# FHWA-Indiana Environmental Document CATEGORICAL EXCLUSION / ENVIRONMENTAL ASSESSMENT FORM GENERAL PROJECT INFORMATION

| Road   | No./County:                    | United States Route (US) 36 and Raider Road, Henry |                  |                        |   |   |
|--|--------------------------------|--|------------------|------------------------|---|---|
| Desig  | Designation Number(s): 2000152 |  |                  |                        |   |   |
| Project<br>Descri  | ct<br>iption/Termini:          | Indiana. The project                               | ct will extend t | rom 0.07 mile we       | aider Road, in Henry County,<br>st of Raider Road to 0.08 mile east<br>6 to 0.06 mile north of US 36. | t |
|  |                                |  |                  |                        |   |   |
| X  | Categorical Exclusion          | , <b>Level 2</b> – Required                        | d Signatories:   | INDOT DE and/o         | r INDOT ESD   |   |
| Categorical Exclusion, Level 3 – Required Signatories: INDOT ESD   |                                |  |                  |                        |   |   |
| Categorical Exclusion, Level 4 – Required Signatories: INDOT ESD and FHWA  |                                |  |                  |                        | FHWA  |   |
| Environmental Assessment (EA) – Required Signatories: INDOT ESD and FHWA   |                                |  |                  |                        | nd FHWA   |   |
| Additional Investigation (AI) – The proposed action included a design change from the original approved environmental document. Required Signatories must include the appropriate environmental approval authority |                                |  |                  |                        |   |   |
| Approv   |                                | DE Signature and Da                                | te               | IND                    | OT ESD Signature and Date   |   |
|  | FHV                            | /A Signature and Date                              |                  |                        |   |   |
| Releas   | e for Public Involvem          |  | DOT DE Initials  | 12/29/2023<br>and Date | N/A INDOT ESD Initials and Date   |   |
| Certific   | cation of Public Invol         | vement   |                  |                        |   |   |
|  |                                |  | IND              | OT Consultant Serv     | vices Signature and Date  |   |
| INDOT D  | E/ESD Reviewer Signature       | and Date:  |                  |                        |   |   |

Chad Kelly, Kaskaskia Engineering Group, LLC

Name and Organization of CE/EA Preparer:

| County                              | Henry   |   | Route  | US 36  |  | Des. No.   | 2000152   |
|-------------------------------------|---|---|--|--|--|--|---|
|                                     |   | <u> </u>  | Part I – P   | ublic Invo   | lvement  |  |   |
|                                     |   | res some level of puess. <b>The level of pu</b> |  |  |  |  |   |
|                                     | No, then:   | t have a historic brid<br>or a Public Hearing   |  | under the Histo  | ric Bridges PA*?   | Yes  | No<br>X   |
|                                     | aring is require<br>O, and the AC                   |   | dges processe  | d under the Hist   | oric Bridges Progr   | ammatic Agre   | eement between INDOT,   |
|                                     |   | rement activities (leg<br>meetings, newspap     |  |  |  | nd residents (i  | .e. notice of entry),   |
| them abo                            | ut the project                                      |   | responsible for  | r land surveying   |  |  | ecember 16, 2021, notifying<br>n in the area. A sample copy   |
| "No Histo publicatio following      | ric Properties n soliciting puthe publication       | Affected". Upon realiblic input on FHW/         | elease of the C<br>A's Section 10<br>any substantive     | CE for public in 6 effects finding comments are          | volvement, a lega<br>g. Comments from<br>e received during       | I advertisement<br>the public vertise this period, the | nment on FHWA's finding of<br>ent will be placed in a local<br>will be accepted for 30 days<br>the appropriate Section 106<br>e comment period. |
| Developn<br>comments<br>for this pr | nent Public Inv<br>s and/or reque<br>oject. A legal | volvement Procedurest a public hearing.         | res <i>Manual</i> whi<br>INDOT has den<br>a local public | ich requires the<br>ecided to forgo t<br>ation contingen | project sponsor to<br>he offering of a put<br>t upon the release | o offer the pull<br>ablic hearing a                    | nsportation (INDOT) Project<br>blic an opportunity to submit<br>and will hold a public hearing<br>ment for public involvement.                  |
|                                     | lic controversy                                     | sy on Environ                                   |  |  | npacts, including v  | vhat is being  | done during the project to  |
| At this tim                         | e, there is no                                      | substantial public co                           | ontroversy con   | cerning impacts  | to the community   | or to natural  | resources.  |
|                                     |   |   |  |  |  |  |   |
| This is i                           | nage 2 of 23  | Project name:                                   | US 36 Inters   | section Improve  | ment   | Date:  | December 29, 2023   |

Version: April 2021

| County Henry  | Route  | US 36  | Des. No  | o. <u>2000152</u>  | 2   |
|---|--|--|--|--|---|
| Part II - Gener   | al Project Identifica  | tion, Descri   | ption, and Des   | sign Info  | <u>rmation</u>  |
| Sponsor of the Project:   | Indiana Departmer  | nt of Transportation   | (INDOT) INI  | DOT District:  | Greenfield  |
| Local Name of the Facility  | US 36 and Raider   | Road   |  |  |   |
| Funding Source (n   |  |  | X Local O  | ther*  |   |
|   | d, please identify the funding so  | urce:  |  |  |   |
| PURPOSE AND NEED  |  | 1.5 : 4 :  |  | <i>T</i> ,   |   |
|   | e specific transportation problen<br>roject. The solution to the traffic   |  |  |  | snould describe   |
| average crash severity a intersection with ten crash traffic engineering safety r index of crash frequency (I cost and crash frequency f Indiana. The ICF and ICC   | 9, Engineering Assessment Report the existing intersection. Between the existing in injury (six incaps and eling software) of 2016-201 (CF) is 1.61 (well above average or this intersection to intersection exceed the threshold of 1.00 section.   | ween 2016-2018, the cacitating and four 18 crash data, the metal and the index of cons with similar volure.  | nere were 13 crashes a<br>non-incapacitating). Per<br>ost recent data available<br>rash cost (ICC) is 2.40. T<br>nes, roadway classificati                           | at the US 36 RoadHAT 3.0 e at the time of these indices ons, and cont                                | and Raider Road<br>0 analysis (INDO<br>of this analysis, the<br>compare the crast<br>rol type throughou |
| concern.  |  |  |  |  |   |
| The purpose of the project  | t is to reduce crash potential, ir operation of the intersection.  | mprove the ICF and   | ICC to below 1.00, and   | d provide a lor  | ng-term solution t  |
| The purpose of the project ensure safe and sufficient   |  |  | ICC to below 1.00, and   | d provide a lor  | ng-term solution t  |
| The purpose of the project ensure safe and sufficient   | operation of the intersection.  ON (PREFERRED ALTERN   |  |  | d provide a lor  | ng-term solution t  |
| The purpose of the project ensure safe and sufficient  PROJECT DESCRIPTI  | operation of the intersection.  ON (PREFERRED ALTERN   | IATIVE): icipality: Green intersection of US   | field<br>36 and Raider Road, ext   | tending from (   | 0.07 mile west of   |
| The purpose of the project ensure safe and sufficient  PROJECT DESCRIPTI  County: Henry   | ON (PREFERRED ALTERN  Mun  The project will occur at the Raider Road to 0.08 mile ea   | icipality: Green intersection of US ast of Raider Road,  | field<br>36 and Raider Road, ext   | tending from (   | 0.07 mile west of   |
| The purpose of the project ensure safe and sufficient  PROJECT DESCRIPTI  County: Henry Limits of Proposed Work:  Total Work Length:  Is an Interstate Acceptability?   | ON (PREFERRED ALTERN  Mun  The project will occur at the Raider Road to 0.08 mile ea US 36.  0.29 Mile(s)  Cess Document (IAD)¹ required' e FHWA provide a Determination wired; a copy of the approved California (IAD) of the approved (IAD) of the approved California (IAD) of the approved California | icipality: Green intersection of US ast of Raider Road, Total W ? n of Engineering ar  | field  36 and Raider Road, ext and from 0.08 mile soutlook Area:  1.75   | tending from (h of US 36 to  Acre(s)  Yes¹  Date:  | 0.07 mile west of<br>0.06 mile north of   |
| The purpose of the project ensure safe and sufficient  PROJECT DESCRIPTI  County: Henry Limits of Proposed Work:  Total Work Length:  Is an Interstate Act If yes, when did the Acceptability?  If an IAD is required in IAD is required approval of the Interest deficiencies, roadway.  | ON (PREFERRED ALTERN  Mun  The project will occur at the Raider Road to 0.08 mile ea US 36.  0.29 Mile(s)  Cess Document (IAD)¹ required' e FHWA provide a Determination wired; a copy of the approved California (IAD) of the approved (IAD) of the approved California (IAD) of the approved California | icipality: Green intersection of US ast of Raider Road,  Total W  Total W  Total W  County, roads, etc. Ites, etc. Preferred a   | field  36 and Raider Road, extand from 0.08 mile south  ork Area: 1.75  and Operational  st be submitted to the Flucture should include                              | tending from 0 h of US 36 to  Acre(s)  Yes¹  Date:  HWA with a recorder the scope of                 | No X equest for rent conditions, work, anticipated  |
| The purpose of the project ensure safe and sufficient  PROJECT DESCRIPTI  County: Henry  Limits of Proposed Work:  Total Work Length:  Is an Interstate Act If yes, when did the Acceptability?  If an IAD is required in approval of the escribe location of project in interest deficiencies, roadway apacts, and how the project | ON (PREFERRED ALTERN  Mun  The project will occur at the Raider Road to 0.08 mile ea US 36.  0.29 Mile(s)  Cess Document (IAD)¹ required' e FHWA provide a Determination wired; a copy of the approved Cathe IAD.  Including township, range, city, or description, surrounding feature.   | icipality: Green intersection of US ast of Raider Road,  Total W  Total W  P In of Engineering ar  E/EA document mu  rounty, roads, etc. It res, etc. Preferred at d. Logical termini an | field  36 and Raider Road, extand from 0.08 mile south  ork Area: 1.75  and Operational  st be submitted to the Flucture should include and independent utility also | tending from 0 h of US 36 to  Acre(s)  Yes¹  Date:  HWA with a rest the scope of so need discussion. | No X equest for rent conditions, work, anticipated ssed.  |

| County | Henry | Route | US 36 | Des. No. | 2000152 |
|--------|-------|-------|-------|----------|---------|
|        |       |       |       |          |         |

US 36 and Raider Road are two-lane rural Major Collectors. The existing US 36 and Raider Road cross sections consist of one 12-foot lane in each direction with 5-foot aggregate shoulders. The project is located in a rural area consisting of predominantly agricultural land with forested tracts. The northeast and northwest quadrants of the intersection include single-family residences with various out-buildings. Further adjacent to the northeast of the residence in the northeast quadrant is Shenandoah school complex, which includes the High School, Middle School, and Elementary School and associated athletic fields and parking. Per the November 12, 2019, Engineering Assessment Report, the intersection experiences elevated crash rates with a pattern of severe left turn and right-angle crashes. Crash data from 2016 to 2018 was analyzed at this intersection. During this time period, there were 13 crashes, of which, ten of these crashes resulted in injury, and of those six were incapacitating, and four were non-incapacitating (Appendix I, page 23). The remaining three crashes resulted in property damage only. This resulted in the RoadHAT analysis and the aforementioned ICF value of 1.61 and ICC value of 2.40 in the purpose and need section.

The preferred alternative for this project will convert the existing intersection into a single lane roundabout. The approach alignments will be curved to facilitate traffic calming approaching the circulatory roadway. Proposed roadway elements include 12-foot travel lanes with a mix of open and curbed shoulders. A central island and truck apron will be provided, as well as exterior truck aprons to facilitate turning movements Additionally, drainage improvements will include installation of curb turnouts, new drainage structures, and ditch grading. Utility relocations for utility poles will be required at the corners of the existing intersection. Intersection improvements will also include new lighting, pavement markings, signage, and landscaping to better delineate the revised approaches at the intersection. The project will require approximately 1.75 acres of permanent right-of-way (ROW), and approximately 0.12 acre of temporary ROW. Anticipated impacts include tree removal affecting terrestrial habitat. Since the project will disturb at least one acre of soil, a Construction Stormwater General Permit (CSGP) will be required. Every effort to avoid, minimize, and/or mitigate project impacts will be made. Preliminary project plans are included in Appendix B (pages 14 to 41). Please note, as project design advanced, it has been identified that utility relocation may be required and reevaluation of any affected areas will be documented in the final environmental document.

The proposed maintenance of traffic (MOT) will include a full closure of US 36 and Raider Road when school is not in session, utilizing a state detour (Appendix B, pages 20 to 21). The MOT for the project is discussed in further detail in the MOT During Construction section of this document.

The project will reduce crash potential, improve the ICF and ICC to below 1.00, and provide a long-term solution to ensure safe and efficient operation of the intersection. This improves overall safety in the area and meets the purpose and need.

The construction limits extend from approximately 0.07 mile west of Raider Road to 0.08 mile east of Raider Road, and from 0.08 mile south of US 36 to 0.06 mile north of US 36, which are the logical termini for the project since these are the rational end points of the transportation improvement and subsequent review of its environmental impacts. This project demonstrates independent utility because it will improve the intersection as an independent project and does not depend on any other planned projects.

#### **OTHER ALTERNATIVES CONSIDERED:**

Provide a header for each alternative. Describe all discarded alternatives, including the No Build Alternative. Explain why each discarded alternative was not selected. Make sure to state how each alternative meets or does not meet the Purpose and Need and why.

**Traffic Signal:** Installation of a traffic signal was considered. This alternative will require dedicated left turn lanes at all approaches; however, the volumes at this intersection do not meet any of the traffic signal warrants from the Manual on Uniform Traffic Control Devices (MUTCD). This alternative theoretically reduces total crashes, but results in an increase in rear end crashes, and the predominant pattern of left turn crashes remains. This alternative will not address the purpose and need. Therefore, this alternative was discarded from further consideration.

**No Build:** The no build alternative does not address the safety concerns of the intersection. If no action is taken, the intersection safety issues will persist. The severe right angle and left turn crashes will not be addressed with the no build alternative. This would not address the purpose and need. Therefore, this alternative was discarded from further consideration.

| The No Build 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; | х             |                                 |       |                   |
|---|---------------|---------------------------------|-------|-------------------|
| This is page 4 of 23  | Project name: | US 36, Intersection Improvement | Date: | December 29, 2023 |

| County   | Henry   |           | Route   | US 36        | <u>,</u>                              | Des. N         | No. 2000152   |
|--|---|-----------|---|--------------|---------------------------------------|----------------|---------------|
| It w<br>It w                                       | would not correct the<br>would not correct exist<br>would result in seriou<br>ner (Describe): | sting det | eriorated condition                             | ns and maint | enance problem                        |                |               |
|  | AY CHARACTER:   |           |   |              |                                       |                |               |
| Name of R<br>Functional<br>Current AE<br>Design Ho | Classification:   | US 36     |   | De:          | sign Year ADT: 16 55                  | 4,811          | (2045)        |
|  |   | E         | Existing  |              | Proposed                              |                |               |
| Typ<br>Par<br>Sho<br>Me<br>Sid                     | mber of Lanes: pe of Lanes: vement Width: oulder Width: dian Width: dewalk Width:             |           | 2 2 through la 12 ft. 5 ft. N/A ft. N/A ft.     |              | 2 thro 12 ft. 4 ft. N/A ft. N/A ft.   | 2<br>ugh lanes | ural          |
| Name of R<br>Functional<br>Current AE<br>Design Ho | pography:  Roadway  Classification:   | Raide     | r Road Collector (2025) Truck Perce Legal Speed | Des          | sign Year ADT:  50  55                | 1,947          | (2045)        |
| Typ<br>Par<br>Sho<br>Me                            | mber of Lanes: pe of Lanes: vement Width: oulder Width: dian Width: dewalk Width:             |           | 2 2 through la 12 ft. 5 ft. N/A ft. N/A ft.     |              | 12 ft.<br>4 ft.<br>N/A ft.<br>N/A ft. | 2<br>ugh lanes |               |
|  | tting:<br>pography:   |           | Irban<br>evel                                   |              | Suburban<br>Rolling                   |                | ural<br>lilly |

| County  | Henry  | Route  | US 36   | Des. No.  | 2000152                  |                                       |
|---|--|--|---|---|--------------------------|---------------------------------------|
| BRIDG   | ES AND/OR SMALL ST   | RUCTURE(S):  |   |   |                          |                                       |
|   | osed action includes multiple<br>d proposed bridge(s) and/o  |  | nd duplicate for each bridge an   | nd/or small struc                                     | cture. Include both      |                                       |
| existing and                                    | u proposeu briuge(s) ariu/o  | i siriali structure(s) iri triis   | s section.  |   |                          |                                       |
| Structure                                       | e/NBI Number(s):   |  | Sufficiency Rating  |   |                          |                                       |
|   |  |  |   | (Ratino   | g, Source of Informatio  | n)                                    |
|   |  | Existing   | Proposed  |   |                          |                                       |
| E   | Bridge/Structure Type:   | Laisting   | 1 Toposcu   |   |                          |                                       |
|   | Number of Spans:   |  |   |   |                          |                                       |
|   | Weight Restrictions:   | ton  | ton   |   | <u> </u>                 |                                       |
|   | Height Restrictions:   | ft.  | ft.   |   |                          |                                       |
|   | Curb to Curb Width:  | ft.  | ft.   |   |                          |                                       |
|   | Outside to Outside Width:  | ft.  | ft.   |   |                          |                                       |
| L   | Shoulder Width:  | ft.  | ft.   |   |                          |                                       |
| that is 84<br>listed as<br>Adjacen<br>of 15 inc | 4 feet in length, with an out-<br>a select or non-select histor<br>t to the south of the project   | to-out width of 46.5 feet.<br>oric structure.<br>area on Raider Road is c  | e-span concrete bridge (Str. 03<br>Per a review of the INDOT His<br>culvert CLV 036-033-100.21, a<br>ated as part of this project.  | storic Bridges Ir                                     | nventory, this structure | is not                                |
| MAINT   | ENANCE OF TRAFFIC (  | (MOT) DURING CONS  | STRUCTION:  |   |                          |                                       |
| I<br>\<br>\<br>I<br>V                           | Provisions will be made of Will the proposed MOT subset there substantial controver Will the project require a sid Provisions will be made of Provisions will be provided to Provisions will be pro | posed? use of a detour or require for access by local traffic for through-traffic depend to accommodate any local stantially change the enviorsy associated with the p ewalk, curb ramp, and/or for access by pedestrians  by) that will be provided for | lent businesses.  al special events or festivals.  ironmental consequences of the proposed method for MOT?  r bicycle lane closure? (describes and/or bicyclist and so poster maintenance of traffic. Any | ne action?<br>ne below)<br>d (describe belown impacts | from these temporary     | ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( |
|   | snould be quantilled to the t<br>Any local concerns about a  |  | rly with respect to properties s<br>ould be detailed as well.   | นบา สร Section  | 4(1) resources and       |                                       |

The MOT for the project will require a full closure of US 36 with a detour, occurring when school is not in session. The detour includes SR 109, I-69, SR 67, and SR 3, adding nearly 20.8 miles of commuter travel. Additionally, there will be a full closure of Raider Road with a detour, utilizing West County Road 400 North, North County Road 850 West, and West County Road 575 North. This detour of Raider Road will add nearly 4.1 miles of commuter travel. No pedestrian MOT is planned due to the absence of existing pedestrian facilities at the intersection The detours will remain for the duration of construction for the project, approximately one construction season. MOT plans are included in Appendix B, pages 20 to 21.

This is page 6 of 23 Project name: US 36, Intersection Improvement Date: December 29, 2023

| County Henry   | Route         | US 36                  | _ Des. No     | o. <u>2000152</u>            |
|--|---------------|------------------------|---------------|------------------------------|
| The closures/lane restrictions will pose services); however, no significant delays | . ,           |                        | , ,           |                              |
| ESTIMATED PROJECT COST AND   | SCHEDULE:     |                        |               |                              |
| \$ 457,050.87<br>Engineering: (FY 2022-2024)                                       | Right-of-Way: | \$ 35,000<br>(FY 2024) | Construction: | \$ 2,221,733.78<br>(FY 2025) |
| Anticipated Start Date of Construction:  | Summer 2025   |                        |               |                              |
| RIGHT OF WAY:  |               |                        |               |                              |

|                  | Amour     | nt (acres) |
|------------------|-----------|------------|
| Land Use Impacts | Permanent | Temporary  |
| ·                |           |            |
| Residential      | 0.598     | 0.123      |
| Commercial       | 0         | 0          |
| Agricultural     | 1.152     | 0          |
| Forest           | 0         | 0          |
| Wetlands         | 0         | 0          |
| Other:           | 0         | 0          |
| TOTAL            | 1.75      | 0.12       |

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, reacquisition or easements, either known or suspected, and their impacts on the environmental analysis should be discussed.

The existing ROW is approximately 40 feet on each side of centerline on US 36 and 10 feet each side of centerline on Raider Road and consists of mowed grasses and scrub shrub typical of being adjacent to a rural roadway. Areas of proposed ROW include residential acreage at the northwest and northeast quadrants of the intersection, and agricultural acreage at the southwest and southeast quadrants of the intersection.

The project requires approximately 1.75 acres of permanent ROW consisting of residential and forested land in the northwest quadrant of US 36 and Raider Road, residential and mowed grasses in the northeast quadrant of US 36 and Raider Road, and roadside vegetation in the southwest and southeast quadrants of US 36 and Raider Road. The project will also require 0.12 acre of temporary ROW consisting of mowed vegetation associated with residential land in the northeast quadrant. Required ROW amounts are subject to change, due to potential further design changes for utility relocations. Proposed ROW widths vary along US 36 from 40 feet to 70 feet from centerline and vary along Raider Road from 10 feet to 60 feet from centerline. ROW locations are denoted in the project plans in Appendix B (pages 14 to 41).

If the scope of work or permanent or temporary ROW amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately.

#### Part III - Identification and Evaluation of Impacts of the Proposed Action

| SECTION A - EARLY COORDINATION: |  |  |
|---------------------------------|--|--|

List the date(s) coordination was sent and all resource 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.

| Early coordination letter | s were sent on Ma | rch 15, 2023 (Appendix C, pages 1 to 2). |       |                   |  |
|---------------------------|-------------------|--|-------|-------------------|--|
|                           |                   |  |       |                   |  |
| This is page 7 of 23      | Project name:     | US 36, Intersection Improvement          | Date: | December 29, 2023 |  |

County Henry Route US 36 Des. No. 2000152

| Agency   | Date Sent        | Response Date        | Appendix                  |
|--|------------------|----------------------|---------------------------|
| Federal Highway Administration (FHWA)  | March 15, 2023   | No response received | N/A                       |
| Indiana Geological and Water Survey (IGWS) (Automated Response)                          | March 15, 2023   | March 15, 2023       | Appendix C, pages 3 to 4  |
| U.S. Department of Housing and Urban Development (HUD)                                   | March 15, 2023   | No response received | N/A                       |
| Natural Resources Conservation Service (NRCS)  | February 1, 2023 | No response received | N/A                       |
| Indiana Department of Environmental Management (IDEM) – Wetlands and Stormwater Programs | March 15, 2023   | No response received | N/A                       |
| IDEM - Groundwater Section   | March 15, 2023   | March 15, 2023       | Appendix C, pages 5 to 6  |
| Indiana Department of Natural Resources, Division of Fish and Wildlife (IDNR-DFW)        | March 15, 2023   | April 13, 2023       | Appendix C, pages 7 to 8  |
| National Park Service (NPS)  | March 15, 2023   | No response received | N/A                       |
| INDOT Greenfield Environmental Section Manager (Supervisor)                              | March 15, 2023   | No response received | N/A                       |
| INDOT Project Manager  | March 15, 2023   | No response received | N/A                       |
| U.S. Army Corps of Engineers (USACE)   | March 15, 2023   | No response received | N/A                       |
| Henry County Planning Commission - Floodplain and Zoning Administrator                   | March 15, 2023   | No response received | N/A                       |
| Henry County Council – President   | March 15, 2023   | No response received | N/A                       |
| Henry County Emergency Management – EMA<br>Director                                      | March 15, 2023   | No response received | N/A                       |
| Henry County Highway Department – Highway Engineer                                       | March 15, 2023   | No response received | N/A                       |
| Henry County – Surveyor  | March 15, 2023   | No response received | N/A                       |
| Henry County – Sheriff   | March 15, 2023   | No response received | N/A                       |
| Northern District Henry County Commissioner  | March 15, 2023   | No response received | N/A                       |
| Shenandoah School Corporation – Superintendent   | March 15, 2023   | No response received | N/A                       |
| Shenandoah School Corporation – Transportation   | March 15, 2023   | No response received | N/A                       |
| Shenandoah High School - Principal   | March 15, 2023   | No response received | N/A                       |
| Shenandoah Middle School - Principal   | March 15, 2023   | No response received | N/A                       |
| Middletown Town Council - President  | March 15, 2023   | No response received | N/A                       |
| Town of Middletown – Eastern Indiana Regional Planning Commission Representative         | March 15, 2023   | No response received | N/A                       |
| Middletown Fire Department   | March 15, 2023   | No response received | N/A                       |
| Town of Sulfur Springs   | March 15, 2023   | No response received | N/A                       |
| Jefferson Township (Sulphur Springs) Fire Department                                     | March 15, 2023   | May 10, 2023         | Appendix C, pages 9 to 11 |
| Middletown Police Department   | March 15, 2023   | No response received | N/A                       |
| Sulphur Springs Christian Church   | March 15, 22023  | No response received | N/A                       |

This is page 8 of 23 Project name: US 36, Intersection Improvement Date: December 29, 2023

2000152

Des. No.

US 36

Route

County

Henry

| White Union Chri   | istian Church  |  | March 15, 202   | No response received  | N/A   |   |
|--|--|--|---|---|---|---|
| Church of God  |  |  | March 15, 202   |   | N/A   |   |
| East Elementary  | School – Superinte   | endent   | March 15, 202   |   | N/A   |   |
| Fall Creek Towns   | •  |  | March 15, 202   | No response received  | N/A   |   |
| Spring Valley Ca   | . •  |  | March 15, 202   | received  | N/A   |   |
| Belgian Horse W  | inery  |  | March 15, 202   | No response received  | N/A   |   |
|  |  |  | vironmental Comn  | nitments section of this (  | CE document.  |   |
| SECTION B – E  | COLOGICAL RE   | SOURCES:   |   |   |   |   |
| Federal<br>State N<br>Nationw<br>Outstan   | Rivers, Watercour Wild and Scenic F atural, Scenic or R wide Rivers Invento ading Rivers List for one Waterways  project area: | Rivers<br>ecreational Rivers<br>ry (NRI) listed<br>r Indiana   |   | I impacted stream(s):   | 0   | X   |
| Stream Name  | Classification   | Total Size in<br>Project Area<br>(linear feet)   | Impacted<br>linear feet   | Comments (i.e. locati<br>US, appendix referen   |   | , likely Water of the   |
| Deer Creek   | Perennial  | 356  | 0   | Located under US 36<br>Water of the US (App   |   | rtheast, likely   |
| npacts (both perman<br>r state lists for India<br>itigate if impacts with<br>Based on the desk<br>four streams, rive | nent and temporary na. Include if feature Il occur.  Ktop review, the ae rs, watercourses, ner jurisdictional fea              | r) will occur to the res are subject to a rial map of the proof or other jurisdiction ature within or adja | features identified federal or state juit of state juit of state juit of state area, and the conal features with scent to the project | adjacent or within the production. Discuss measures Red Flag Investigation in the 0.5-mile search area. That number was | or rivers are lister<br>sures to avoid, mi<br>(RFI) report (App<br>radius. There is | ed on any federal<br>inimize, and<br>pendix E), there are<br>one stream, river, |

13, 2023. Due to project design changes, an updated report was approved by INDOT EWPO on December 8, 2023. Please refer to Appendix F, page 1 for the updated *Waters of the U.S. Determination Report*. It was determined that one likely perennial jurisdictional

A Waters of the U.S. Determination Report was initially approved by INDOT Ecology and Waterway Permitting Office (EWPO) on April

Deer Creek is listed as impaired for E. Coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure. This is included as a firm

No Federal, Wild and Scenic Rivers; State Natural, Scenic, and Recreational Rivers; Outstanding Rivers for Indiana; navigable

commitment in the Environmental Commitments section of this CE document.

waterways or National Rivers Inventory waterway are present within or adjacent to the project area.

This is page 9 of 23 Project name: US 36, Intersection Improvement Date: December 29, 2023

| County   | Henry   | Route  | US 36                                       |   | Des. No.                                      | 2000152  |                                       | _                              |
|--|---|--|---|---|---|--|---------------------------------------|--------------------------------|
|  | located within the investations regarding jurisdiction  | •  | potential to                                | be impacted by  | the project.                                  | The USACE  | makes                                 | all fina                       |
| defined o<br>Upstream<br>within the            | ek is a perennial stream that<br>rdinary high water mark (Condition of the decimal o | DHWM) was observed<br>icultural fields and rura<br>ct or indirect impacts to | that was ap<br>I residential<br>o Deer Cree | proximately 17.5 f<br>structures. Approx<br>k are anticipated s | eet wide and<br>kimately 356 li               | approximately<br>inear feet (LF)                   | 1.33 fee<br>of the st                 | et deep<br>ream is             |
|  | W responded on April 13<br>s (Appendix C, pages 7 to 8<br>nent.   |  |   |   |   |  |                                       |                                |
| O  | pen Water Feature(s) Reservoirs Lakes Farm Ponds Retention/Detention Basi Storm Water Managemer   |  |   | Presence<br>X   | Yes   | No X   |                                       |                                |
| temporary) v<br>avoid, minim<br>Based on       | open water feature(s) iden<br>vill occur to the features iden<br>nize, and mitigate if impacts<br>the desktop review, the a<br>0.5-mile search radius. Th   | entified. Include if features will occur.  erial map of the project          | res are subj                                | ect to federal or st<br>the RFI report (A                       | ate jurisdiction  opendix E), th              | n. Discuss me                                      | asures to<br>en water                 | feature                        |
| A Waters<br>2023. Du<br>Appendix<br>features v | on October 12-13, 2022, by of the U.S. Determination e to project design chang F, page 1 for the updatewere located within the invigurisdiction.  | KEG.  Report was approved es, an updated report d Waters of the U.S. L       | by INDOT I<br>was approv<br>Determinatio    | Ecology and Wate<br>red by INDOT EW<br>on Report. It was c      | rway Permittii<br>/PO on Decelletermined that | ng Office (EW<br>mber 8, 2023.<br>at no jurisdicti | PO) on <i>F</i><br>Please<br>onal ope | April 13<br>refer to<br>n wate |
|  | water feature was not wi<br>d. Therefore, no impacts a  |  |   | a. No direct or ind   | lirect impacts                                | to the open w                                      | ater feat                             | ure are                        |
| w  | etlands   |  |   | Pres  | <del></del>                                   | Impacts<br>Yes No                                  |                                       |                                |
| Total wetl                                     | and area:   | Acre(  | s) Total                                    | wetland area impa   | cted:   |  | _ Acre(s                              | )                              |
| (If a deter                                    | mination has not been mad   | de for non-isolated/isola  | ated wetland                                | ls, fill in the total w   | etland area in                                | npacted above                                      | -)                                    |                                |
| w  | etlands ( <i>Mark all that app</i><br>Wetland Determination<br>Wetland Delineation<br>USACE Isolated Waters I   |  | <u>X</u>                                    | ation<br>]  | ESD April 13, 2                               | Approval Date                                      | <u>es</u>                             |                                |
| This is  | page 10 of 23 Project na  | ame: US 36. Interse  | ection Impro                                | vement  | Date  | : Decembe  | r 29 202                              | 23                             |

