environmental phase  
purpose & need  
design alternatives]
      B --> C[Preliminary design phase  
Environmental document]
      C --> D[Additional work to finalize project design  
Real estate acquisition  
Utilities coordination]
      D --> E[Construction]
      B --- B1[Public Meetings to engage stakeholders]
      C --- C1[Additional Public Involvement]
    
```




U.S. 20 at Waverly Road

- **Purpose and Need**
 - Enhance safety
 - Reduce crash rate
 - The purpose of this project is to improve traffic flow and safety:
 - Add left turn lanes for U.S. 20 eastbound and westbound traffic
 - Change the traffic signal operation to eliminate split phasing
 - Provide for future pedestrian / trail signalized crossing
 - Make modest improvements to corner radii & drive approaches
 - Maintain existing access while minimizing impacts to existing properties




Project Overview

- Originally constructed in 1931, concrete pavement, 10 ft. wide lanes with 50 ft. R/W each side
- Pavement overlaid with Asphalt in 1961. Has been overlaid and widened to 11 ft. wide lanes
- Traffic signal installed in 1995
- Operates as a split-phased (BB US 20, WB US 20 then Waverly Rd.) signalized arterial intersection
- Project includes pavement widening, milling and resurfacing of existing pavement, maintaining off-road drainage

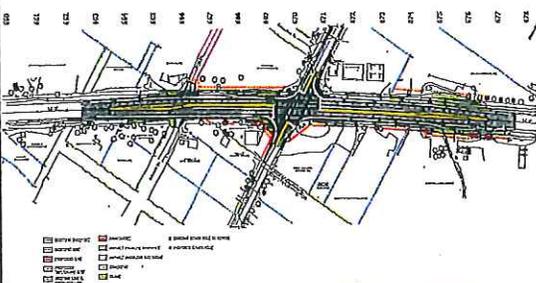



Project Overview

- Traffic signal will be upgraded, one pole replaced, existing right turn lanes off US 20 and existing Waverly Rd lanes will be maintained
- Only approach work on Waverly Rd. The existing horizontal and vertical alignment will be retained
- Traffic will be maintained during construction with short term closures of Waverly Rd
- Access to local businesses / drives will be provided throughout construction

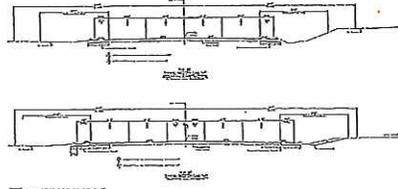



U.S. 20 at Waverly Road




U.S. 20 at Waverly Road

■ Typical section




Environmental Document

- Requirement of the National Environmental Policy Act (NEPA)
 - Requires INDOT to analyze and evaluate the impacts of a proposed project to the natural and socio-economic environments
 - Impacts are described in environmental document
 - Environmental document will be released for public involvement later this year




Environmental Document

- Purpose and Need
- Develop a number of possible alternatives
 - The "Do Nothing" alternative is a baseline for comparison
- Screen alternatives to identify a preferred alternative
- Solicit public comment on environmental document and preliminary design plan
- Solicit, address and fully consider public comment as part of decision making process




Environmental Documentation

Elements of the Environmental Documentation

- Real Estate
- Community Impacts
- Air Quality
- Wetlands and Waterways
- Noise
- Floodplains
- Farmland
- Endangered Species
- Hazardous Materials
- Environmental Justice
- Historic/Archaeological
- Sole Source Aquifer
- Cultural Resources
- Public Involvement




Real Estate Acquisition Process





Real Estate Acquisition Process

- **"Uniform Act of 1970"**
 - All federal, state and local governments must comply
 - Requires an offer for just compensation
- **Acquisition Process**
 - Appraisals
 - Review appraisals
 - Negotiations




Project Schedule

- Public Meeting - August 2015
- Environmental Document - September 2015
- Additional Public Involvement – Fall 2015
- Final design and real estate acquisition phase
 - 2016 thru 2017
- Construction – Summer 2017




Feedback

- **INDOT would like to hear from you**
 - Talk with INDOT project team members
 - Comment sheet in information packet
 - E-mail or mail comments to INDOT
 - Sign-in list to be added to project mailing list
 - Visit INDOT LaPorte District page at <http://www.in.gov/indot/2705.htm>
 - All comments are very much appreciated and will be reviewed by INDOT




Public Involvement Team

INDOT LaPorte District Office
 Communications Division
 315 East Boyd Boulevard
 LaPorte, Indiana 46350
 Phone: 1-855-464-6368
 E-mail: LaPorteDistrictCommunications@indot.in.gov
 Contact: Doug Moats

INDOT Office of Public Involvement, IGCN Room N642
 100 North Senate Avenue, Indianapolis, IN 46204
 (317) 232-6601
 E-mail: rclark@indot.in.gov
 Contact: Rickie Clark



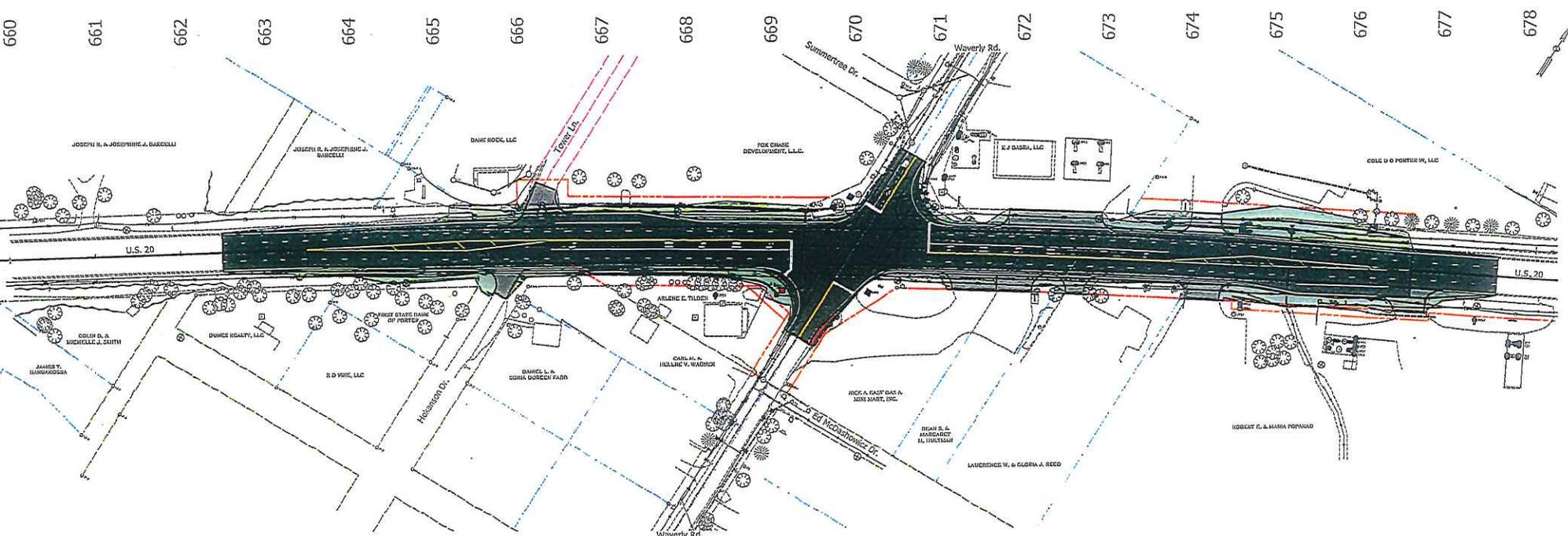

Thank You

- Please visit with INDOT project officials
- Project Open House
 - Project maps, displays, INDOT project officials and Informal Q & A
 - View project documentation on INDOT LaPorte District page <http://www.in.gov/indot/2705.htm>



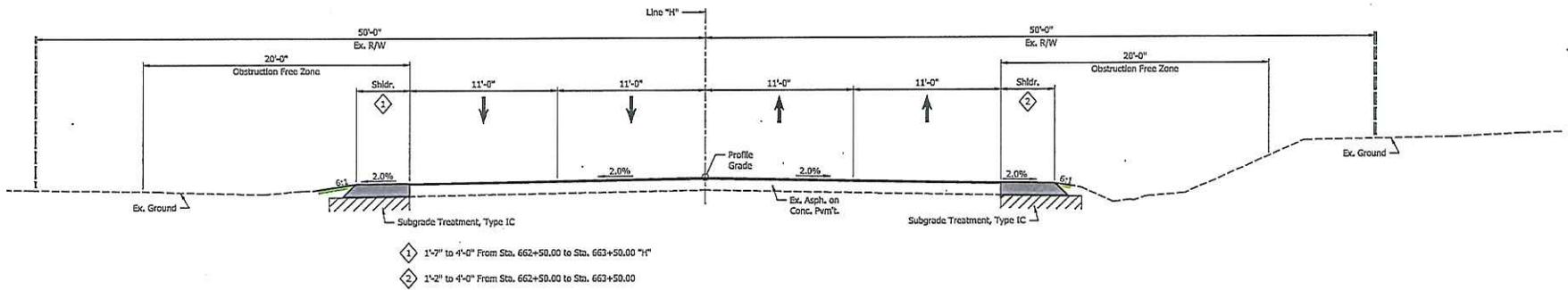
Public Comment Session



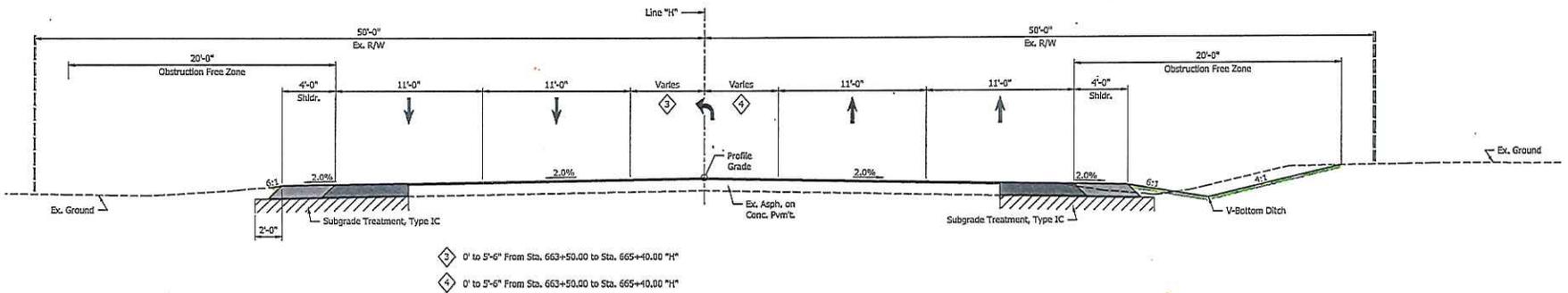


- | | | |
|------------------------------|----------------------------|--------------------------------|
| EXISTING EASEMENT | AGGREGATE | EXISTING STRAIN POLE TO REMAIN |
| EXISTING R/W | ASPHALT MAINLINE PAVEMENT | PROPOSED STRAIN POLE |
| PROPOSED R/W | ASPHALT SHOULDER AND DRIVE | |
| PROPOSED TEMPORARY R/W | CONCRETE | |
| SECTION LINE & PROPERTY LINE | GRASS | |





U.S. 20
 TYPICAL SECTION LINE "H"
 INCIDENTAL CONSTRUCTION
 Sta. 662+50.00 to Sta. 663+50.00 "H"



U.S. 20
 TYPICAL SECTION LINE "H"
 Sta. 663+50.00 to Sta. 665+40.00 "H"

- ASPHALT MAINLINE PAVEMENT (WIDENING AND RE-SURFACE)
- ASPHALT SHOULDER AND DRIVE
- GRASS
- EXISTING R/W



SIGN-IN SHEET

PLEASE PRINT

DATE: 8-13-15

Before including your address, phone number, e-mail address, or other personal identifying information on the meeting Sign-In Sheet or on your comment submittal, be advised that your comment ~ including your personal identifying information ~ may be made publicly available at any time. While you can ask us to withhold personal identifying information from public review, we cannot guarantee that we will be able to do so.