| Henry  | Route  |  |  | Des. No.  | 2000152  |  |  |  |  |
|--|--|--|--|---|--|--|--|--|--|
| Substantial adverse in<br>Substantial adverse in<br>Substantially increase<br>Unique engineering, to   | hat apply and explain):<br>npacts to adjacent home:<br>d project costs;<br>affic, maintenance, or sa   | s, business or o   | ther improved pro  |   | h avoidance  |  |  |  |  |
| The project not meeting  | g the identified needs.  |  |  |   |  |  |  |  |  |
| the features identified. I   | nclude if features are sub   |  |  |   |  |  |  |  |  |
| earch radius. There are  |  |  |  |   |  |  |  |  |  |
| e to project design char<br>F, page 1 for the update<br>rithin the investigated a  | nges, an updated reported Waters of the U.S. De  | was approved<br>etermination Rep   | by INDOT EWP port. It was deter  | O on Decem<br>mined that no   | nber 8, 2023 o jurisdiction  | . Please refer to al wetlands were   |  |  |  |
|  |  | oject area. No o   | direct or indirect   | impacts are   | anticipated  | to wetlands are  |  |  |  |
|  |  |  |  |   |  | pages 7 to 8). All   |  |  |  |
|  |  |  | Presence   | Impa  | cts  |  |  |  |  |
| errestrial Habitat   |  |  | X  | Yes   | No   |  |  |  |  |
| estrial habitat in project a   | rea: 2.45  | Acre(s)  | Total tree clea  | ring:   | 0.27   | Acre(s)  |  |  |  |
| Describe types of terrestrial habitat (i.e. forested, grassland, farmland, lawn, etc.) adjacent or within the project area. Include whether or not impacts will occur to habitat identified. Include total terrestrial habitat impacted and total tree clearing that will occur. Discuss measure to avoid, minimize, and mitigate if impacts will occur. |  |  |  |   |  |  |  |  |  |
| avoia, minimize, and miti  | gate ii iiripacts wiii occur.  | •  |  | Turoo oroanin   |  |  |  |  |  |
| a desktop review, a site agricultural fields, shrub e (Festuca arundinaces) d mulberry (Morus rubra) al 2.45 acres of terrestrion of the single lane rounstruction conditions. An east corner of the project European ash (Fraxinus  | visit on October 12-13, 2 s, and trees, typical of a , Kentucky bluegrass ( <i>Pc</i> , European ash ( <i>Fraxinus</i> al habitat in the project andabout. Disturbed areas estimated three trees (0 area, will be removed. The excelsior). Avoidance al mplete the project. Mitigation   | 2022, by KEG, a rural setting, su pa pratensis), ar s excelsior), whi area, approxima s will be re-seed 2.27 acre), two rhe dominate sp ternatives would   | nd the aerial may rrounding the property of the mulberry (Mortely 1.75 acre of led post-constructions of trees to I not be practical   | o of the project area. To (Lonicera mus alba), and terrestrial haction to return st corner of the premoved  | The dominan<br>aackii), black<br>I giant fox tai<br>abitat will be<br>the site as on<br>the project ar<br>include black  | t species include<br>k walnut (Juglans<br>il (Setaria faberi).<br>disturbed due to<br>close as possible<br>tea and one near<br>k walnut (Juglans   |  |  |  |
| a desktop review, a site agricultural fields, shrub e ( <i>Festuca arundinaces</i> ) d mulberry ( <i>Morus rubra</i> ) al 2.45 acres of terrestrion of the single lane rounstruction conditions. An east corner of the project European ash ( <i>Fraxinus</i> allest area possible to co   | visit on October 12-13, 2 s, and trees, typical of a , Kentucky bluegrass (Po, European ash (Fraxinus al habitat in the project andabout. Disturbed areas estimated three trees (0 area, will be removed. To excelsior). Avoidance al  | 2022, by KEG, a rural setting, su pa pratensis), ar s excelsior), whi area, approxima s will be re-seed 2.27 acre), two rine dominate sp ternatives would atten is not antice ee removal date  | nd the aerial may<br>rrounding the property of the mulberry (More<br>telly 1.75 acre of the post-construction of the post-construction of the practical ipated.  | o of the project area. To (Lonicera mus alba), and terrestrial had to compare the corner of the removed as the project and erosion  | The dominan<br>aackii), black<br>giant fox tai<br>abitat will be<br>the site as on<br>the project ar<br>include black<br>t limits have le  | t species include walnut (Juglans il (Setaria faberi). disturbed due to close as possible ea and one near walnut (Juglans been constrained endix C, pages 7  |  |  |  |
|  | Substantial adverse in Substantially increase Unique engineering, tr Substantial adverse so The project not meeting wetlands identified adjace the features identified. In admitigate if impacts will the desktop review, the search radius. There are 22, by KEG.  of the U.S. Determination to project design chare F, page 1 for the update within the investigated and the | Substantial adverse impacts to adjacent homes. Substantially increased project costs; Unique engineering, traffic, maintenance, or sa Substantial adverse social, economic, or environmentation and identified adjacent or within the project at the features identified. Include if features are substantially impacts will occur.  The desktop review, the aerial map of the project at the desktop review, the aerial map of the project at the desktop review, the aerial map of the project arearch radius. There are no wetlands within or adjacent report are to project design changes, an updated report area of the U.S. Determination Report was approved to project design changes, an updated report area and will be impacted in.  Indicate the investigated area and will be impacted in.  Indicate the investigated within or adjacent to the project design changes are expected.  We responded on April 13, 2023, with standard recommendations are included in the Environmentation are in | Substantial adverse impacts to adjacent homes, business or of Substantially increased project costs; Unique engineering, traffic, maintenance, or safety problems; Substantial adverse social, economic, or environmental impact The project not meeting the identified needs.  Wetlands identified adjacent or within the project area. Include we the features identified. Include if features are subject to federal of admitigate if impacts will occur.  The desktop review, the aerial map of the project area, and the flearch radius. There are no wetlands within or adjacent to the project, by KEG.  Of the U.S. Determination Report was approved by INDOT Ecole to project design changes, an updated report was approved F, page 1 for the updated Waters of the U.S. Determination Report in the investigated area and will be impacted by the project in.  Indicate the destribited within or adjacent to the project area. No of the U.S. Determinations are expected.  We responded on April 13, 2023, with standard recommendations are recommendations are included in the Environmental Commitmental Commitmental Perrestrial Habitat  Perrestrial Habitat  Perrestrial habitat in project area: 2.45 Acre(s) | Substantial adverse impacts to adjacent homes, business or other improved prosubstantial adverse impacts to adjacent homes, business or other improved prosubstantially 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.  Wetlands identified adjacent or within the project area. Include whether or not impact the features identified. Include if features are subject to federal or state jurisdiction and mitigate if impacts will occur.  The desktop review, the aerial map of the project area, and the RFI report (Appelearch radius. There are no wetlands within or adjacent to the project area, which 22, by KEG.  of the U.S. Determination Report was approved by INDOT Ecology and Waterwell to project design changes, an updated report was approved by INDOT EWP.  F, page 1 for the updated Waters of the U.S. Determination Report. It was determinithin the investigated area and will be impacted by the project. The USACE in.  Indis were identified within or adjacent to the project area. No direct or indirect d. Therefore, no impacts are expected.  W responded on April 13, 2023, with standard recommendations regarding wetlar are recommendations are included in the Environmental Commitments section of this errestrial Habitat  Presence  Presence  Presence  Presence  Presence  Presence | Substantial adverse impacts to adjacent homes, business or other improved properties; 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.  **wetlands identified adjacent or within the project area. Include whether or not impacts (both puthe features identified. Include if features are subject to federal or state jurisdiction. Discuss red mitigate if impacts will occur.  **the desktop review, the aerial map of the project area, and the RFI report (Appendix E), there earch radius. There are no wetlands within or adjacent to the project area, which was confirmed 22, by KEG.  **of the U.S. Determination Report** was approved by INDOT Ecology and Waterway Permitting to project design changes, an updated report was approved by INDOT EWPO on Decempage 1 for the updated **Waters of the U.S. Determination Report.** It was determined that no inthin the investigated area and will be impacted by the project. The USACE makes all fin.  **nds were identified within or adjacent to the project area. No direct or indirect impacts are d. Therefore, no impacts are expected.  **W responded on April 13, 2023, with standard recommendations regarding wetland impacts (A recommendations are included in the Environmental Commitments section of this CE documents.  **Presence** Impacts are expected.  * | 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.  wetlands identified adjacent or within the project area. Include whether or not impacts (both permanent an the features identified. Include if features are subject to federal or state jurisdiction. Discuss measures to ad mitigate if impacts will occur.  the desktop review, the aerial map of the project area, and the RFI report (Appendix E), there are nine we earch radius. There are no wetlands within or adjacent to the project area, which was confirmed by the site 22, by KEG.  of the U.S. Determination Report was approved by INDOT Ecology and Waterway Permitting Office (EW et op project design changes, an updated report was approved by INDOT EWPO on December 8, 2023 F, page 1 for the updated Waters of the U.S. Determination Report. It was determined that no jurisdiction within the investigated area and will be impacted by the project. The USACE makes all final determinments are included in the impacts are expected.  W responded on April 13, 2023, with standard recommendations regarding wetland impacts (Appendix C, the recommendations are included in the Environmental Commitments section of this CE document.  Presence Impacts Yes No X  Therefore, no impacts are expected.  Presence Impacts Yes No X  Therefore impacts Yes No X  Therefore impacts Yes No X  Therefore impacts are expected.  Presence Impacts Yes No X  Therefore impacts are expected.  Presence Impacts Yes No X  Therefore impacts are expected.  Presence Impacts Yes No X  Therefore impacts are expected.  Presence Impacts Yes No X  Therefore impacts are expected.  Presence Impacts Yes No X  Therefore impacts are expected.  Presence Impacts Yes No X  Therefore impacts are expected.  Presence Impacts Yes No |  |  |  |

| County   | / Henry   | Route  | US 36   |   | Des. No.   | 2000152  |  |
|--|---|--|---|---|--|--|--|
|  | Section 7 infor   |  | C cannot  | be completed)   | Yes X  |  | No   |
|  | Determination Re  | ceived for Listed Bats from USF\   | NS:   | NE  | NLAA X   | LAA [  |  |
|  | Additional fede   | ot included in IPaC<br>eral species found in project area<br>(not bird) found in project area (b   |   |   | Yes<br>NR)   | l E  | No<br>X<br>X   |
|  |   | or presence of birds (i.e. nests)<br>cies based upon coordination wit  | h IDNR  |   | Yes  |  | No<br>X<br>X   |
| bat and no   | orthern long-eared  | and species identified. Describe<br>bat impacts. Discuss if other fe<br>tion that was received. Discuss it   | derally lis   | ted species were iden   | tified. If so, inclu   | ude consultat  |  |
| Threate<br>April 13<br>species                               | ened and Rare (E<br>, 2023 (Appendix<br>listed as state or  | w and the RFI report (Appendix E<br>TR) Species List has been chec<br>C, pages 7 to 8), the Natural Her<br>federally threatened, endangere<br>on July 7, 2022, and did not indic   | ked. Acc<br>itage Prod<br>d, or rare  | ording to the IDNR-D<br>gram's Database has<br>have been reported t   | FW early coordi<br>been checked ar<br>bo occur in the pr   | nation respor<br>nd to date, no<br>oject vicinity.                                 | nse letter dated<br>plant or anima<br>An INDOT 0.5                               |
| list was   | generated (Apperthern long-eared b  | ubmitted through the USFWS's Inndix C, pages 12 to 19). The propat (NLEB) ( <i>Myotis septentrionali</i> northern long-eared bat.  | ject is wit   | hin range of the feder  | ally endangered  | Indiana bat  | (Myotis sodalis  |
| dated N<br>(FTA),<br>project<br>INDOT<br>receive<br>lighting | May 2016 (revised<br>and USFWS. An own<br>was found to "Ma<br>reviewed and veri<br>d from USFWS wi<br>and tree remova | the Rangewide Programmatic Inf<br>February 2018), between the Fheffect determination key was controlly Affect – Not Likely to Adverse fied the effect finding on November thin the 14-day review period; the I Avoidance and Minimization Monitments in the Environmental Controlled | HWA, Fed<br>mpleted of<br>ely Affect'<br>per 9, 202<br>erefore, it<br>easures | leral Railroad Adminis<br>on November 8, 2023<br>the Indiana bat and/<br>3, and requested USF<br>was concluded they of<br>(AMMs) are applicable | tration (FRA), Fe, and based on or the NLEB (A) WS's review of to concur with the first to this project. | ederal Transi<br>the response<br>ppendix C, pa<br>the finding. No<br>inding. Gener | t Administration es provided, the ages 20 to 33) o response was ral construction |
|  |   | project information will be result completed. Results of these will  |   |   |  |  | s list and effec   |
|  | Project located<br>Karst features<br>Oil/gas or expl  | Mineral Resources I within the Potential Karst Featu identified within or adjacent to th oration/abandoned wells identified  | e project<br>ed in the p  | area<br>oroject area  | Yes  | ] [  | No<br>X<br>X<br>X  |
| Discuss if area (from  | project is located<br>RFI). Discuss re  | Report reviewed by INDOT EWF<br>in Potential Karst Features Area<br>sponse received from IGWS coo  | of Indian   | a and if any karst feat<br>Discuss if any mines   | , oil/gas, or expl   | loration/aban  | doned wells  |
| were iden  | tified and if impact  | s will occur. Describe if any imp  | acts will o   | occur to any karst feat   | ures. Include dis  | scussion of k  | arst   |
| l'his i  | s page 12 of 23   | Project name: US 36, Inters  | section Im  | provement   | Date:  | December   | 29, 2023   |

|  |   | •  |                      | •                       |                |  |  |  |  |  |  |  |
|--|---|--|----------------------|-------------------------|----------------|--|--|--|--|--|--|--|
| County   | Henry   | Route  | US 36                |                         | Des. No.       | 2000152  |  |  |  |  |  |  |
| ,  |   |  |                      |                         |                |  |  |  |  |  |  |  |
| study/report<br>by INDOT E   | was completed and results.<br>NPO)  | (Karst investigation                           | must comply with     | the current Kars        | t MOU and o    | coordinated and reviewed   |  |  |  |  |  |  |
| outlined in<br>the project<br>project are<br>area (App<br>potential t<br>petroleum<br>within the | Based on a desktop review and the Indiana Karst Region Map, the project is not located in the designated Indiana Karst Region as outlined in the most current <i>Protection of Karst Features during Project Development and Construction</i> . According to the topo map of the project area (Appendix B, page 1) and the RFI report (Appendix E), there are no karst features identified within or adjacent to the project area. In the early coordination response on March 15, 2023, the IGWS did not indicate that karst features exist in the project area (Appendix C, pages 3 to 4). IGWS did indicate moderate liquefaction potential, one percent annual chance flood hazard, high potential bedrock resource, low potential sand and gravel resource, and petroleum exploration wells. The RFI report identified five petroleum wells located within 0.5 mile of the project area (Appendix E). The features will not be affected because the project is not within the vicinity of these wells. Response from IGWS has been communicated with the designer on November 3, 2023. No impacts are expected.  SECTION C – OTHER RESOURCES |  |                      |                         |                |  |  |  |  |  |  |  |
| SECTION  | N C – OTHER RESOUR  | CES  |                      |                         |                |  |  |  |  |  |  |  |
| Dr   | inking Water Resources Wellhead Protection Area( Source Water Protection A Water Well(s) Urbanized Area Boundary Public Water System(s)   |  | <u>P</u>             | resence                 | Yes            | acts<br>No   |  |  |  |  |  |  |
| Check the ap   | Is the project located in the St. Joseph Sole Source Aquifer (SSA):  If Yes, is the FHWA/EPA SSA MOU Applicable?  If Yes, is a Groundwater Assessment Required?  Theck the appropriate boxes and discuss each topic below. Provide details about impacts and summarize resource-specific pordination responses and any mitigation commitments. Reference responses in the Appendix.   |  |                      |                         |                |  |  |  |  |  |  |  |
| This proje   | ct is located in Henry Cour<br>d sole source aquifer in the   | nty, which is not loca<br>ne state of Indiana. | ted within the area  | of the St. Jose         | ph Sole Sour   | urce Aquifer, the only legally ce Aquifer Memorandum of and no impacts are expected. |  |  |  |  |  |  |
|  | coordination letter dated No impacts are expected.  | /larch 15, 2023, IDEN                          | A stated the project | is not located w        | rithin a wellh | nead area (Appendix C, page  |  |  |  |  |  |  |
|  | Water Well Record Databa<br>are located near this project   |  |                      | <u>r/3595.htm</u> ) was | accessed o     | n October 30, 2023, by KEG.  |  |  |  |  |  |  |
|  | a desktop review of the IN ted in an Urban Area Boun  |  |                      | t.in.gov/MS4/) b        | y KEG on C     | October 30, 2023, this project   |  |  |  |  |  |  |
|  | a desktop review, a site vis<br>water systems were identifi   |  |                      |                         | of the projec  | et area (Appendix B, page 1),  |  |  |  |  |  |  |
| This is r  | page 13 of 23 Project na  | me: IIS 36 Inters                              | section Improvemer   | n <b>t</b>              | Date:          | December 29, 2023  |  |  |  |  |  |  |

| County   | Henry   | Route  | US 36  | _ Des. No.   | 2000152   |
|--|---|--|--|--|---|
| lf a <sub>l</sub><br>Le  | oodplains Project located within a re Longitudinal encroachmen Transverse encroachmen Homes located in floodpla pplicable, indicate the Floo evel 1 Level 2   | nt<br>t<br>t<br>nin within 1000' up/dov<br>dplain Level?<br>2 Level  | 3 X Level  | X X  | Impacts Yes No X X X  A appendix. Discuss impacts   |
| Based on KEG on C floodplain The Flood conveyan (BFE) and                      | the classification system. In to insure consistency with a desktop review of The ID Dctober 3, 2023, and the II maps (Appendix F, page 1 dplain Administrator did no ce toward the stream, curl d 0.024 acre of temporary i | If encroachment on a hathe local flood plain on the local flood plain of the local flood plain o | flood plain will occur, planning.  ray Information Portal it is located in a regulation letter was sent on 30-day time frame. It basins will cause 0.0 ject will not require a   | website (http://dnrmap<br>latory floodplain as de<br>March 15, 2023, to the<br>Ditch grading at each<br>014 acre of permanent<br>Construction in a Flood | s.dnr.in.gov/appsphp/fdms/) by<br>termined from approved IDNR<br>local Floodplain Administrator.<br>corner of the intersection with<br>impacts below flood elevation<br>lway (CIF) permit, because the                    |
| (EWPO).<br>included i<br>increase i<br>beneficial                              | This project qualifies as Can this project will result in an flood heights and flood lir floodplain values; they will ption or termination of eme   | ategory 3 per the curre<br>an insubstantial chang<br>nits. These minimal in<br>not result in substantia  | ent INDOT CE Manual<br>ge in their capacity to<br>creases will not result<br>al change in flood risks  | , which states the modi<br>carry flood water. This<br>in any substantial adve<br>s or damage; and they d   | and Waterway Permitting Office fications to drainage structures change could cause a minimal erse impacts on the natural and o not have substantial potential nined that this encroachment is                             |
|  | armland Agricultural Lands Prime Farmland (per NRC Total Points (from Section f 160 or greater, see CE Manu   | VII of CPA-106/AD-10   | _  | x [  | Impacts Yes No X  |
| Discuss exis   | ting farmland resources in  | the project area, impa   | acts that will occur to f  | armland, and mitigation  | n and minimization measures   |
| there is fa<br>acre of fa<br>transporta<br>erosion c<br>design red<br>NRCS did | armland as defined by the F<br>armland in the southwest<br>ation use for this project wi<br>ontrol constraints. There a<br>quirements or protection fro   | Farmland Protection Pand southeast quadrall be impacted becausare no practicable avoid erosion control cond-day time frame. No   | colicy Act adjacent to to the project and the project and the roadway ROW bidance alternatives the project. An early contained alternatives other than the project in the project and the proj | he project. The project<br>rea. The farmland tha<br>will be expanded to ac<br>hat provide adequate<br>rdination letter was sen                           | ect area (Appendix B, page 1), will likely convert less than 0.5 t will likely be converted to a ddress engineering design and geometrics to address current ton March 15, 2023, to NRCS. sussed in this document will be |
| This is t  | page 14 of 23 Project na  | ime: US 36 Inters  | ection Improvement   | Date   | e: December 29, 2023  |

| County                                  | Henry  | Route  | US 36                     |   | Des                          | . No. <u>2000152</u>                                  | ·                                     |
|---|--|--|---------------------------|---|------------------------------|---|---------------------------------------|
| SECTIO                                  | N D – CULTURAL RESO  | URCES  |                           |   |                              |   |                                       |
| M                                       | Cate inor Projects PA  | egory(ies) and Typ   | e(s)                      |   | INDOT A                      | oproval Date(s)                                       | N/A<br>X                              |
| Ful                                     | I 106 Effect Finding<br>No Historic Properties Affect  | cted X N   | o Adverse                 | Effect  | Adverse                      | Effect  |                                       |
| Eliç                                    | gible and/or Listed Resource<br>NRHP Building/Site/Districted  |  | rchaeology                | ,   | NRHP E                       | Bridge(s)   |                                       |
| ,<br>1<br>,                             | cumentation Prepared (man<br>APE, Eligibility and Effect De<br>800.11 Documentation<br>Historic Properties Report or<br>Archaeological Records Che<br>Archaeological Phase Ia Sur<br>Archaeological Phase Ic Sur<br>Other:                                     | termination Short Report ck and Assessment vey Report                                      | X<br>X<br>X               | December 28,<br>December 28,<br>May 8, 2023<br>October 13, 20 | 2023                         | May 30, 2023 November 1, 202                          |                                       |
| ı                                       | Memorandum of Agreement  | (MOA)  |                           | MOA Signatu   | ıre Dates (l                 | _ist all signatories)                                 |                                       |
| full Section 1 local newspa             | falls under the MPPA, desci<br>106, use the headings provid<br>apers. Please indicate the pu<br>work which must be complet   | led. The completion<br>ablication date, name   | of the Sec<br>e of the pa | tion 106 process<br>per(s) and the co                         | requires that<br>mment perio | nt a Legal Notice bo<br>od deadline. Includ           | e published in<br>de any further      |
| adjacent                                | Potential Effects (APE): I<br>to and/or within view of to<br>ROW (Appendix D, page   | he project (Appen  |                           |   |                              |   |                                       |
| organiza<br>Preserva<br>following       | ation with Consulting P<br>tions and individuals to<br>ation Officer (SHPO) from<br>is a list of the organization<br>re shown in bold),  | become consult IDNR Division of  | ing partie<br>Historic F  | es (Appendix [<br>Preservation (DI                            | D, page 1<br>HPA) is a o     | <ol><li>6). The Indiana<br/>designated cons</li></ol> | a State Historic<br>ulting party. The |
| • II | State Historic Preservational Delaware Tribe of Indian Eastern Shawnee Tribe of Miami Tribe of Oklahoma Peoria Tribe of Indians of Pokagon Band of Potawat Shawnee Tribe Indiana Landmarks East Henry County Historical Statement of Preserve Henry County, Ir | s of Oklahoma a Oklahoma omi Indians ern Regional Off ociety and Museu wnship Historical S | <b>ice</b><br>m           | sulting party)  |                              |   |                                       |

 County
 Henry
 Route
 US 36
 Des. No.
 2000152

- Henry County Historian
- Henry County Commissioners
- Henry County Planning Commission
- Henry County Highway Department

The following is a summary of the comments of the consulting parties following the distribution of the early coordination materials:

- November 15, 2022: An email from a Henry County Commissioner was received regarding potential safety concerns for the project (Appendix D page 22).
- November 15, 2022: An email from another Henry County Commissioner commented on the project with displeasure and recommended using a traffic light (Appendix D, page 24).
- November 15, 2022: An email from a third Henry County Commissioner received noting displeasure with the project (Appendix D, page 26).
- November 15, 2022: The Tribal Historic Preservation Officer (THPO) of the Delaware Tribe of Indians commented that there are no known religious or culturally significant sites within the selected project area and no objections to the proposed project. The THPO also added that if any archaeological or historical materials (artifacts, subsurface features, etc.) are discovered during the implementation of this project that work in the immediate area be halted until an archaeologist can view and assess the finds. Additionally, the THPO requested that if any human remains are inadvertently discovered during the project that work will cease immediately and inform the Delaware Tribe of Indians of the discovery (Appendix D, page 28).
- November 16, 2022: An email from the Indiana Landmarks Eastern Regional Office accepted the consulting party status and commented regarding concerns related to the Fall Creek District School on the northwest corner of US 36 and Raider Road (Appendix D, page 30).
- November 18, 2022: A follow-up email from a Henry County Commissioner requesting reasoning for the project after reviewing accident report data via the Henry County Highway Superintendent (Appendix D, page 33).
- November 21, 2022: The Miami Tribe of Oklahoma THPO offered no objection to the project. The THPO
  requested immediate consultation if any human remains or Native American cultural items falling under the Native
  American Graves Protection and Repatriation Act (NAGPRA) or archaeological evidence is discovered during
  any phase of the project (Appendix D, page 34).
- November 30, 2022: A letter from SHPO stated that they were unaware of any additional consulting parties that should be invited to participate in the Section 106 process beyond those whom already invited. If ROW is to be taken from a potentially historic property, owners of the property should be invited as soon as possible (Appendix D, page 35).
- December 27, 2022: The Eastern Shawnee Tribe of Oklahoma THPO stated that the project proposes no adverse
  effect or endangerment to known sites of interest of the Eastern Shawnee Tribe of Oklahoma. Additionally, the
  THPO requested if the project inadvertently discovers an archaeological site or object(s) to contact the Eastern
  Shawnee Tribe of Oklahoma, as well as appropriate state agencies within 24 hours (Appendix D, page 37).

**Archaeology:** Staff for Weintraut & Associates (W&A) conducted a Phase Ia records check on January 30, 2023, and a field reconnaissance on February 8, 2023. An *Archaeology Phase Ia Reconnaissance Report (AR)* was prepared, which identified two new archaeological sites - 12HN524 and 12HN525 (Appendix D, page 68). Both sites were found to lack deposits or features with the potential to yield important features or information that would satisfy National Register eligibility. W&A recommended project clearance and no further archeological investigations necessary for the sites.

The AR was distributed to consulting parties on October 16, 2023.

On November 1, 2023, the SHPO responded to the AR with concurrence of the finding that further archaeological investigation of the portion of sites 12HN524 and 12 HN525 surveyed for the project are unlikely to produce additional important information and no further work in these areas is warranted (Appendix D, page 54). Additionally, the SHPO noted that the unsurveyed portion of the sites remain unevaluated for inclusion in the National Register and that if the project boundaries changes at the site locates, further archaeological investigation will be necessary to delineate the site

| This is page 16 of 23 | Project name: | US 36, Intersection Improvement | Date: | December 29, 2023 |
|-----------------------|---------------|---------------------------------|-------|-------------------|
|-----------------------|---------------|---------------------------------|-------|-------------------|

| County  | Henry Rou  | te                   | US 36   |  | Des. No.                              | 2000152  |  |  |  |
|---|--|----------------------|---|--|---------------------------------------|--|--|--|--|
| 12HN524   | es and provide an evaluation. The SH<br>I and 12HN525 so that the unsurveyed p<br>consulting party responses were receiv   | ortio                |   |  |                                       |  |  |  |  |
|   | design change will necessitate an expa<br>Therefore, an Addendum to the AR will<br>t.  |                      |   |  |                                       |  |  |  |  |
|   | <b>Properties:</b> W&A prepared a <i>Historic</i> he NRHP, and no resources were recor   |                      |   |  |                                       |  |  |  |  |
| The HPSR was distributed to consulting parties on May 8, 2023. On May 12, 2023, Indiana Landmarks responded and asked if the Fall Creek District School would be undisturbed by the project. In response, project designers stated the former school/residence will be left undisturbed. Current plans would reconstruct some of its driveway and remove a few feet of its concrete sidewalk near US 36. Additionally, permanent and temporary ROW is anticipated to be required at this property. SHPO responded on May 30, 2023, and agreed with the HPSR's conclusions and recommendations (Appendix D, page 45). No other consulting party responses were received. |  |                      |   |  |                                       |  |  |  |  |
|   | ect design change that will necessitate a identification and evaluation; therefore,  |                      |   |  |                                       | not result in any additional   |  |  |  |
|   | ntation Finding: INDOT, acting on beer 28, 2023 (Appendix D, page 1).  | ehal                 | f of FHW <i>A</i>                               | A, issued a "No Histo  | oric Prope                            | rties Affected" finding on   |  |  |  |
| Consulting parties were notified of the finding on December 28, 2023 (Appendix D, page 73), and provided 30 days to comment on the effect finding. This document will be revised once the comment period has been completed.  |  |                      |   |  |                                       |  |  |  |  |
| to comme<br>legal adv<br>Comment<br>are receiv  | envolvement: Pursuant to 36 CFR 800.2 ent on FHWA's finding of "No Historic rertisement will be placed in a local puts from the public will be accepted for 30 yed during this period, the appropriate vised following the comment period. | Prop<br>blica<br>day | perties Affe<br>ation solicities<br>s following | ected". Upon release ting public input on F the publication of the | of the CE<br>HWA's So<br>notice. If a | For public involvement, a ection 106 effects finding. any substantive comments |  |  |  |
|   | · ·  |                      |   |  |                                       |  |  |  |  |
| SECTION   | N E – SECTION 4(f) RESOURCES/ SE   | CTI                  | ON 6(f) RE                                      | SOURCES  |                                       |  |  |  |  |
| Publicly<br>Publicly<br>Other (s<br><b>Wildlife an</b><br>Nationa   | d Other Recreational Land y owned park y owned recreation area school, state/national forest, bikeway, etc.) nd Waterfowl Refuges al Wildlife Refuge   | Pr                   | x   | Yes No X   |                                       |  |  |  |  |
| State V   | al Natural Landmark<br>Vildlife Area<br>lature Preserve<br>Properties  |                      |   |  |                                       |  |  |  |  |
|   | gible and/or listed on the NRHP  |                      |   |  |                                       |  |  |  |  |
|   |  |                      | luations<br>epared                              |  |                                       |  |  |  |  |
|   | mmatic Section 4(f)<br>nimis" Impact   |                      |   |  |                                       |  |  |  |  |
| This is p   | page 17 of 23 Project name: US 36, In  | nters                | ection Impr                                     | ovement  | Date:                                 | December 29, 2023  |  |  |  |

| County   | Henry  | Route   | US 36   |   | Des. No.  | 2000152  |  |
|--|--|---|---|---|---|--|--|
|  | ual Section 4(f)<br>ception included in 23 CFR 774.13  | [   |   |   |   |  |  |
| must be inclu  | grammatic Section 4(f) and "de minim<br>uded in the appendix and summarized<br>dentified various exceptions to the req   | l below. I  | Discuss proposed  | alternatives that   | satisfy the re  | quirements   | of Section 4(f).   |
| funded tra<br>recreation   | (f) of the U.S. Department of Transponsor of | o feasible  | and prudent alter   | native. The law   | applies to sig  | nificant publ  | icly owned parks,  |
| potential 4<br>13, 2022,<br>specifically<br>the project<br>for the pro-<br>use the re- | a desktop review, the aerial map of the difference of the left resources located within the 0.5 m by KEG, there is one Section 4(f) resources the high school, includes a publicity area. No direct or indirect impacts to be piect are nearly 300 feet southwest. The source in such a way that the protect abstantially impaired. Access to the factorical sources in such a way that the protect abstantially impaired.   | ile search<br>ource loca<br>owned base<br>the base<br>he projected activiti | radius. Accordinated within or adjacts as a seball field that in the ball field or supput will not use this es, features, or at | ng to additional re<br>cent to the project<br>s open for public<br>corting features a<br>resource by taki<br>tributes that qual | search and betarea. The Suse adjacent reanticipated and permanentify a resource | y the site vishenandoah<br>to the north<br>since the cut ROW and<br>for protecti | sit on October 12-<br>School complex,<br>neast quadrant of<br>construction limits<br>will not indirectly<br>on under Section |
|  | action 6/6) Involvement  |   |   | Processo  |   | Lloo   |  |
|  | ection 6(f) Involvement  |   |   | Presence  | _   | <u>Use</u><br>Yes  | No   |
| Se   | ection 6(f) Property   |   |   |   |   |  |  |
|  | tion 6(f) resources present or not pres<br>scuss the conversion approval.  | ent. Disc   | uss if any convers  | sion would occur  | as a result of  | this project.  | If conversion  |
| created to   | Land and Water Conservation Fund preserve, develop, and assure acces urchased with LWCF monies to a nor  | sibility to   | outdoor recreation  |   |   |  |  |
|  | of 6(f) properties on the INDOT ESD was roperties are located within or adjace   |   |   |   |   |  |  |
|  |  |   |   |   |   |  |  |
| SECTION  | N F – Air Quality  |   |   |   |   |  |  |
|  | TIP/TIP and Conformity Status of the the project in the most current STIP/T  |   |   | Yes   | No  |  |  |
| ls :   | the project located in an MPO Area? the project in an air quality non-attain   |   | aintenance area   | ?   | X   |  |  |
| If   | Is the project in the most current MP Is the project exempt from conformity  |   |   |   |   |  |  |
|  | If No, then: Is the project in the Transportation Is a hot spot analysis required (Co  |   | P)?   |   |   |  |  |
| Lo   | cation in STIP:  |   |   | FY 2024-2028,<br>Initial, Septemb   | er 1. 2023  |  |  |
|  | ame of MPO (if applicable):  |   | •   | ,   | ,   |  |  |
|  | cation in TIP (if applicable):   |   | ·<br>-  |   |   |  |  |
|  |  |   |   |   |   |  |  |
| This is p  | page 18 of 23 Project name: US   | 36, Inter   | section Improven  | nent  | Date:   | Decembe  | er 29, 2023  |

Version: April 2021

| County                         | Henry  | Route  | US 36   |   | Des. No.                             | 2000152  |  |  |  |  |  |
|--------------------------------|--|--|---|---|--------------------------------------|--|--|--|--|--|--|
|                                |  |  |   |   |                                      |  |  |  |  |  |  |
| Lev                            | el of MSAT Analysis requi  | red?   |   |   |                                      |  |  |  |  |  |  |
| Lev                            | vel 1a X Level 1b  | Level 2  | Level 3   | Level 4   | Level 5                              |  |  |  |  |  |  |
| ocated. Indic                  | e project is listed in the ST<br>ate whether the project is o<br>IP. Describe if a hot spot a  | exempt from a confo  | rmity determinat  | ion. If the projec                                |                                      | es) where the project is include information about   |  |  |  |  |  |
|                                | This project is included in the Fiscal Year (FY) 2024-2028 Statewide Transportation Improvement Program (STIP) (Appendix H, pages  |  |   |   |                                      |  |  |  |  |  |  |
|                                | This project is located in Henry County, which is currently in attainment for all criteria pollutants according to IDEM. Therefore, the conformity procedures of 40 CFR 93 do not apply.   |  |   |   |                                      |  |  |  |  |  |  |
|                                | This project is of a type qualifying as a categorical exclusion (Group 1) under 23 CFR 771.117(c),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. |  |   |   |                                      |  |  |  |  |  |  |
|                                |  |  |   |   |                                      |  |  |  |  |  |  |
| SECTION                        | I G - NOISE  |  |   |   |                                      |  |  |  |  |  |  |
| No                             | ise  |  |   |   |                                      | Yes No   |  |  |  |  |  |
|                                | a noise analysis required ir   | accordance with FH   | IWA regulations   | and INDOT's to                                    | raffic noise polic                   |  |  |  |  |  |  |
|                                | te Noise Analysis was app  |  | _   |   | ·                                    |  |  |  |  |  |  |
|                                |  |  |   |   |                                      |  |  |  |  |  |  |
|                                |  |  |   |   |                                      | o date and if noise impacts<br>le a statement of likelihood.   |  |  |  |  |  |
|                                | ct is a Type III project. In a<br>a formal noise analysis.   | ccordance with 23 C  | FR 772 and the  | INDOT Traffic                                     | Noise Analysis F                     | Procedure, this action does  |  |  |  |  |  |
|                                |  |  |   |   |                                      |  |  |  |  |  |  |
| SECTION                        | I H – COMMUNITY IMP  | ACTS   |   |   |                                      |  |  |  |  |  |  |
| Wil<br>Wil<br>Wil<br>Wil<br>Do | gional, Community & Nei I the proposed action com I the proposed action resu I the proposed action resu I construction activities impes the community have an If No, are steps being mades the project comply with                         | oly with the local/reging it in substantial impaired in substantial impaired to the substantial impaired to community even approved transition the to advance the co | onal developme<br>cts to community<br>cts to local tax b<br>its (festivals, fair<br>plan?<br>immunity's trans | y cohesion? ase or property s, etc.)? ition plan? | values?                              | Yes No  X  X  X  X  X  X  X  X   |  |  |  |  |  |
|                                | the project complies with to<br>d impact community events  |  |   |   |                                      | vill impact community  |  |  |  |  |  |
| October 30 community           | 0, 2023. The Plan has ad<br>v. An action item for this stra  | opted a strategy to<br>tegy is to implement  | assist with ensuinfrastructure im   | ring the built e<br>provements ne                 | environment con<br>ar the county's s | was reviewed by KEG on<br>tributes to the safety of the<br>chools (i.e., the Shenandoah<br>unity cohesion, the local tax |  |  |  |  |  |

Date: December 29, 2023

This is page 19 of 23 Project name: US 36, Intersection Improvement

|        | County  | Henry   |  | Route  | US 36   |  | Des. No.  | 2000152  |  |
|--------|---|---|--|--|---|--|---|--|--|
|        | base, or p<br>affected.   | roperty values  | s, since transportatio   | n within the c   | ommunity and  | connectivity to comm   | unity resou   | urces will not b   | e permanently  |
|        | The follow proposed regarding   | ring one special construction a construction a  | al event or festival wa<br>activities, the comm  | as noted: Chri<br>nute times to  | stmas Walk, h<br>events may I   | ecial events or festiva<br>eld in early December<br>be impacted causing<br>edia pages and coord  | annually.   | If this event is in the impact. A  | neld during the nouncements  |
|        | completion  | n. Temporary o  |  | omic impacts   | will occur due  | shall occur during c<br>to increased travel tim  |   |  |  |
|        | http://www  |   | ADATitle9Compliand   | <u>e.aspx</u> . The I  |   | 2010 ADA Si<br>ADA Comprehensive assurances with INDO  |   |  | dated, with an   |
| Ρ      | ublic Facili  | ities and Serv  | rices  |  |   |  |   |  |  |
| h<br>h | ow the impa<br>ealth facilitio  | acts have beer  | n minimized and wha<br>al facilities, public an  | at coordination  | n has occurred  | nd impacts (such as N<br>. Some examples of p<br>v services, religious in  | oublic facilit  | ies and servic   | es include   |
|        | public faci<br>by the site<br>the project<br>Shenando<br>impacts a<br>anticipated<br>Access to<br>may be re | lities within the visit on Octolet area. An each High Schore anticipated, d as constructiall properties quired. | e 0.5-mile search rad<br>ber 12-13, 2023, by<br>arly coordination lett<br>ool and Shenandoah<br>as full closure of U<br>on will likely cause d<br>will be maintained d | lius. There is of KEG. The Shater was sent in Middle School S 36 and Ralelays, but no uring construction to notify school KEG. | one public facilitenandoah schon March 15, ool. No resporter Road are adverse indirection. Please n | k B, page 1), and the ity within or adjacent to collect its locate 2023, to the Shena uses were received when so the collect impacts are expected to the coordination with the sand emergency so | o the proje<br>d adjacent<br>ndoah Sch<br>vithin the 3<br>hool is in sed. Therefo<br>utilities is | ct area, which to the norther nool Corporation of the corporation of t | was confirmed<br>ast quadrant of<br>on, as well as<br>ame. No direct<br>ct impacts are<br>are expected.<br>tility relocation |
|        | CONSTRUCTION  | on that would i   | DIOCK OF HITHE ACCESS  | •  |   |  |   |  |  |
|        | Du<br>Do  | ring the devel<br>les the project<br>YES, then:<br>Are any EJ   | Justice (EJ) (Preside opment of the project require an EJ analy populations located oject result in advers   | ct were EJ iss<br>sis?<br>I within the pro   | ues identified?<br>oject area?  | e impacts to EJ popul  | ations?   | Yes X  | X<br>X   |
| W      | as required   | l, describe hov   | v the EJ population v  | vas identified.  | Include if the  | nalysis was not requir<br>project has a disprop<br>void, minimize and mi   | ortionately   | high and adve  |  |
|        | their progr<br>Per the cu   | ams, policies,<br>irrent INDOT (  | and activities do not<br>Categorical Exclusio  | have a dispro<br>n Manual, an  | oportionately h<br>EJ Analysis is   | sipient of funding from<br>gh and adverse effect<br>required for any projes<br>of permanent ROW  | t on minori<br>ect that ha  | ty or low-incom<br>is two or more  | ne populations. relocations or   |
|        | population population   | is of EJ conce<br>may be a cou  | ern exist and wheth unty, city or town and   | er there could is called the   | d be dispropor<br>community of  | populations relative to<br>tionately high and ac<br>comparison (COC). In<br>mmunity (AC). In this  | dverse imp<br>o this proje  | acts to them.<br>ct, the COC is  | The reference Henry County.  |
|        | This is p   | age 20 of 23  | Project name:  | US 36, Inters  | section Improve   | ement  | Date:   | December 2   | 29, 2023   |

| County Henry   | Rou  | ite US 36   | De   | es. No.                              | 2000152  |   |  |  |
|--|--|---|--|--------------------------------------|--|---|--|--|
| or minority population is  | as a population of concern for a 125% of the COC. Data from the coc. D | m the 2021 ACS 5-Ye   | ar Estimates was ob  | tained fro                           | om the U.S. C                                      | Census website  |  |  |
| Table: Minority and Low  | -Income Data (2021: US Cen   |   |  |                                      |  |   |  |  |
|  | COC – Henry  | AC-1 – Census   |  |                                      |  |   |  |  |
| Percent Minority   | County<br>7  | Henry Co<br>5   | unty   |                                      |  |   |  |  |
| 125% of COC  | 9  | AC < 125%   | COC  |                                      |  |   |  |  |
| EJ Population of Cond  |  | No \ 12570  | 3000   |                                      |  |   |  |  |
| Percent Low-Income   | 14   | 8   |  |                                      |  |   |  |  |
| 125% of COC  | 17   | AC < 125%   | COC  |                                      |  |   |  |  |
| EJ Population of Cond  | cern   | No  |  |                                      |  |   |  |  |
| Therefore, AC-1 does n The census data sheets  | 58, Henry County has a perce of contain low-income popula s, map, and calculations can be the project area in the form o   | tions of EJ concern.<br>be found in Appendix I                          | , pages 34 to 37. Th   | e project                            | will result in p                                   | ositive impacts   |  |  |
| Will the proposed action result in the relocation of people, businesses or farms?  Is a BIS or CSRS required?  Number of relocations: Residences: Businesses: Farms: Other:  Scuss any relocations that will occur due to the project. If a BIS or CSRS is required, discuss the results in the discussion below.  No relocations of people, businesses, or farms will take place as a result of this project. |  |   |  |                                      |  |   |  |  |
| SECTION I – HAZAR  | SECTION I – HAZARDOUS MATERIALS & REGULATED SUBSTANCES   |   |  |                                      |  |   |  |  |
| Red Flag Investi<br>Phase I Environ<br>Phase II Environ<br>Design/Specifica<br>Date RFI concur   | mental Site Assessment (Pha<br>amental Site Assessment (Pha<br>ations for Remediation require<br>rrence by INDOT SAM (if app   | se I ESA) ase II ESA) ad? licable): November                            | 29, 2022   | X                                    |  | nd within   |  |  |
| directly adjacent t  | Include a summary of the potential hazardous material concerns found during review. Discuss in depth sites found within, directly adjacent to, or ones that could impact the project area. Refer to current INDOT SAM guidance. If additional documentation (special provisions, pay quantities, etc.) will be needed, include in discussion. Include applicable commitments.  |   |  |                                      |  |   |  |  |
| their concurrence on No<br>the project area. One N<br>One NPDES Pipe Loca  | IS and available public record<br>ovember 29, 2022 (Appendix<br>ational Pollutant Discharge E<br>tion is located within 0.5 mile<br>ion, following INDOT SAM co  | E). One Leaking Und-<br>limination System (NF<br>of the project area. I | erground Storage (L<br>PDES) facility is locat<br>Due to a project des | UST) site<br>ted within<br>ign chang | is located wi<br>0.5 mile of the<br>ge that expand | thin 0.5 mile of<br>ne project area.<br>ded the project |  |  |

This is page 21 of 23 Project name: US 36, Intersection Improvement

Date: December 29, 2023

| County                           | Henry  | Route                       | US 36  |                  | D            | es. No.     | 200018                     | 52  |
|----------------------------------|--|-----------------------------|--|------------------|--------------|-------------|----------------------------|---|
| determine                        | Concerns was completed by KEG of to be located within 0.5 mile of on for hazardous material concerns   | the project                 | area. None   | of the hazma     | at sites ide | ntified wi  |                            |   |
|                                  | Part IV  | <u> – Pern</u>              | nits and   | d Commi          | tments       | <u>}</u>    |                            |   |
| PERMITS                          | S CHECKLIST  |                             |  |                  |              |             |                            |   |
| Pe                               | rmits (mark all that apply)  |                             | Likely   | Required         |              |             |                            |   |
| IN<br>(40<br>IN<br>Mi            | my Corps of Engineers (404/Section Nationwide Permit (NWP) Regional General Permit (RGF Individual Permit (IP) Other  Department of Environmental Mad (NWP) Regional General Permit (RGF Individual Permit (IP) Isolated Wetlands Rule 5 Other  Department of Natural Resources Construction in a Floodway Navigable Waterway Permit Other  tigation Required Coast Guard Section 9 Bridge Permit (Please discuss in the discussers) | nagement  )                 |  | x                |              |             |                            |   |
| List the perm                    | its likely required for the project and  | summarize                   | why the pe   | rmits are need   | ded, includi | ng permit   | s designa                  | ted as "Other."                           |
| Stormwate of drainage Applicable | ination with INDOT EWPO on June er General Permit (CSGP) will be rece maintenance.  Precommendations provided by reso are found to be necessary, the conditions.   | uired. This<br>urce agencie | project will of the second project will of the second project will be second | not require a C  | CIF permit s | ince the p  | roject falls<br>ents secti | s under the category on of this document. |
|                                  | sponsibility of the project sponsor to   | identify and                | l obtain all r   | equired permi    | ts.          |             |                            |   |
|                                  |  |                             |  |                  |              |             |                            |   |
| ENVIRO                           | NMENTAL COMMITMENTS  |                             |  |                  |              |             |                            |   |
| List all comm<br>should be nu    | itments and include the name of agambered.   | ency/organiz                | zation reque   | esting/requiring | g the comm   | nitment(s). | Listed co                  | ommitments                                |
| a                                | the scope of work or permanent or<br>nd the INDOT District Environmenta<br>is the responsibility of the project s  | al Section wi               | II be contac   | ted immediate    | ly. (INDOT   | ESD and     | INDOT 0                    | Preenfield District)                      |
| This is p                        | page 22 of 23 Project name:  | JS 36, Inters               | ection Impr  | ovement_         |              | Date:       | _ Decer                    | mber 29, 2023_                            |

| County _ | Henry | Route _ | US 36 | Des. No. | 2000152 |
|----------|-------|---------|-------|----------|---------|
|----------|-------|---------|-------|----------|---------|

- any construction that would block or limit access (INDOT ESD)
- 3. Any work in a wetland area within right-of-way or in borrow/waste areas is prohibited unless specifically allowed in the U.S. Army Corps of Engineers permit. (INDOT ESD)
- 4. Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 5. Lighting AMM 2: When installing new or replacing existing permanent lights, use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting); or for those transportation agencies using the BUG system developed by the Illuminating Engineering Society, be as close to 0 for all three ratings with a priority of "uplight" of 0 and "backlight" as low as practicable. (USFWS)
- 6. Tree Removal AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- Tree Removal AMM2: Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree
  removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/ rail surface and outside of
  documented roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed.
  (USFWS and IDNR)
- 8. Tree Removal AMM3: Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits). (USFWS)
- 9. Tree Removal AMM 4: Do not remove documented Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or documented foraging habitat any time of year. (USFWS)
- General AMM 1: Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs. (USFWS)
- 11. Deer Creek is listed as impaired for E. Coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure. (INDOT SAM)

#### **Further Consideration:**

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

This is page 23 of 23 Project name: US 36, Intersection Improvement Date: December 29, 2023

#### Categorical Exclusion Level 2 US 36 DES 2000152, Intersection Improvement Henry County, Indiana

# **APPENDICES**

| <u>Title</u>   | <u>Page</u> |
|--|-------------|
| A: INDOT Supporting Documentation INDOT Threshold Table                | A-1         |
| B: Graphics  |             |
| Project Site Map   | B-1         |
| Project Photo Directional Map and Photos                               |             |
| Preliminary Project Plans  | B-14        |
| C: Early Coordination  | 0.4         |
| Early Coordination Sample Letter                                       |             |
| Indiana Geological and Water Survey Report                             |             |
| IDEM Wellhead Proximity Response                                       |             |
| Indiana Department of Natural Resources, Division of Fish and Wildlife |             |
| USFWS Official IPaC Species List                                       |             |
| USFWS NLAA Concurrence Letter  |             |
| D: Section 106 of the NHPA Effect Finding, 800.11 Document             | D-1         |
| E: Red Flag and Hazardous Materials                                    |             |
| Red Flag Investigation   |             |
| Updated Hazardous Material Concerns Map                                | E-12        |
| F: Water Resources   | <b>5</b> 4  |
| Approved Waters Report   |             |
| IDNR Floodplain Map  | F-12        |
| G: Public Involvement  Notice of Survey Sample Letter                  | C 1         |
| Notice of Survey Sample Letter   |             |
| H: Air Quality INDOT STIP FY 2024-2028                                 | H-1         |
| I: Additional Information  |             |
| Engineering Assessment Report  | I-1         |
| Henry County LWCF Sites  |             |
| EJ Analysis – US Census Data Sheets, Maps, Calculations                |             |

# **APPENDIX A**

INDOT Supporting Documents

#### **Categorical Exclusion Level Thresholds**

|   | PCE   | Level 1   | Level 2                                  | Level 3                            | Level 4 <sup>1</sup>  |
|---|---|---|--|------------------------------------|---|
| Section 106   | Falls within<br>guidelines of<br>Minor Projects PA                                      | "No Historic<br>Properties<br>Affected"                                     | "No Adverse<br>Effect"                   | -                                  | "Adverse<br>Effect"Or<br>Historic Bridge<br>involvement <sup>2</sup>            |
| Stream Impacts <sup>3</sup>   | No construction in waterways or water bodies  | < 300 linear<br>feet of stream<br>impacts                                   | ≥300 linear<br>feet of stream<br>impacts | -                                  | USACE<br>Individual 404<br>Permit <sup>4</sup>                                  |
| Wetland Impacts <sup>3</sup>  | No adverse impacts to wetlands  | < 0.1 acre  | -  | < 1.0 acre                         | ≥ 1.0 a cre   |
| Right-of-way <sup>5</sup>   | Property<br>acquisition for<br>preservation only<br>or none                             | < 0.5 acre  | ≥ 0.5 acre                               | -                                  | -   |
| Relocations   | None  | -   | -  | < 5                                | ≥5  |
| Threatened/Endangered<br>Species (Species Specific<br>Programmatic for Indiana bat<br>& northern long eared bat)* | "No Effect", "Not<br>likely to Adversely<br>Affect" (With<br>select AMMs <sup>6</sup> ) | "Not likely to<br>Adversely<br>Affect" (With<br>any AMMs or<br>commitments) | -  | "Likely to<br>Adversely<br>Affect" | Project does not<br>fall under<br>Species Specific<br>Programmatic <sup>7</sup> |
| Threatened/Endangered<br>Species (Any other species)*   | Falls within guidelines of USFWS 2013 Interim Policy or "No Effect"                     | "Not likely to<br>Adversely<br>Affect"                                      | -  | -                                  | "Likely to<br>Adversely<br>Affect"  |
| Environmental Justice   | No<br>disproportionately<br>high and adverse<br>impacts                                 | -   | -  | -                                  | Potential <sup>8</sup>  |
| Sole Source Aquifer   | No Detailed<br>Groundwater<br>Assessment  | 1   | -  | -                                  | Detailed<br>Groundwater<br>Assessment   |
| Floodplain  | No Substantial Impacts  | -   | -  | -                                  | Substantial<br>Impacts  |
| Section 4(f) Impacts  | None  | 1   | -  | -                                  | Any <sup>9</sup>  |
| Section 6(f) Impacts  | None  | -   | -  | -                                  | Any   |
| Permanent Traffic Alteration  | None  | -   | -  | -                                  | Any   |
| Noise Analysis Required   | No  | -   | -  | -                                  | Yes   |
| Air Quality Analysis Required   | No  | -   | -  | -                                  | Yes <sup>10</sup>   |
| <ul> <li>Approval Level</li> <li>District Env. (DE)</li> <li>Env. Serv. Div. (ESD)</li> <li>FHWA</li> </ul>       | Concurrence by<br>DE or ESD   | DE or ESD   | DE or ESD                                | DE and/or<br>ESD                   | DE and/or<br>ESD; and<br>FHWA   |

<sup>&</sup>lt;sup>1</sup> Coordinate with INDOT Environmental Services Division. INDOT will then coordinate with the appropriate FHWA Environmental Specialist.

Note: Substantial public or agency controversy may require a higher-level NEPA document.

<sup>&</sup>lt;sup>2</sup> Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement.

<sup>&</sup>lt;sup>3</sup> Total permanent impacts to streams (linear feet) and wetlands (acres).

<sup>&</sup>lt;sup>4</sup> US Army Corps of Engineers Individual 404 Permit

<sup>&</sup>lt;sup>5</sup> Total permanent and temporary right-of-way. This does not include reacquisition of existing apparent right-of-way.

<sup>&</sup>lt;sup>6</sup> Avoidance and Mitigation Measures (AMMs) determined by the IPAC determination key to be required that are not tree AMMs, bridge AMMs, or structure AMMs. <sup>7</sup> Projects that do not fall under a Species Specific Programmatic and results in a "Likely to Adversely Affect". Other findings can be processed as a lower level CE.

<sup>&</sup>lt;sup>8</sup> Potential for causing a disproportionately high and adverse impact.

<sup>&</sup>lt;sup>9</sup> Section 4(f) use resulting in an Individual, Programmatic, or *de minimis* evaluation. The only exception is a *de minimis* evaluation for historic properties (Effective January 2, 2020). If a historic property *de minimis* and no other use, mark the *None* column.

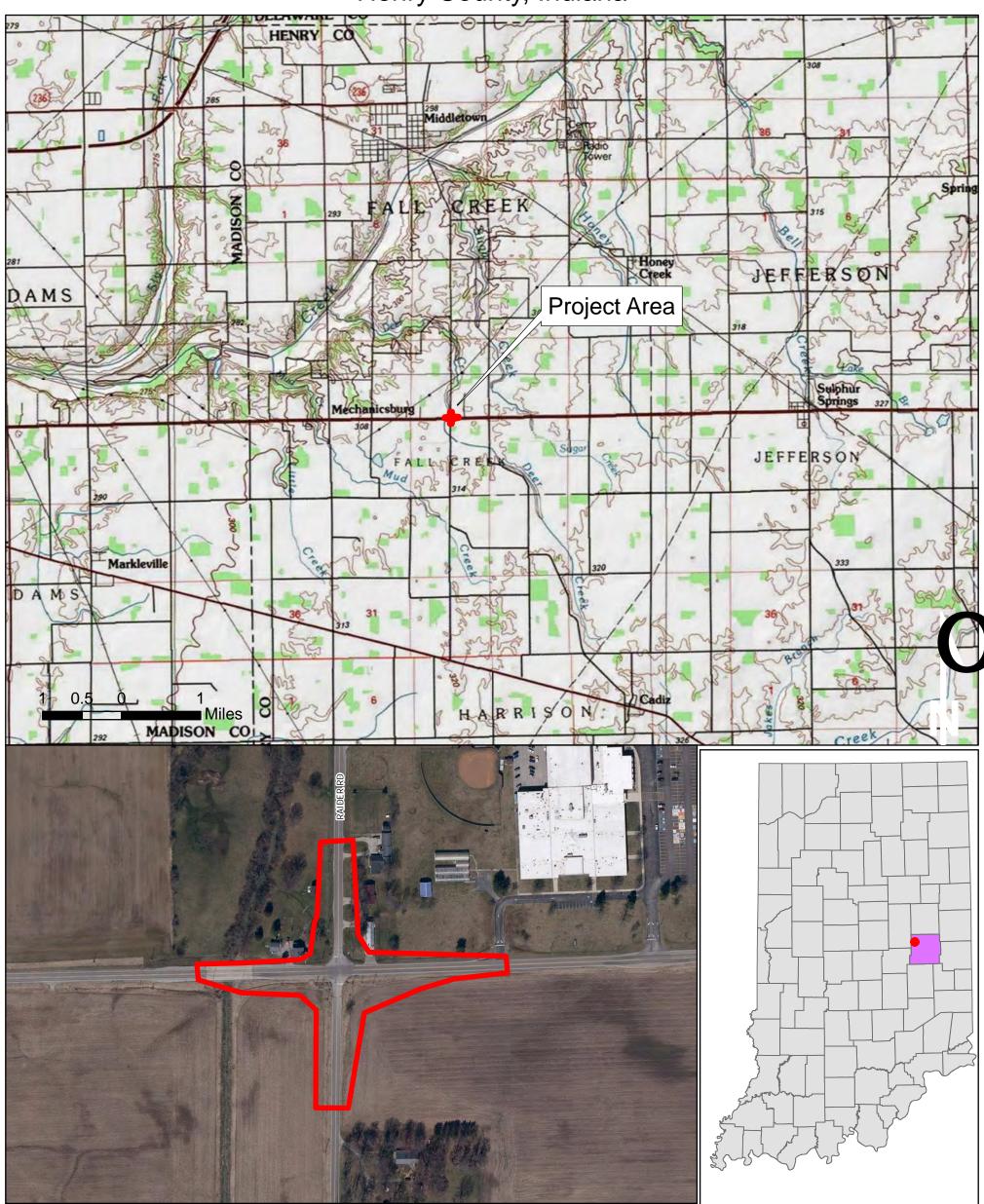
 $<sup>^{\</sup>rm 10}$  Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

<sup>\*</sup> Includes the threatened/endangered species critical habitat

# APPENDIX B

Graphics

# General Site Map US 36 & Raider Road Intersection Des. No. 2000152, Intersection Improvement Project Henry 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.

MIDDLETOWN QUADRANGLE INDIANA 7.5 MINUTE SERIES (TOPOGRAPHIC)

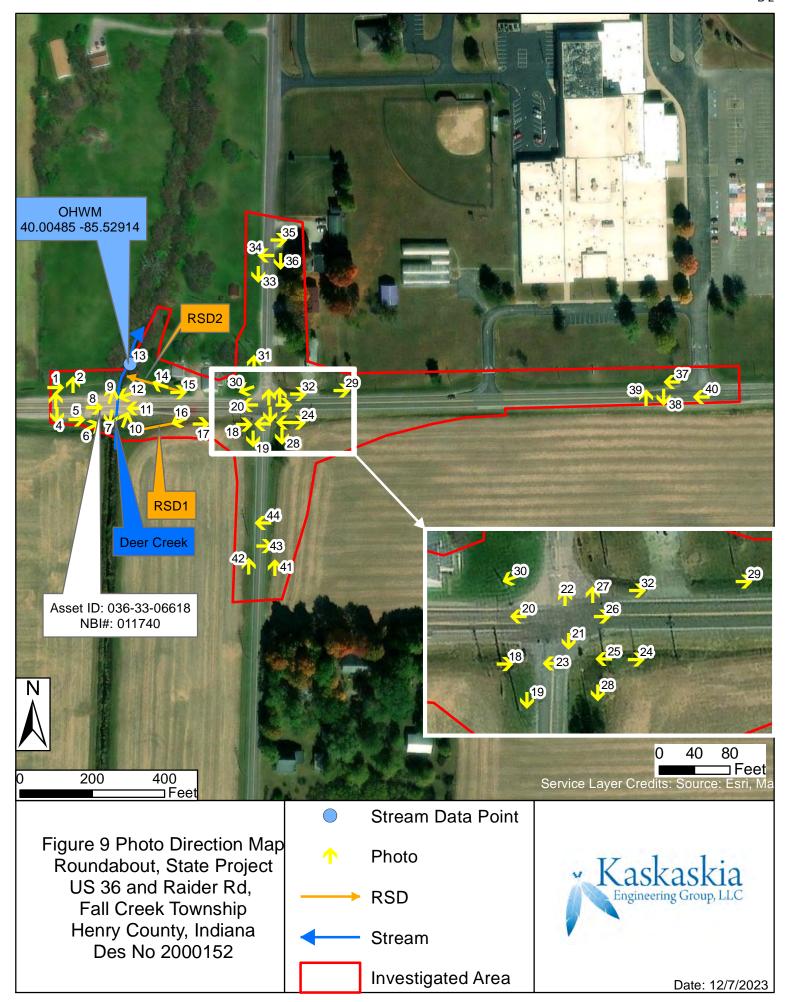
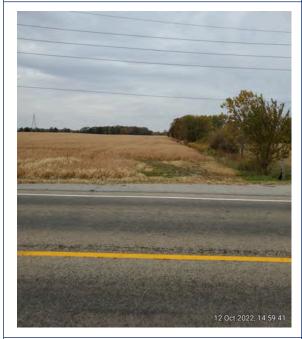






Photo 1:Looking east, toward Deer Creek, along the grassy swale on the north side of US 36.

Photo 2 :Looking north at grassland/pastureland, north of US 36, from the west end of the investigated area.



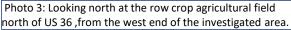




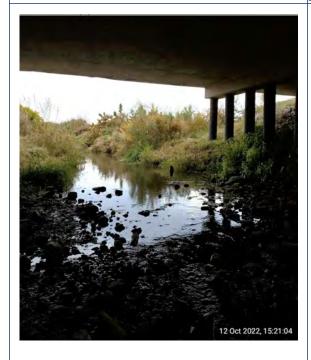
Photo 4: Looking south at the row crop agricultural field south of US 36, from the west end of the investigated area.





Photo 5: Looking east along the slope and grassy swale on the south side of US 36 toward Deer Creek.

Photo 6: Looking northeast (downstream) toward the opening of the bridge (036-33-06618/NBI# 011740) over Deer Creek from the south side of US 36.





is no riparian cover over Deer Creek downstream.

Photo 7: Looking southwest (upstream) toward the opening | Photo 8: Looking east at the east slab from the west side of of the bridge (from the center) from under the bridge. There the bridge. There was what appears to be an Eastern phoebe nest on the face of the slab.



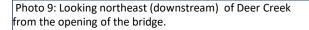




Photo 10: Looking northeast at the Eastern phoebe bird nests on the east slab of the bridge.





Photo 11: Looking west at the Eastern phoebe nest on the slab from the east side of the bridge.

Photo 12: Looking southwest at the Eastern phoebe nests on the slab from the northeast side of the bridge



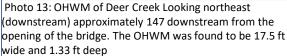




Photo 14: Looking northwest along RSD2 on the north side of US 36 toward Deer Creek.



Photo 15: Looking northeast at the utility pole, the residential drive, and the corner of the residence on the northwest side of US 36.



Photo 16: Looking southwest along RSD1 toward Deer Creek.



Photo 17: Looking east along the mown grassy swale on the south side of US 36 toward the intersection of US 36 and Raider Rd.



Photo 18: Looking east at the west opening of the pipe that goes under Raider Rd from the southwest corner of the intersection of US 36 and Raider Rd.



Photo 19: Looking south at the north opening of the pipe under the field entrance in the southwest corner of the intersection of US 36 and Raider Rd and along the mown grassy verge on the west side of Raider Rd.



Photo 20: Looking southwest along US 36 from the intersection of US 36 and Raider Rd.

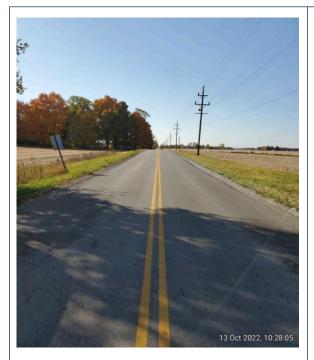
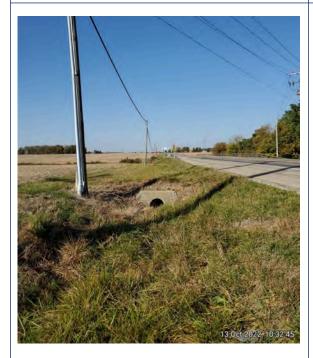




Photo 21: Looking south along Raider Rd from the intersection of US 36 and Raider Rd.

Photo 22: Looking north along Raider Rd from the intersection of US 36 and Raider Rd.



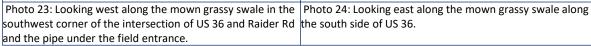








Photo 25: Looking west at the east pipe opening of the pipe that crosses under Raider Rd from the southeast corner of the US 36 and Raider Rd intersection.

Photo 26: Looking east along US 36 from the intersection of US 36 and Raider Rd.



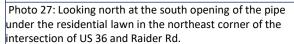




Photo 28: Looking south along the vegetated swale on the east side of Raider Rd from the southeast corner of the intersection of US 36 and Raider Rd.





Photo 29: Looking east along the mown grassy swale and at the west paved drive for Shenandoah High School on the north side of US 36 from the northeast corner of US 36 and Raider Rd.

Photo 30: Looking southwest along the mown grassy swale on the northeast side of US 36 from the northeast corner of US 36 and Raider Rd.



Photo 31: Looking north at the south opening of a pipe in the residential property on the west side of Raider Rd from north of the northwest intersection of Us 36 and Raider Rd.



Photo 32: Looking east at the west opening of the pipe under the drive of the indeterminate type property in the northeast corner of the intersection of US 36 and Raider Rd.





Photo 33: Looking south along the mown grassy swale on the west side of Raider Rd from the north end of the investigated area.

Photo 34: Looking west at the mown residential yard on the west side of Raider Rd from the north end of the investigated area.

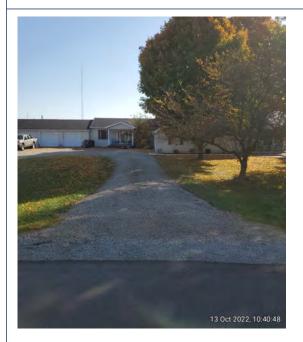


Photo 35: Looking east at the residential area on the east side of Raider Rd from the north end of the investigated area.



Photo 36: Looking south along the mown grassy swale on the west side of Raider Rd from the north end of the investigated area.



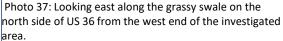




Photo 38: Looking south at the row crop agricultural land on the south side of US 36 from the north end of the investigated area.

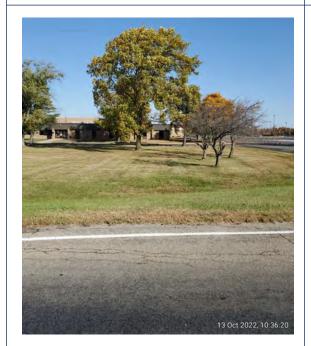


Photo 39: Looking north at Shenandoah High School on the north side of US 36 from the west end of the investigated area.



Photo 40: Looking east along the grassy swale on the south side of US 36 from the west end of the investigated area.

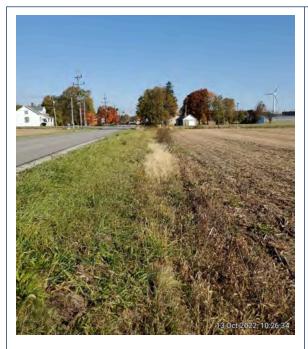




Photo 41: Looking north along the grassy swale on the north side of Raider Rd from the south end of the investigated area.

Photo 42: Looking north along the grassy swale on the south side of Raider Rd from the south end of the investigated area.

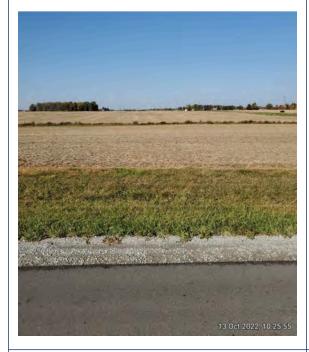


Photo 43: Looking east at the row crop agricultural land on the north side of Raider Rd from the west end of the investigated area.