| NAME | ADDRESS | EMAIL- OPTIONAL |
|-------------------------|--|--|
| BIKRAM SINGH | 4508 CALUMET AVE HAMMOND IN ZIP 46327 | 1970 BIKRAMSingh1970@gmail.com |
| Rob Pomeroy | 1400 Commodore Ln | Rob.Porter@TowndofPorter.com |
| Greg Stinson | 870 QUAIL RIDGE PORTER | |
| Nick Tilden | 360 SIX BOX LN. PORTER IN 46304 | NICK@t.tildenandtilden.com |
| TERRY MAPLE | 417 E 1000 N CHESTERTON IN | |
| Scott & JEANNINE VIRTUE | 300 WAVELLY ROAD PORTER, IN | |
| | | |
| | | |
| | | |
| | | |



www.in.gov/indot

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PLEASE PRINT

DATE: 8-13-15

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| NAME | ADDRESS | EMAIL- OPTIONAL |
|--------------------------|--|----------------------|
| BRENDA BRUECKHEIMER | 501 FRANCES ST PORTER | |
| Julie (WAGNER) Petrites | 1498 Port Cove Dr. Porter, IN 46304 | jvp1066@gmail.com |
| KATHY (WAGNER) GUCCIARDO | 487 E. GREENING RD. CHESTERTON, IN. 46304 | Kamg1129@comcast.net |
| JAMES SPANIER | 50 FRANCIS STREET PORTER IN 46304 | |
| | | |
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www.in.gov/indot



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 232-6601
E-mail: rclark@indot.in.gov

Michael R. Pence, Governor
Brandye Hendrickson
Commissioner

Thank you for attending this public meeting. Please submit comments by using the space provided below. INDOT appreciates your attendance and participation this evening.

TODAY'S DATE: Thursday, August 13, 2015

COMMENT:

PRIOR TO 3 YEARS AGO WHEN THE CHANGE THE LIGHT TIMING SO EAST AND WEST TRAFFIC ONE AT A TIME, WE WOULD HAVE SERIOUS ACCIDENTS ALMOST ONCE A WEEK. THEY WERE ALMOST ALWAYS LEFT TURN ACCIDENTS, WITH 90% WEST BOUND TO SOUTH BOUND WAVERLY. DUE TO SLIGHT CURVE AND INCLINE PEOPLE WOULD NOT BE ABLE TO SEE ONCOMING TRAFFIC GET TIRED OF WAITING AND THEN TURN.

* WE DO NOT WANT YELLOW ARROWS PERMITTING TURNING WITH ONCOMING TRAFFIC STILL HAVING RIGHT OF WAY, THIS WOULD JUST SEND US BACK TO AVERAGING ALMOST ONE A WEEK.

SIGNATURE:

JAMES SPAWIEL
CHIEF OF POLICE
TOWN OF PORTER
50 FRANCIS STREET

Clark, Rickie

From: Clark, Rickie
Sent: Monday, January 04, 2016 10:59 AM
To: 'jevans@porterco.org'; 'lbianey@porterco.org'; 'riddell@porterco.org'; 'amckay@porterco.org'; 'kshivley@porterco.org'; 'dames@porterco.org'; 'kbreizke@porterco.org'; 'cpomeroy@townofporter.com'; 'dwoodrich@townofporter.com'; 'enelson@townofporter.com'; 'gstinson@townofporter.com'; 'jvirtue@townofporter.com'; 'rpomeroy@townofporter.com'; 'bbrueckheimer@townofporter.com'
Cc: Deitchley, Matthew K; Moats, Doug; Summers, Stephan; Shrader, Lisa
Subject: INDOT to host a public hearing regarding a proposed intersection improvement project on US 20 at Waverly Road in the Town of Porter - Porter County



INDIANA DEPARTMENT OF TRANSPORTATION

The Indiana Department of Transportation will hold a public hearing on **Thursday, January 21, 2016, starting at 6:00 p.m. (local time), at the Porter Town Hall, 303 Franklin Street, Porter, Indiana 46304.**

The purpose of the public hearing is to offer all interested persons an opportunity to view and comment on the current design plans for a proposed US 20 intersection improvement at Waverly Road, located in Porter County. The proposed project involves the construction of left turn lanes for eastbound and westbound US 20 along with traffic signal modernization. As a result of the project, 0.7 acre of new permanent right of way is anticipated to be acquired.

Traffic will be maintained during construction with short term closures of Waverly Road anticipated to take place. Access to local business drives will be maintained throughout construction. The environmental document along with preliminary plans may be viewed prior to the hearing date at the following locations:

1. Hearings Examiner, Indiana Government Center North, N642, 100 North Senate Ave., Indianapolis, IN 46204-2216, Phone # (317) 234-0796
2. Indiana Department of Transportation, LaPorte District Office, 315 East Boyd Blvd., LaPorte, IN 46350, Phone # (855) 464-6368
3. Westchester Public Library, 200 West Indiana Avenue, Chesterton, IN 46304, Phone # (219) 926-7696

Public statements for the record will be accepted as part of the INDOT public involvement process. All verbal statements recorded during the public hearing and all written comments submitted prior to, during and for a period of two (2) weeks following the hearing date, will be evaluated, considered and addressed in subsequent environmental documentation. Written comments in regard to the project may be submitted prior to the public hearing and within the comment period to: INDOT Public Hearings, IGCN Room N642, 100 North Senate Avenue, Indianapolis, IN 46204.

In the event inclement weather results in hazardous driving conditions, please call (317) 232-6601 to confirm whether the public hearing will be held or postponed to a later date. Should the

hearing be postponed, an alternate date has been identified. The inclement weather alternate date will be Tuesday, January 26, 2016 at the same location and time listed above.

In accordance with the Americans with Disabilities Act (ADA) and with advance notice, INDOT can provide special accommodation, in regards to venue accessibility and participation during the public hearing, for persons with disabilities and persons requiring auxiliary aids or services such as sign language interpreters, readers and large print documents. In addition, persons with limited English speaking proficiency are encouraged to contact INDOT's Office of Public Involvement at (317) 232-6601, or email rclark@indot.in.gov , by Wednesday, January 13, 2016, should accommodations be required.

Rickie Clark, Indiana Department of Transportation
Office of Public Involvement / Central Office Communications Division
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204
Phone: (317) 232-6601
Email: rclark@indot.in.gov



Clark, Rickie

From: Clark, Rickie
Sent: Monday, January 04, 2016 10:50 AM
To: House District 10; House District 11; House District 9; House District 4; House District 19; Senate District 5; Senate District 4
Cc: Alderman, Robert; Powers, Rick; Manning, Scott
Subject: INDOT to host a public hearing regarding a proposed intersection improvement project on US 20 at Waverly Road in the Town of Porter - Porter County



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Office of Public Involvement / Central Office Communications Division
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204
Phone: (317) 232-6601
Email: rclark@indot.in.gov



Clark, Rickie

From: Clark, Rickie
Sent: Monday, January 04, 2016 11:01 AM
To: 'nirpc@nirpc.org'
Cc: Moats, Doug; Summers, Stephan
Subject: INDOT to host a public hearing regarding a proposed intersection improvement project on US 20 at Waverly Road in the Town of Porter - Porter County



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Office of Public Involvement / Central Office Communications Division
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204
Phone: (317) 232-6601
Email: rclark@indot.in.gov



Clark, Rickie

From: Clark, Rickie
Sent: Thursday, January 14, 2016 10:17 AM
To: House District 10; House District 11; House District 9; House District 4; House District 19; Senate District 5; Senate District 4
Cc: Alderman, Robert; Powers, Rick; Manning, Scott
Subject: INDOT to host a public hearing regarding a proposed intersection improvement project on US 20 at Waverly Road in the Town of Porter - Porter County



INDIANA DEPARTMENT OF TRANSPORTATION

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The purpose of the public hearing is to offer all interested persons an opportunity to view and comment on the current design plans for a proposed US 20 intersection improvement at Waverly Road, located in Porter County. The proposed project involves the construction of left turn lanes for eastbound and westbound US 20 along with traffic signal modernization. As a result of the project, 0.7acre of new permanent right of way is anticipated to be acquired.

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1. Hearings Examiner, Indiana Government Center North, N642, 100 North Senate Ave., Indianapolis, IN 46204-2216, Phone # (317) 234-0796
2. Indiana Department of Transportation, LaPorte District Office, 315 East Boyd Blvd., LaPorte, IN 46350, Phone # (855) 464-6368
3. Westchester Public Library, 200 West Indiana Avenue, Chesterton, IN 46304, Phone # (219) 926-7696

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In the event inclement weather results in hazardous driving conditions, please call (317) 232-6601 to confirm whether the public hearing will be held or postponed to a later date. Should the hearing be postponed, an alternate date will be selected and project stakeholders will be notified.

In accordance with the Americans with Disabilities Act (ADA) and with advance notice, INDOT can provide special accommodation, in regards to venue accessibility and participation during the public hearing, for persons with disabilities and persons requiring auxiliary aids or services such as sign language interpreters, readers and large print documents. In addition, persons with limited English speaking proficiency are encouraged to contact INDOT's Office of Public Involvement at (317) 232-6601, or email rclark@indot.in.gov , by Wednesday, January 13, 2016, should accommodations be required.

Rickie Clark, Indiana Department of Transportation
Office of Public Involvement / Central Office Communications Division
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204
Phone: (317) 232-6601
Email: rclark@indot.in.gov



Clark, Rickie

From: Clark, Rickie
Sent: Thursday, January 14, 2016 10:21 AM
To: 'jevans@porterco.org'; 'lbianey@porterco.org'; 'riddell@porterco.org'; 'amckay@porterco.org'; 'kshivley@porterco.org'; 'djames@porterco.org'; 'kbreizke@porterco.org'; 'cpomeroy@townofporter.com'; 'dwoodrich@townofporter.com'; 'enelson@townofporter.com'; 'gstinson@townofporter.com'; 'jvirtue@townofporter.com'; 'rpomeroy@townofporter.com'; 'bbrueckheimer@townofporter.com'
Cc: Deitchley, Matthew K; Moats, Doug; Summers, Stephan; Shrader, Lisa
Subject: INDOT to host a public hearing regarding a proposed intersection improvement project on US 20 at Waverly Road in the Town of Porter - Porter County



INDIANA DEPARTMENT OF TRANSPORTATION

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Rickie Clark, Indiana Department of Transportation
Office of Public Involvement / Central Office Communications Division
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204
Phone: (317) 232-6601
Email: rclark@indot.in.gov



Clark, Rickie

From: Clark, Rickie
Sent: Thursday, January 14, 2016 10:22 AM
To: 'nirpc@nirpc.org'
Cc: Moats, Doug; Summers, Stephan
Subject: INDOT to host a public hearing regarding a proposed intersection improvement project on US 20 at Waverly Road in the Town of Porter - Porter County



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Office of Public Involvement / Central Office Communications Division
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204
Phone: (317) 232-6601
Email: rclark@indot.in.gov





INDIANA DEPARTMENT OF TRANSPORTATION
Driving Indiana's Economic Growth

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 234-0796
FAX: (317) 232-5349

Michael R. Pence, Governor
Brandye L. Hendrickson,
Commissioner

DES #: 1006622

December 28, 2015

The Times of Northwest Indiana
legals@nwtimes.com

219-933-3200

Legal Ad Department
601 W 45th St.
Munster, IN 46321

To Whom It May Concern:

Please insert the enclosed legal advertisement of Notice of Public Hearing only in the above newspaper issues of:

Wednesday, January 6, 2016
Wednesday, January 13, 2016

For necessary payment, you are to complete two (2) copies of the Publisher's Claim Forms prescribed by the State Board of Accounts (General form No. 99P (Rev 1967)) be sure to include your full address and Federal I.D. Number (F.I.N.) in the upper right hand corner of the form, and send to:

Mary Wright
Public Hearing Examiner
Indiana Department of Transportation
Office of Public Involvement, Room N642
100 North Senate Avenue
Indianapolis, IN 46204-2216

If there should be any questions regarding this submission please contact the writer at (317) 234-0796.

Sincerely,
Mary Wright
Public Hearing Examiner
E-Mail: mwright@indot.in.gov

MDW:mw
Attachment

LEGAL NOTICE
OF
PUBLIC HEARING

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If bad weather should prevail, please call (317) 232-6601 to verify whether the public hearing will be held or rescheduled. Should the meeting be postponed, it will be rescheduled on Tuesday, January 26, 2016 at the same location and time listed above.

With advance notice, INDOT can provide special accommodation for persons with disabilities and/or limited English speaking ability and persons needing auxiliary aids or services such as interpreters, signers, readers, or large print. Should special accommodation be needed in regards to the attendance and participation during the public hearing, please contact the Office of Public Involvement at (317) 232-6601, or email rlark@indot.in.gov, by Wednesday, January 13, 2016.

This notice is published in compliance with Code of Federal Regulations, Title 23, Section 771 (CFR 771.111(h)(1) states: "Each State must have procedures approved by the FHWA to carry out a public involvement/public hearing program." 23 CFR 450.212(a)(7) states: "Public involvement procedures shall provide for periodic review of the effectiveness of the public involvement process to ensure that the process provides full and open access to all and revision of the process as necessary.", approved by the Federal Highway Administration, U.S. Department of Transportation on August 16, 2012. INDOT, Rickie Clark, Office of Public Involvement, Phone # (317) 232-6601, E-Mail: rlark@indot.IN.gov

HERE

Indiana Department of Transportation

(Governmental Unit)

To: The Times Media Company

601-45th Avenue, Munster, IN 46321

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Environmental documentation. Written comments in regard to the project may be submitted prior to the public hearing and within the comment period to: INDOT Public Hearings, IGCN Room N642, 100 North Senate Avenue, Indianapolis, IN 46204. If bad weather should prevail, please call (317) 232-6601 to verify whether the public hearing will be held or rescheduled. Should the meeting be postponed, it will be rescheduled on Tuesday, January 19, 2016 at the same location and time listed above.

January 26, 2016 at the same location and time listed above.

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I, the undersigned, certify that the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is that the amount claimed is legally due, after allowing all just credits, and that no part of the same

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January 6, 13, 2016

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- X.. Newspaper has a Web site and this public notice was posted on the same day as it was published in the newspaper.
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- Newspaper has a Web site but refuses to post the public notice.

[Signature]

Date 1-13-2016

Title: Legal Clerk



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Public Involvement, Room N642
Indianapolis, Indiana 46204

PHONE: (317) 232-6601
E:mail: rclark@indot.in.gov

Michael R. Pence, Governor
Brandye L. Hendrickson,
Commissioner

DES. #: 1006622

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JAMES BARBAROSSA
815 S BABCOCK RD
PORTER IN 46304

JOSEPH & JOSEPHINE BARCELLI
150 W HSY US 20
PORTER IN 46304

MICHAEL BARRY
303 FRANKLIN ST
PORTER IN 46304

RENO & ANITA BOE
130 W OAK HILL RD
PORTER IN 46304

BRENDA BRUECKHEIMER
501 FRANCIS ST
PORTER IN 46304

MICHAEL BURCH
120 W OAK HILL RD
PORTER IN 46304

KATHY GUCCIARDO
487 E GREENING RD
CHESTERTON IN 46304

DEAN & MARARET HULTMAN
808 WAVERLY RD
PORTER IN 46304

TERRY MAPLE
417 E 1000 N
CHESTERTON IN 46304

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PORTAGE IN 46368

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PORTER IN 46304

ROB POMEROY
1400 COMMODERE LN
PORTER IN 46304

ROBERT & MARIA POPARAD
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PORTER IN 46304

LAUERENCE & GLORIA REED
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PORTER IN 46304

COLIN & MICHELLE SMITH
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PORTER IN 46304

JAMES SPANIER
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GREG STINSON
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PORTAGE IN 46368

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PORTER IN 46304

CARL & HELENE WAGNER
1140 WAVERLY RD
PORTER IN 46304

BANK ROCK LLC
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MEETING NOTICE
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CHESTERTON IN 46304

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VALPARAISO IN 46385

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PORTER IN 46304

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PARKS DEPT
303 FRANKLIN ST
PORTER IN 46304

TOWN OF PORTER
PUBLIC WORKS
550 BEAM ST
PORTER IN 46304



INDIANA DEPARTMENT OF TRANSPORTATION

Proposed US 20 Intersection Improvement at Waverly Road in Porter, Indiana (Porter County)

Thursday, January 21, 2016

6:00pm Public Hearing

Porter Town Hall

303 Franklin Street, Porter, Indiana 46303

Rickie Clark, Indiana Department of Transportation

Office of Public Involvement / Central Office Communications Division

100 North Senate Avenue, Room N642

Indianapolis, Indiana 46204

Phone: (317) 232-6601

Email: rclark@indot.in.gov





INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 232-6601
E-mail: rclark@indot.in.gov

Michael R. Pence, Governor
Brandye L. Hendrickson,
Commissioner

Thursday, January 21, 2016

Dear Local Resident, Interested Citizen, and Elected Public Official:

Welcome to the Indiana Department of Transportation's (INDOT) Public Hearing regarding proposed intersection improvement on U.S. 20 at Waverly Road, in the Town of Porter.

The purpose of this public hearing is to offer the community the opportunity to comment on the environmental document and preliminary design plans for proposed improvements to this intersection. INDOT welcomes the opportunity to meet with the community during this public hearing and looks forward to continuing community engagement as this project is developed.

There are several ways your comments may be presented this evening and over the next several weeks. You may submit comments in the following manner:

1. Complete a comment form and return it to an INDOT representative attending the public hearing. Comment forms are available at the sign-in table.
2. Mail your comments to the INDOT Office of Public Involvement, Attention Rickie Clark, 100 North Senate Avenue, Room N642, Indianapolis, Indiana 46204; PHONE (317) 232-6601. **INDOT respectfully requests comments be submitted by Friday, February 5, 2016.**
3. Participate during the Public Comment Session and have your comments recorded for inclusion into the official hearings transcript / public record.
4. Comments may also be e-mailed to the INDOT Office of Public Involvement at: rclark@indot.in.gov.
5. Contact the INDOT LaPorte District Office Customer Service Center at 1-855-464-6368 www.laporte.indot.in.gov should you have questions regarding this project or other INDOT projects in Northwest Indiana.

All public comments submitted during the comment session and during the public comment period will be included in the official hearing transcript (public record) and will be reviewed, evaluated and given full consideration by INDOT project officials.

Thank you for attending tonight's public hearing.

Rickie Clark, Indiana Department of Transportation

U.S. 20 Intersection Improvement Project at Waverly Road

Porter Town Hall

Thursday, January 21, 2016




Welcome

- Rickie Clark, INDOT Office of Public Involvement
- Purpose/explanation of public meeting
- Meeting format
- Visit our sign-in table
 - Project contact list to be developed
- Informational handouts
- Project display area




Welcome

- **Introduction of INDOT project officials**
 - INDOT LaPorte District Office
 - Project Management
 - Design
 - Real Estate
 - Communications & Public Involvement
- **Recognition of elected and local public officials**

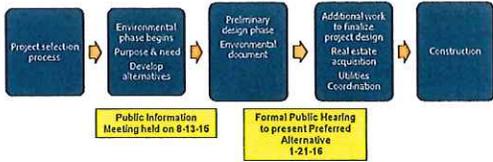



Project Stakeholders

- Indiana Department of Transportation
- Indiana Division Federal Highway Administration
- Porter County
- Town of Porter
- Local communities
- Elected public officials
- Community residents and citizens
- Commuters
- Businesses
- Trucking industry / freight movement




Project Development Process



```

    graph LR
      A[Project selection process] --> B[Environmental phase begins  
Purpose & need  
Develop alternatives]
      B --> C[Preliminary design phase  
Environmental document]
      C --> D[Additional work to finalize project design  
Real estate acquisition  
Utilities Coordination]
      D --> E[Construction]
      B --- B1[Public Information Meeting held on 8-13-16]
      C --- C1[Formal Public Hearing to present Preferred Alternative 1-21-16]
    
```




Environmental Document

- **Requirement of the National Environmental Policy Act (NEPA)**
 - Requires INDOT to analyze and evaluate the impacts of a proposed project to the natural and socio-economic environments
 - Impacts are described in environmental document
 - Environmental document released for public involvement December 2015




Environmental Documentation

Elements of the Environmental Documentation

- Real Estate
- Community Impacts
- Air Quality
- Wetlands and Waterways
- Noise
- Floodplains
- Farmland
- Endangered Species
- Hazardous Materials
- Environmental Justice
- Historic/Archaeological
- Sole Source Aquifer
- Cultural Resources
- Public Involvement

Environmental Document

- Purpose and Need
- Develop a number of possible alternatives
 - The "Do Nothing" alternative is a baseline for comparison
- Screen alternatives to identify a preferred alternative
- Solicit public comment on environmental document and preliminary design plan
- Solicit, address and fully consider public comment as part of decision making process

Alternatives

- Improving safety may impact access and mobility
- INDOT is working with community to strike the right balance

Alternatives Considered

- Roundabout
 - Multi-lane roundabout at intersection
 - Meets purpose and need of project
 - Greater impact to the environment
 - Higher cost alternative
 - Proximity of existing interchange at S.R. 49 would need to be modified
 - Determination made to not advance this alternative
- Do Nothing
 - Maintains existing lane configuration
 - Signal timing could be modified to increase time for left-turn movements
 - Increased signal timing would cause traffic delays on U.S. 20
 - Determination made to not advance this alternative

Preferred Alternative

- Construction of left turn lanes
 - Eastbound and Westbound U.S. 20
- Traffic signal modernization
- Pavement widening
- Milling and resurfacing existing pavement
- Maintaining off-road drainage
- Project approach work on Waverly Road

U.S. 20 at Waverly Road

- Purpose and Need
 - Enhance safety
 - Reduce crash rate
 - The purpose of this project is to improve traffic flow and safety:
 - Add left turn lanes for U.S. 20 eastbound and westbound traffic
 - Change the traffic signal operation to eliminate split phasing
 - Provide for future pedestrian / trail signalized crossing
 - Make modest improvements to corner radii & drive approaches
 - Maintain existing access while minimizing impacts to existing properties

Project Overview

- Originally constructed in 1931, concrete pavement, 10 ft. wide lanes with 50 ft. R/W each side
- Pavement overlaid with Asphalt in 1961. Has been overlaid and widened to 11 ft. wide lanes
- Traffic signal installed in 1995
- Operates as a split-phased (EB US 20, WB US 20 then Waverly Rd.) signalized arterial intersection
- Project includes pavement widening, milling and resurfacing of existing pavement, maintaining off-road drainage

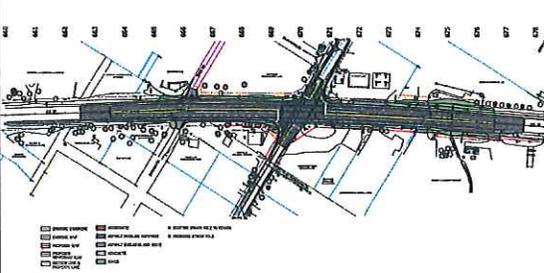



Project Overview

- Traffic signal will be upgraded, one pole replaced, existing right turn lanes off US 20 and existing Waverly Rd lanes will be maintained
- Only approach work on Waverly Rd. The existing horizontal and vertical alignment will be retained
- Traffic will be maintained during construction with short term closures of Waverly Rd
- Access to local businesses / drives will be provided throughout construction



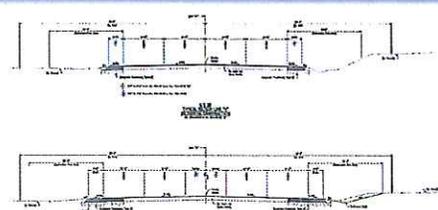

U.S. 20 at Waverly Road



- ADULT PARADE FOOTPATH (WOODING AND RESURFACING)
- ADULT SIDE WALKER AND DAIRY
- GRASS
- EXISTING R/W




U.S. 20 at Waverly Road



- ADULT PARADE FOOTPATH (WOODING AND RESURFACING)
- ADULT SIDE WALKER AND DAIRY
- GRASS
- EXISTING R/W

LFA

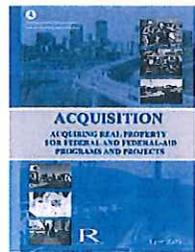



U.S. 20 at Waverly Road

- **Maintenance of Traffic**
 - Traffic maintained on existing pavement during construction
 - Construction barrels to delineate edge where widening is taking place
 - One lane of traffic may be closed in each direction during construction




Real Estate Acquisition Process





Real Estate Acquisition Process

- **"Uniform Act of 1970"**
 - All federal, state and local governments must comply
 - Requires an offer for just compensation
- **Acquisition Process**
 - Appraisals
 - Review appraisals
 - Negotiations



Real Estate Acquisition

- **Right-of-way**
 - Permanent R/W: approximately 0.7 acre total
 - Commercial
 - Temporary R/W: 0.3 acre
 - Commercial
 - Permanent r/w is land purchased and subsequently owned by INDOT for the purposes of project construction
 - Temporary r/w is land INDOT pays to use for construction purposes and is not owned by INDOT, but rather the property owner



Project Schedule

- Public Hearing - January 2016
- Finalize Environmental Document - Winter 2016
- Complete project design work – Winter 2016
- Real estate acquisition phase - 2016
- Construction – Summer 2017



Feedback

- **INDOT would like to hear from you**
 - Talk with INDOT project team members
 - Comment sheet in information packet
 - E-mail or mail comments to INDOT
 - Sign-in list to be added to project mailing list
 - Visit INDOT LaPorte District page at <http://www.in.gov/indot/2705.htm>
 - All comments are very much appreciated and will be reviewed by INDOT



Public Involvement Team

INDOT LaPorte District Office
 Communications Division
 315 East Boyd Boulevard
 LaPorte, Indiana 46350
 Phone: 1-855-464-6368
 E-mail: LaPorteDistrictCommunications@indot.in.gov
 Contact: Doug Moats

INDOT Office of Public Involvement, IGCN Room N642
 100 North Senate Avenue, Indianapolis, IN 46204
 (317) 232-6601
 E-mail: rclark@indot.in.gov
 Contact: Rickle Clark



Submit Public Comments

- **Submit public comments using the options described in first page of information packet:**
 - Public Comment Form
 - Via e-mail
 - Participating during public comment session via microphone
 - Verbal comments recorded and transcribed for inclusion into public hearings transcript
- **INDOT respectfully requests comments be submitted by Friday, February 5, 2016.**
- All comments submitted will become part of public record, entered into transcript, reviewed, evaluated and given full consideration during decision making process.