Photo 44: Looking west at the row crop agricultural land on the south side of Raider Rd from the west end of the investigated area.

| PROJECT  | DESIGNATION |
|----------|-------------|
| 2000152  | 2000152     |
| CONTRACT |             |
| R-43507  |             |

## INDIANA DEPARTMENT OF TRANSPORTATION



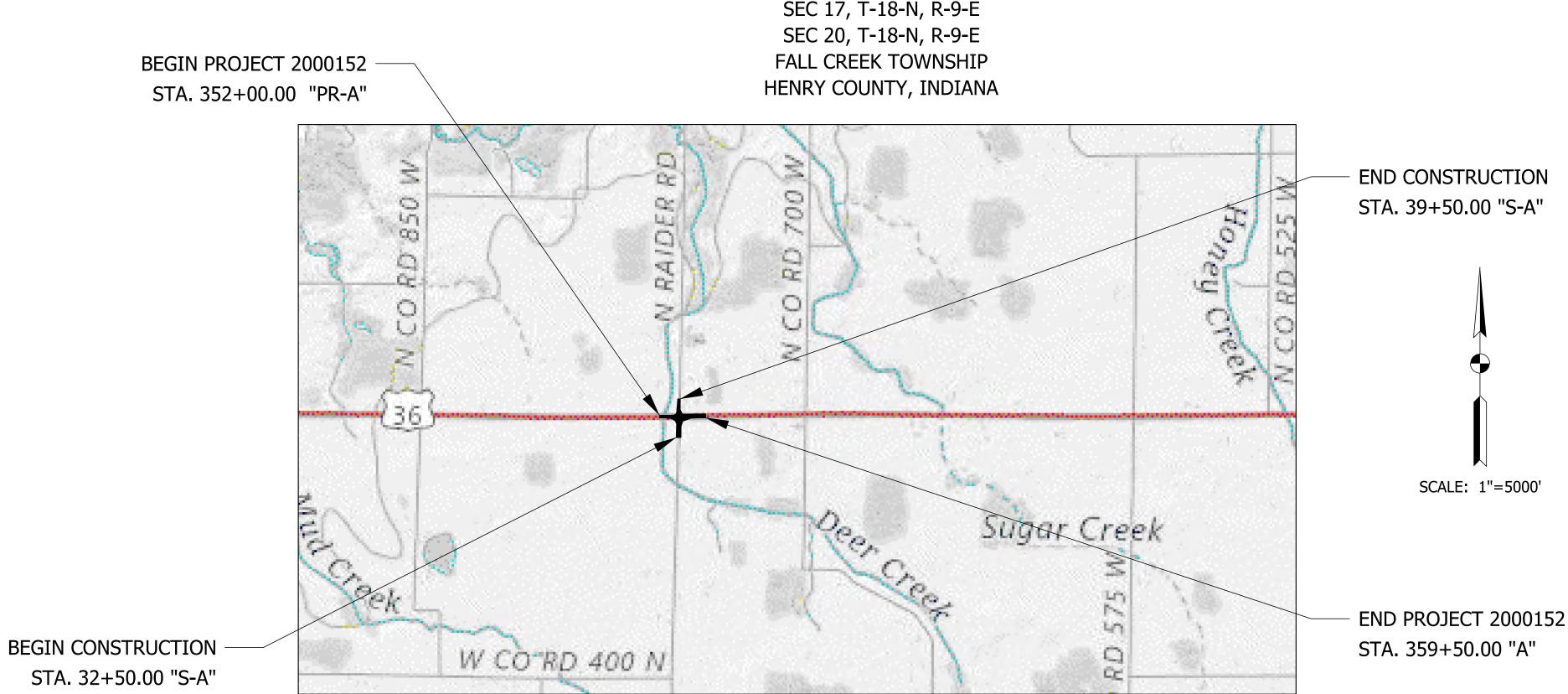
# ROAD PLANS

LOCATION: RAIDER RD ROUNDABOUT AT US 36 - INTERSECTION IMPROVEMENT PROJECT NO. 2000152 PE

2000152 R/W 2000152 CONST.

Intersection conversion to Roundabout at US 36 and Raider Road

LOCATED IN SECTIONS SEC 17, T-18-N, R-9-E SEC 20, T-18-N, R-9-E FALL CREEK TOWNSHIP HENRY COUNTY, INDIANA



| FFIC DA | TA - US 36       |
|---------|------------------|
| (2025)  | 4,360 V.P.D.     |
| (2045)  | 4,811 V.P.D.     |
| (2045)  | 490 V.P.H.       |
| IBUTION | 51%              |
|         | 16% A.A.D.T.     |
|         |                  |
|         | (2025)<br>(2045) |

## **DESIGN DATA**

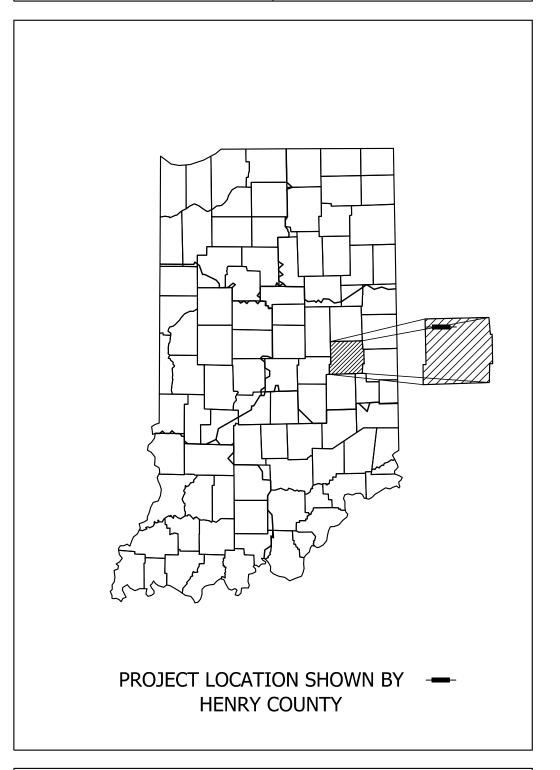
| DESIGN SPEED              | 55 M.P.H.        |
|---------------------------|------------------|
| PROJECT DESIGN CRITERIA   | 3R (NON-FREEWAY) |
| FUNCTIONAL CLASSIFICATION | MAJOR COLLECTOR  |
| RURAL/URBAN               | RURAL            |
| TERRAIN                   | LEVEL            |
| ACCESS CONTROL            | NONE             |
| •                         | ·                |

## TRAFFIC DATA - RAIDER ROAD

| A.A.D.T.           | (2025)  | 1,909 V.P.D. |
|--------------------|---------|--------------|
| A.A.D.T.           | (2045)  | 1,947 V.P.D. |
| D.H.V.             | (2045)  | 214 V.P.H.   |
| DIRECTIONAL DISTRI | IBUTION | 44%          |
| TRUCKS             |         | 20% A.A.D.T. |
|                    |         |              |

## **DESIGN DATA**

| DESIGN SPEED              | 55 M.P.H.        |
|---------------------------|------------------|
| PROJECT DESIGN CRITERIA   | 3R (NON-FREEWAY) |
| FUNCTIONAL CLASSIFICATION | MAJOR COLLECTOR  |
| RURAL/URBAN               | RURAL            |
| TERRAIN                   | LEVEL            |
| ACCESS CONTROL            | NONE             |



LATITUDE: 40°00'16" N LONGITUDE: 85°31'41" W

| GROSS LENGTH: | 0.13 MI. |
|---------------|----------|
| TOTAL LENGTH: | <u> </u> |
| MAX. GRADE:   | <u> </u> |
|               |          |

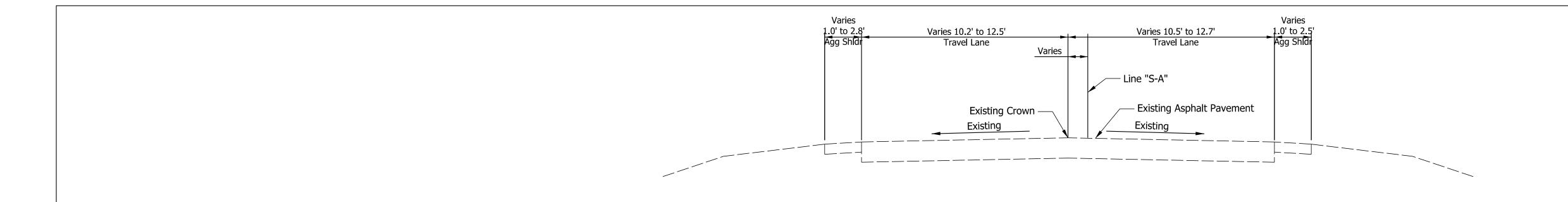
HUC: 05120201100020

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2024 TO BE USED WITH THESE PLANS.

| DESIGNATION |         |        |    |  |
|-------------|---------|--------|----|--|
|             | 2000152 |        |    |  |
|             | SHEETS  |        |    |  |
|             | 1       | 38     |    |  |
| CONTRACT    | PROJECT |        |    |  |
| R-43507     |         | 200015 | 52 |  |

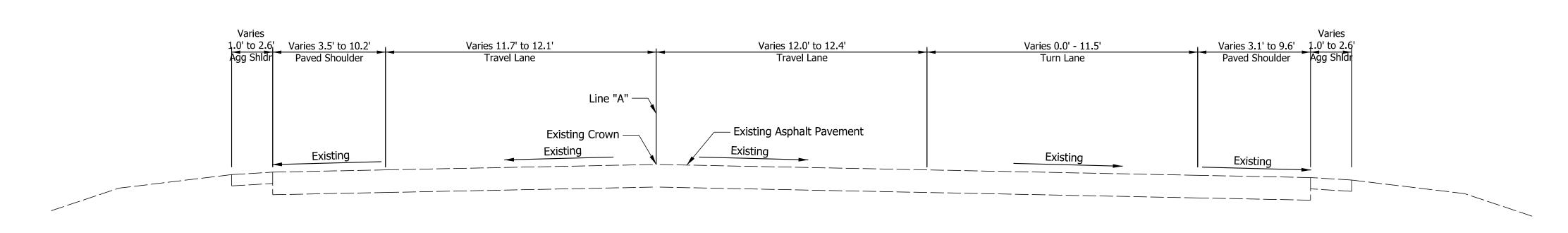


STAGE 2 09/06/23 PLANS PREPARED BY: FISHBECK (317) 577-9050 PHONE NUMBER "THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT." 09/06/23 DATE CERTIFIED BY: FOR LETTING: DATE INDIANA DEPARTMENT OF TRANSPORTATION



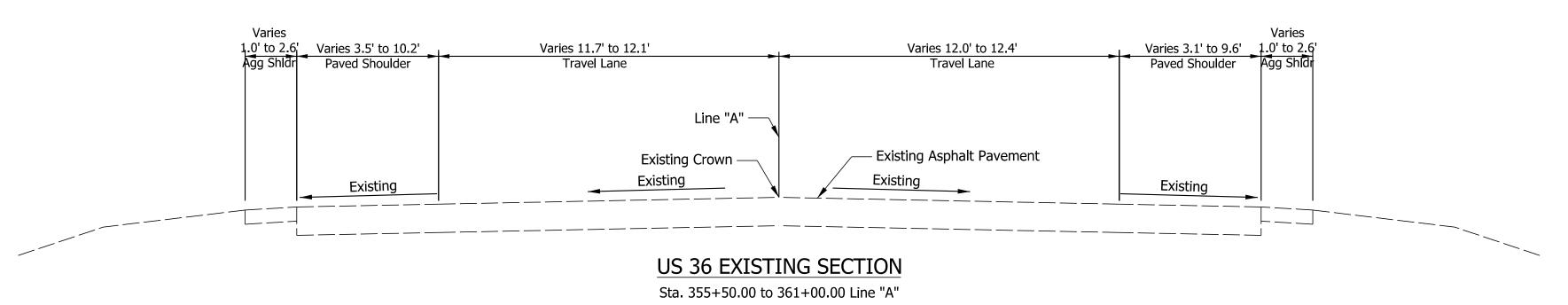
## N RAIDER RD EXISTING SECTION

Sta. 32+00.00 to 40+00.00 Line "S-A"



## US 36 EXISTING SECTION

Sta. 353+15.26 to 355+50.00 Line "A"

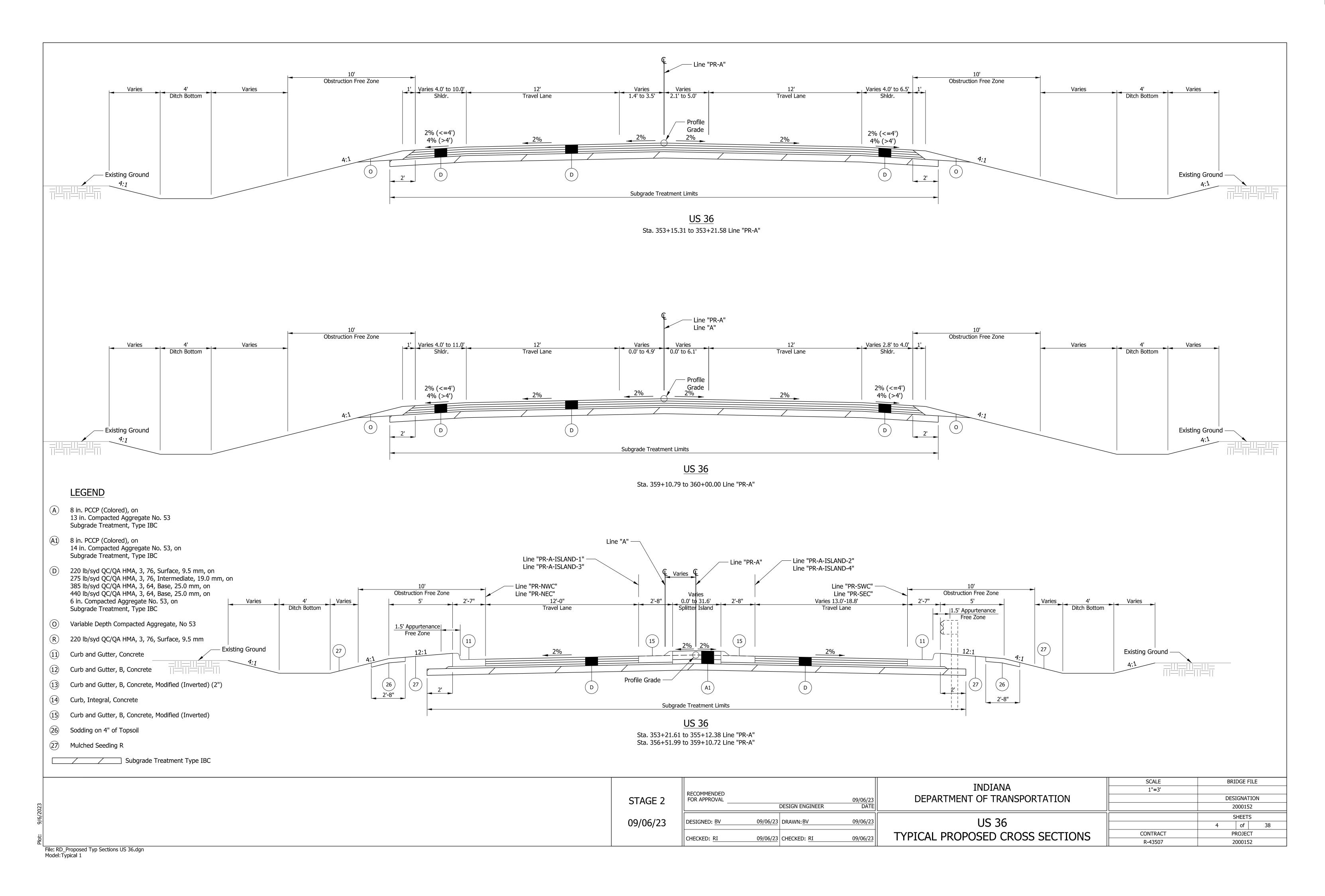


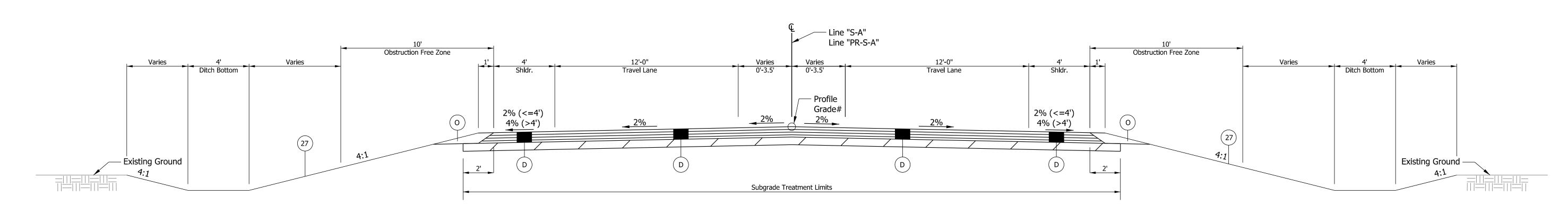
| Note: Existing typical sections shown for reference i | information. |
|---|--------------|
|---|--------------|

| STAGE 2  |
|----------|
| 09/06/23 |

| RECOMMENDED FOR APPROVAL 09/06/23 DESIGN ENGINEER DATE |          | 09/06/23<br>DATE | INDIANA<br>DEPARTMENT OF TRANSPORTATION | SCALE<br>1"=3'            | DE                  | RIDGE FI<br>SIGNAT:<br>2000152 | ION                |   |    |
|--|----------|------------------|---|---------------------------|---------------------|--------------------------------|--------------------|---|----|
| DESIGNED: BV   | 09/06/23 | DRAWN: BV        | 09/06/23                                |                           |                     | 3                              | SHEETS             |   | 38 |
| CHECKED: RI  | 09/06/23 | CHECKED: RI      | 09/06/23                                | EXISTING TYPICAL SECTIONS | CONTRACT<br>R-43507 |                                | PROJECT<br>2000152 | Т |    |

File: RD\_Existing Typ Sections.dgn Model:Typical 1





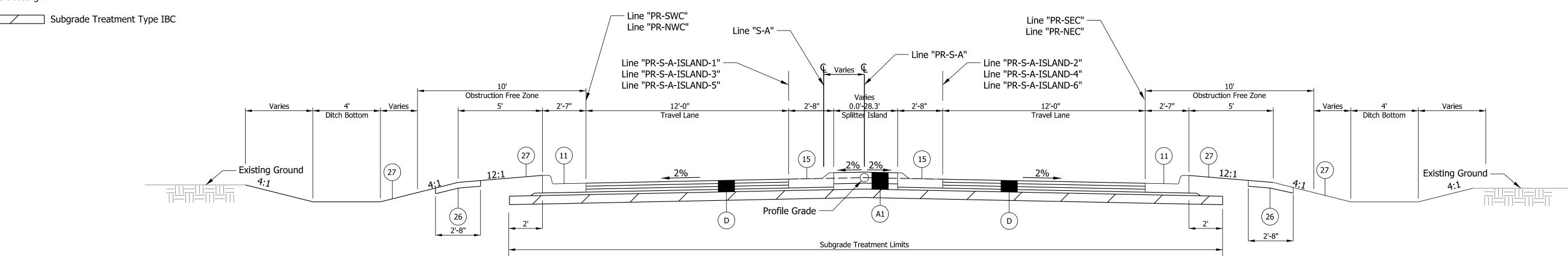
#### Raider Rd

Sta. 32+30.00 to 32+63.11 Line "S-A" Sta. 32+63.11 to 32+96.62 Line "PR-S-A" Sta. 38+20.34 to 39+40.35 Line "PR-S-A" Sta. 39+21.02 to 39+50.00 Line "S-A"

# - Proposed Crown Transitions from 1.82' Lt. Sta. 32+30.00 "S-A" to 0.0' Sta. 33+35.44 "PR-S-A" Proposed Crown Transitions from 0.0' Sta. 38+50.61 "PR-S-A" to 1.75' Lt. Sta. 39+50.00 "S-A"

#### **LEGEND**

- A 8 in. PCCP (Colored), on 13 in. Compacted Aggregate No. 53 Subgrade Treatment, Type IBC
- A1) 8 in. PCCP (Colored), on 14 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type IBC
- 220 lb/syd QC/QA HMA, 3, 76, Surface, 9.5 mm, on 275 lb/syd QC/QA HMA, 3, 76, Intermediate, 19.0 mm, on 385 lb/syd QC/QA HMA, 3, 70, Intermediate, 19.0 m 385 lb/syd QC/QA HMA, 3, 64, Base, 25.0 mm, on 440 lb/syd QC/QA HMA, 3, 64, Base, 25.0 mm, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type IBC
- Variable Depth Compacted Aggregate, No 53
- 220 lb/syd QC/QA HMA, 3, 76, Surface, 9.5 mm
- Curb and Gutter, Concrete
- Curb and Gutter, B, Concrete
- (13) Curb and Gutter, B, Concrete, Modified (Inverted) (2")
- Curb, Integral, Concrete
- Curb and Gutter, B, Concrete, Modified (Inverted)
- Sodding on 4" of Topsoil
- Mulched Seeding R

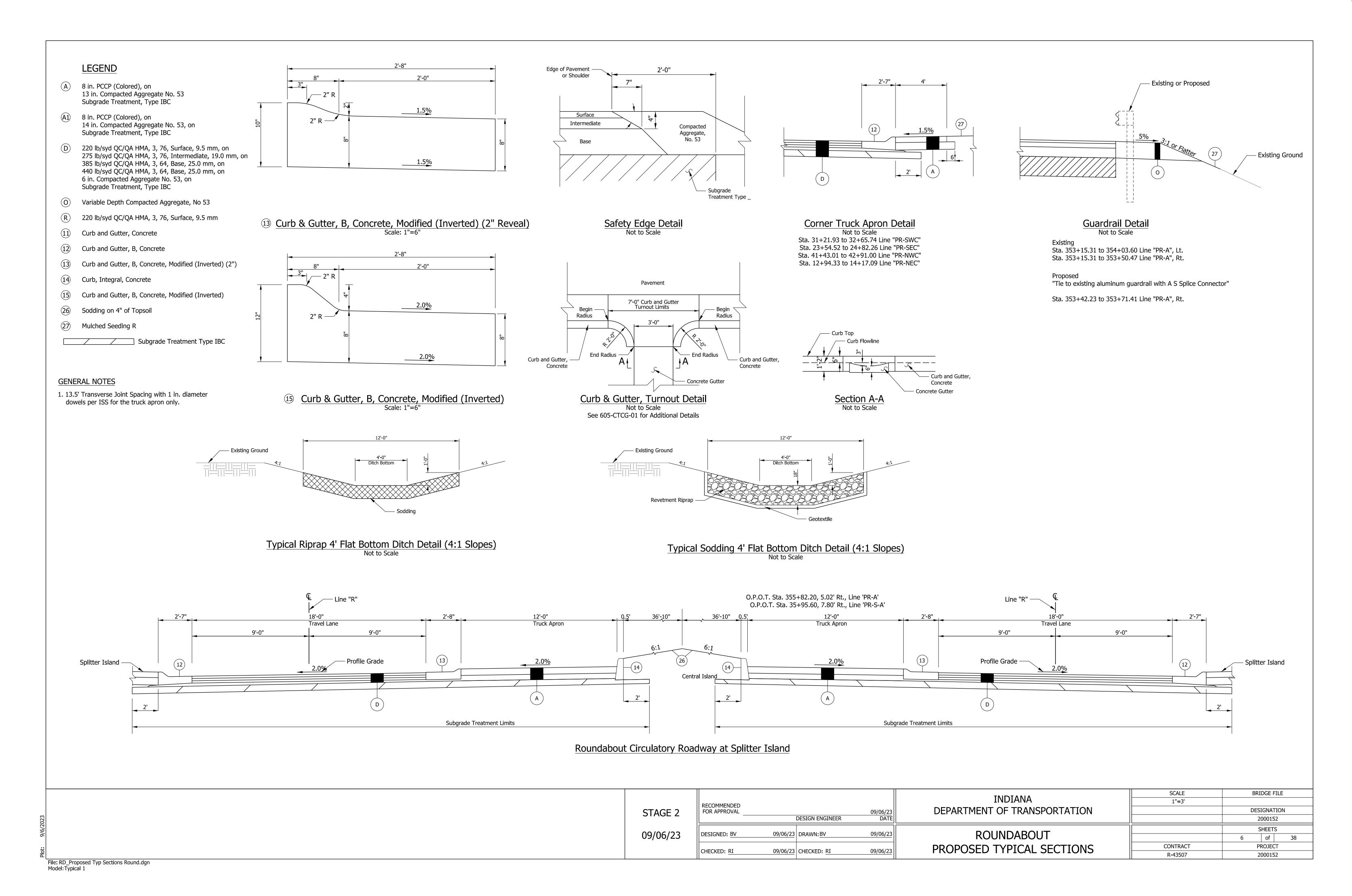


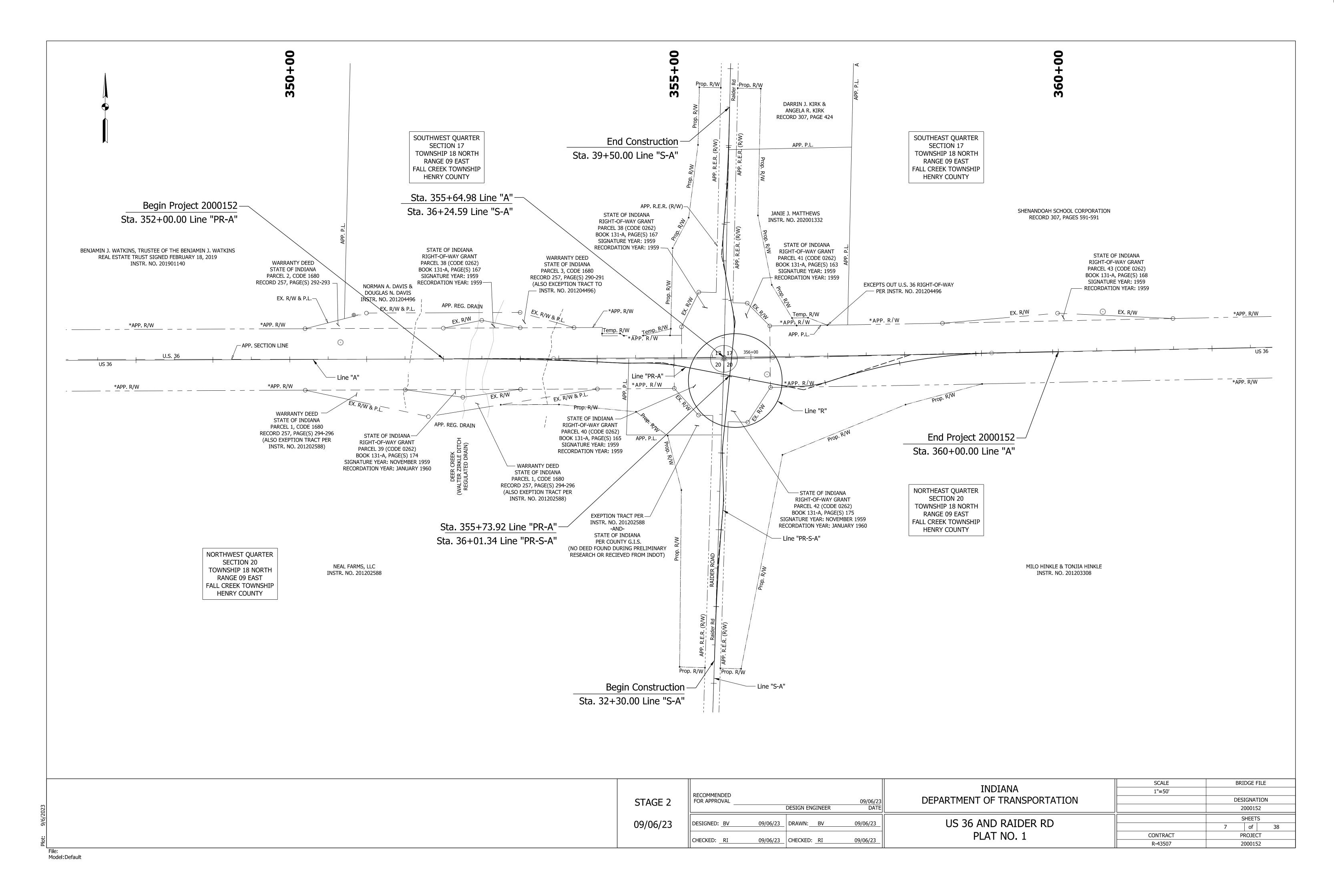
#### Raider Rd

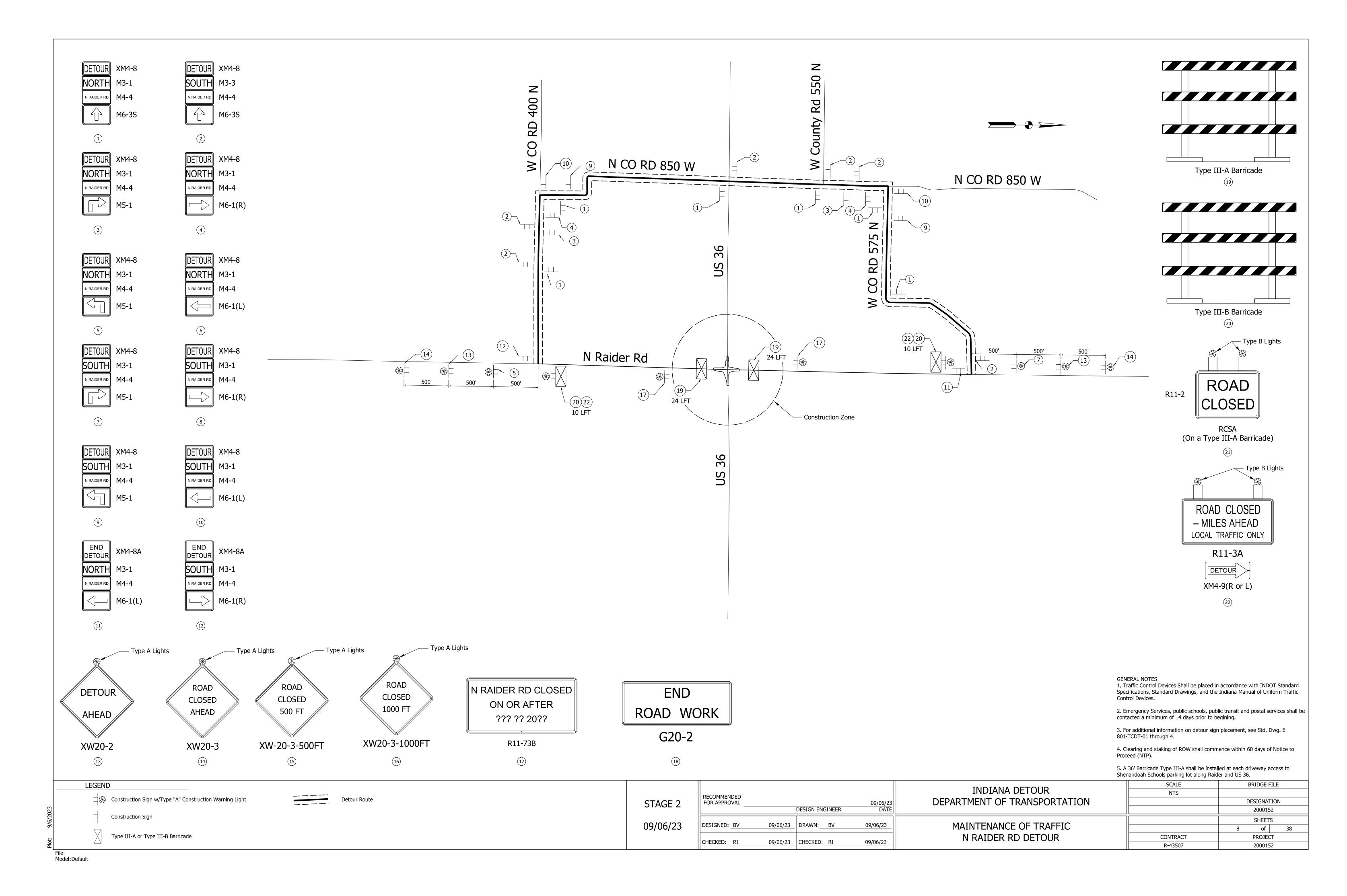
Sta. 32+96.55 to 35+26.04 Line "PR-S-A" Sta. 36+65.11 to 38+20.34 Line "PR-S-A" Sta. 38+40.35 to 39+21.02 Line S-A"

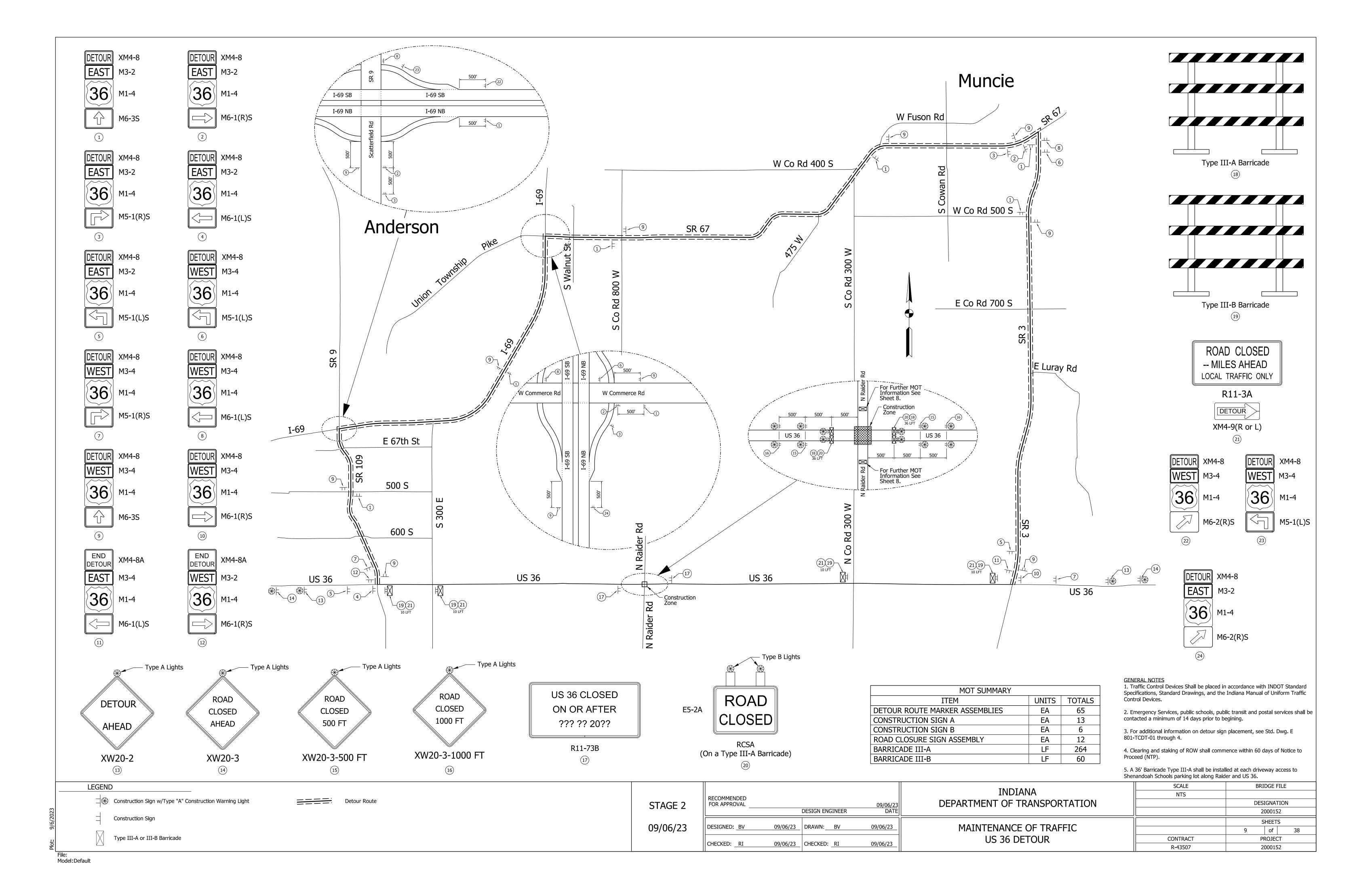
| STAGE 2  |  |
|----------|--|
| 09/06/23 |  |