Next Steps

- **Public and project stakeholder input**
 - Submit comments via options described on page 1 of information packet
- **INDOT review and evaluation**
 - All comments are reviewed and given full consideration during decision-making process
 - Address comments, finalize/approve environmental document, complete project design
- **Communicate a decision**
 - INDOT will notify project stakeholders of decision
 - Work through local media outlets and paid legal notice
 - Make project documents accessible via repositories
- **Questions? Contact Public Involvement Team**




Title VI Public Involvement Survey

- **Title VI Public Involvement Survey**
 - Voluntary Survey to assist INDOT in ensuring our programs and activities comply with Title VI of Civil Right Acts of 1964
 - Monitor
 - Track
 - Document
 - Documentation is submitted to Federal Highway Administration
 - INDOT evaluates survey data and modifies its programs and project development activities to ensure our projects benefit everyone equally




Thank You

- **Please visit with INDOT project officials**
- **Project Open House**
 - Project maps, displays, INDOT project officials and informal Q & A
 - View project documentation on INDOT LaPorte District page <http://www.in.gov/indot/2705.htm>




Public Comment Session



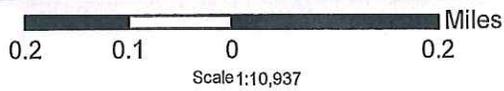


Project Location

US 20, & Waverly Rd

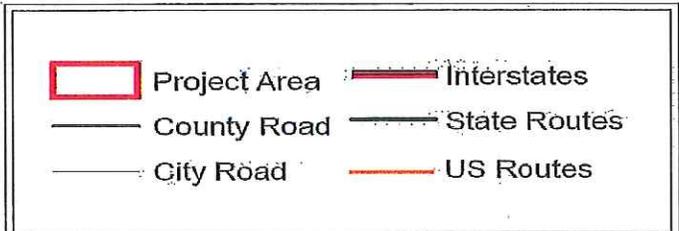
Des No. 1006622, Other Intersection Improvement

Porter 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.



SIGN-IN SHEET

PLEASE PRINT

DATE: 1-21-16

Before including your address, phone number, e-mail address, or other personal identifying information on the meeting Sign-in Sheet or on your comment submittal, be advised that your comment ~ including your personal identifying information ~ may be made publicly available at any time. While you can ask us to withhold personal identifying information from public review, we cannot guarantee that we will be able to do so.

| NAME | ADDRESS | EMAIL- OPTIONAL |
|--------------------|-----------------------------------|---------------------------|
| Dow Hewitt | 101 Knoelke Porter | |
| Judy Hewitt | 101 Knoelke Dr. Porter | mrsbearsci@yahoo.com |
| Margaret Dickerson | INDOT-PM | |
| Nick Tilden | 360 SIX BOX LN. PORTER | nick@tildenvandtilden.com |
| Andrew Erwin | 801 wood st. Porter | |
| TERRY MAPLE | 417 E 1000 N CHESTERTON | |
| BRIAN BUGASSKI | 303 FRANKLIN ST PORTER, IN 46314 | tbmsc@townofporter.com |
| Michael Barry | 303 Franklin St. Porter, IN 46314 | mbarry@townofporter.com |
| Todd Allen | 50 Francis St. Porter | tallen@townofporter.com |
| | | |



www.in.gov/indot

SIGN-IN SHEET

PLEASE PRINT

DATE: 1-21-16

Before including your address, phone number, e-mail address, or other personal identifying information on the meeting Sign-in Sheet or on your comment submittal, be advised that your comment ~ including your personal identifying information ~ may be made publicly available at any time. While you can ask us to withhold personal identifying information from public review, we cannot guarantee that we will be able to do so.

| NAME | ADDRESS | EMAIL- OPTIONAL |
|--|---|-------------------------|
| Jeff Mitchell | INDOT - PM-Environment | |
| Jeff Schartz - ^{Chesterton} Tribune | 193 S. Columet Rd. ^{Chesterton} IN 46304 | jeffschartz11@yahoo.com |
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SIGN-IN SHEET

PLEASE PRINT

DATE: 1-20-16

Before including your address, phone number, e-mail address, or other personal identifying information on the meeting Sign-In Sheet or on your comment submittal, be advised that your comment ~ including your personal identifying information ~ may be made publicly available at any time. While you can ask us to withhold personal identifying information from public review, we cannot guarantee that we will be able to do so.

| NAME | ADDRESS | EMAIL- OPTIONAL |
|-------------|------------------|--------------------|
| Patti Boyer | 100 W U.S Hwy 20 | pboyer@cei-edu.com |
| | | |
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INDIANA DEPARTMENT OF TRANSPORTATION

Proposed US 20 Intersection Improvement at Waverly Road in Porter, Indiana (Porter County)

Thursday, January 21, 2016

6:00pm Public Hearing

Porter Town Hall

303 Franklin Street

Porter, Indiana 46303

Todd Allen: Hello, my name is Todd Allen and I'm the assistant police chief for the Town of Porter and my question is in regards to signaling in the intersection for turn lanes.....I noticed in updated signaling in other areas that they put in a flashing yellow signal for turn lanes.....I'd like to sort of have on the record that our positioning is not to have flashing yellow signals because then that takes us back steps to where we were at years ago when it was said that the proposal for the changes decreased fatalities and what not there.....we had numerous crashes there in the past and I feel that if we do that as a flashing yellow we're taking steps backwards to the way it used to be and I think we'll end up having numerous crashes there again because obviously the first time they didn't or couldn't manage to turn without having to stop and I think that will hinder a progression in safety at the intersection.

Verbal Transcription Prepared by:

Rickie Clark, Indiana Department of Transportation



TILDEN & TILDEN

Attorneys at Law
130 Lincoln Street
Porter, Indiana 46304
Phone (219) 926-8679
Fax (219) 921-0225
<http://tildenandtilden.com>

Cynthia A. Tilden, Esq.
Nicholas A. Tilden, Esq.

January 5, 2016

Indiana Department of Transportation
Public Hearings
IGCN Room N-642
100 N. Senate Avenue
Indianapolis, Indiana 46204

Re: *Proposed US Highway 20 intersection improvement at Waverly Road*
Designation No.: 1006622

To Whom It May Concern:

Please be advised that I represent Pat's Liquors, Inc., a package liquor store at the northwest corner of Waverly Road and US Highway 20 in Porter, Indiana. I am also counsel for my mother, Arlene Tilden, who is the record owner of the parcel upon which that business sits. I was in attendance at your last public meeting at the Town Hall in Porter regarding this project and have had the opportunity to review all of the preliminary plans prepared for this project. If you were to look at a map of the proposed project, you would see that it is my family's business that is most directly affected by this improvement. Our concerns are as follows:

1. The letter recently received announcing the next public hearing (to be held January 21, 2016) includes an indication that the State is to be acquiring .691 acres of permanent right-of-way to facilitate the project. I presume, but require confirmation, that all of that acreage is to be obtained from my client.
2. Due to the unusual shape of the parcel upon which my client's business is situated, it appears that your proposed project may usurp existing parking. As you can tell by a review of the site, parking is at a premium for my client's business. Can you confirm the exact extent of my client's parking lot that will be affected?
3. The northern border of my client's property has a row of large trees which effectively serve to insulate the building from potential accidents along US Highway 20; specifically, any accidents which may occur in the eastbound lanes. Based upon the plans that I have reviewed, it appears that that row of trees may be taken for the project.

PAGE 2

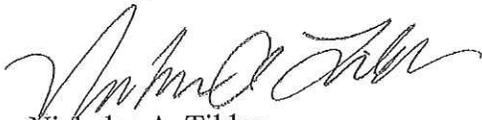
**Indiana Department of Transportation
Public Hearings
IGCN Room N-642
100 N. Senate Avenue
Indianapolis, Indiana 46204**

Can you please confirm whether or not the trees will be removed or left as they sit? If they are to be removed, will another barrier be constructed? Relatedly, along that northern portion of our property between the trees and US 20 there exists a swale that collects drain water from the highway. After a storm it is not unusual for the swale to contain 12-14 inches of water. With the proposed construction, will that water drain from the highway towards our building unabated?

4. Presumably as part of the Town's attempt to create a pedestrian/bike pathway to the shores of Lake Michigan, it appears that a crosswalk has been slated for the passing of pedestrian and/or bicycle traffic across US 20 along Waverly Road. Is your proposed project in any way related to the future construction of this crosswalk? Furthermore, does INDOT have any other projects planned or pending for the town of Porter along the northern or southern boundaries of US 20 eastbound?
5. Finally, as I believe that the proposed construction will occur during the summer months, what safeguards will be put in place to allow us to conduct our business with relatively straightforward and open access for our patrons? As I hope you understand, we enjoy nearly 50% more business during the summer months than in the winter. Specifically, the week of the July 4th holiday is, by far, our busiest time of the year.

To the extent that these questions may be answered prior to the next scheduled public forum, I would greatly appreciate it. You can direct all correspondence to me at the address above.

Sincerely,



Nicholas A. Tilden
nick@tildenandtilden.com

NAT/jmd

Clark, Rickie

From: Richard Draves [RDraves@ingalls.org]
Sent: Monday, January 25, 2016 12:59 PM
To: Clark, Rickie
Subject: a street light at the NW corner of Wagner and US20

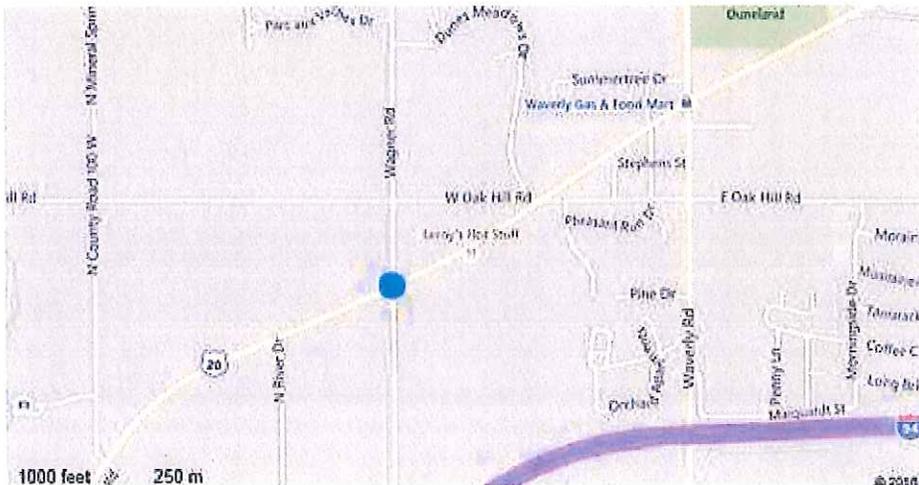
**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

INDOT Office of Public Involvement,
Attn: Ricki Clark,
100 North Senate Avenue,
IGCN Room N642, Indianapolis, IN 46204

I saw the turn lanes are being added at Waverly and US20. What is needed even more is a street light at the NW corner of Wagner and US20 (about a mile west of the proposed change). Just recently there was a woman trying to cross Wagner (to the east) on foot at US20 in total darkness (although only around 6PM). By some miracle I saw her in the last moment and avoided hitting her. However, next time that woman might not have been so lucky.

That whole area is extremely dark and loaded with deer and other animals. It is a just a tragedy waiting to happen. By the crosses on the side of the road, I assume it already has.

Actually, it would be better to put a stop light at that corner. Enough cars try to cross US20 (with excessive car speed on US20) at Wagner Ave, many parents taking kids to/from the local Yost elementary school. If not a stop light, at least a street light.



Richard Draves
230 Parc Aux Vaches Drive
Porter, In 46304

Clark, Rickie

From: Clark, Rickie
Sent: Tuesday, January 26, 2016 10:41 AM
To: 'nick@tildenandtilden.com'
Subject: U.S. 20 at Waverly Road proposed intersection improvement



INDIANA DEPARTMENT OF TRANSPORTATION

Good Morning Mr. Tilden,

Thank you very much for expressing your concerns and sharing your thoughts regarding the proposed intersection improvement project at U.S. 20 and Waverly Road in Porter. INDOT sincerely appreciates and welcomes the opportunity to hear from members of the community.

INDOT looks forward to continuing a dialogue with community stakeholders and local businesses regarding this proposal.