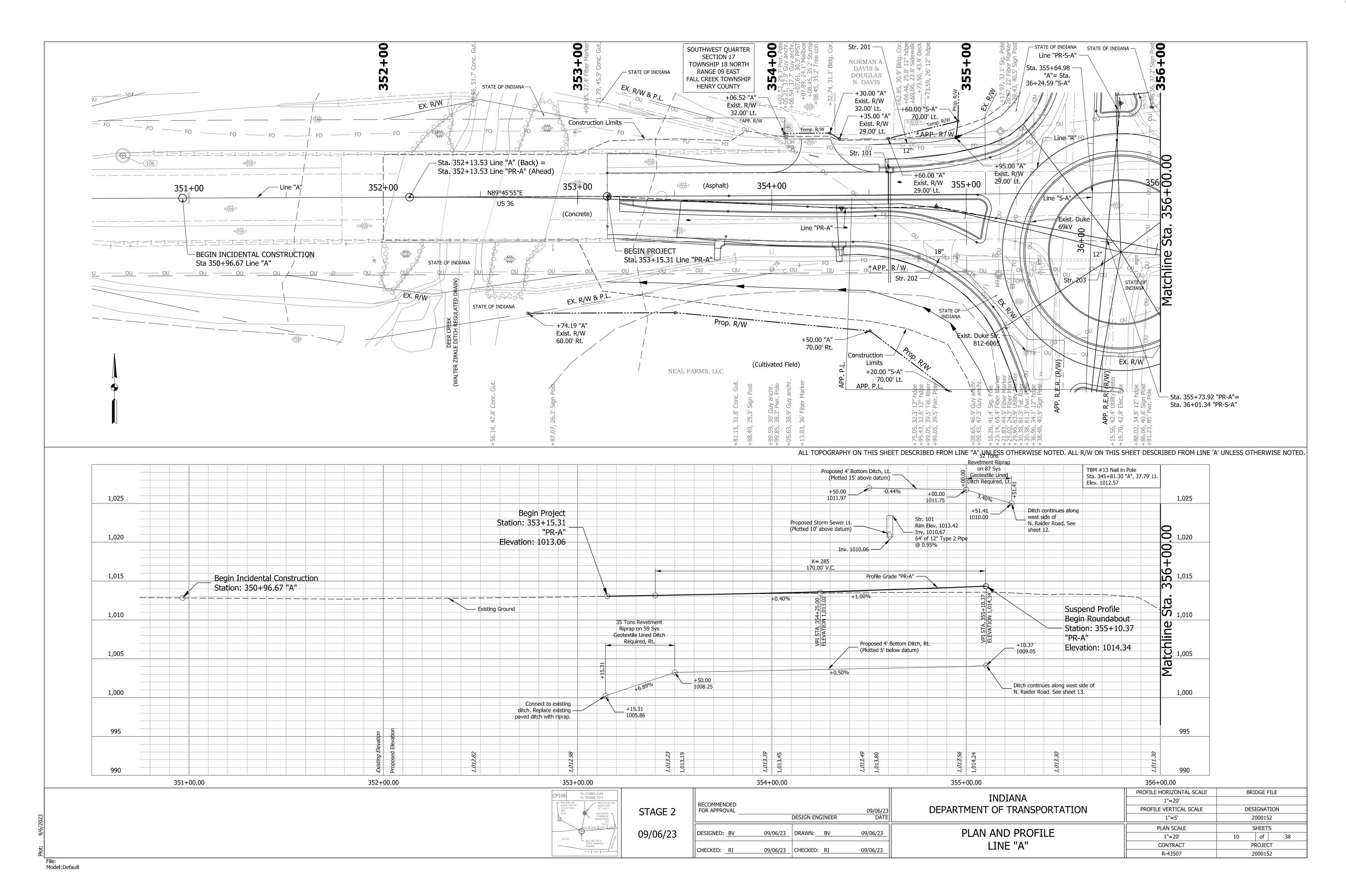
|              |                             |                      | TAIDTANIA                       | SCALE    | BRIDGE FILE |
|--------------|-----------------------------|----------------------|---------------------------------|----------|-------------|
| RECOMMENDED  | DECOMMENDED                 |                      | INDIANA                         | 1"=3'    |             |
| FOR APPROVAL |                             | 09/06/23             | DEPARTMENT OF TRANSPORTATION    |          | DESIGNATION |
|              | DESIGN ENGINEER             |                      |                                 |          | 2000152     |
|              | 00/05/20                    | DRAWN: BV 09/06/23   | DAIDED DOAD                     |          | SHEETS      |
| DESIGNED: BV | 09/06/23 DRAWN: BV          |                      | 23 RAIDER ROAD                  |          | 5 of 38     |
| CHECKED DI   | 00/05/22 CHECKED DI         | NE CI/ED DI 00/06/20 | TYPICAL PROPOSED CROSS SECTIONS | CONTRACT | PROJECT     |
| CHECKED: RI  | 09/06/23 CHECKED: <u>RI</u> | 09/06/23             | ITTICAL INOLOSED CROSS SECTIONS | P-43507  | 2000152     |

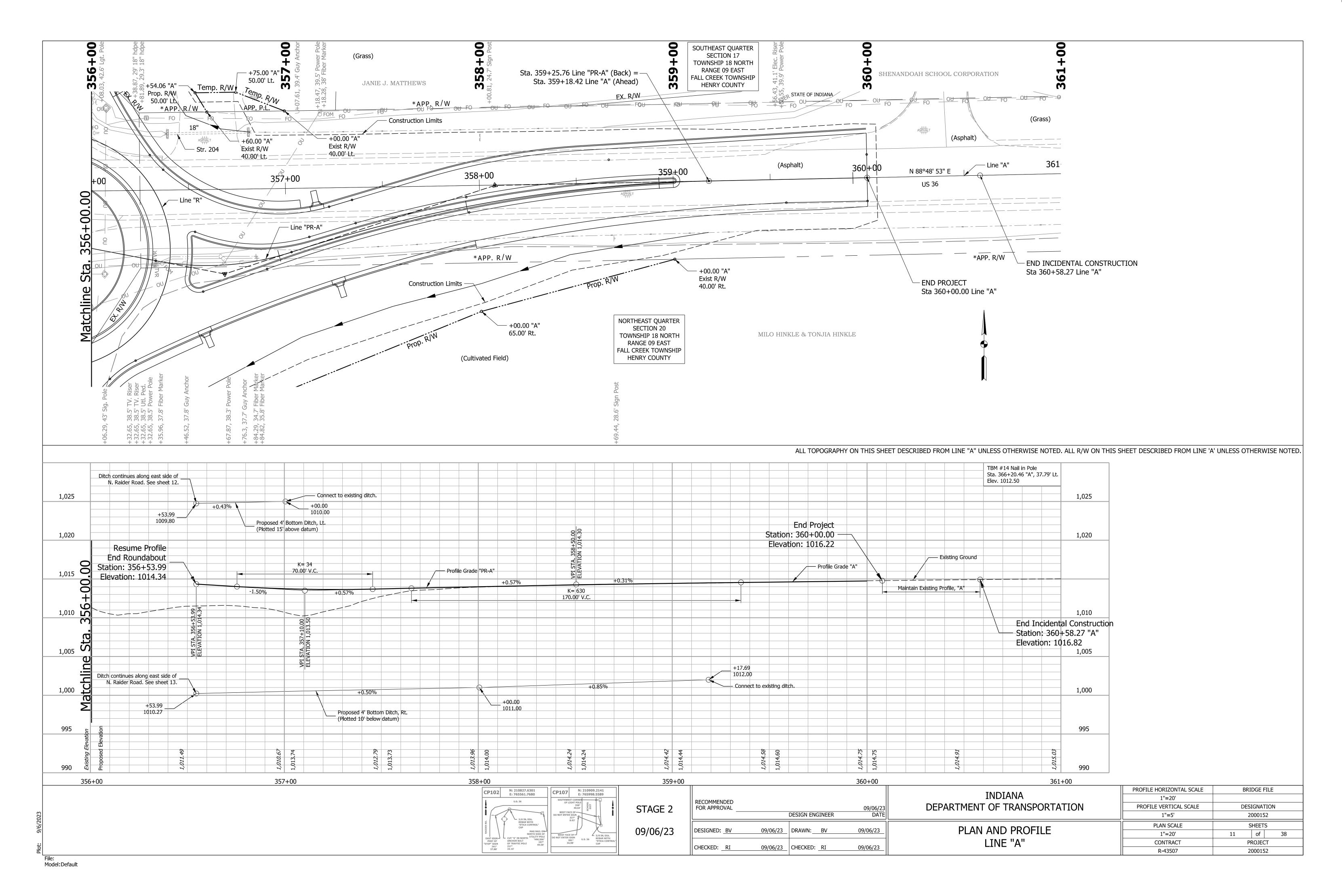




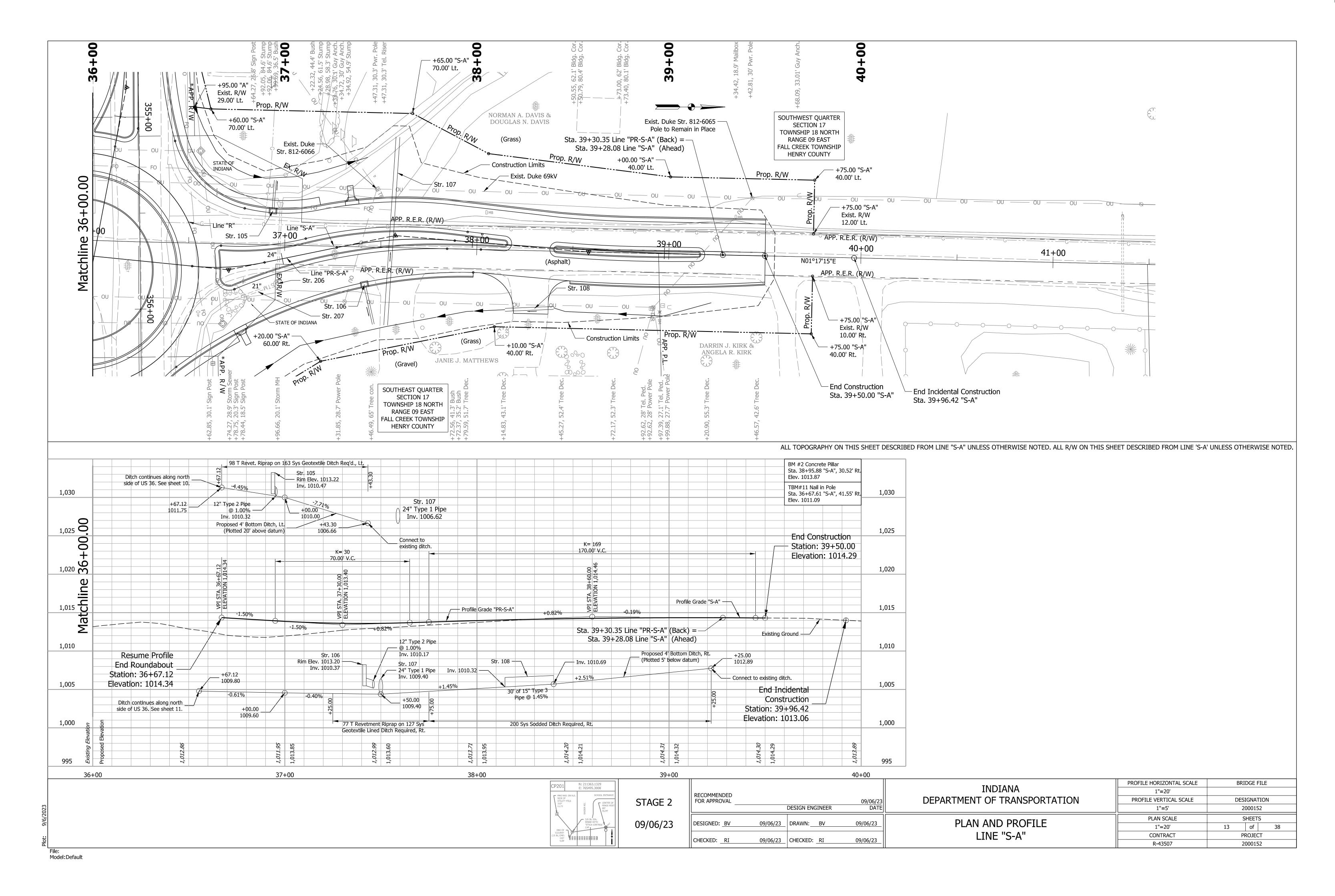


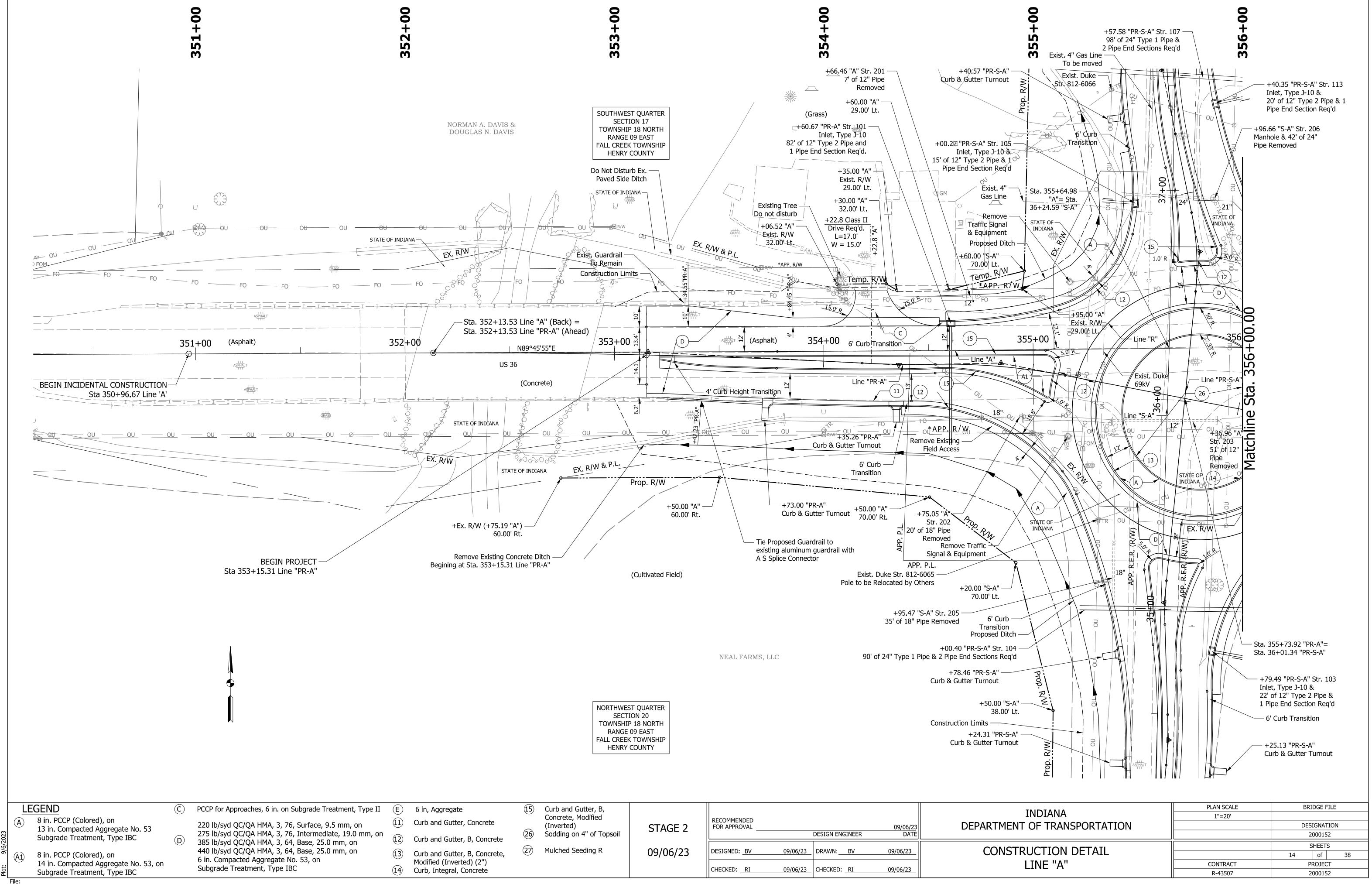


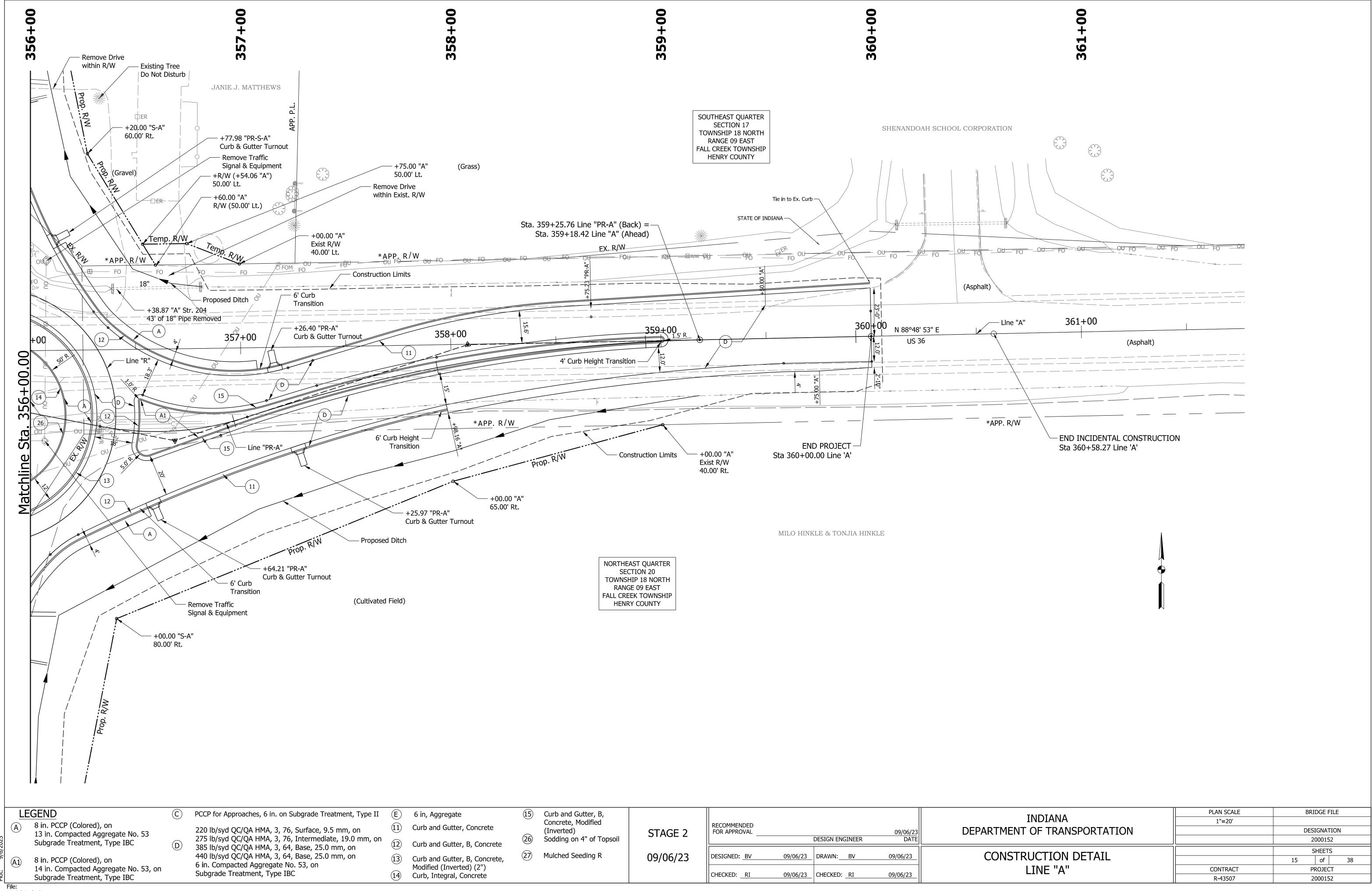


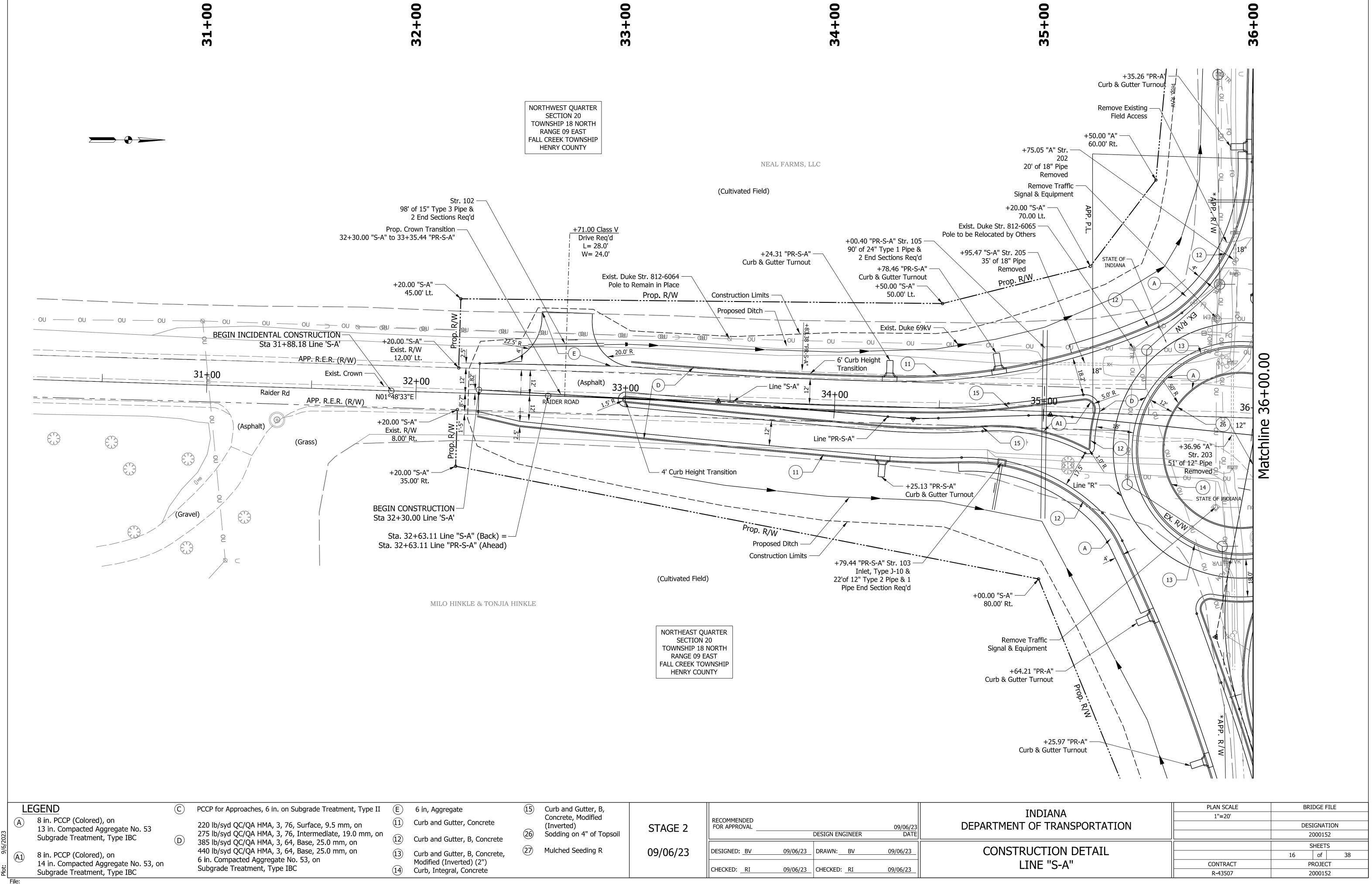


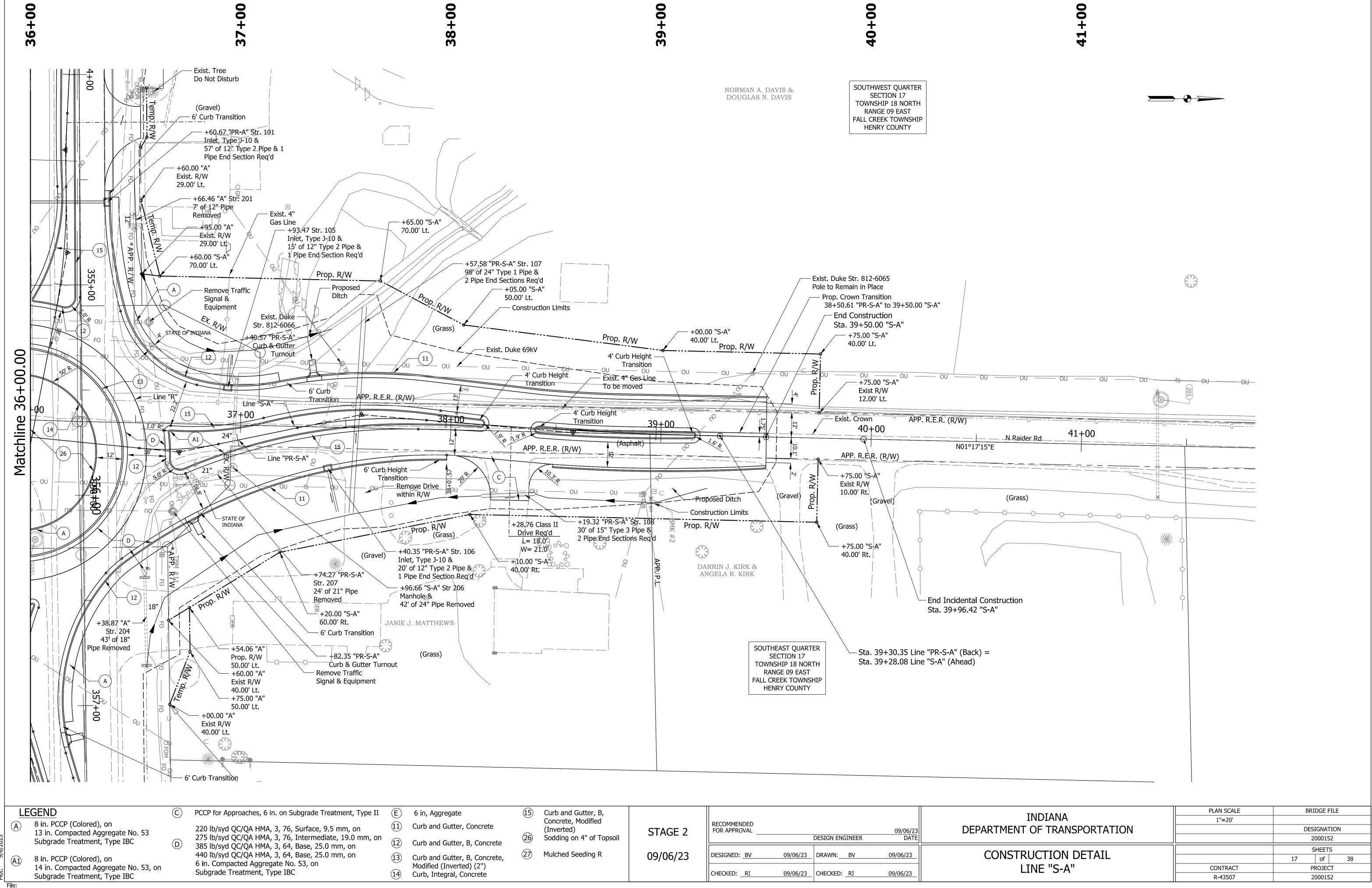
Model:Default

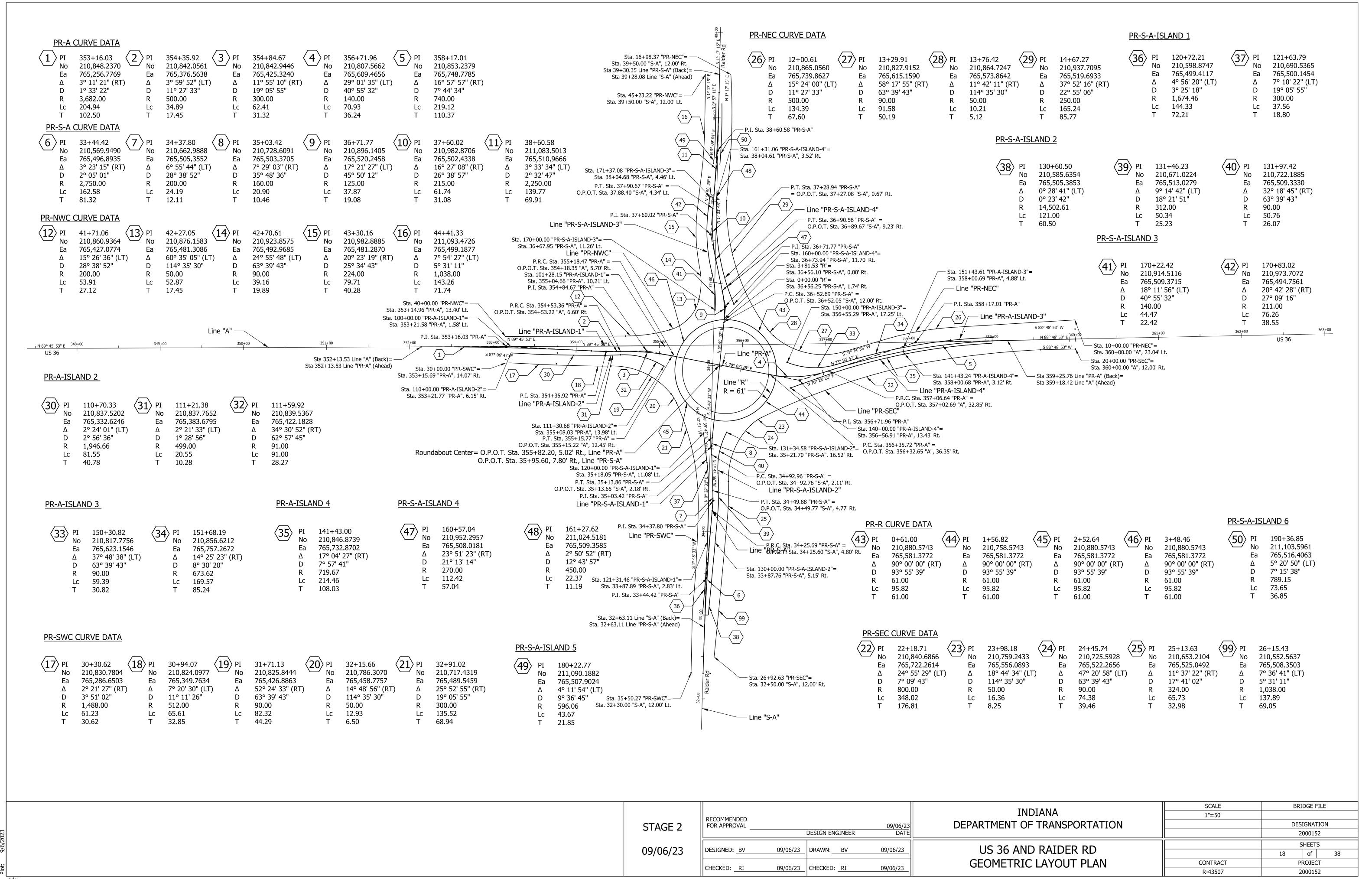


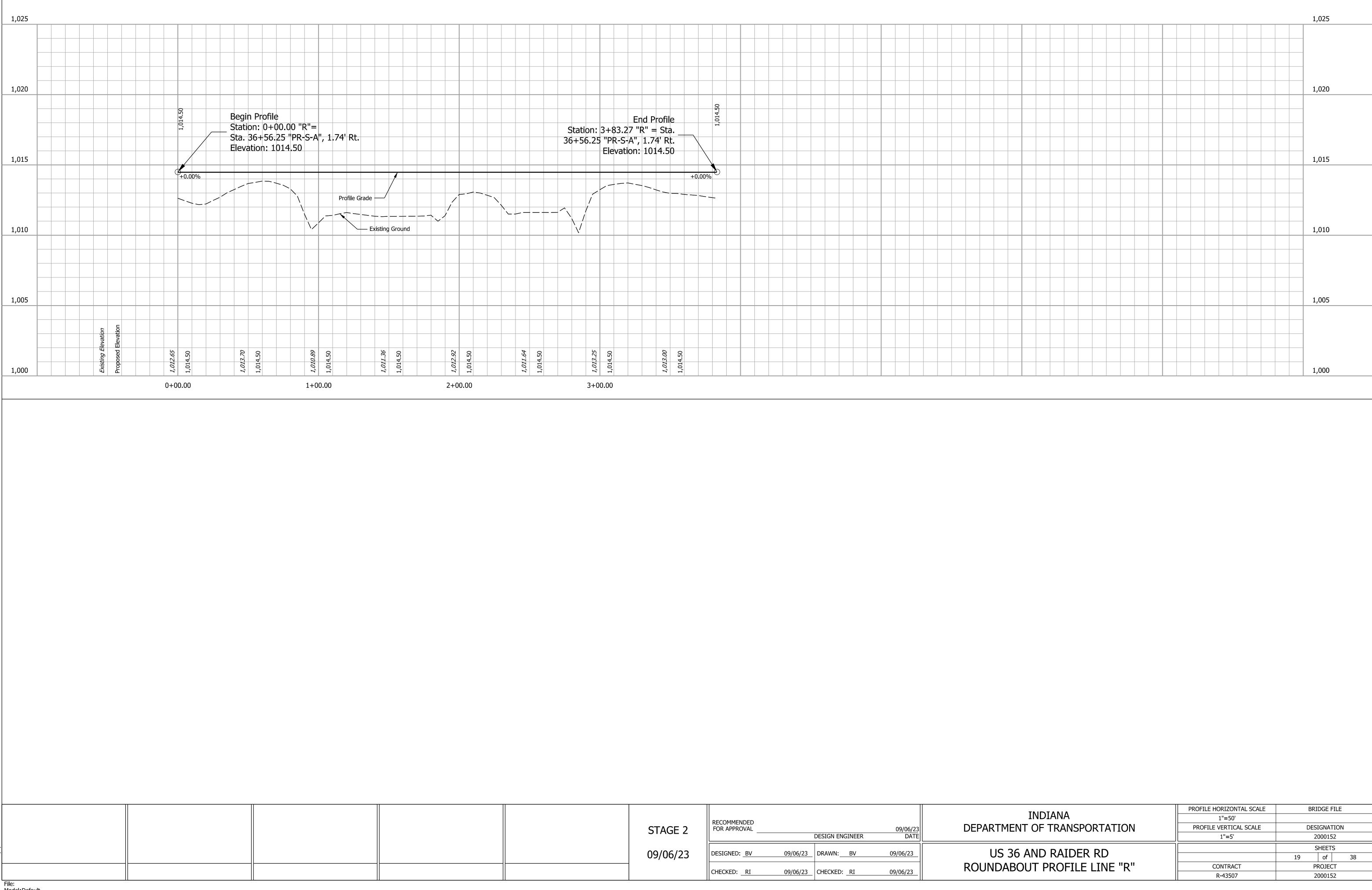


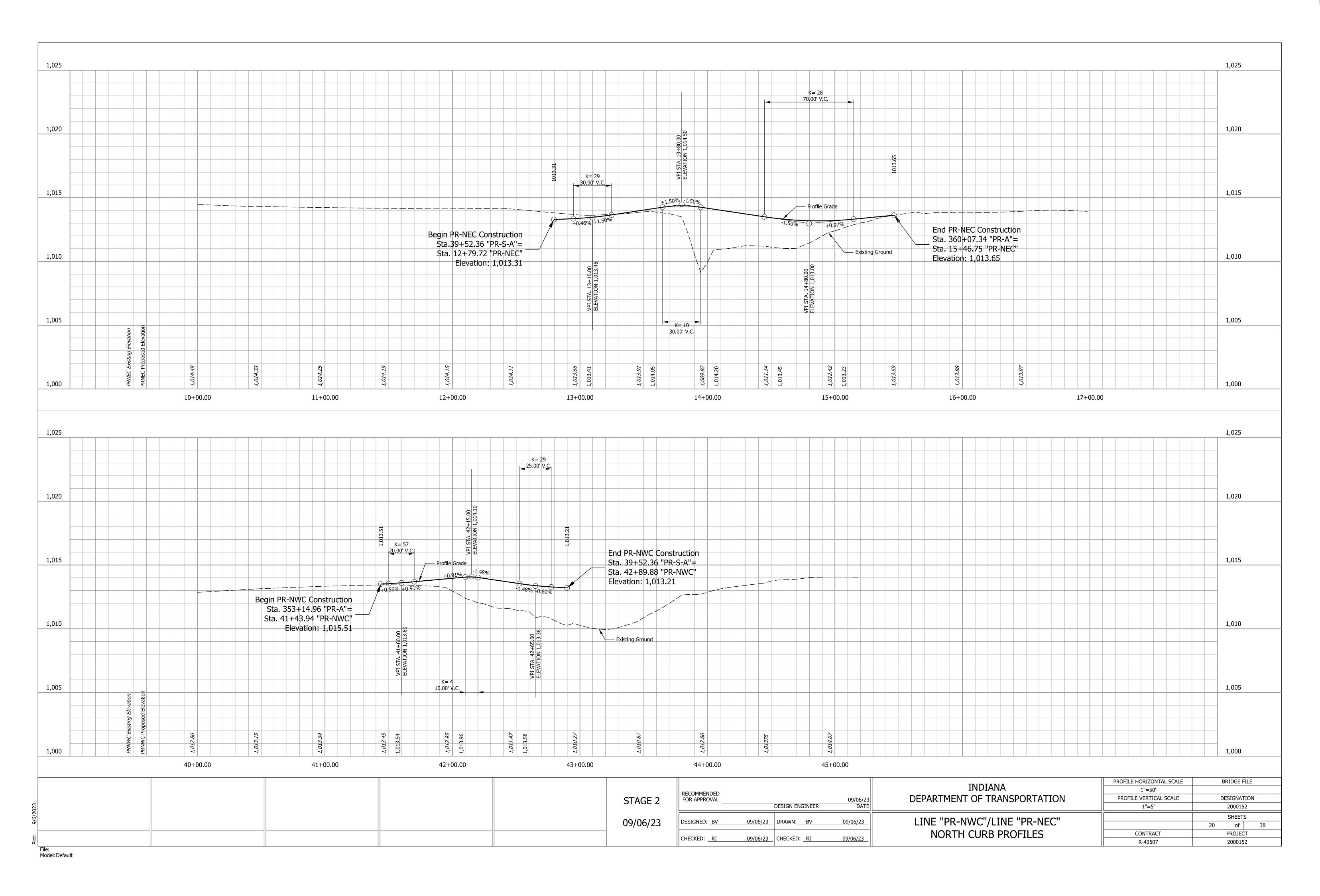


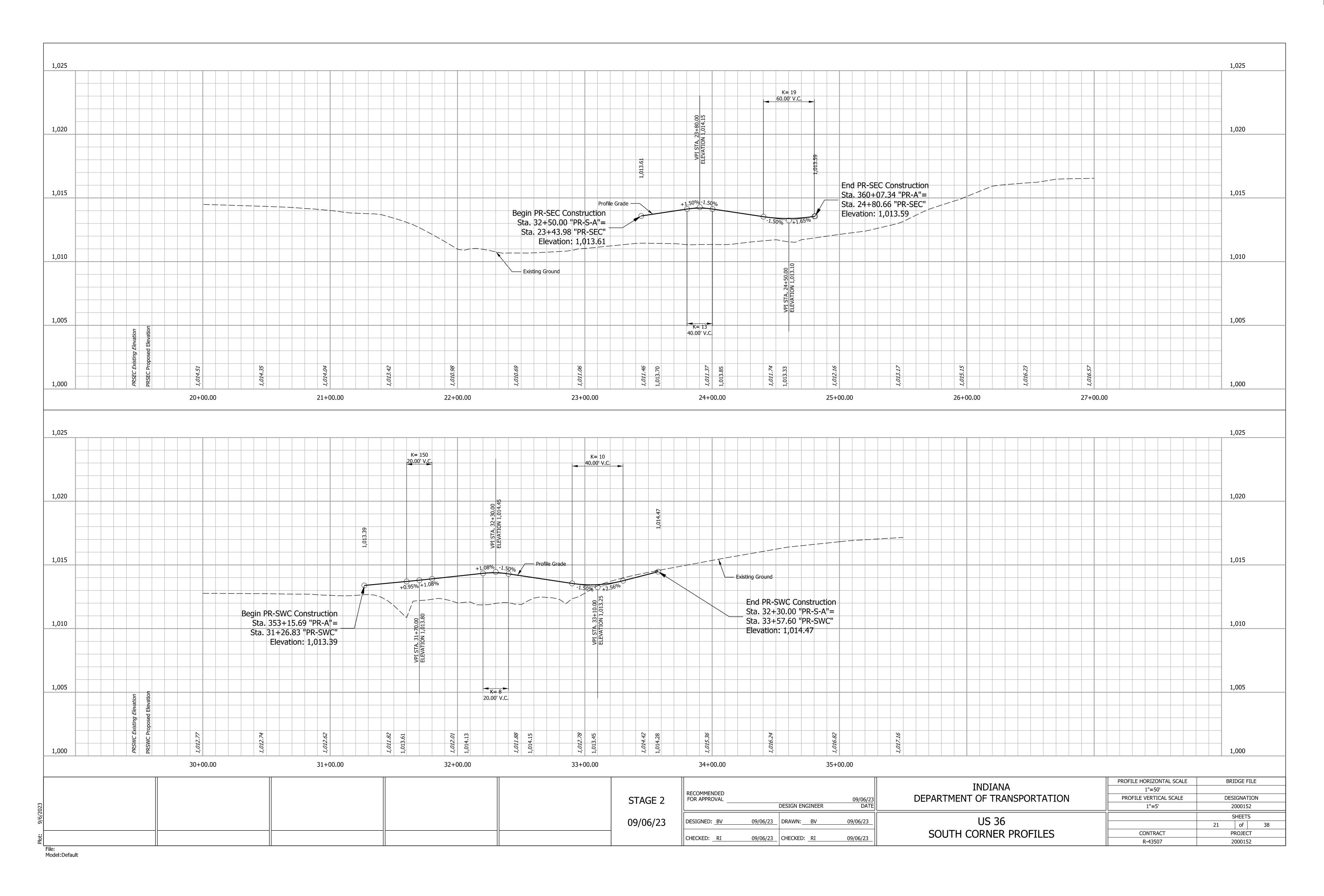


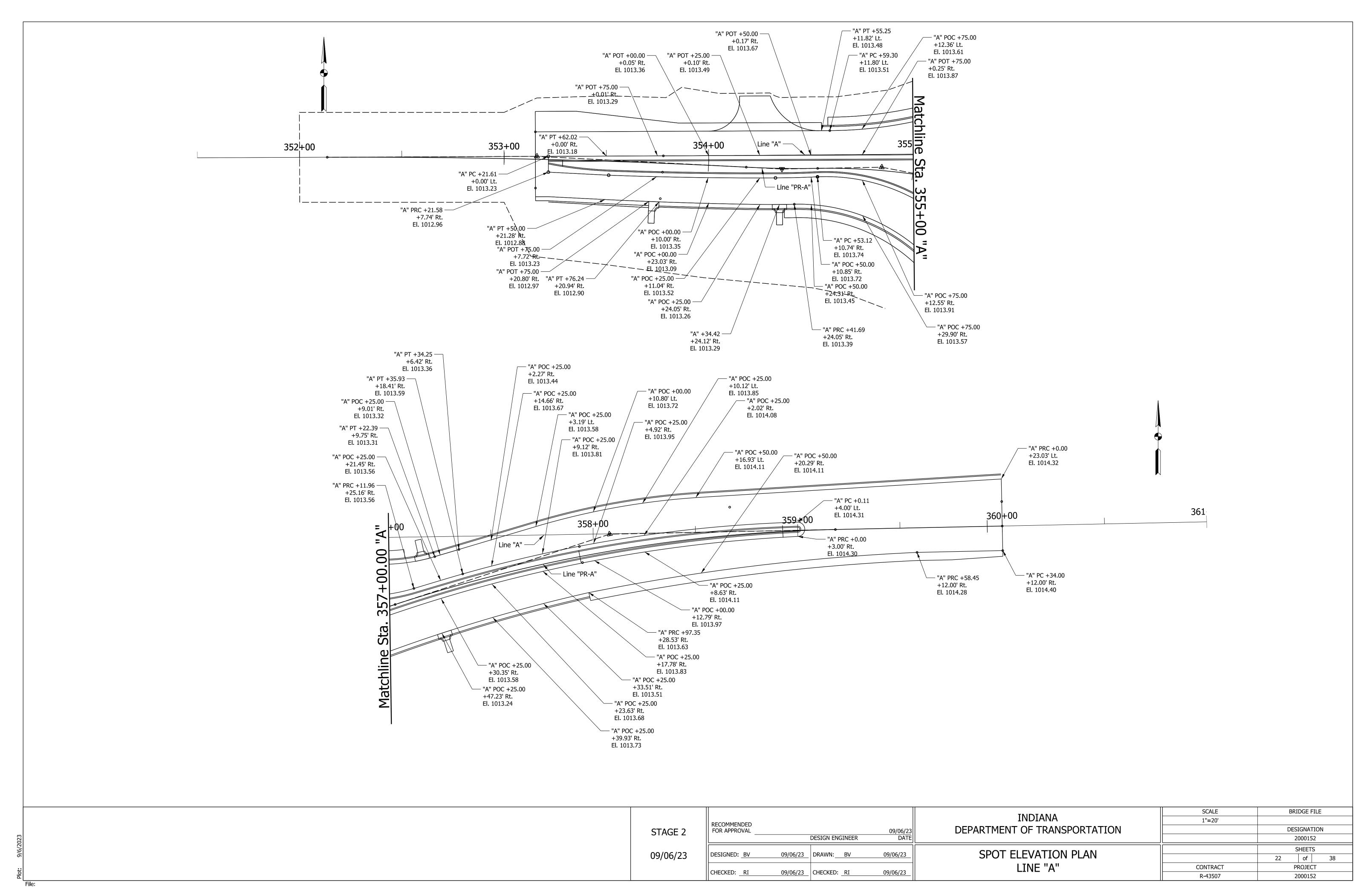












SHEETS

PROJECT

2000152

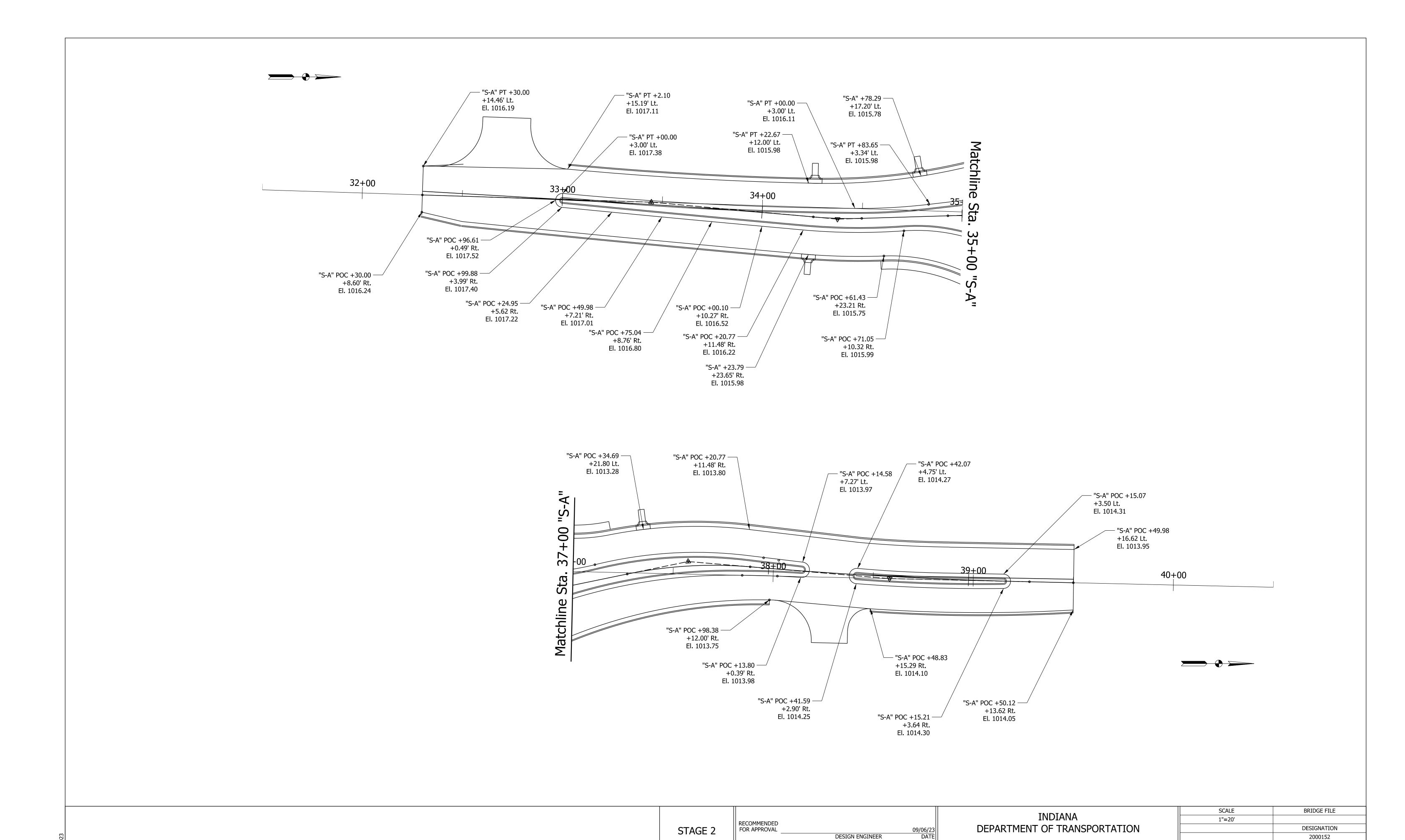
23 of

CONTRACT

R-43507

SPOT ELEVATION PLAN

LINE "S-A"



09/06/23

DESIGNED: BV

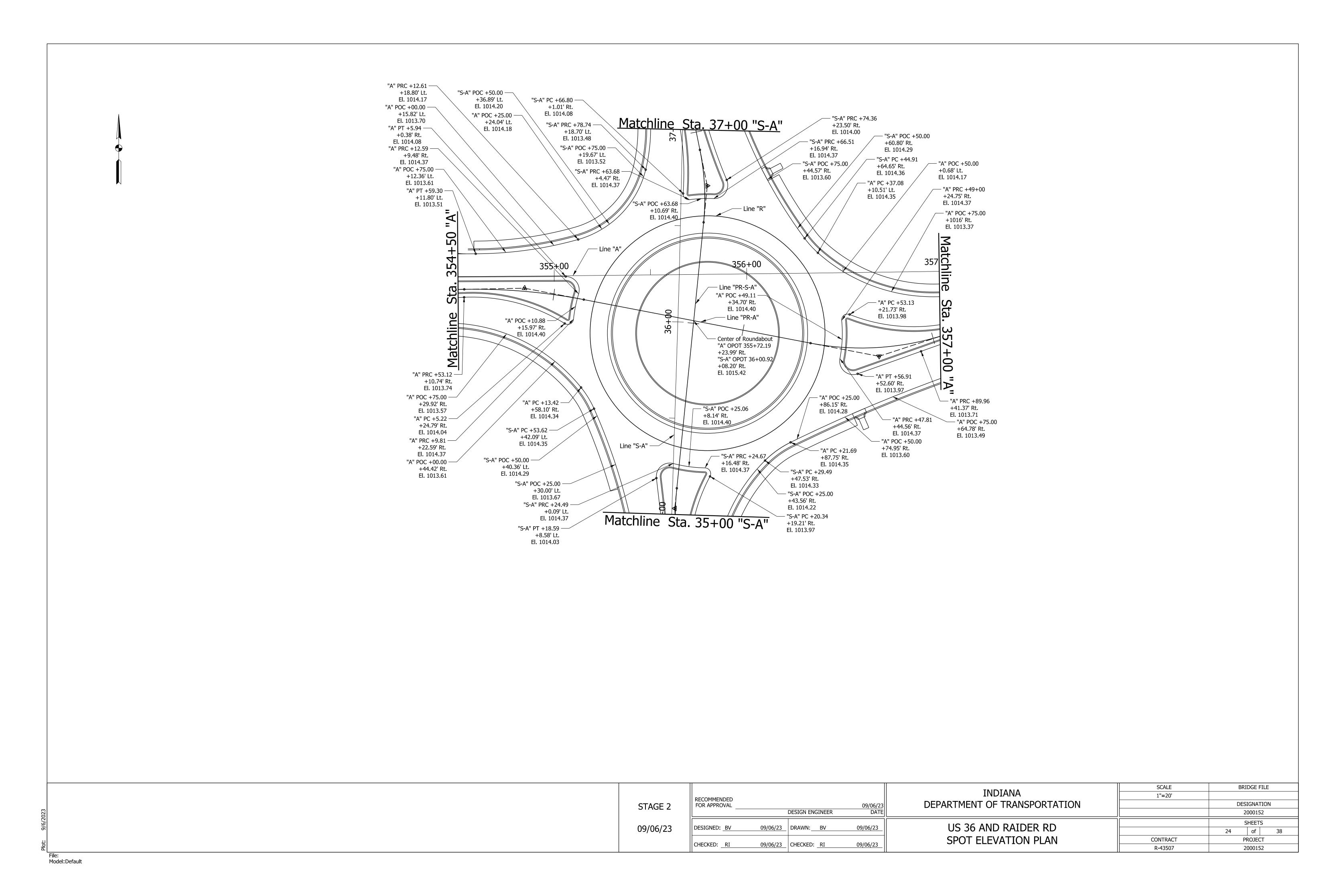
CHECKED: RI

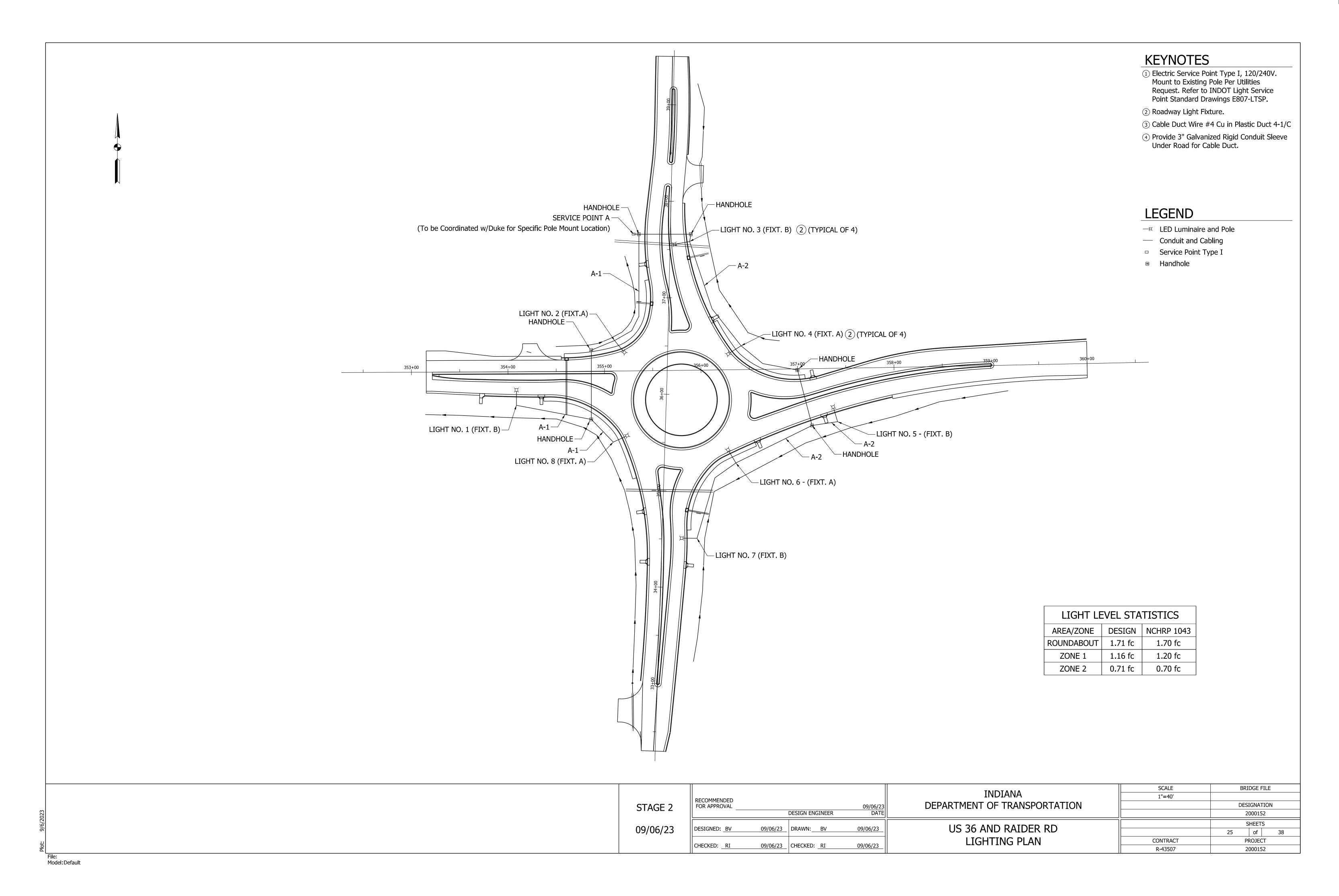
09/06/23 DRAWN: BV

09/06/23 CHECKED: RI

09/06/23

09/06/23



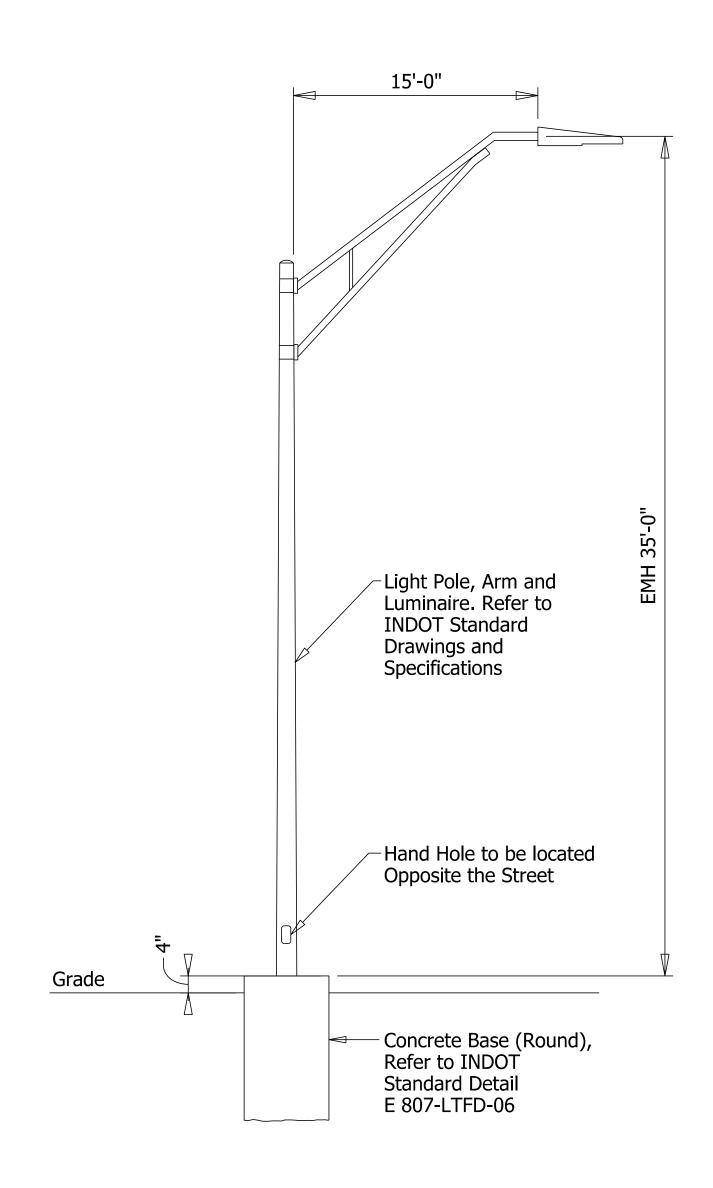


| LUMINAIRE AND POLE INFORMATION SCHEDULE |                  |                  |                 |                  |                  |                 |                 |                 |  |
|---|------------------|------------------|-----------------|------------------|------------------|-----------------|-----------------|-----------------|--|
| LUMINAIRE NO.                           | 1                | 2                | 3               | 4                | 5                | 6               | 7               | 8               |  |
| CIRCUIT NO.                             | A-1              | A-1              | A-2             | A-2              | A-2              | A-2             | A-2             | A-1             |  |
| CIRCUIT CONNECTION (R-RED, B-BLACK)     | В                | R                | В               | R                | В                | R               | В               | R               |  |
| STATION                                 | 354+09<br>14' RT | 355+11<br>32' LT | 37+58<br>20' RT | 356+42<br>25' LT | 357+37<br>16' RT | 35+29<br>74' RT | 34+51<br>16' RT | 35+51<br>54' LT |  |

| LIGHTING FIXTURE SCHEDULE |           |          |  |       |  |  |  |  |  |  |
|---------------------------|-----------|----------|--|-------|--|--|--|--|--|--|
| SERVICE<br>POINT          |           |          |  |       |  |  |  |  |  |  |
| Λ                         |           | 120/240V |  | BLACK |  |  |  |  |  |  |
| A                         | A 120/240 |          |  | RED   |  |  |  |  |  |  |
|                           |           |          |  |       |  |  |  |  |  |  |
|                           |           |          |  |       |  |  |  |  |  |  |

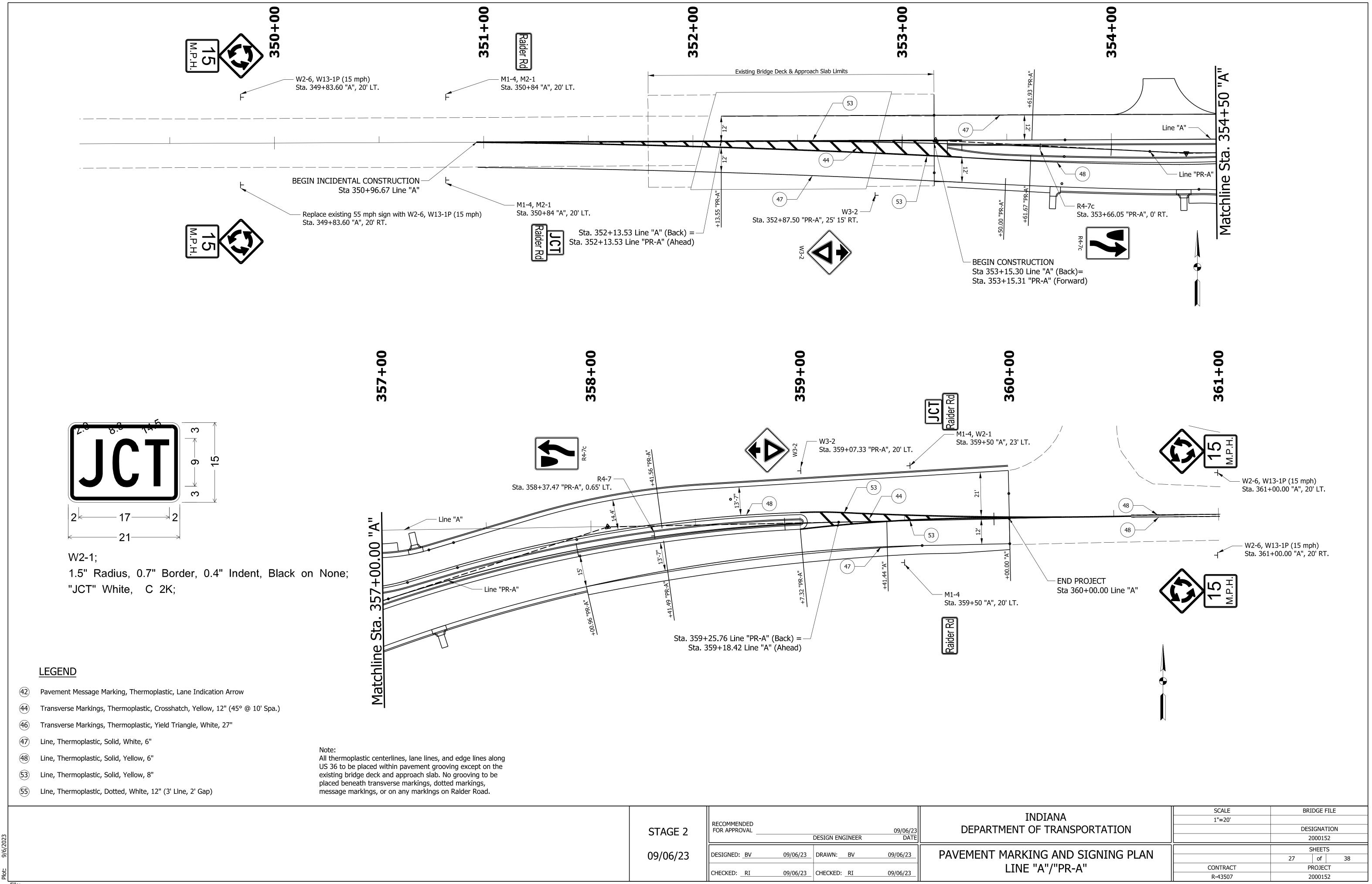
| LIGHTING FIXTURE SCHEDULE |        |                                       |                               |                       |      |         |          |  |  |  |  |
|---------------------------|--------|---------------------------------------|-------------------------------|-----------------------|------|---------|----------|--|--|--|--|
| TYPE                      | SYMBOL | DESCRIPTION                           | MANUFACTURER                  | CATALOG NO.           | LAMP | VOLTAGE | MOUNTING | REMARKS                                |  |  |  |
| А                         | Ŧ      | INDOT STANDARD LED                    | AMERICAN ELECTRIC<br>LIGHTING | ATB0-P302-MVOLT-R3-4K | LED  | 120     | ARM      |  |  |  |  |
| А                         |        | INDOT STANDARD 15' ARM<br>E-807-LTST  |                               |                       |      |         |          |  |  |  |  |
| А                         |        | INDOT STANDARD 30' POLE<br>E-807-LTST |                               |                       |      | -       |          |  |  |  |  |
| А                         |        | FRANGIBLE BASE                        | AKRON                         |                       |      |         |          | COORDINATE WITH<br>BOLT CIRCLE OF POLE |  |  |  |
| В                         | 干      | INDOT STANDARD LED                    | AMERICAN ELECTRIC<br>LIGHTING | ATB0-P203-MVOLT-R3-4K | LED  | 120     | ARM      |  |  |  |  |
| В                         |        | INDOT STANDARD 15' ARM<br>E-807-LTST  |                               |                       |      |         |          |  |  |  |  |
| В                         |        | INDOT STANDARD 30' POLE<br>E-807-LTST |                               |                       |      |         |          |  |  |  |  |
| В                         |        | FRANGIBLE BASE                        | AKRON                         |                       |      |         |          | COORDINATE WITH<br>BOLT CIRCLE OF POLE |  |  |  |

| LUMINAIRE DESIGN DATA TABLE                                      |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| LUMINAIRE STYLE  | INDOT STANDARD                                 |  |  |  |  |  |  |
| LAMP TYPE  | 70W-83W. LED, 1300 mA                          |  |  |  |  |  |  |
| DESIGN SAMPLE PHOTOMETRIC CURVE                                  | ATBO SERIES 70W-83W LED 1300mA TYPE 3 4000K CC |  |  |  |  |  |  |
| EFFECTIVE MOUNTING HEIGHT (EMH)                                  | 35   |  |  |  |  |  |  |
| LUMINAIRE CLASSIFICATION (IES)                                   | ATBO SERIES 70W-83W LED 1300mA TYPE 3 4000K CC |  |  |  |  |  |  |
| VOLTAGE  | 120/240V                                       |  |  |  |  |  |  |
| LUMINAIRE LOAD OPERATING AMPS (VARIES DEPENDING ON MANUFACTURER) | 1.1A   |  |  |  |  |  |  |
| INITIAL LAMP LUMENS (LL)   | 4000K  |  |  |  |  |  |  |
| DESIGN SOFTWARE  | AGi32  |  |  |  |  |  |  |
| AVERAGE MAINTAINED ILLUMINATION (Eh)                             | 1.10 fc  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