A transcript will be prepared which will include the verbal comments presented during the public hearing..... e-mails / written comments submitted during the comment period. Your e-mail and/or comments have been entered into the official hearings transcript which will be reviewed, evaluated and considered by INDOT officials as part of a decision making process.

At the conclusion of the public comment period (2/5/16) the project management team will review your comment/concerns and determine further action.

Information regarding the intersection improvement proposal is available to view on INDOT's LaPorte District web page: <http://www.in.gov/indot/2705.htm>.

INDOT will continue evaluating this proposal in regards to enhancing safety, mobility and also access for community stakeholders and roadway users.

Upon reaching a decision regarding the intersection proposal, INDOT will public outreach activities to communicate project decisions including:

- Mailing notification to project stakeholders using the sign-in sheets from public hearing, summer 2015 public meeting and project database
- Paid legal notice in local paper
- Posting updated materials to INDOT website and sending information to local library

Thank you again for sharing your comments and we look forward to continuing public engagement as this project proposal is considered.

Have a safe and wonderful day.

Rickie Clark, Indiana Department of Transportation
Office of Public Involvement / Central Office Communications Division

100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204
Phone: (317) 232-6601
Email: rclark@indot.in.gov



Clark, Rickie

From: Clark, Rickie
Sent: Tuesday, January 26, 2016 10:44 AM
To: 'Richard Draves'
Subject: RE: a street light at the NW corner of Wagner and US20



INDIANA DEPARTMENT OF TRANSPORTATION

Good Morning Mr. Draves,

Thank you very much for expressing your concerns and sharing your thoughts regarding the proposed intersection improvement project at U.S. 20 and Waverly Road in Porter. INDOT sincerely appreciates and welcomes the opportunity to hear from members of the community.

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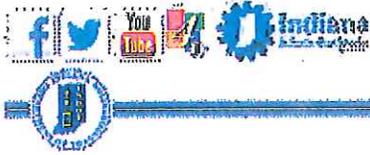
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Rickie Clark, Indiana Department of Transportation
Office of Public Involvement / Central Office Communications Division

100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204
Phone: (317) 232-6601
Email: rclark@indot.in.gov



From: Richard Draves [<mailto:RDraves@ingalls.org>]
Sent: Monday, January 25, 2016 12:59 PM
To: Clark, Rickie
Subject: a street light at the NW corner of Wagner and US20

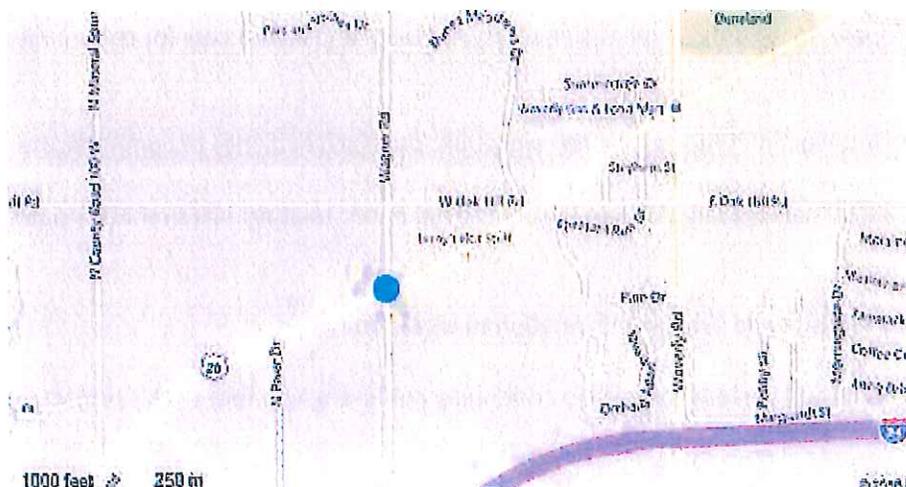
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INDOT Office of Public Involvement,
Attn: Ricki Clark,
100 North Senate Avenue,
IGCN Room N642, Indianapolis, IN 46204

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That whole area is extremely dark and loaded with deer and other animals. It is a just a tragedy waiting to happen. By the crosses on the side of the road, I assume it already has.

Actually, it would be better to put a stop light at that corner. Enough cars try to cross US20 (with excessive car speed on US20) at Wagner Ave, many parents taking kids to/from the local Yost elementary school. If not a stop light, at least a street light.



Richard Draves
230 Parc Aux Vaches Drive

DISPOSITION OF PUBLIC COMMENTS

| Commentator | Comment | Response |
|--|--|---|
| <u>Public Hearing Speaker</u> | | |
| Todd Allen Assistant Police Chief, Town of Porter | Generally in support of the project, expressed concern regarding traffic signal function. His position is to not have a flashing yellow signal for turn lanes as this will hinder the progression of safety at the intersection. | Flashing yellow turn signals allowing traffic to perform left turns on green from U.S. 20 to Waverly Road north and south have been eliminated. In their place are signals to allow left turns on green arrows only from U.S. 20 to Waverly Road north and south. |
| | | |
| | | |
| | | |
| <u>Written Comments Received</u> | | |
| Nicholas Tilden Tilden & Tilden Attorneys at Law 130 Lincoln Street Porter, Indiana 46034 (219) 926-8679 | Submitted letter representing Pat’s Liquors Inc and also his mother, Ms. Arlene Tilden who is the property owner, of record, at the location of the business. Mr. Tilden requests confirmation regarding the amount of r/w necessary for acquisition from his mother’s property and is concerned about a possible loss of property currently functioning as a parking area. Mr. Tilden is concerned about a possible loss of trees which may be removed as part of the project and also an existing swale which collects drain water from U.S. 20. Mr. Tilden is interested in learning how a potential plan by the Town of Porter to create a pedestrian/bike pathway to the shores of Lake Michigan is or is not connected to the development of this project. Mr. Tilden is concerned about the | The proposed r/w acquisition impact to the Tilden property is anticipated to be approximately 0.2 acre of permanent r/w. The entire project is anticipated to require approximately 0.7 acre of permanent r/w from several parcels within the project area. The asphalt parking lot is anticipated to be minimally impacted by the new pavement radius in the southwest quadrant. No asphalt parking lot stalls will be eliminated. A gravel/stone area immediately to the north of the asphalt will become grass. The trees are outside of the construction limits and will not be disturbed. Drainage from the roadway will be contained within a proposed drainage ditch that will slope toward a proposed catch basin tying into the existing storm sewer system. |

DISPOSITION OF PUBLIC COMMENTS

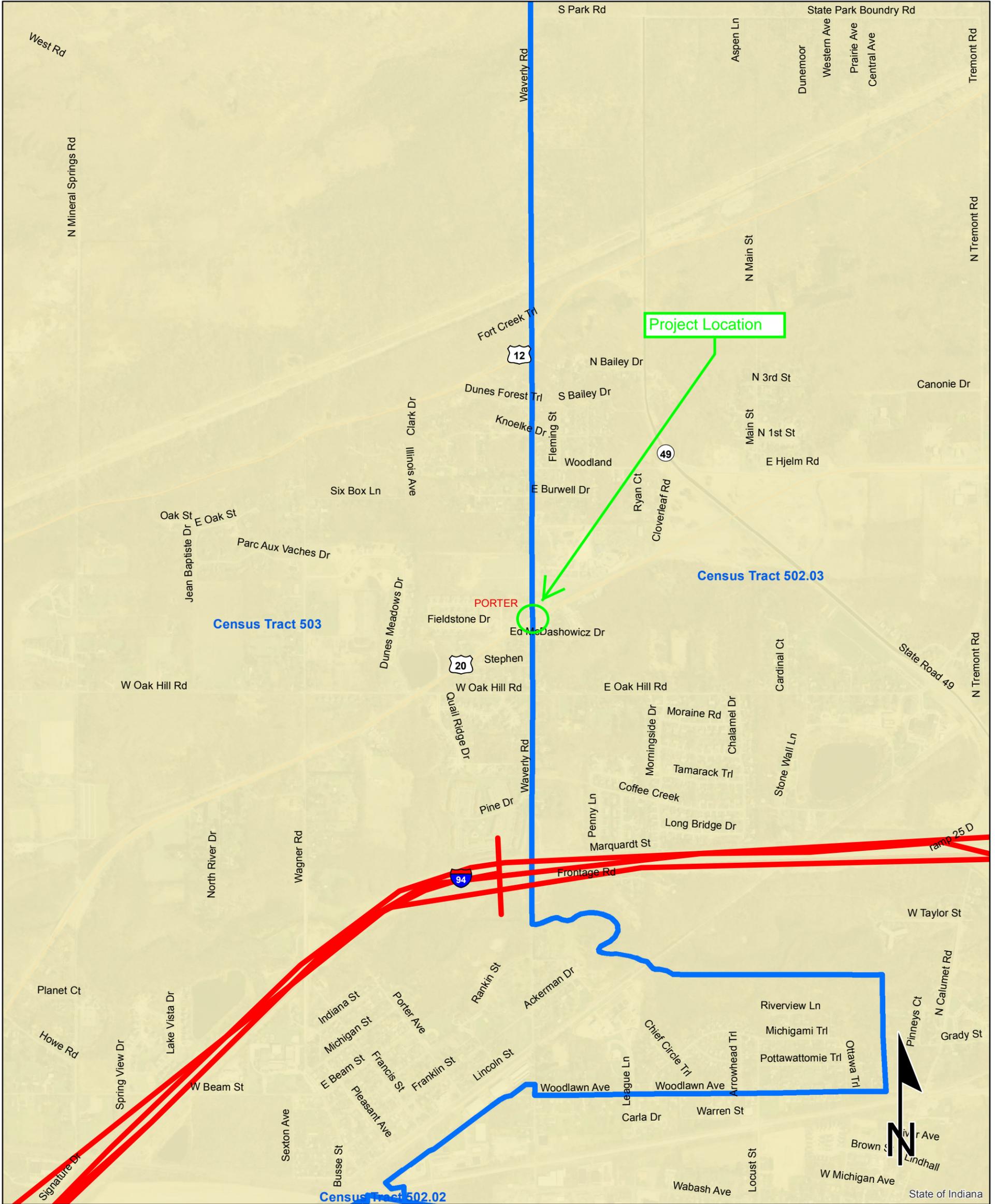
| Commentator | Comment | Response |
|-----------------------|---|---|
| | <p>impact construction activity may have on the operational needs of the Pat's Liquors businesses during summer months and holidays as these times of year involve a high volume of customer activity.</p> | <p>Drainage will not be directed toward the commercial business. The proposed project is only related to the future trail in that the proposed traffic signal will allow for the possibility of future wiring for a pedestrian crossing as a part of the signal timing. Access will be maintained for the commercial business at all times. Advance notice will be provided of construction activity to businesses and project stakeholders within the immediate vicinity. The on-site Project Engineer will work with businesses, as much as possible, to coordinate construction around high customer volume periods. The Statewide Transportation Improvement Plan (STIP) lists programmed projects for a 4 year period, this document lists projects in programmed in Porter County and is available to view at: http://www.in.gov/indot/2348.htm. Also the LaPorte District page http://www.in.gov/indot/2705.htm is an available resource.</p> |