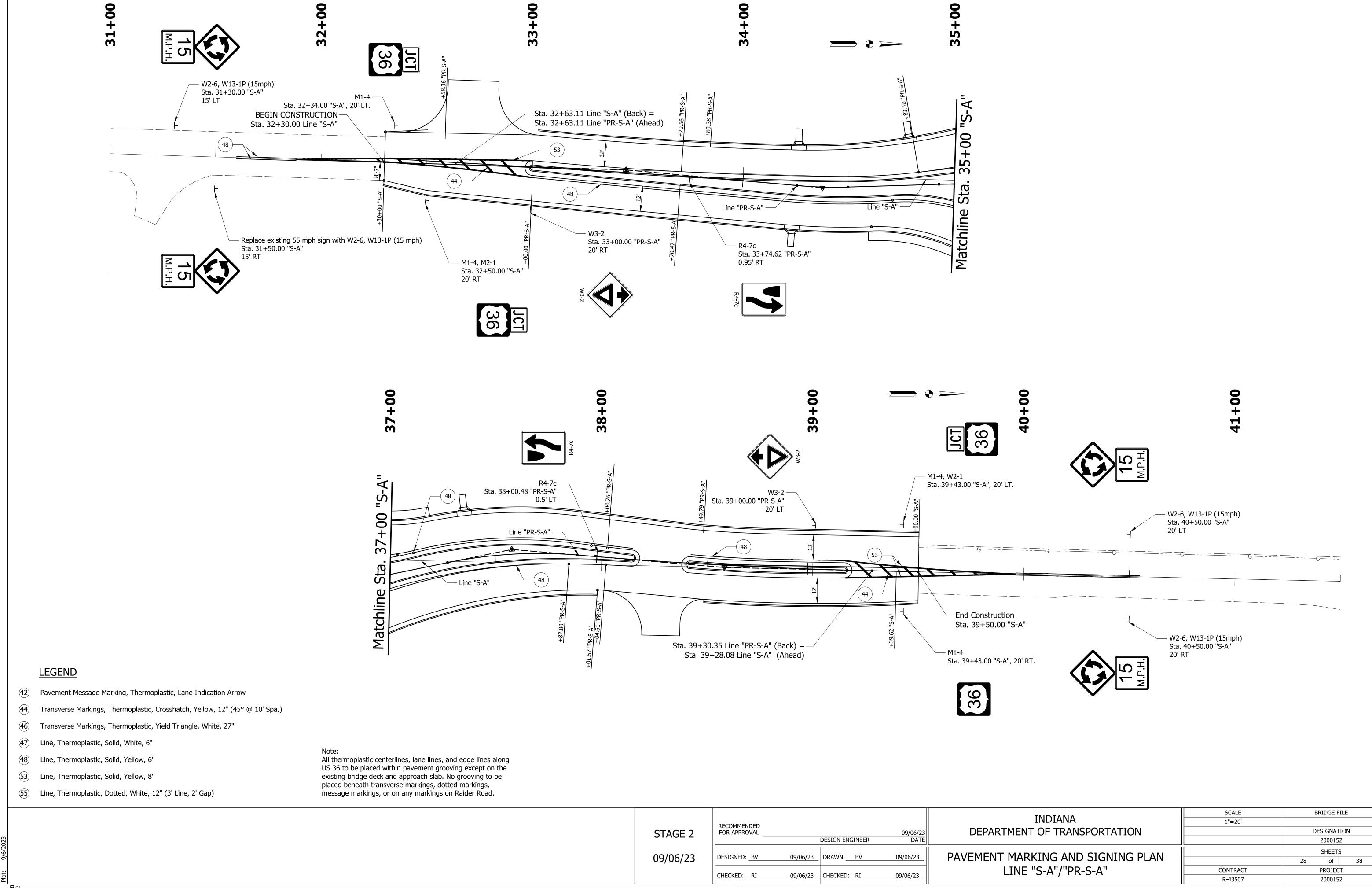


LIGHT POLE DETAIL
SCALE: Not to Scale

| STAGE 2  | RECOMMENDED FOR APPROVAL 09/06/23 DESIGN ENGINEER DATE |                      |          | INDIANA<br>DEPARTMENT OF TRANSPORTATION | SCALE<br>NTS        | DESIGNATION 2000152 |
|----------|--|----------------------|----------|---|---------------------|---------------------|
| 09/06/23 | DESIGNED: NSK  | 09/06/23 DRAWN: NSK  | 09/06/23 | LIGHTING DETAILS                        |                     | SHEETS  26          |
|          | CHECKED: JH  | 09/06/23 CHECKED: JH | 09/06/23 | AND SCHEDULES                           | CONTRACT<br>R-43507 | PROJECT 2000152     |



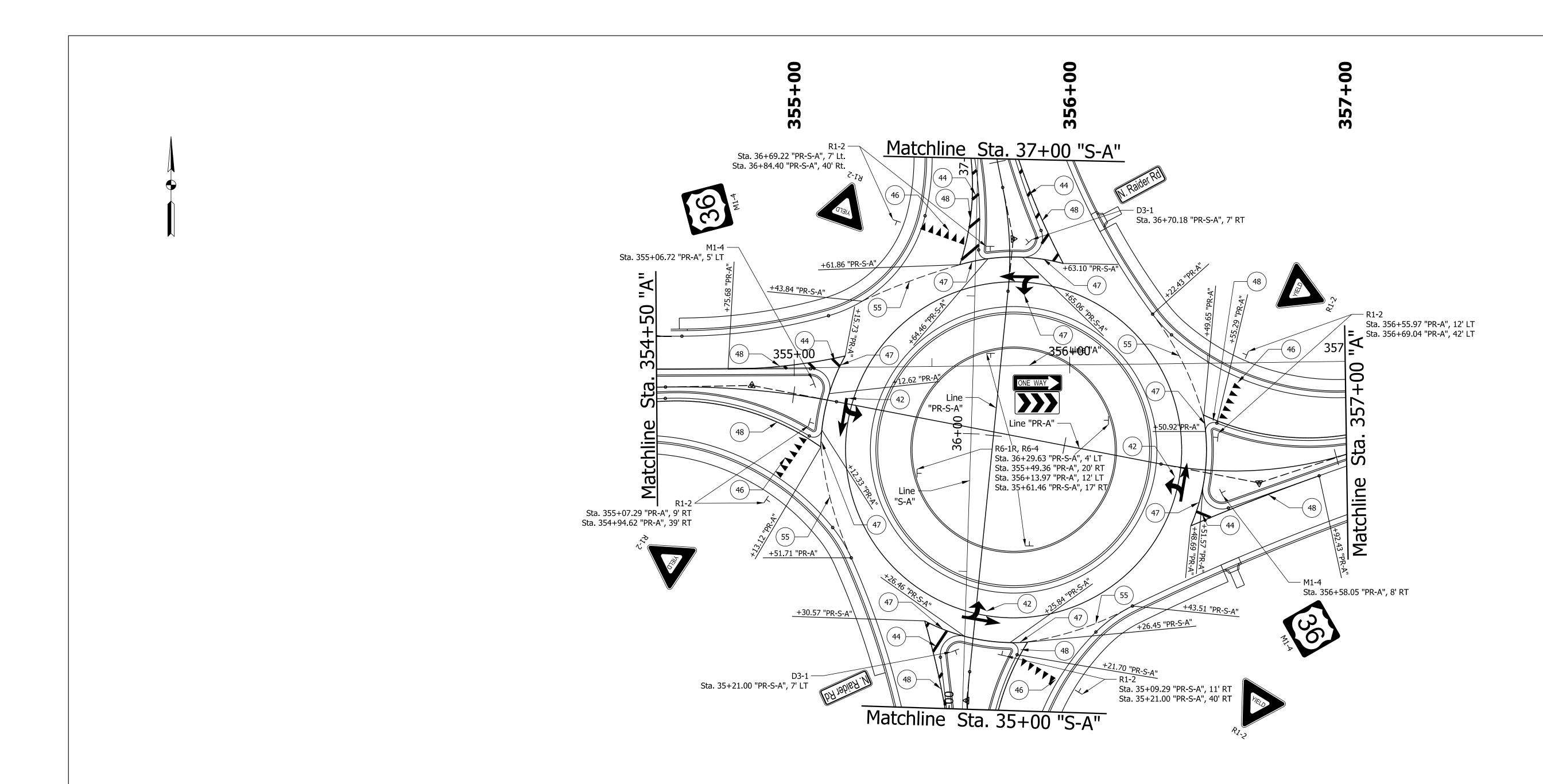
File: Model:Default



File: Model:Default

R-43507

2000152



### **LEGEND**

- Pavement Message Marking, Thermoplastic, Lane Indication Arrow
- Transverse Markings, Thermoplastic, Crosshatch, Yellow, 12" (45° @ 10' Spa.)
- Transverse Markings, Thermoplastic, Yield Triangle, White, 27"
- 47) Line, Thermoplastic, Solid, White, 6"
- Line, Thermoplastic, Solid, Yellow, 6"
- 53 Line, Thermoplastic, Solid, Yellow, 8"
- 55 Line, Thermoplastic, Dotted, White, 12" (3' Line, 2' Gap)

All thermoplastic centerlines, lane lines, and edge lines along US 36 to be placed within pavement grooving except on the existing bridge deck and approach slab. No grooving to be placed beneath transverse markings, dotted markings, message markings, or on any markings on Raider Road.

|  |                    |              |                         |            | TNIDTANIA                         | SCALE    | BRIDGE FILE |
|--|--------------------|--------------|-------------------------|------------|-----------------------------------|----------|-------------|
|  |                    | RECOMMENDED  |                         | 09/06/23   | INDIANA                           | 1"=20'   |             |
|  | STAGE 2            | FOR APPROVAL |                         |            | DEPARTMENT OF TRANSPORTATION      |          | DESIGNATION |
|  | STAGE 2            |              | DESIGN ENGINEER         | DATE       |                                   |          | 2000152     |
|  |                    | DECICNED: DV | DESIGNED. DV            | 00/06/22   | LIC 26 AND DATDED DD              |          | SHEETS      |
|  | 09/06/23 DESIGNED: | DESIGNED: BV | 09/06/23 DRAWN: BV      | / 09/06/23 | US 36 AND RAIDER RD               |          | 29 of 38    |
|  |                    | CHECKED. DI  | 00/06/23 CHECKED, DI    | 00/06/22   | PAVEMENT MARKING AND SIGNING PLAN | CONTRACT | PROJECT     |
|  |                    | CHECKED: RI  | 09/06/23   CHECKED: _RI | 09/06/23   |                                   | R-43507  | 2000152     |

Model: Default

#### **APPENDIX C**

Early Coordination

#### INDIANA DEPARTMENT OF TRANSPORTATION



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

Eric Holcomb, Governor Michael Smith, Commissioner

March 15, 2023

Sample Early
Coordination Letter

Re: Early Coordination Letter, Des. No.: 2000152, Intersection Improvement of US 36 &

Raider Road, Henry County, Indiana.

KEG No. 21-1065.00

Dear Interested Party,

The Indiana Department of Transportation (INDOT), with federal funding, intends to proceed with a project involving the aforementioned roadway in Henry 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 designation number and description in your reply**. We will incorporate your comments into a study of the project's environmental impacts.

This project is located at the intersection of US 36 and Raider Road, in Henry County. This section of US 36 and Raider Road are two-lane *Rural Major Collectors*. The existing US 36 and Raider Road cross sections consist of one 12-foot lane in each direction with 3-foot aggregate shoulders. The draft need for this project is the above average crash severity at the existing intersection. Per RoadHAT 3.0 analysis (INDOT traffic engineering safety modeling software) of 2016-2018 crash data, the most recent data available at the time of this analysis, the index of crash frequency (ICF) is 1.61 (well above average) and the index of crash cost (ICC) is 2.40 (well above average). These indices compare the crash cost and crash frequency for this intersection to intersections with similar volumes, roadway classifications, and control type throughout Indiana. The ICC and ICF exceeds the threshold of 1.00 set by INDOT's Office of Traffic Safety, flagging the intersection as a safety concern. The draft purpose of the project is to reduce crash potential, improve the ICC and ICF to below 1.00, and provide a long-term solution to ensure safe and efficient operation of the intersection. The approximate existing right-of-way (ROW) is 40 feet each side of centerline on US 36 and 10 feet each side of centerline on Raider Road.

The proposed project is anticipated to convert the existing intersection into a single lane roundabout. Drainage improvements will include installation of curb turnouts, new drainage structures, and ditch grading. Utility relocations for utility poles will be required at the corners of the existing intersection. Intersection improvements will also include new street lighting and landscaping. The project requires the acquisition of 1.35 acres of permanent ROW and 0.40 acre of temporary ROW. Proposed ROW widths vary along US 36 from 40 feet to 70 feet from centerline and vary along Raider Road from 10 feet to 60 feet from centerline. The project will be approximately 0.29 mile in length. The proposed method of traffic maintenance is anticipated to be a full closure when school is not in session, utilizing a detour via SR 109, I-69, SR 67 and SR 3. Approximately 0.27 acre of trees will be cleared as part of this project. The project is anticipated to begin construction in late Spring or early Summer of 2025.

Land use in the vicinity of the project is predominantly agricultural, with a school in the northeast quadrant. Kaskaskia Engineering Group, LLC will perform waters and wetlands determinations to identify water resources that may be present, if applicable. The project is anticipated to qualify for

the Rangewide Programmatic Agreement for the Indiana bat and northern long-eared bat by completing the Information for Planning and Consultation (IPaC). Coordination will occur with INDOT Cultural Resources Office (CRO) to evaluate the project area for archaeological and historic resources and for Section 106 compliance. The results of this investigation will be forwarded to the State Historic Preservation Officer (SHPO) for review and concurrence as appropriate.

Please provide your response within thirty (30) calendar days from the date of this letter. However, should you find that an extension to the response time is necessary; a reasonable amount may be granted upon request. If you have any questions regarding this matter, please feel free to contact me, at 618-233-5877 or bmoneymaker@kaskaskiaeng.com, or Don McGhghy, INDOT Project Manager at 317-467-3920 or dmcghghy@indot.in.gov. Thank you in advance for your input.

Sincerely,

Brigitte Moneymaker Environmental Scientist

Kaskaskia Engineering Group, LLC

#### Attachment -

- Early Coordination Letter Recipient List
- Maps (Location, Aerial, Topographic)
- Photo Log

cc: Jerod Hiller, Fishbeck

Attachments omitted to avoid duplication



#### **Organization and Project Information**

**Project ID:** 21-1065.00 **Des. ID:** 2000152

**Project Title:** Intersection Improvement of US 36 & Raider Road

Name of Organization: Kaskaskia Engineering Group, LLC

**Requested by:** Brigitte Moneymaker

#### **Environmental Assessment Report**

- 1. Geological Hazards:
  - Moderate liquefaction potential
  - 1% Annual Chance Flood Hazard
- 2. Mineral Resources:
  - Bedrock Resource: High Potential
  - Sand and Gravel Resource: Low Potential
- 3. Active or abandoned mineral resources extraction sites:
  - Petroleum Exploration Wells

#### **DISCLAIMER:**

This document was compiled by Indiana University, Indiana Geological Survey, using data believed to be accurate; however, a degree of error is inherent in all data. This product is distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of these data and document to define the limits or jurisdiction of any federal, state, or local government. The data used to assemble this document are intended for use only at the published scale of the source data or smaller (see the metadata links below) and are for reference purposes only. They are not to be construed as a legal document or survey instrument. A detailed on-the-ground survey and historical analysis of a single site may differ from these data and this document.

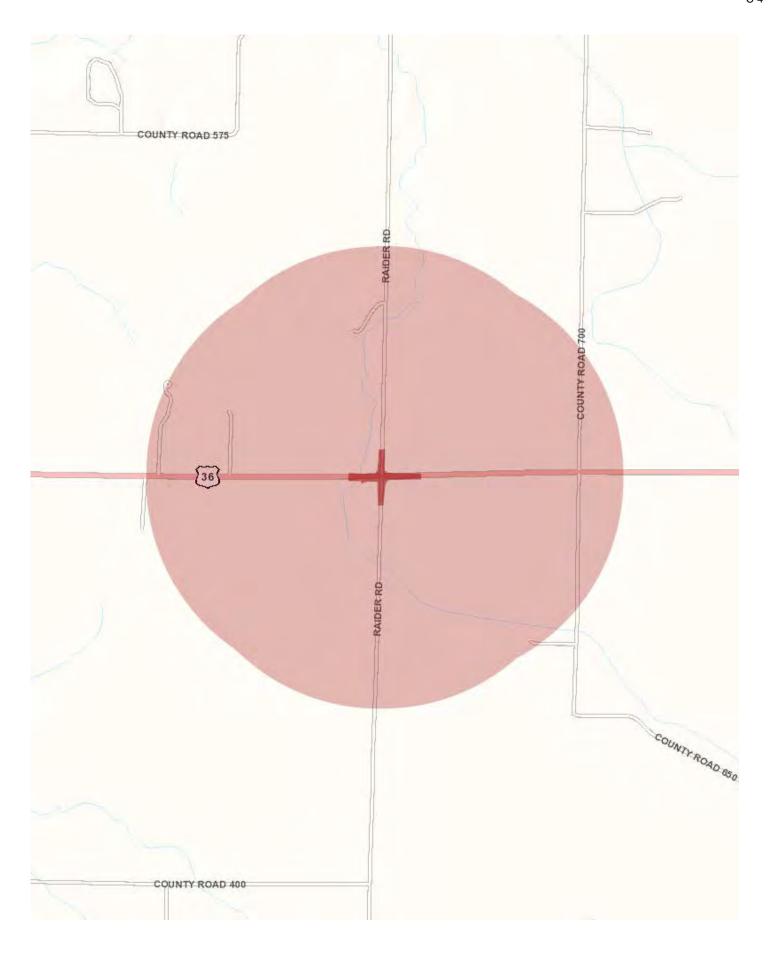
This information was furnished by Indiana Geological Survey

Address: 1001 E. 10th St., Bloomington, IN 47405

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428 Date: March 15, 2023

<sup>\*</sup>All map layers from Indiana Map (maps.indiana.edu)



# DEM

#### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204

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

Eric J. Holcomb

Brian C. Rockensuess

Commissioner

March 15, 2023

Kaskaskia Engineering Group, LLC Attention: Brigitte Moneymaker 323 Main Street, Suite E Evansville, IN 4770

Dear Brigitte Moneymaker:

Re: Wellhead Protection Area
Proximity Determination
Des No 2000152,
Intersection Improvement of
US 36 & Raider Road, Henry County, Indiana.

Upon review of the above referenced project site, it has been determined that the proposed project area **is not located within** a Wellhead Protection Area. The information is accurate to the best of our knowledge; however, there are in some cases a few factors that could impact the accuracy of this determination. Some Wellhead Protection Area Delineations have not been submitted, and many have not been approved by this office. In these cases, we use a 3,000-foot fixed radius buffer to make the proximity determination. To find the status of a Public Water Supply System's (PWSS's) Wellhead Protection Area Delineation please visit our tracking database at http://www.in.gov/idem/cleanwater/2456.htm and scroll to the bottom of the page.

The project area **is not located within** a Source Water Assessment Area for a PWSS's surface water intake. The Source Water Assessment Area relates to the surface water drainage area that water could potentially flow and influence water quality for a PWSS's source of drinking water.

In the future, **please consider using this self-service tool** if it suits your needs. The Drinking Water Branch has a self-service tool which allows one to determine wellhead proximity without submitting the application form. Go to <a href="https://www.in.gov/idem/cleanwater/pages/wellhead/">https://www.in.gov/idem/cleanwater/pages/wellhead/</a> and use the instructions at the bottom of the page.



Brigitte Moneymaker Page 2

If you have any additional questions, please feel free to contact me at the address above or at 317-233-9158 and aturnbow@idem.in.gov.

Sincerely,

Alisha Turnbow, Environmental Manager

Ground Water Section Drinking Water Branch

Alisha Turnbow

Office of Water Quality

#### THIS IS NOT A PERMIT

## State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

**DNR#:** ER-25467

Request Received: March 15, 2023

#### Requestor:

Brigitte Moneymaker Kaskaskia Engineering Group, LLC 208 East Main Street, Suite 100 Belleville, IL 62220

#### **Project:**

US 36 & Raider Road roundabout construction and intersection improvements; KEG #21-1065.00, Des #2000152

County/Site Info: Henry

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

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

#### **Regulatory Assessment:**

This western end of the proposal may require the formal approval of our agency pursuant to the Flood Control Act (IC 14-28-1) for any proposal to construct, excavate, or fill in or on the floodway of a stream or other flowing waterbody which has a drainage area greater than one square mile for any construction that will take place at or lakeward of the legal shoreline of a public freshwater lake. Please submit more detailed plans to the Division of Water's Technical Services Section if you are unsure whether or not a permit will be required.

#### **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 and Wildlife Comments:**

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

#### A) Riparian Habitat:

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

Impacts to non-wetland forest of one (1) acre or more in a rural or urban area should be mitigated at a minimum 2:1 ratio based on area of impact. Impacts to non-wetland forest under one (1) acre but at least 0.10 acre in a rural or urban area should be mitigated at a minimum 1:1 ratio based on area of impact. Impacts under 0.10 acre in a rural area typically do not require mitigation or additional plantings beyond seeding and

stabilizing disturbed areas, though there are exceptions for high quality habitat sites. Impacts under 0.10 acre in an urban area should be mitigated by replacing trees that are 10" diameter-at-breast height (dbh) or greater by planting five trees, 1" to 2" in dbh, for each tree which is removed that is 10" dbh or greater. Seeding and stabilizing disturbed areas is required regardless of the impact amount and location. If floodway impacts to forested wetland and non-wetland habitat areas combine to be 0.10 acres or more, mitigation should be done and coordinated with the biologist, as needed.

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

- 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; turf-type grasses (including low-endophyte, friendly
  endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used
  in regularly mowed areas only.
- 2. Minimize and contain within the project limits all tree and brush clearing.
- 3. Do not cut any trees suitable for Indiana Bat or Northern Long-eared Bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
- 4. Do not deposit or allow construction/demolition materials or debris to fall or otherwise enter the waterway. Any incidental fallen material or debris in the waterway must be removed within 24 hours using best management practices, particularly lifting material out of the waterway and not dragging it across the streambed whenever possible.
- 5. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the waterbody or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
- 6. If erosion control blankets are used, they shall be heavy-duty, biodegradable, and net free or use loose-woven/Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.

#### **Contact Staff:**

Our agency appreciates this opportunity to be of service. Please contact me at mbuffington@dnr.in.gov or (317) 233-4666 if we can be of further assistance.

**Date:** April 13, 2023

Matt Buffington
Matt Buffington

Environmental Unit Supervisor
Division of Fish and Wildlife

From: Hiller, Jerod

To: <u>sr122jph@yahoo.com</u>

Cc: <u>Molly Barletta</u>; <u>Brigitte Moneymaker</u>

Subject: RE: US 36 and Raider Road Henry County Project [21-1065.00]

**Date:** Thursday, May 25, 2023 5:34:53 PM

Attachments: <u>image001.qif</u>

Joe.

I was forwarded your email and can help provide some responses as Fishbeck is leading the design for this project. I have provided responses in red below. I think it may be beneficial to have a meeting between INDOT, Henry County, emergency responders, and designers sometime in early summer. We will look to get something arranged on our end.

#### Couple of question:

- 1. How long is the project slated to take, start to finish For an intersection reconstruction like this roundabout under a full closure, we anticipate 60-75 days for full closure. There may be 30 days before and then 30 days after the full closure where ancillary work is being performed, but this would occur with all travel lanes open to traffic.
- 2. I know that the intersection will be closed during to construction. Is there a planned local detour. There is a planned detour for the intersection closure. US 36 will have a detour route and Raider Road will have a different detour route. The US 36 detour will be on INDOT maintained highways only and use SR 109, I-69, SR 67, and SR 3. The Raider Road detour has been initially discussed with Henry County (Joe Copeland as contact) and we are amenable to adjust this more localized detour route through input and coordination with Henry County and other emergency responders such as yourself.

Our department and Middletown fire (the primary fire protection for that area) respond on automatic aid calls often. The primary route to or from Middletown, or area north or west of that intersection

involve going through that intersection. Taking the list detour route would add up to 1/2 hour to an emergency response. We can use the local county road, but they are rough, narrow and we have the concern that

local resident will also be using those route make emergent travel difficult and dangerous.

We also have the concern of the load rating for the bridges on the county roads.

- 3. We also use that intersection for call in Adams Township and East Madison Fire Territory that are both west of the intersection and they too respond to our calls.
- 4. Will there be emergency vehicle access through the intersection during the project. This is certainly a possibility that can be further coordinated with INDOT and emergency responders.

Our concern is about delayed response either going to, or other agency coming to calls to assist us. This will certainly increase response time and could effect out firefighters safety and loss of life or property. We certainly appreciate your input and I think it would be beneficial to further coordinate on all these concerns at a meeting between all parties.

Please let me know what information that your have.

#### Jerod A. Hiller, PE | Senior Transportation Engineer/Project Manager

Fishbeck | w: 614.363.1010 | c: 740.513.8510 | Fishbeck.com

**From:** Brigitte Moneymaker < <u>BMoneymaker@kaskaskiaeng.com</u>>

**Sent:** Thursday, May 11, 2023 11:16 AM

To: Hiller, Jerod <jahiller@fishbeck.com>; Prasad, Dandi <dvprasad@fishbeck.com>

**Cc:** Molly Barletta < <u>MBarletta@kaskaskiaeng.com</u>>

**Subject:** Fw: US 36 and Raider Road Henry County Project [21-1065.00]

#### **EXTERNAL EMAIL**

Good Morning,

I wanted to forward this email we received for Des No. 2000152. Please let us know if you need anything further from us.

Thank you! Brigitte



Brigitte Moneymaker (she/her)

Environmental Scientist

Certified: WBE/DBE/WOSB/EDWOSB

434.962.3525 cell

bmoneymaker@kaskaskiaeng.com

From: Joe Hilburt < <a href="mailto:sr122jph@yahoo.com">sent: Wednesday</a>, May 10, 2023 1:26 PM

**To:** Brigitte Moneymaker < <u>BMoneymaker@kaskaskiaeng.com</u>>; <u>dmcghghy@indot.in.gov</u> < <u>dmcghghy@indot.in.gov</u>>; Heath Hudnut < <u>bhhudnut@gmail.com</u>>

**Subject:** US 36 and Raider Road Henry County Project.

Concerning your project at US36 and Raider Road

First in your list of agencies you have Sulphur Springs Fire Department. The correct name is Jefferson Township Volunteer Fire Department POB 117 401 W. Main in Sulphur Springs, IN 47388.

Couple of question:

- 1. How long is the project slated to take, start to finish
- 2. I know that the intersection will be closed during to construction. Is there a planned local detour. Our department and Middletown fire (the primary fire protection for that area) respond on automatic aid calls often. The primary route to or from Middletown, or area north or west of that intersection

involve going through that intersection. Taking the list detour route would add up to 1/2 hour to an emergency response. We can use the local county road, but they are rough, narrow and we have the concern that

local resident will also be using those route make emergent travel difficult and dangerous.

We also have the concern of the load rating for the bridges on the county roads.

- 3. We also use that intersection for call in Adams Township and East Madison Fire Territory that are both west of the intersection and they too respond to our calls.
  - 4. Will there be emergency vehicle access through the intersection during the project.

Our concern is about delayed response either going to, or other agency coming to calls to assist us. This will certainly increase response time and could effect out firefighters safety and loss of life or property.

Please let me know what information that your have.

Joseph P. Hilburt FF/EMT-P Assistant Fire Chief Jefferson Township Volunteer Fire Department 765-620-8213 sr122jph@yahoo.com



## United States Department of the Interior



#### FISH AND WILDLIFE SERVICE

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

In Reply Refer To: November 08, 2023

Project Code: 2024-0014310

Project Name: US 36 and Raider Road, Intersection Improvement, DES 2000152

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

#### To Whom It May Concern:

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

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

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

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - <a href="http://www.fws.gov/midwest/endangered/section7/s7process/index.html">http://www.fws.gov/midwest/endangered/section7/s7process/index.html</a>. This website contains step-by-step instructions which will help you

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

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

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

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

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

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

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

11/08/2023

Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

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

#### Attachment(s):

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

## **OFFICIAL SPECIES LIST**

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

This species list is provided by:

**Indiana Ecological Services Field Office** 620 South Walker Street Bloomington, IN 47403-2121 (812) 334-4261

## **PROJECT SUMMARY**

Project Code: 2024-0014310

Project Name: US 36 and Raider Road, Intersection Improvement, DES 2000152

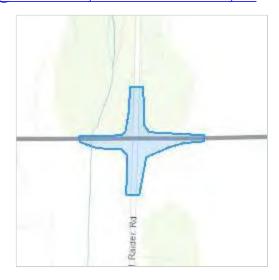
Project Type: Road/Hwy - Maintenance/Modification

Project Description: This project is located at the intersection of US 36 and Raider Road in

Henry County, Indiana. The proposed project is anticipated to convert the existing intersection into a single lane roundabout. Additionally, drainage improvements include the installation of new curb turnouts, new drainage structures, and ditch grading. Utility relocations for utility poles will be required at the corners of the existing intersection. Also, new street lighting and landscaping are anticipated. There is suitable summer habitat within the project action area. Approximately 0.27 acre of trees within 100 feet of the roadway are anticipated for removal during the inactive season. The trees to be removed are located on the northeast corner property and southeast corner property. Dominant tree species include black walnut (Juglans nigra) and European ash (Fraxinus excelsior). On July 7, 2022, INDOT Greenfield District Environmental personnel stated, "A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area." Construction is anticipated to begin in Summer 2025. Permanent lighting changes are anticipated due to the installation of new street lighting. Temporary lighting changes are assumed due to the potential for nighttime construction.

#### **Project Location:**

The approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@40.0045121,-85.52799558470582,14z">https://www.google.com/maps/@40.0045121,-85.52799558470582,14z</a>



Counties: Henry County, Indiana

## **ENDANGERED SPECIES ACT SPECIES**

No critical habitat has been designated for this species.

Species profile: https://ecos.fws.gov/ecp/species/758

There is a total of 5 threatened, endangered, or candidate species on this species list.

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

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

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

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

#### MAMMAI S

| WAWWALS  |                               |
|--|-------------------------------|
| NAME   | STATUS                        |
| Indiana Bat <i>Myotis sodalis</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5949">https://ecos.fws.gov/ecp/species/5949</a> | Endangered                    |
| Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>                                 | Endangered                    |
| Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a>  | Proposed<br>Endangered        |
| BIRDS  |                               |
| NAME   | STATUS                        |
| Whooping Crane <i>Grus americana</i> Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY)   | Experimental Population, Non- |

Essential

#### **INSECTS**

NAME STATUS

Monarch Butterfly *Danaus plexippus* 

Candidate

No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>

#### CRITICAL HABITATS

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

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

## **BALD & GOLDEN EAGLES**

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

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

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

THERE ARE NO BALD AND GOLDEN EAGLES WITHIN THE VICINITY OF YOUR PROJECT AREA.

## **MIGRATORY BIRDS**

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

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

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

THERE ARE NO FWS MIGRATORY BIRDS OF CONCERN WITHIN THE VICINITY OF YOUR PROJECT AREA.

## **WETLANDS**

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

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

WETLAND INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE VISIT <a href="https://www.fws.gov/wetlands/data/mapper.html">https://www.fws.gov/wetlands/data/mapper.html</a> OR CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

11/08/2023

## **IPAC USER CONTACT INFORMATION**

Agency: Kaskaskia Engineering Group, LLC

Name: Chad Kelly

Address: 477 South Third Street

Address Line 2: Suite 280
City: Geneva
State: IL
Zip: 60134

Email ckelly@kaskaskiaeng.com

Phone: 6303329157



## United States Department of the Interior



#### FISH AND WILDLIFE SERVICE

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

In Reply Refer To: November 09, 2023

Project code: 2024-0014310

Project Name: US 36 and Raider Road, Intersection Improvement, DES 2000152

Subject: Concurrence verification letter for the 'US 36 and Raider Road, Intersection

Improvement, DES 2000152' project under the amended February 5, 2018, FHWA,

FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for

Transportation Projects within the Range of the Indiana Bat and Northern Long-eared

Bat (NLEB).

#### To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request dated November 09, 2023 to verify that the **US 36 and Raider Road, Intersection Improvement, DES 2000152** (Proposed Action) may rely on the concurrence provided in the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 *et seq.*).

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

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Proposed Action does not meet the criteria for a NLAA determination under the PBO. If we do <u>not</u> notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Proposed Action under the terms of the NLAA concurrence provided in the PBO. This verification period

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

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

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

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

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

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

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

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

## PROJECT DESCRIPTION

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

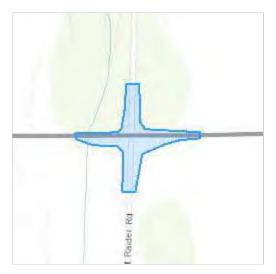
#### NAME

US 36 and Raider Road, Intersection Improvement, DES 2000152

#### **DESCRIPTION**

This project is located at the intersection of US 36 and Raider Road in Henry County, Indiana. The proposed project is anticipated to convert the existing intersection into a single lane roundabout. Additionally, drainage improvements include the installation of new curb turnouts, new drainage structures, and ditch grading. Utility relocations for utility poles will be required at the corners of the existing intersection. Also, new street lighting and landscaping are anticipated. There is suitable summer habitat within the project action area. Approximately 0.27 acre of trees within 100 feet of the roadway are anticipated for removal during the inactive season. The trees to be removed are located on the northeast corner property and southeast corner property. Dominant tree species include black walnut (Juglans nigra) and European ash (Fraxinus excelsior). On July 7, 2022, INDOT Greenfield District Environmental personnel stated, "A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area." Construction is anticipated to begin in Summer 2025. Permanent lighting changes are anticipated due to the installation of new street lighting. Temporary lighting changes are assumed due to the potential for nighttime construction.

The approximate location of the project can be viewed in Google Maps: <a href="https://www.google.com/maps/@40.0045121,-85.52799558470582,14z">https://www.google.com/maps/@40.0045121,-85.52799558470582,14z</a>



## **DETERMINATION KEY RESULT**

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

## QUALIFICATION INTERVIEW

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

#### Automatically answered

Yes

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

#### Automatically answered

Yes

- 3. Which Federal Agency is the lead for the action?
  - *A)* Federal Highway Administration (FHWA)
- 4. Are *all* project activities limited to non-construction<sup>[1]</sup> activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)
  - [1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting. No
- 5. Does the project include *any* activities that are **greater than** 300 feet from existing road/rail surfaces<sup>[1]</sup>?
  - [1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

No

- 6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum<sup>[1]</sup>?
  - [1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

- 7. Is the project located **within** a karst area? *No*
- 8. Is there *any* suitable<sup>[1]</sup> summer habitat for Indiana Bat or NLEB **within** the project action area<sup>[2]</sup>? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)
  - [1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat.
  - [2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the <u>User's Guide for the Range-wide Programmatic Consultation for Indiana Bat and Northern Long-eared Bat</u>.

Yes

- 9. Will the project remove *any* suitable summer habitat<sup>[1]</sup> and/or remove/trim any existing trees **within** suitable summer habitat?
  - [1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*
- 10. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail? *No*
- 11. Have presence/probable absence (P/A) summer surveys<sup>[1][2]</sup> been conducted<sup>[3][4]</sup> **within** the suitable habitat located within your project action area?
  - [1] See the Service's <u>summer survey guidance</u> for our current definitions of suitable habitat.
  - [2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.
  - [3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.
  - [4] Negative presence/probable absence survey results obtained using the <u>summer survey guidance</u> are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

- 12. Does the project include activities within documented Indiana bat habitat<sup>[1][2]</sup>?
  - [1] Documented roosting or foraging habitat for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)
  - [2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

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

Yes

- 14. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors occur<sup>[1]</sup>?
  - [1] Coordinate with the local Service Field Office for appropriate dates.
  - B) During the inactive season
- 15. Does the project include activities within documented NLEB habitat<sup>[1][2]</sup>?
  - [1] Documented roosting or foraging habitat for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)
  - [2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

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

Yes

- 17. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?
  - B) During the inactive season
- 18. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces? *Yes*
- 19. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

20. Are *all* trees that are being removed clearly demarcated?

Yes

21. Will the removal of habitat or the removal/trimming of trees include installing new or replacing existing **permanent** lighting?