| <p>Richard Draves</p> | <p>Mr. Draves would like to see plans to install a street light at the northwest corner of Wagner and U.S. 20 (about a mile west of the proposed project). Mr. Draves expressed an interest in there being a stop light installed at U.S. 20 and Wagner, but is also in favor of a streetlight citing the traveling speeds of commuters and the proximity of an elementary school near this location as reasons why a street light and also a stop light should be installed.</p> | <p>The intersection of U.S. 20 and Wagner Road is outside the project limits. INDOT did conduct studies in 2006, 2009 and 2014 and found that a traffic signal was not warranted at U.S. 20 and Wagner Road. However INDOT will continue to monitor this area and review traffic data at this location to determine the feasibility of a street light.</p> |



INDIANA DEPARTMENT OF TRANSPORTATION
LAPORTE DISTRICT

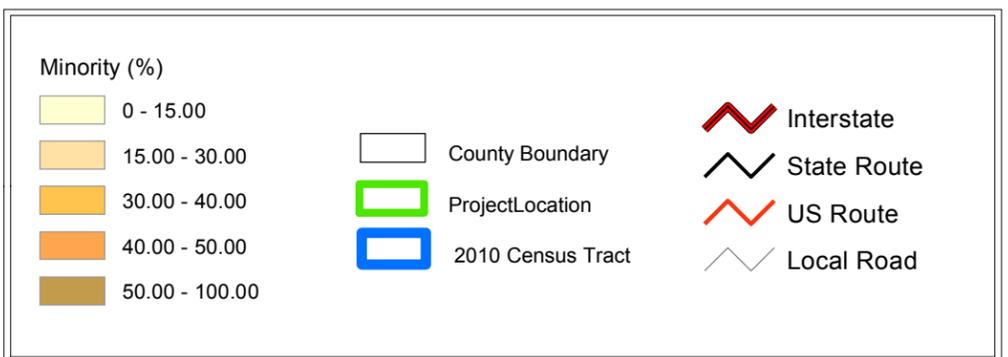
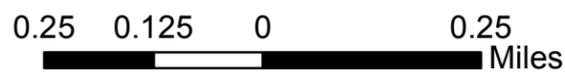
Appendix J
Environmental Justice

Demographics (ACS) 2010 US 20 & Waverly Road Des No. 1006622, Intersection Improvement Lake County, Indiana



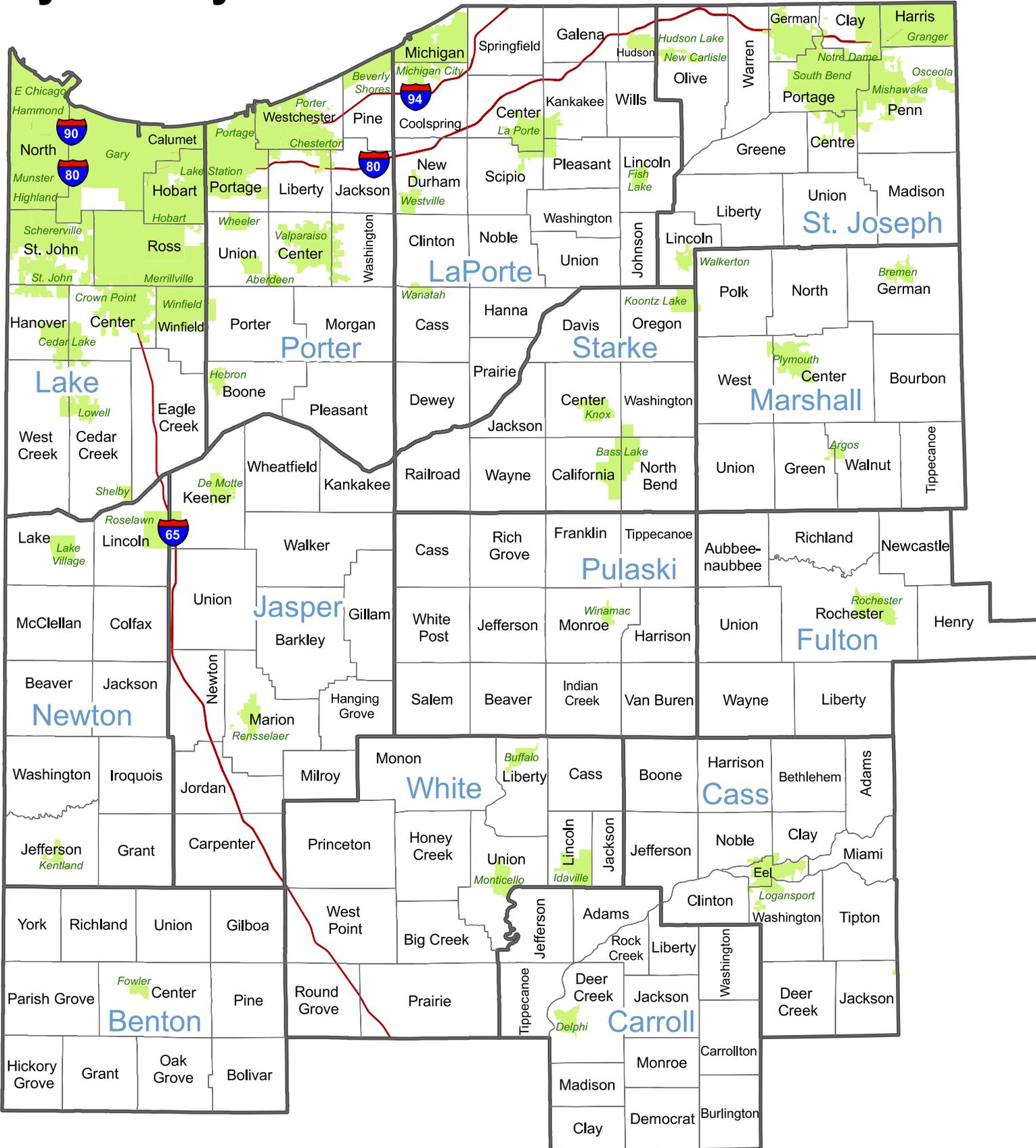
Sources:
Demographics information based on data from the U.S. Census Bureau's 2006-2010 American Community Survey 5-year Summary (ACS).

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



Northwest Indiana Townships

By County



Source: IBRC at Indiana University's Kelley School of Business, using data from the U.S. Census Bureau. May 2012



GCT-P3

Race and Hispanic or Latino: 2010 - County -- Census Tract

2010 Census Summary File 1

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see <http://www.census.gov/prod/cen2010/doc/sf1.pdf>.

Geography: Porter County, Indiana

| Geographic area | Total population | Percent of total population | | | |
|----------------------|------------------|-----------------------------|---------------------------|-----------------------------------|-------|
| | | Race | | | |
| | | One Race | | | |
| | | White | Black or African American | American Indian and Alaska Native | Asian |
| Porter County | 164,343 | 91.3 | 3.0 | 0.3 | 1.2 |
| Census Tract 501.01 | 9,319 | 94.3 | 1.1 | 0.3 | 1.3 |
| Census Tract 501.03 | 8,049 | 96.5 | 0.7 | 0.3 | 0.4 |
| Census Tract 502.02 | 6,242 | 93.4 | 1.4 | 0.2 | 1.0 |
| Census Tract 502.03 | 6,659 | 93.3 | 1.2 | 0.4 | 2.4 |
| Census Tract 503 | 6,483 | 94.1 | 1.4 | 0.2 | 0.8 |
| Census Tract 504.02 | 7,914 | 86.3 | 4.6 | 0.4 | 0.9 |
| Census Tract 504.05 | 1,110 | 96.1 | 1.1 | 0.1 | 1.3 |
| Census Tract 504.07 | 3,735 | 83.1 | 9.2 | 0.3 | 0.5 |
| Census Tract 505.01 | 6,150 | 86.6 | 5.5 | 0.7 | 0.5 |
| Census Tract 505.03 | 5,214 | 91.3 | 3.1 | 0.2 | 0.3 |
| Census Tract 505.05 | 2,469 | 91.6 | 2.1 | 0.1 | 0.6 |
| Census Tract 505.06 | 5,641 | 84.9 | 6.0 | 0.3 | 1.5 |
| Census Tract 505.07 | 3,973 | 72.9 | 16.2 | 0.5 | 0.9 |
| Census Tract 505.08 | 6,071 | 83.9 | 7.2 | 0.5 | 0.9 |
| Census Tract 505.09 | 4,803 | 85.1 | 5.1 | 0.3 | 1.2 |
| Census Tract 506.02 | 4,437 | 93.5 | 1.6 | 0.2 | 1.4 |
| Census Tract 506.03 | 3,413 | 95.6 | 0.4 | 0.1 | 1.0 |
| Census Tract 506.04 | 8,091 | 94.4 | 1.5 | 0.1 | 1.9 |
| Census Tract 507.02 | 8,173 | 88.4 | 5.3 | 0.4 | 1.3 |
| Census Tract 507.03 | 3,409 | 95.5 | 0.5 | 0.2 | 0.9 |
| Census Tract 507.04 | 4,823 | 92.4 | 1.7 | 0.2 | 2.7 |
| Census Tract 508 | 6,703 | 88.0 | 3.3 | 0.6 | 2.8 |
| Census Tract 509 | 4,187 | 85.1 | 3.9 | 0.3 | 3.6 |
| Census Tract 510.02 | 8,469 | 96.2 | 1.2 | 0.2 | 0.5 |
| Census Tract 510.05 | 4,425 | 91.7 | 2.9 | 0.1 | 2.5 |
| Census Tract 510.06 | 4,417 | 94.7 | 1.1 | 0.5 | 0.8 |
| Census Tract 510.07 | 7,157 | 94.9 | 1.0 | 0.2 | 0.9 |
| Census Tract 510.08 | 2,210 | 97.0 | 0.5 | 0.1 | 0.4 |
| Census Tract 511.01 | 6,160 | 97.0 | 0.7 | 0.1 | 0.3 |
| Census Tract 511.02 | 4,432 | 98.0 | 0.2 | 0.2 | 0.4 |
| Census Tract 9800.01 | 5 | 100.0 | 0.0 | 0.0 | 0.0 |
| Census Tract 9800.02 | 0 | (X) | (X) | (X) | (X) |
| Census Tract 9900 | 0 | (X) | (X) | (X) | (X) |

| Geographic area | Percent of total population | | | | |
|----------------------|--|-----------------|-------------------|----------------------------------|-------------------------------------|
| | Race | | | Hispanic or Latino (of any race) | White Alone, not Hispanic or Latino |
| | One Race | | Two or More Races | | |
| | Native Hawaiian and Other Pacific Islander | Some Other Race | | | |
| Porter County | 0.0 | 2.3 | 1.9 | 8.5 | 85.9 |
| Census Tract 501.01 | 0.0 | 1.2 | 1.8 | 6.9 | 89.1 |
| Census Tract 501.03 | 0.0 | 0.7 | 1.3 | 3.8 | 93.8 |
| Census Tract 502.02 | 0.0 | 2.0 | 1.8 | 7.0 | 89.1 |
| Census Tract 502.03 | 0.0 | 1.2 | 1.5 | 4.9 | 90.1 |
| Census Tract 503 | 0.0 | 1.9 | 1.6 | 7.0 | 89.5 |
| Census Tract 504.02 | 0.1 | 5.0 | 2.7 | 15.3 | 77.5 |
| Census Tract 504.05 | 0.0 | 0.1 | 1.4 | 3.2 | 93.2 |
| Census Tract 504.07 | 0.1 | 3.6 | 3.2 | 12.0 | 76.5 |
| Census Tract 505.01 | 0.0 | 3.8 | 2.9 | 15.7 | 76.3 |
| Census Tract 505.03 | 0.0 | 3.0 | 2.2 | 9.8 | 85.6 |
| Census Tract 505.05 | 0.0 | 2.6 | 3.0 | 10.5 | 85.1 |
| Census Tract 505.06 | 0.0 | 5.5 | 1.7 | 16.8 | 74.7 |
| Census Tract 505.07 | 0.0 | 6.4 | 3.1 | 16.9 | 64.2 |
| Census Tract 505.08 | 0.0 | 4.9 | 2.6 | 18.6 | 72.4 |
| Census Tract 505.09 | 0.0 | 6.0 | 2.3 | 16.1 | 76.6 |
| Census Tract 506.02 | 0.0 | 1.5 | 1.8 | 5.1 | 90.4 |
| Census Tract 506.03 | 0.0 | 1.4 | 1.4 | 5.1 | 92.4 |
| Census Tract 506.04 | 0.0 | 0.8 | 1.3 | 4.6 | 91.1 |
| Census Tract 507.02 | 0.1 | 1.8 | 2.7 | 7.5 | 83.6 |
| Census Tract 507.03 | 0.1 | 1.6 | 1.3 | 5.3 | 92.1 |
| Census Tract 507.04 | 0.1 | 1.3 | 1.6 | 4.6 | 89.4 |
| Census Tract 508 | 0.0 | 3.1 | 2.3 | 8.6 | 83.2 |
| Census Tract 509 | 0.1 | 4.2 | 2.8 | 9.5 | 80.5 |
| Census Tract 510.02 | 0.0 | 1.0 | 1.0 | 5.0 | 92.4 |
| Census Tract 510.05 | 0.0 | 1.2 | 1.6 | 5.4 | 87.9 |
| Census Tract 510.06 | 0.0 | 1.4 | 1.4 | 6.8 | 89.8 |
| Census Tract 510.07 | 0.0 | 1.4 | 1.6 | 7.2 | 89.9 |
| Census Tract 510.08 | 0.0 | 0.8 | 1.2 | 4.3 | 93.7 |
| Census Tract 511.01 | 0.0 | 0.7 | 1.3 | 5.0 | 93.3 |
| Census Tract 511.02 | 0.0 | 0.4 | 0.8 | 3.8 | 95.0 |
| Census Tract 9800.01 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 |
| Census Tract 9800.02 | (X) | (X) | (X) | (X) | (X) |
| Census Tract 9900 | (X) | (X) | (X) | (X) | (X) |

X Not applicable.

Source: U.S. Census Bureau, 2010 Census.

2010 Census Summary File 1, Tables P5 and P8.



S1701 POVERTY STATUS IN THE PAST 12 MONTHS

2009-2013 American Community Survey 5-Year Estimates

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

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

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

| Subject | Porter County, Indiana | | | | |
|--|------------------------|-----------------|---------------------|-----------------|--------------------------------------|
| | Total | | Below poverty level | | Percent below poverty level Estimate |
| | Estimate | Margin of Error | Estimate | Margin of Error | |
| Population for whom poverty status is determined | 161,397 | +/-497 | 16,752 | +/-1,681 | 10.4% |
| AGE | | | | | |
| Under 18 years | 38,649 | +/-235 | 5,261 | +/-893 | 13.6% |
| Related children under 18 years | 38,400 | +/-291 | 5,031 | +/-879 | 13.1% |
| 18 to 64 years | 102,145 | +/-422 | 10,525 | +/-952 | 10.3% |
| 65 years and over | 20,603 | +/-225 | 966 | +/-212 | 4.7% |
| SEX | | | | | |
| Male | 79,276 | +/-387 | 7,087 | +/-757 | 8.9% |
| Female | 82,121 | +/-316 | 9,665 | +/-1,065 | 11.8% |
| RACE AND HISPANIC OR LATINO ORIGIN | | | | | |
| One race | 159,078 | +/-612 | 16,238 | +/-1,664 | 10.2% |
| White | 149,427 | +/-798 | 13,952 | +/-1,510 | 9.3% |
| Black or African American | 5,233 | +/-390 | 1,412 | +/-444 | 27.0% |
| American Indian and Alaska Native | 446 | +/-130 | 104 | +/-89 | 23.3% |
| Asian | 2,102 | +/-196 | 330 | +/-161 | 15.7% |
| Native Hawaiian and Other Pacific Islander | 49 | +/-54 | 0 | +/-27 | 0.0% |
| Some other race | 1,821 | +/-535 | 440 | +/-261 | 24.2% |
| Two or more races | 2,319 | +/-420 | 514 | +/-219 | 22.2% |
| Hispanic or Latino origin (of any race) | 14,233 | +/-91 | 2,437 | +/-568 | 17.1% |
| White alone, not Hispanic or Latino | 138,126 | +/-424 | 12,247 | +/-1,279 | 8.9% |
| EDUCATIONAL ATTAINMENT | | | | | |
| Population 25 years and over | 109,333 | +/-270 | 8,689 | +/-821 | 7.9% |
| Less than high school graduate | 9,016 | +/-722 | 1,927 | +/-389 | 21.4% |
| High school graduate (includes equivalency) | 38,433 | +/-1,029 | 3,286 | +/-441 | 8.5% |
| Some college, associate's degree | 33,924 | +/-1,145 | 2,583 | +/-351 | 7.6% |
| Bachelor's degree or higher | 27,960 | +/-977 | 893 | +/-191 | 3.2% |
| EMPLOYMENT STATUS | | | | | |
| Civilian labor force 16 years and over | 83,897 | +/-1,045 | 5,790 | +/-574 | 6.9% |
| Employed | 76,578 | +/-1,140 | 3,978 | +/-432 | 5.2% |
| Male | 41,886 | +/-735 | 1,716 | +/-300 | 4.1% |

| Subject | Porter County, Indiana | | | | |
|--|------------------------|-----------------|---------------------|-----------------|-----------------------------|
| | Total | | Below poverty level | | Percent below poverty level |
| | Estimate | Margin of Error | Estimate | Margin of Error | Estimate |
| Female | 34,692 | +/-876 | 2,262 | +/-319 | 6.5% |
| Unemployed | 7,319 | +/-646 | 1,812 | +/-339 | 24.8% |
| Male | 3,848 | +/-463 | 887 | +/-204 | 23.1% |
| Female | 3,471 | +/-388 | 925 | +/-233 | 26.6% |
| WORK EXPERIENCE | | | | | |
| Population 16 years and over | 127,367 | +/-468 | 12,106 | +/-1,114 | 9.5% |
| Worked full-time, year-round in the past 12 months | 51,940 | +/-1,236 | 1,040 | +/-221 | 2.0% |
| Worked part-time or part-year in the past 12 months | 34,037 | +/-1,150 | 4,590 | +/-550 | 13.5% |
| Did not work | 41,390 | +/-1,062 | 6,476 | +/-809 | 15.6% |
| All Individuals below: | | | | | |
| 50 percent of poverty level | 8,303 | +/-1,094 | (X) | (X) | (X) |
| 125 percent of poverty level | 22,535 | +/-1,714 | (X) | (X) | (X) |
| 150 percent of poverty level | 27,932 | +/-1,865 | (X) | (X) | (X) |
| 185 percent of poverty level | 36,047 | +/-2,056 | (X) | (X) | (X) |
| 200 percent of poverty level | 39,904 | +/-2,114 | (X) | (X) | (X) |
| Unrelated individuals for whom poverty status is determined | 25,706 | +/-944 | 6,377 | +/-574 | 24.8% |
| Male | 12,593 | +/-658 | 2,484 | +/-312 | 19.7% |
| Female | 13,113 | +/-723 | 3,893 | +/-475 | 29.7% |
| Mean income deficit for unrelated individuals (dollars) | 6,909 | +/-447 | (X) | (X) | (X) |
| Worked full-time, year-round in the past 12 months | 10,280 | +/-680 | 326 | +/-123 | 3.2% |
| Worked less than full-time, year-round in the past 12 months | 6,247 | +/-649 | 2,382 | +/-391 | 38.1% |
| Did not work | 9,179 | +/-684 | 3,669 | +/-493 | 40.0% |
| PERCENT IMPUTED | | | | | |
| Poverty status for individuals | 18.5% | (X) | (X) | (X) | (X) |

| Subject | Porter County, Indiana | Westchester township, Porter County, Indiana | | | |
|--|-----------------------------|--|-----------------|---------------------|-----------------|
| | Percent below poverty level | Total | | Below poverty level | |
| | Margin of Error | Estimate | Margin of Error | Estimate | Margin of Error |
| Population for whom poverty status is determined | +/-1.0 | 19,414 | +/-81 | 2,240 | +/-585 |
| AGE | | | | | |
| Under 18 years | +/-2.3 | 4,915 | +/-317 | 738 | +/-375 |
| Related children under 18 years | +/-2.3 | 4,885 | +/-322 | 711 | +/-379 |
| 18 to 64 years | +/-0.9 | 12,150 | +/-276 | 1,348 | +/-274 |
| 65 years and over | +/-1.0 | 2,349 | +/-169 | 154 | +/-74 |
| SEX | | | | | |
| Male | +/-1.0 | 9,666 | +/-359 | 1,047 | +/-387 |
| Female | +/-1.3 | 9,748 | +/-358 | 1,193 | +/-279 |
| RACE AND HISPANIC OR LATINO ORIGIN | | | | | |
| One race | +/-1.0 | 19,230 | +/-119 | 2,202 | +/-586 |
| White | +/-1.0 | 18,437 | +/-381 | 2,055 | +/-562 |
| Black or African American | +/-7.7 | 329 | +/-229 | 38 | +/-38 |
| American Indian and Alaska Native | +/-18.1 | 75 | +/-55 | 11 | +/-19 |
| Asian | +/-7.3 | 144 | +/-77 | 0 | +/-18 |
| Native Hawaiian and Other Pacific Islander | +/-40.7 | 0 | +/-18 | 0 | +/-18 |
| Some other race | +/-11.9 | 245 | +/-205 | 98 | +/-169 |
| Two or more races | +/-8.0 | 184 | +/-86 | 38 | +/-48 |
| Hispanic or Latino origin (of any race) | +/-4.0 | 949 | +/-264 | 191 | +/-192 |
| White alone, not Hispanic or Latino | +/-0.9 | 17,792 | +/-394 | 1,976 | +/-533 |
| EDUCATIONAL ATTAINMENT | | | | | |
| Population 25 years and over | +/-0.7 | 12,690 | +/-384 | 1,136 | +/-270 |
| Less than high school graduate | +/-3.8 | 1,254 | +/-271 | 359 | +/-174 |
| High school graduate (includes equivalency) | +/-1.1 | 3,917 | +/-469 | 490 | +/-149 |
| Some college, associate's degree | +/-1.0 | 3,887 | +/-417 | 208 | +/-93 |
| Bachelor's degree or higher | +/-0.7 | 3,632 | +/-416 | 79 | +/-72 |
| EMPLOYMENT STATUS | | | | | |
| Civilian labor force 16 years and over | +/-0.7 | 10,347 | +/-390 | 867 | +/-246 |
| Employed | +/-0.6 | 9,402 | +/-380 | 583 | +/-206 |
| Male | +/-0.7 | 5,216 | +/-304 | 275 | +/-138 |
| Female | +/-0.9 | 4,186 | +/-318 | 308 | +/-141 |
| Unemployed | +/-3.7 | 945 | +/-195 | 284 | +/-101 |
| Male | +/-4.2 | 391 | +/-119 | 78 | +/-58 |
| Female | +/-5.8 | 554 | +/-174 | 206 | +/-86 |
| WORK EXPERIENCE | | | | | |
| Population 16 years and over | +/-0.9 | 15,000 | +/-312 | 1,551 | +/-300 |
| Worked full-time, year-round in the past 12 months | +/-0.4 | 6,485 | +/-503 | 226 | +/-128 |
| Worked part-time or part-year in the past 12 months | +/-1.5 | 3,976 | +/-467 | 625 | +/-207 |
| Did not work | +/-1.8 | 4,539 | +/-353 | 700 | +/-173 |
| All Individuals below: | | | | | |
| 50 percent of poverty level | (X) | 459 | +/-178 | (X) | (X) |
| 125 percent of poverty level | (X) | 2,680 | +/-656 | (X) | (X) |
| 150 percent of poverty level | (X) | 3,395 | +/-757 | (X) | (X) |
| 185 percent of poverty level | (X) | 4,635 | +/-846 | (X) | (X) |
| 200 percent of poverty level | (X) | 5,072 | +/-874 | (X) | (X) |
| Unrelated individuals for whom poverty status is determined | | | | | |
| Male | +/-2.3 | 1,596 | +/-274 | 296 | +/-137 |
| Female | +/-2.9 | 1,681 | +/-276 | 537 | +/-170 |

| Subject | Porter County, Indiana | Westchester township, Porter County, Indiana | | | |
|--|--------------------------------|--|-----------------|---------------------|-----------------|
| | Percent below poverty level | Total | | Below poverty level | |
| | Margin of Error | Estimate | Margin of Error | Estimate | Margin of Error |
| Mean income deficit for unrelated individuals (dollars) | (X) | 5,672 | +/-1,091 | (X) | (X) |
| Worked full-time, year-round in the past 12 months | +/-1.2 | 1,672 | +/-350 | 98 | +/-92 |
| Worked less than full-time, year-round in the past 12 months | +/-4.5 | 696 | +/-184 | 303 | +/-145 |
| Did not work | +/-4.0 | 909 | +/-208 | 432 | +/-144 |
| PERCENT IMPUTED | | | | | |
| Poverty status for individuals | (X) | 17.2% | (X) | (X) | (X) |

| Subject | Westchester township, Porter County, Indiana | |
|--|--|-----------------|
| | Percent below poverty level | |
| | Estimate | Margin of Error |
| Population for whom poverty status is determined | 11.5% | +/-3.0 |
| AGE | | |
| Under 18 years | 15.0% | +/-7.7 |
| Related children under 18 years | 14.6% | +/-7.8 |
| 18 to 64 years | 11.1% | +/-2.2 |
| 65 years and over | 6.6% | +/-3.1 |
| SEX | | |
| Male | 10.8% | +/-3.9 |
| Female | 12.2% | +/-2.9 |
| RACE AND HISPANIC OR LATINO ORIGIN | | |
| One race | 11.5% | +/-3.1 |
| White | 11.1% | +/-3.0 |
| Black or African American | 11.6% | +/-16.0 |
| American Indian and Alaska Native | 14.7% | +/-28.9 |
| Asian | 0.0% | +/-18.7 |
| Native Hawaiian and Other Pacific Islander | - | ** |
| Some other race | 40.0% | +/-46.4 |
| Two or more races | 20.7% | +/-22.0 |
| Hispanic or Latino origin (of any race) | 20.1% | +/-18.3 |
| White alone, not Hispanic or Latino | 11.1% | +/-3.0 |
| EDUCATIONAL ATTAINMENT | | |
| Population 25 years and over | 9.0% | +/-2.1 |
| Less than high school graduate | 28.6% | +/-11.9 |
| High school graduate (includes equivalency) | 12.5% | +/-3.6 |
| Some college, associate's degree | 5.4% | +/-2.3 |
| Bachelor's degree or higher | 2.2% | +/-2.0 |
| EMPLOYMENT STATUS | | |
| Civilian labor force 16 years and over | 8.4% | +/-2.3 |
| Employed | 6.2% | +/-2.2 |
| Male | 5.3% | +/-2.6 |
| Female | 7.4% | +/-3.3 |
| Unemployed | 30.1% | +/-9.9 |
| Male | 19.9% | +/-13.8 |
| Female | 37.2% | +/-14.7 |
| WORK EXPERIENCE | | |
| Population 16 years and over | 10.3% | +/-2.0 |
| Worked full-time, year-round in the past 12 months | 3.5% | +/-2.0 |
| Worked part-time or part-year in the past 12 months | 15.7% | +/-4.5 |
| Did not work | 15.4% | +/-3.7 |
| All Individuals below: | | |
| 50 percent of poverty level | (X) | (X) |
| 125 percent of poverty level | (X) | (X) |
| 150 percent of poverty level | (X) | (X) |
| 185 percent of poverty level | (X) | (X) |
| 200 percent of poverty level | (X) | (X) |
| Unrelated individuals for whom poverty status is determined | | |
| Male | 18.5% | +/-7.7 |
| Female | 31.9% | +/-9.0 |

| Subject | Westchester township, Porter County, Indiana | |
|--|--|-----------------|
| | Percent below poverty level | |
| | Estimate | Margin of Error |
| Mean income deficit for unrelated individuals (dollars) | (X) | (X) |
| Worked full-time, year-round in the past 12 months | 5.9% | +/-5.1 |
| Worked less than full-time, year-round in the past 12 months | 43.5% | +/-17.0 |
| Did not work | 47.5% | +/-10.3 |
| PERCENT IMPUTED | | |
| Poverty status for individuals | (X) | (X) |

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

While the 2009-2013 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

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

Source: U.S. Census Bureau, 2009-2013 5-Year American Community Survey

Explanation of Symbols:

1. An '***' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.
2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.
3. An '- ' following a median estimate means the median falls in the lowest interval of an open-ended distribution.
4. An '+ ' following a median estimate means the median falls in the upper interval of an open-ended distribution.
5. An '****' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.
6. An '*****' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
8. An '(X)' means that the estimate is not applicable or not available.

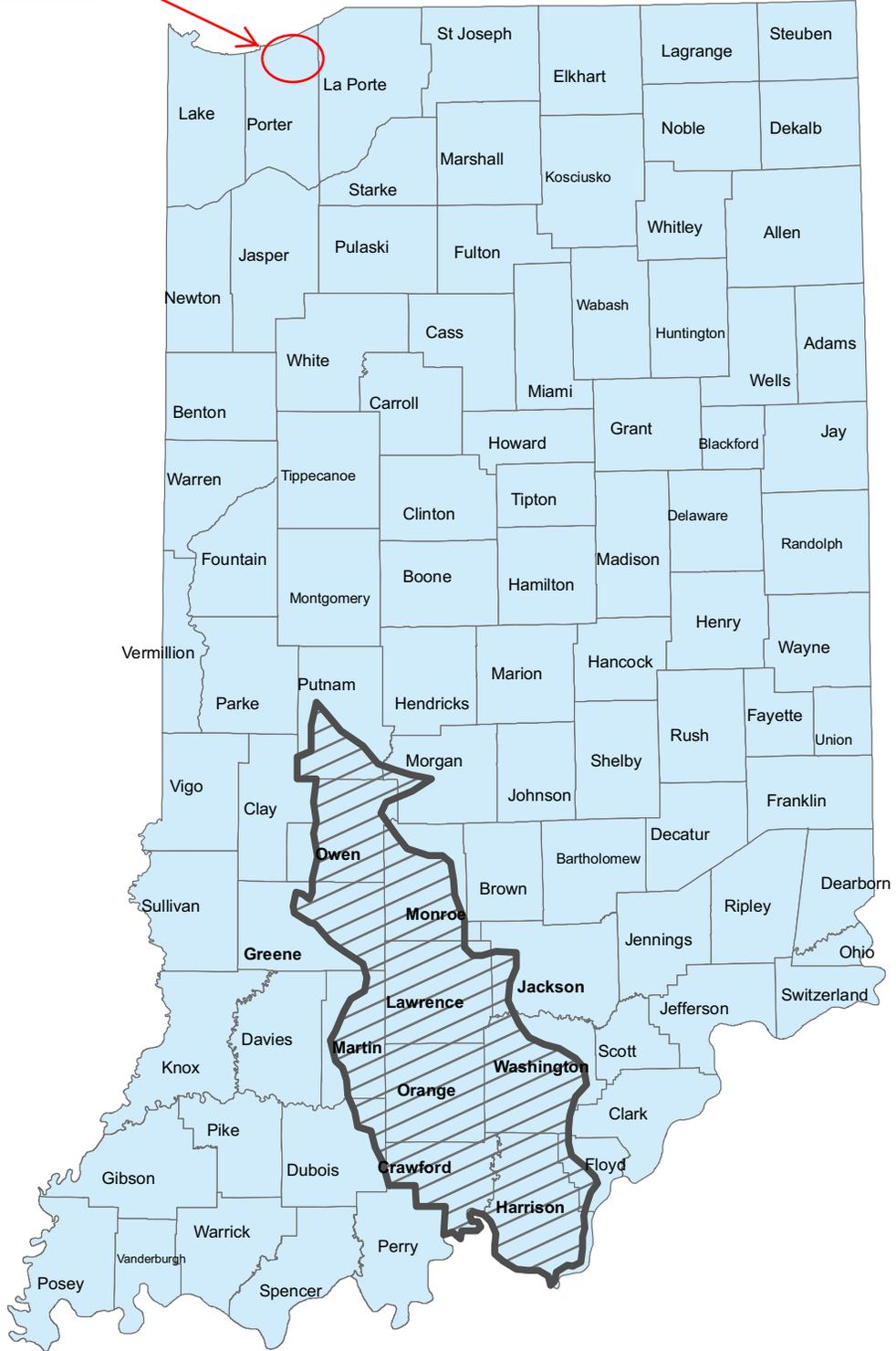


INDIANA DEPARTMENT OF TRANSPORTATION
LAPORTE DISTRICT

Appendix K
Additional Studies

Karst Feature Map

Project location



 Potential Karst Features Region

Sole Source Aquifer Map



**United States Department of the Interior
National Park Service
Land & Water Conservation Fund**

Detailed Listing of Grants Grouped by County

Today's Date: 11/13/2015

INDIANA - 18

Page: 30

| Grant ID & Element | Type | Grant Element Title | Grant Sponsor | Amount | Status | Date Approved | Exp. Date | Cong. District |
|--------------------|------|--------------------------------------|----------------------------|--------------|--------|---------------|------------|----------------|
| PORTER | | | | | | | | |
| 37 - XXX | A | PORTAGE (WOODLAND) PARK | PORTAGE PARK BOARD | \$92,710.50 | C | 1/9/1968 | 4/1/1968 | 1 |
| 50 - XXX | C | FOREST PARK GOLF COURSE | HIGHLAND PARK BOARD | \$131,772.68 | C | 6/25/1969 | 12/31/1971 | 1 |
| 65 - XXX | D | WOODLAND PARK | PORTAGE PARK BOARD | \$9,678.88 | C | 2/26/1970 | 1/1/1971 | 1 |
| 80 - XXX | D | WOODLAND PARK DEVELOPMENT | PORTAGE PARK BOARD | \$44,781.50 | C | 4/22/1971 | 12/31/1974 | 1 |
| 127 - XXX | D | INDIANA DUNES PAVILION | DEPT. OF NATURAL RESOURCES | \$152,991.00 | C | 11/24/1972 | 6/30/1974 | 1 |
| 130 - XXX | C | NORTHSIDE PARK | VALPARAISO PARK BOARD | \$89,213.00 | C | 12/6/1973 | 6/30/1978 | 1 |
| 173 - XXX | D | INDIANA DUNES COMFORT STATIONS | DEPT. OF NATURAL RESOURCES | \$93,172.20 | C | 4/12/1974 | 12/31/1976 | 1 |
| 270 - XXX | D | ROGERS-LAKEWOOD PARK IMPROVEMENTS | VALPARAISO PARK BOARD | \$382,933.00 | C | 2/11/1977 | 12/31/1982 | 1 |
| 276 - XXX | A | PORTAGE BICENTENNIAL PARK | PORTAGE PARK BOARD | \$228,547.00 | C | 2/2/1977 | 6/30/1980 | 1 |
| 284 - XXX | C | DOGWOOD PARK | CHESTERTON PARK BOARD | \$46,000.00 | C | 2/15/1977 | 12/31/1981 | 1 |
| 349 - XXX | D | DRAZER PARK | KOUTS PARK BOARD | \$11,050.00 | C | 12/21/1978 | 12/31/1983 | 1 |
| 407 - XXX | D | IMAGINATION GLEN PARK DEVELOPMENT | PORTAGE PARK BOARD | \$130,000.00 | C | 6/13/1983 | 9/15/1984 | 1 |
| 429 - XXX | R | INDIANA DUNES PICNIC RESTROOMS | DEPT. OF NATURAL RESOURCES | \$62,000.00 | C | 9/18/1984 | 6/30/1989 | 1 |
| 443 - XXX | D | HAVEN HOLLOW PARK IMPROVEMENTS | PORTAGE PARK BOARD | \$70,085.00 | C | 4/8/1985 | 12/31/1989 | 1 |
| 452 - XXX | C | D/SUNSET HILL FARM PARK | PORTER COUNTY PARK BOARD | \$211,946.75 | C | 5/22/1986 | 6/30/1994 | 1 |
| 460 - XXX | D | DUNES NATURE CENTER | DEPT. OF NATURAL RESOURCES | \$244,590.75 | C | 9/29/1987 | 12/31/1991 | 1 |
| 484 - XXX | C | D/PRAIRIE-DUNELAND TRAIL CORRIDOR | PORTAGE PARK BOARD | \$75,000.00 | C | 3/31/1992 | 6/30/1997 | 1 |
| 495 - XXX | C | PRAIRIE-DUNELAND TRL CORRIDOR-PH III | PORTAGE PARK BOARD | \$75,000.00 | C | 3/22/1993 | 6/30/1997 | 1 |
| 498 - XXX | C | PRAIRIE-DUNELAND TRL CORRIDOR -PH IV | PORTAGE PARK BOARD | \$75,000.00 | C | 4/28/1994 | 6/30/1998 | 1 |
| 539 - XXX | C | IMAGINATION GLEN PARK PHASE II | PORTAGE PARK BOARD | \$200,000.00 | C | 3/19/2003 | 12/31/2008 | 1 |

PORTER County Total:

\$2,426,472.26

County Count:

20

K3

LAWSON-FISHER ASSOCIATES P.C.
 525 WEST WASHINGTON AVENUE
 SOUTH BEND, INDIANA 46601

Job # : 201456_00 Sheet: 1 of 1
 Designed by: MFJ Date: 9/16/2014
 Checked by: FRM Date: 5/19/2015

Crash Records from 2010, 2011, 2012, 2013 & 6 mos. Of 2014 T= 1642.5
 From 2014 INDOT Count ADT= 11,501
 AADT= 10,565 V= 10,565

Project: US 20 @ Waverly Road Intersection Improvement Subject: Crash Summary

| LOCATION / YEAR | Distance | Quantity | | Collision Involved | | | Severity | | | Crash Type | | | | | | | | Environmental | |
|------------------------|----------|----------|----------|--------------------|--------|---------|----------|----|---|------------|----|----|----|----|-----|----|----|---------------|------|
| | | Crashes | Vehicles | Obj/Anim | Embank | Otr Veh | PD | PI | F | Anim/Otr | HO | RE | RT | LT | ROR | SS | RA | Day | Dark |
| INT - 2010 | | 5 | 11 | | | 6 | 3 | 3 | 1 | | | 3 | 1 | | | 1 | 2 | 3 | |
| NON-INT | | 1 | 2 | | | | | 1 | | | | | | | | 1 | 1 | | |
| INT - 2011 | | 5 | 12 | | | 5 | | 10 | | | 2 | | | | | 3 | 5 | | |
| NON-INT | | | | | | | | | | | | | | | | | | | |
| INT - 2012 | | 6 | 12 | | | 6 | 4 | 5 | | | 5 | | | | | 1 | 6 | | |
| NON-INT | | | | | | | | | | | | | | | | | | | |
| INT - 2013 | | 1 | 2 | | | 1 | 1 | | | | | 1 | | | | | 1 | | |
| NON-INT | | 5 | 10 | | 1 | 4 | 4 | 2 | | | 2 | | 1 | 1 | | 1 | 5 | | |
| (all at Quick Stop @ | | | | | | | | | | | | | | | | | | | |
| INT - 2014 | | 2 | 4 | | | 2 | 2 | | | | | | | | 2 | | 2 | | |
| NON-INT | | | | | | | | | | | | | | | | | | | |
| TOTAL NON-INTERSECTION | | 6 | 12 | 0 | 1 | 4 | 4 | 3 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 2 | 6 | 0 |
| TOTAL INTERSECTION | | 19 | 41 | 0 | 0 | 20 | 10 | 18 | 1 | 0 | 0 | 10 | 2 | 0 | 0 | 2 | 5 | 16 | 3 |

CRASHES PER MILLION VEHICLES ENTERING INTERSECTION PER YEAR

INJURIES PER MILLION VEHICLES ENTERING INTERSECTION PER YEAR

FATALITIES PER MILLION VEHICLES ENTERING INTERSECTION PER YEAR

INTERSECTION

CRASHES PER YEAR 4.2
 INJURIES PER YEAR 4.0
 FATALITIES PER YEAR 0.2

CRASH RATES:
 Intersection

R= crashes per million entering vehicles (mev)

$$R = \frac{(A)(1,000,000)}{(T)(V)}$$

A = number of crashes during the period
 T = time period in days
 V = total average daily traffic (ADT) entering the intersection