Yes

22. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

No

23. Does the project include slash pile burning?

No

24. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?

No

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

No

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

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

Yes

Yes

28. Will the project install *any* new or replace any existing **permanent** lighting in addition to the lighting already indicated for habitat removal (including the removal or trimming of trees) or bridge/structure removal, replacement or maintenance activities?

29. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **permanent** lighting (other than the lighting already indicated for habitat removal (including the removal or trimming of trees) or bridge/structure removal, replacement or maintenance activities) will be installed or replaced?

Yes

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

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

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

Yes

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

No

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

#### Automatically answered

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

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

#### Automatically answered

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

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

#### Automatically answered

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

#### 36. General AMM 1

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

Yes

#### 37. Tree Removal AMM 1

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

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

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

Yes

#### 38. Tree Removal AMM 3

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

Yes

#### 39. Tree Removal AMM 4

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

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

Yes

#### 40. Lighting AMM 2

Does the lead agency use the BUG (Backlight, Uplight, and Glare) system developed by the Illuminating Engineering Society<sup>[1]</sup> to rate the amount of light emitted in unwanted directions?

[1] Refer to The BUG System—A New Way To Control Stray Light

Yes

#### 41. Lighting AMM 2

Will the **permanent** lighting used during removal of suitable habitat and/or the removal/ trimming of trees within suitable habitat be designed to be as close to 0 for all three BUG ratings as possible, with a priority of "uplight" of 0 and "backlight" as low as practicable? *Yes* 

#### 42. Lighting AMM 1

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

Yes

#### 43. Lighting AMM 2

Does the lead agency use the BUG (Backlight, Uplight, and Glare) system developed by the Illuminating Engineering Society<sup>[1]</sup> to rate the amount of light emitted in unwanted directions?

[1] Refer to The BUG System—A New Way To Control Stray Light

Yes

#### 44. Lighting AMM 2

Will the **permanent** lighting (other than any lighting already indicated for tree clearing or bridge/structure removal, replacement or maintenance activities) be designed to be as close to 0 for all three BUG ratings as possible, with a priority of "uplight" of 0 and "backlight" as low as practicable?

Yes

## **PROJECT QUESTIONNAIRE**

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

N/A

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

N/A

- 3. How many acres<sup>[1]</sup> of trees are proposed for removal between 0-100 feet of the existing road/rail surface?
  - [1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0.27

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

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

#### TREE REMOVAL AMM 1

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

#### **LIGHTING AMM 1**

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

#### **TREE REMOVAL AMM 2**

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

#### **LIGHTING AMM 2**

When installing new or replacing existing permanent lights, use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting); or for those transportation agencies using the BUG system developed by the Illuminating Engineering Society, be as close to 0 for all three ratings with a priority of "uplight" of 0 and "backlight" as low as practicable.

#### TREE REMOVAL AMM 3

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

#### **TREE REMOVAL AMM 4**

Do not remove **documented** Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or

**documented** foraging habitat any time of year.

#### **GENERAL AMM 1**

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

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

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

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

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

## **IPAC USER CONTACT INFORMATION**

Agency: Indiana Department of Transportation

Name: Delaney Weston Address: 32 S Broadway City: Greenfield

State: IN Zip: 46140

Email dweston@indot.in.gov

Phone: 3174673901

## LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

## **APPENDIX D**

Section 106 of the NHPA

# FEDERAL HIGHWAY ADMINISTRATION'S SECTION 4(F) COMPLIANCE REQUIREMENTS (for historic properties) AND SECTION 106 FINDINGS AND DETERMINATIONS AREA OF POTENTIAL EFFECTS ELIGIBILITY DETERMINATIONS EFFECT FINDING

US 36 AND RAIDER ROAD INTERSECTION IMPROVEMENT PROJECT IN HENRY COUNTY, INDIANA.
DES. NO.: 2000152; DHPA NO.: 30075

#### **AREA OF POTENTIAL EFFECTS**

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

The Area of Potential Effects (APE) was generally drawn to include properties adjacent to and/or within view of the project. The APE for archaeology includes all existing permanent and proposed right-of way; it is encompassed by the survey area which includes the archaeology APE and any areas investigated beyond it (See Appendix A: Maps).

#### **ELIGIBILITY DETERMINATIONS**

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

No properties are listed in, or eligible for listing in, the National Register of Historic Places (National Register) within the APE.

#### **EFFECT FINDING**

The Indiana Department of Transportation (INDOT), acting on behalf of the Federal Highway Administration (FHWA), has determined a "No Historic Properties Affected" finding is appropriate for this undertaking. INDOT respectfully requests the Indiana State Historic Preservation Officer provide written concurrence with the Section 106 determination of effect.

#### SECTION 4(F) COMPLIANCE REQUIREMENTS (for historic properties)

The undertaking will not convert property from any Section 4(f) historic property to a transportation use; 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.

Matt S. Coon, for FHWA

Manager

**INDOT Cultural Resources** 

December 28, 2023

Approved Date

FEDERAL HIGHWAY ADMINISTRATION'S
DOCUMENTATION OF SECTION 106 FINDING OF
NO HISTORIC PROPERTIES AFFECTED
SUBMITTED TO THE STATE HISTORIC PRESERVATION OFFICER
PURSUANT TO 36 CFR Section 800.4(d)(1)
US 36 AND RAIDER ROAD INTERSECTION IMPROVEMENT PROJECT
IN HENRY COUNTY, INDIANA.
DES. NO.: 2000152; DHPA NO.: 30075

#### 1. DESCRIPTION OF THE UNDERTAKING

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration, proposes to proceed with the United States Highway (US) 36 and Raider Road Intersection Improvement Project (DES No. 2000152). (Appendix A: Maps and Appendix F: Plans).

The proposed project will convert the existing intersection into single lane roundabout. Drainage improvements will include installation of curb turnouts, new drainage structures, and ditch grading. Utility relocations for utility poles will be required at the corners of the existing intersection. Intersection improvements will also include new street lighting and landscaping. The project requires the acquisition of 1.35 acres of permanent ROW and 0.40 acre of temporary ROW. Proposed ROW widths vary along US 36 from 40 feet to 70 feet from centerline and vary along Raider Road from 10 feet to 60 feet from centerline. The project will be approximately 0.29 mile in length. No relocations are planned. The proposed method of traffic maintenance is anticipated to be a full closure when school is not in session, utilizing a detour via SR 38 and SR 3. Approximately 0.27 acre of trees will be cleared as part of this project. The project is anticipated to begin construction in late Spring or early Summer of 2025. (Appendix F: Plans).

The Area of Potential Effects (APE) is "the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist. The area of potential effects is influenced by the scale and nature of an undertaking and may be different for different kinds of effects caused by the undertaking." [36 CFR § 800.16(d)]

The APE was generally drawn to include properties adjacent to and/or within view of the project (Appendix A: Maps).

The APE for archaeology includes all existing and proposed right-of way; it is encompassed by the survey area which includes the archaeology APE and any areas investigated beyond it (Appendix A: Maps).

#### 2. EFFORTS TO IDENTIFY HISTORIC PROPERTIES

A Section 106 Early Coordination Letter (ECL), dated November 14, 2022, invited the following consulting parties to join in consultation:

- Indiana Landmarks Eastern Regional Office
- Henry County Historical Society and Museum
- Middletown/Fall Creek Township Historical Society
- Preserve Henry County, Inc.

- Henry County Historian
- Henry County Commissioners
- Henry County Planning Commission
- Henry County Highway Department

Emails sent the same day provided instructions for accessing the ECL via INSCOPE (http://erms.indot.in.gov/Section106Documents). The SHPO, a designated consulting party, was sent a paper copy of the ECL (Appendix B. Consulting Parties and Appendix C. Correspondence).

On November 15, 2022, INDOT distributed the ECL to the following Tribes (Appendix C: Correspondence):

- Delaware Tribe of Indians
- Eastern Shawnee Tribe of Oklahoma
- Miami Tribe of Oklahoma
- Peoria Tribe of Indians of Oklahoma
- Pokagon Band of Potawatomi Indians
- Shawnee Tribe

On November 15, 2022, Bobbi Plummer, a Henry County Commissioner, responded to the ECL, stating that she had received calls from constituents about the project and "no one is in agreement nor happy about this proposed project. I have to agree with my constituents that this project should not move forward as a roundabout." She added that she has "concerns regarding the proximity to the schools that are located at US 36 and Raider Rd as well as the farming equipment and over the road trucks being able to safely traverse the single lane roundabout." W&A responded to this email on November 15, 2023 and added Commissioner Plummer as a consulting party (Appendix C: Correspondence).

On November 15, 2022, Ed Tarantino, a Henry County Commissioner, responded to the ECL, stating that his opinion is that [the intersection] should "remain as it is, or simply install a light. A round about seems like a great deal of work and disruption of the entire intersection with very little or perhaps nothing to gain." W&A responded to this email on November 15, 2023 and added Commissioner Tarantino as a consulting party (Appendix C: Correspondence).

On November 15, 2022, Steve Dellinger, a Henry County Commissioner, responded to the ECL, stating that he "fail[ed] to see the logic of a roundabout at this location as opposed to a stop light..." and that while he understood the concern for safety, "it seems like a roundabout is going overboard." He stated that he has "gotten NO positive response for proceeding with this plan for the roundabout." W&A responded to this email on November 16, 2023 and added Commissioner Dellinger as a consulting party (Appendix C: Correspondence).

On November 15, 2022, the Tribal Historic Preservation Officer (THPO) of the Delaware Tribe responded to the ECL and stated that "[a]fter reviewing our files, we determined that there are no known religious or culturally significant sites within the selected project area. We have no objection to the proposed project." The THPO asked that "if any archaeological or historical materials (artifacts, subsurface features, etc.) are discovered during the implementation of this project that work in the immediate area be halted until an archaeologist can view and assess the finds." Additionally, the THPO asked "that if any human remains are inadvertently discovered during the project that you cease development immediately and inform the Delaware Tribe of

Indians of the discovery. We ask that you follow the Delaware Tribe's Inadvertent Discovery Policy" (Appendix C: Correspondence).

On November 16, 2022, Indiana Landmarks responded to the ECL, stating that they had concerns about how this project would affect the Fall Creek District School on the northwest corner of US 36 and Raider Road" W&A responded to this email on November 16, 2023 and added Indiana Landmarks as a consulting party (Appendix C: Correspondence).

On November 18, 2022, Commissioner Tarantino responded to W&A and asked why the roundabout is being considered at the US 36 and Raider Road intersection. Commissioner Tarantino stated that his accident records show very few accidents at the intersection over the past several years. W&A responded on the same day stating that the question would be forwarded to INDOT and the project manager for consideration (Appendix C: Correspondence).

On November 21, 2022, the Miami Tribe of Oklahoma THPO responded to the ECL and offered "no objection to the above-referenced project at this time." The THPO requested immediate consultation if "any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) or archaeological evidence is discovered during any phase of this project…" (Appendix C: Correspondence).

On November 30, 2022, the staff of the SHPO responded to the ECL, stating that they were "not aware of any parties who should be invited to participate in the Section 106 consultation... beyond those whom INDOT already has invited." The SHPO staff stated that "if right-of-way is likely to be taken from a potentially historic property, it might be advisable to invite the owner of the property as soon as possible." The staff also asked to be advised in the "next regular correspondence on this project ... as to which of the invited consulting parties has accepted the invitation." Finally, the SHPO staff stated they looked forward to reviewing forthcoming "reports on investigations of above-ground and archaeological resources" (Appendix C: Correspondence).

The Eastern Shawnee responded to the ECL on December 27, 2022. The THPO stated that "the project proposes **NO Adverse Effect** or endangerment to known sites of interest to the Eastern Shawnee Tribe. The THPO, however, said that "should this project inadvertently discover an archeological site or object(s) we request that you immediately contact the Eastern Shawnee Tribe, as well as the appropriate state agencies (within 24 hours). We also ask that all ground disturbing activity stop until the Tribe and State agencies are consulted" (Appendix C: Correspondence).

Pursuant to 36 CFR § 800.4(b), historians for Weintraut & Associates (W&A) reviewed the National Register of Historic Places (National Register), Indiana Register of Historic Sites and Structures (State Register), Indiana Historic Sites and Structures Inventory (IHSSI), the State Historical Architectural and Archaeological Research Database (SHAARD), the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM), the Indiana Historic Bridge Inventory, and the Henry County Interim Report (1993) for previously identified properties. They also reviewed prior Section 106 studies completed by W&A and conducted research in county histories, aerial photographs, and online resources.

Following the literature review, W&A conducted a field reconnaissance of the above-ground APE on December 15, 2022 (see details below). W&A historians recorded survey notes and took photographs of properties that would be more than fifty years of age by the letting date, which is 2025, and photographed representative landscapes/views of the APE. Historians evaluated

resources for architectural and contextual integrity and significance using the information gleaned from their research (Appendix A: Maps and Appendix D: Photographs).

Pursuant to 36 CFR § 800.4(b), W&A archaeologists conducted a Phase Ia records check on January 30, 2023, and a field reconnaissance on February 8, 2023. The records check identified no previously recorded sites in the survey area. (Appendix E: Report Summaries).

Qualified professional (QP) historians for W&A prepared a Historic Property Short Report (HPSR). Historians identified one Contributing resource within the APE and recommended no properties as eligible for listing in the National Register. W&A notified consulting parties of the availability of the HPSR on May 8, 2023, and provided directions to access it and the transmittal letter (dated May 5, 2023) on INDOT's online document portal INSCOPE (at https://erms12c.indot.in.gov/Section106Documents/). In addition, paper copies of the documents were sent to the Indiana SHPO as a designated consulting party for review and comment on the same day. INDOT was copied on the correspondence (Appendix C: Correspondence and Appendix E: Report Summaries).

On May 9, 2023, INDOT notified tribal organizations of the availability of the HPSR and provided directions to access the transmittal letter and reports on INSCOPE (Appendix C: Correspondence).

On May 12, 2023, Indiana Landmarks responded to the HPSR and asked if the Fall Creek District School would be undisturbed by the roundabout project or if it would have work done to it. (Appendix C: Correspondence).

In response to Landmarks question, project designers have stated that the former school/ residence will be left undisturbed. Current plans would reconstruct some of its driveway and remove a few feet of its concrete walk near US 36. Additionally, there will be some permanent and temporary right-of-way taken from the property.

On May 30, 2023, Indiana SHPO responded to the HPSR via letter. The SHPO staff stated that the APE "appears to be of adequate size to encompass the geographic area in which direct and indirect effects of a project of this nature could occur." Additionally, the SHPO staff agreed with the conclusions of the HPSR that "there are no historic properties listed in or eligible for listing in the National Register of Historic Places within the APE for this project." The SHPO staff looked forward to reviewing the forthcoming report on archaeological resources. (Appendix C: Correspondence.)

Qualified professional (QP) archaeologists for W&A prepared an Archaeology Report (AR) (Goldbach, September 2023). The report identified two new archaeological sites—12HN524 and 12HN525. Both sites were historic artifact scatters that lack deposits or features with the potential to yield important information that would meet National Register eligibility. Based on the results of the fieldwork, the archaeologist recommended "project clearance and no further archaeological investigations appear necessary" for the sites. SHPO was notified of the availability of the AR and a report distribution letter on October 13, 2023, while other consulting parties were notified on October 16, 2023. INDOT was copied on all correspondence. In addition, a paper copy of the document was sent to the Indiana SHPO as a designated consulting party for review and comment (Appendix C: Correspondence and Appendix E: Report Summaries).

On October 13, 2023, INDOT notified tribal organizations of the availability of the AR and the report distribution letter on INSCOPE (Appendix C: Correspondence).

On November 1, 2023, staff from the Indiana SHPO responded to the AR and its distribution letter. The staff of the SHPO concurred with the opinion of the archaeologist "that further archaeological investigation of the portion of sites 12HN524 and 12HN525 surveyed for this project are unlikely to produce additional important information and no further work in these areas is warranted." However, the staff noted that the unsurveyed portions of the sites remain unevaluated for inclusion in the National Register and that if the "project boundaries change at these site locations, further archaeological investigations will be necessary to delineate the site boundaries and provide an evaluation." The staff of the SHPO stated that the surveyed limits "be clearly marked at sites 12HN524 and 12HN525 so that the unsurveyed portions of these sites are avoided by all ground-disturbing project activities." Finally, the SHPO Staff stated that "[u]nless another consulting party expresses a different opinion about historic properties, it might now be appropriate to ask INDOT for a finding." (Appendix B: Correspondence).

On December 6, 2023, the THPO of the Eastern Shawnee Tribe responded to the AR stating that "the project proposes **NO Adverse Effect** or endangerment to known sites of interest to the Eastern Shawnee Tribe." The THPO, however, said that "should this project inadvertently discover an archeological site or object(s) we request that you immediately contact the Eastern Shawnee Tribe, as well as the appropriate state agencies (within 24 hours). We also ask that all ground disturbing activity stop until the Tribe and State agencies are consulted" (Appendix C: Correspondence).

No other efforts were undertaken to identify and evaluate historic properties, and no other comments were received.

#### 3. BASIS FOR FINDING

A finding of "No Historic Properties Affected" is appropriate for this undertaking because there are no resources listed in, or eligible for listing in, the National Register within the APE.

A public notice of "No Historic Properties Affected" will be posted in the *Courier-Times* (Henry County), and the public will be afforded thirty (30) days to respond. If appropriate, this document will be revised after the expiration of the public comment period.

#### **Appendices**

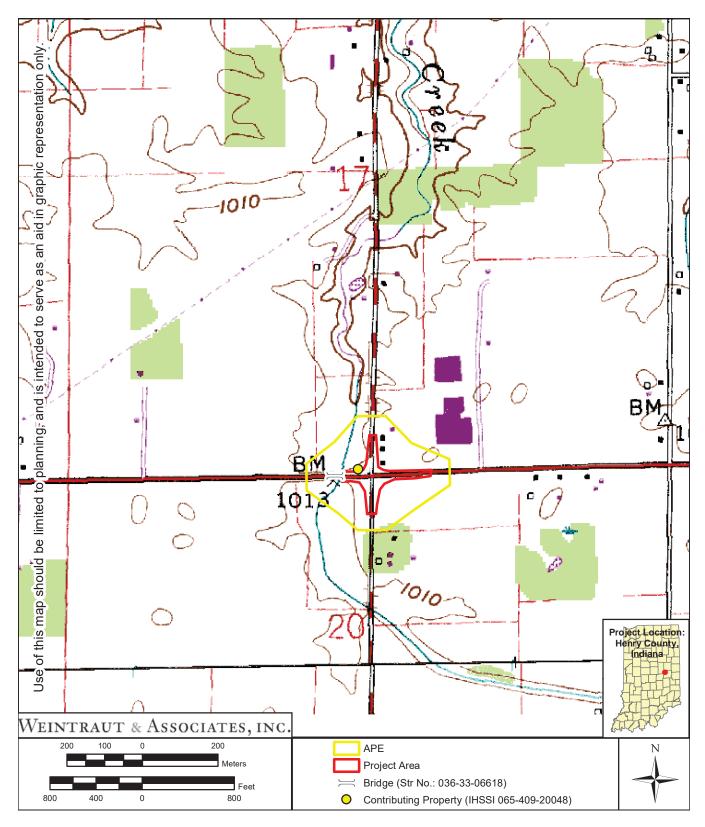
Appendix A: Maps
Appendix B: Consulting Parties
Appendix C: Correspondence
Appendix D: Photographs

Appendix E: Report Summaries

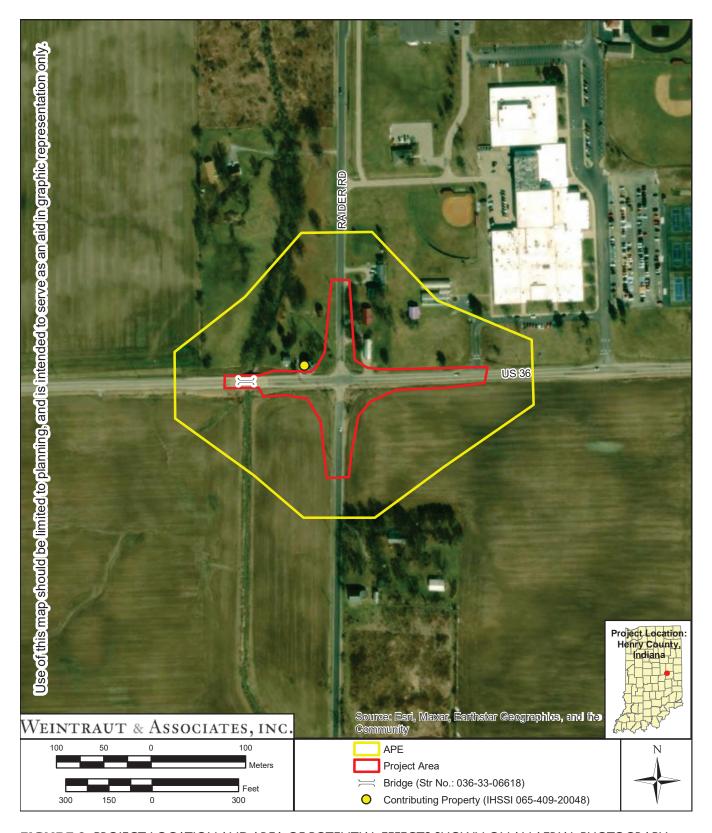
Appendix F: Plans

Project plans have been omitted to avoid duplication. Please see plans in Appendix B of this CE document.

### Appendix A: Maps



**FIGURE 1.** PROJECT LOCATION AND AREA OF POTENTIAL EFFECTS SHOWN ON PORTIONS OF THE MIDDLE-TOWN, INDIANA USGS TOPOGRAPHIC QUADRANGLE (1:24,000).



**FIGURE 2.** PROJECT LOCATION AND AREA OF POTENTIAL EFFECTS SHOWN ON AN AERIAL PHOTOGRAPH (2021).

### **Appendix B: Consulting Parties**

| US36 and Raider R   | oad Intersection I | mprovement Project            |           |  |       |     |        |                                  |                  |
|---------------------|--------------------|-------------------------------|-----------|--|-------|-----|--------|----------------------------------|------------------|
| Des No.: 2000152    |                    |                               |           |  |       |     |        |                                  |                  |
| Henry County, India | ana                |                               |           |  |       |     |        |                                  |                  |
|                     |                    |                               |           |  |       |     |        |                                  |                  |
| N                   | Title              | A/C                           | A J.J 1   | C:t-   | C4-4- | 7:  | M-41 1 | Nadaa                            | D 2              |
| Name                | Title              | Agency/Company                | Address 1 | City   | State | Zip | Method | Notes                            | Response?        |
|                     |                    |                               |           |  |       |     |        | bmccord@dnr.in.g                 |                  |
|                     |                    |                               |           |  |       |     |        | ov;                              |                  |
|                     |                    | Indiana SHPO                  |           |  |       |     | email  | cslider@dnr.in.gov               | Yes (Designated) |
|                     |                    | Indiana Landmarks Eastern     |           |  |       |     |        | east@indianaland                 | YES (email       |
| Brittany Miller     |                    | Regional Office               |           |  |       |     | email  | marks.org                        | 11/16/2022)      |
|                     |                    |                               |           |  |       |     |        |                                  |                  |
|                     |                    | Henry County Historical       |           |  |       |     |        | henrycountymuseu                 |                  |
| Kaye Ford           | Director           | Society & Museum              |           |  |       |     | email  | m@gmail.com                      |                  |
|                     |                    | Middletown/Fall Creek         |           |  |       |     |        |                                  |                  |
| Jacob Smith         | President          | Township Historical Society   |           |  |       |     | email  | contact@middleto<br>wnhistory.us |                  |
|                     |                    |                               |           |  |       |     |        |                                  |                  |
| Jeff Ray            | D                  | Preserve Henry County, Inc    |           |  |       |     |        | <u>Jaray56@gmail.co</u><br>m     |                  |
|                     | President          |                               |           |  |       |     |        | _                                |                  |
| Darrel Radford      |                    | Henry County Historian        |           |  |       |     | email  | d.radford@comca<br>st.net        |                  |
| Darret Radioid      |                    | Henry County                  |           |  |       |     | Cilian | <u> </u>                         | YES (email       |
| Ed Tarantino        |                    | Commissioner                  |           |  |       |     | email  | county.in.gov                    | 11/15/2022)      |
| Du Turumiu          |                    | Henry County                  |           |  |       |     | -      | sdellinger@henryc                | YES (email       |
| Steve Dellinger     |                    | Commissioner                  |           |  |       |     | email  | ounty.in.gov                     | 11/15/2022)      |
| Ö                   |                    | Henry County                  |           |  |       |     |        | bplummer@henry                   | YES (email       |
| Bobbi Plummer       |                    | Commissioner                  |           |  |       |     | email  | county.in.gov                    | 11/15/2022)      |
|                     | Zoning             | Henry County Planning         |           |  |       |     |        | tgreen@henrycou                  |                  |
| Tom Green           | Administrator      | Commission                    |           |  |       |     | email  | nty.in.gov                       |                  |
| Joe Copeland        | Administrator      | Henry County Highway<br>Dept. |           |  |       |     |        | jcopeland@henryc                 |                  |
|                     |                    |                               |           |  |       |     | email  | ounty.in.gov                     |                  |
|                     |                    |                               |           |  |       |     |        |                                  |                  |
|                     |                    | Delaware Tribe of Indians     |           | INDOT Coordination   |       |     |        |                                  | YES (email       |
|                     |                    | relaware Tribe of Indians     |           |  |       |     |        |                                  | 11/15/2022)      |
|                     |                    |                               |           |  |       |     |        |                                  | =-,              |
|                     |                    | Eastern Shawnee Tribe of      |           | INDOT Coordination   |       |     |        |                                  |                  |
|                     |                    | Oklahoma                      |           |  |       |     |        |                                  | YES (email       |
|                     |                    |                               |           |  |       |     |        |                                  | 12/27/2022)      |
|                     |                    | Miami Tribe of Oklahoma       |           |  |       |     |        |                                  | YES (email       |
|                     |                    |                               |           | INDOT Coordination   |       |     |        |                                  | 11/21/2022)      |
|                     |                    | Peoria Tribe of Indians of    |           |  |       |     |        |                                  |                  |
|                     |                    | Oklahoma                      |           | INDOT Coordination  INDOT Coordination  INDOT Coordination |       |     |        |                                  |                  |
|                     |                    |                               |           |  |       |     |        |                                  |                  |
|                     |                    | Pokagon Band of               |           |  |       |     |        |                                  |                  |
|                     |                    | Potawatomi Indians            |           |  |       |     |        |                                  |                  |
|                     |                    |                               |           |  |       |     |        |                                  |                  |
|                     |                    | Shawnee Tribe                 |           |  |       |     |        |                                  |                  |
|                     |                    |                               |           |  |       |     |        |                                  |                  |
|                     | 1                  | ı L                           |           |  |       |     | 1      |                                  | 1                |

### **Appendix C: Correspondence**

## FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project, Henry County, Indiana

#### Linda Weintraut < linda@weintrautinc.com>

Mon 11/14/2022 4:21 PM

To: bmccord@dnr.in.gov <bmccord@dnr.in.gov>;cslider@dnr.in.gov

- <cslider@dnr.in.gov>;east@indianalandmarks.org
- <east@indianalandmarks.org>;henrycountymuseum@gmail.com
- <henrycountymuseum@gmail.com>;contact@middletownhistory.us
- <contact@middletownhistory.us>;jaray56@gmail.com <jaray56@gmail.com>;d.radford@comcast.net
- <d.radford@comcast.net>;etarantino@henrycounty.ln.gov
- <etarantino@henrycounty.ln.gov>;sdellinger@henrycounty.in.gov
- <sdellinger@henrycounty.in.gov>;bplummer@henrycounty.in.gov
- <bplummer@henrycounty.in.gov>;tgreen@henrycounty.in.gov
- <tgreen@henrycounty.in.gov>;jcopeland@henrycounty.in.gov
- <jcopeland@henrycounty.in.gov>;DHPAReview@dnr.IN.gov <DHPAReview@dnr.IN.gov>

Cc: Kelly, Clint < CKelly1@indot.IN.gov>;Coon, Matthew < mcoon@indot.IN.gov>;Branigin, Susan

- <SBranigin@indot.IN.gov>;Molly Barletta <MBarletta@kaskaskiaeng.com>;Hiller, Jerod
- <jahiller@fishbeck.com>;Doug Fivecoat <dfivecoat@weintrautinc.com>;Brinker, Haley
- <HBrinker@indot.IN.gov>;Mcghghy, Donald <DMcghghy@indot.IN.gov>;Ron Bales <rbales@indot.IN.gov>



US36\_RaiderRd\_Des2000152\_Section 106 ECL\_2022.1114.pdf;

Des. No.: 2000152

Project Description: US 36 and Raider Road Intersection Improvement Project

Location: Henry County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the US 36 and Raider Road Intersection Improvement Project (Des No.: 2000152).

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. The following agencies/individuals are being invited to become consulting parties:

State Historic Preservation Officer

Delaware Tribe of Indians

Eastern Shawnee Tribe of Oklahoma

Miami Tribe of Oklahoma

Peoria Tribe of Indians of Oklahoma

Pokagon Band of Potawatomi Indians

Shawnee Tribe

Indiana Landmarks Eastern Regional Office

Henry County Historical Society and Museum

Middletown/Fall Creek Township Historical Society

Preserve Henry County, Inc.

Henry County Historian

**Henry County Commissioners** 

Henry County Planning Commission

Henry County Highway Department

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

Please review the attached letter, which is also located in IN SCOPE at <a href="http://erms.indot.in.gov/Section106Documents/">http://erms.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with your comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. If we do not receive a response from an invited consulting party within the time allotted, the project will proceed consistent with the proposed design. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

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

Thank you in advance for your input,

Linda Weintraut, Ph.D. Weintraut & Associates, Inc.



#### INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (855) 463-6848

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

November 14, 2022

This letter was sent to the listed parties.

RE: US 36 and Raider Road Intersection Improvement Project (Des. No.: 2000152) in Henry County, Indiana.

Dear Consulting Party (see attached list),

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration, proposes to proceed with United States Highway (US) 36 and Raider Road Intersection Improvement. Kaskaskia Engineering Group, LLC is under contract with Fishbeck, INDOT's consultant, to advance the environmental documentation for the referenced project. Weintraut & Associates is under contract with Fishbeck to complete the cultural resource studies.

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply, and your comments will be incorporated into the formal environmental study.

The proposed undertaking is located at the intersection of US 36 and Raider Road in Henry County, Indiana. It is within Fall Creek Township on the Middletown USGS Quadrangle, in Section 17 and 20, Township 18 North, Range 9 East. The project area can be viewed online at <a href="https://arcg.is/jqueP">https://arcg.is/jqueP</a> (the Des. No. is the most efficient search term once in the CRO - Public Web Map App).

US 36 and Raider Road are two-lane *Rural Major Collectors*. The existing US 36 and Raider Road cross sections consist of one 12-foot lane in each direction with 5-foot aggregate shoulders. The approximate existing right-of-way (ROW) is 40 feet each side of centerline on US 36 and 10 feet each side of centerline on Raider Road. The need is to improve the Index of Crash Frequency (ICF), the Index of Crash Cost (ICC), and the level of service (LOS) for the intersection. In 2017, a traffic study reported an ICF of 0.57 and an ICC of 0.85. Another study performed in 2019 reported a marked increase in the ICF (1.77) and the ICC (2.12). The purpose of the project is to reduce crash potential and provide a long-term solution to ensure safe and efficient operation of the intersection.

The proposed project is anticipated to convert the existing intersection into single lane roundabout. Drainage improvements will include installation of curb turnouts, new drainage structures, and ditch grading. Utility

 $<sup>^{1}</sup>$  Engineering Assessment Report – US 36 & Raider Road Intersection Improvement, produced for Indiana Department of Transportation, 2019, 4.



relocations for utility poles will be required at the corners of the existing intersection. Intersection improvements will also include new street lighting and landscaping. The project requires the acquisition of 1.35 acres of permanent ROW and 0.40 acre of temporary ROW. Proposed ROW widths vary along US 36 from 40 feet to 70 feet from centerline and vary along Raider Road from 10 feet to 60 feet from centerline. The project will be approximately 0.29 mile in length. No relocations are planned. The proposed method of traffic maintenance is anticipated to be a full closure when school is not in session, utilizing a detour via SR 38 and SR 3. Approximately 0.27 acre of trees will be cleared as part of this project. The project is anticipated to begin construction in late Spring or early Summer of 2025.

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. In accordance with 36 CFR 800.2 (c), you are hereby requested to be a consulting party to participate in the Section 106 process. Entities that have been invited to participate in the Section 106 consultation process for this project are identified in the attached list. Per 36 CFR 800.3(f), we hereby request that the Indiana State Historic Preservation Officer (SHPO) notify this office if the SHPO staff is aware of any other parties that may be entitled to be consulting parties or should be contacted as potential consulting parties for the project.

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

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. At this time, no cultural resource investigations have occurred; however, the results of cultural resource identification and evaluation efforts, both above-ground and archaeological, will be forthcoming. Consulting parties will receive notification when these reports are completed.

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

For questions concerning specific project details, you may contact Dr. Linda Weintraut of Weintraut & Associates, Inc. at (317) 733-9770 or Linda@weintrautinc.com. All future responses regarding the proposed project should be forwarded to Weintraut & Associates, Inc. at the following address:

Linda Weintraut, Ph.D. Weintraut & Associates, Inc. P.O. Box 5034 Zionsville, IN 46077 Linda@weintrautinc.com



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

Sincerely,

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

#### **Enclosures:**

Topographic map showing project area

#### **Distribution List:**

State Historic Preservation Officer Delaware Tribe of Indians Eastern Shawnee Tribe of Oklahoma Miami Tribe of Oklahoma Peoria Tribe of Indians of Oklahoma Pokagon Band of Potawatomi Indians Shawnee Tribe

Indiana Landmarks Eastern Regional Office, east@indianalandmarks.org Henry County Historical Society and Museum, henrycountymuseum@gmail.com Middletown/Fall Creek Township Historical Society, contact@middletownhistory.us Preserve Henry County, Inc., Jaray56@gmail.com

Henry County Historian

Daniel Radford, d.radford@comcast.com

Henry County Commissioners

Ed Tarantino, etarantino@henrycounty.in.gov Steve Dellinger, sdellinger@henrycounty.in.gov Brian Plummer, bplummer@henrycounty.in.gov

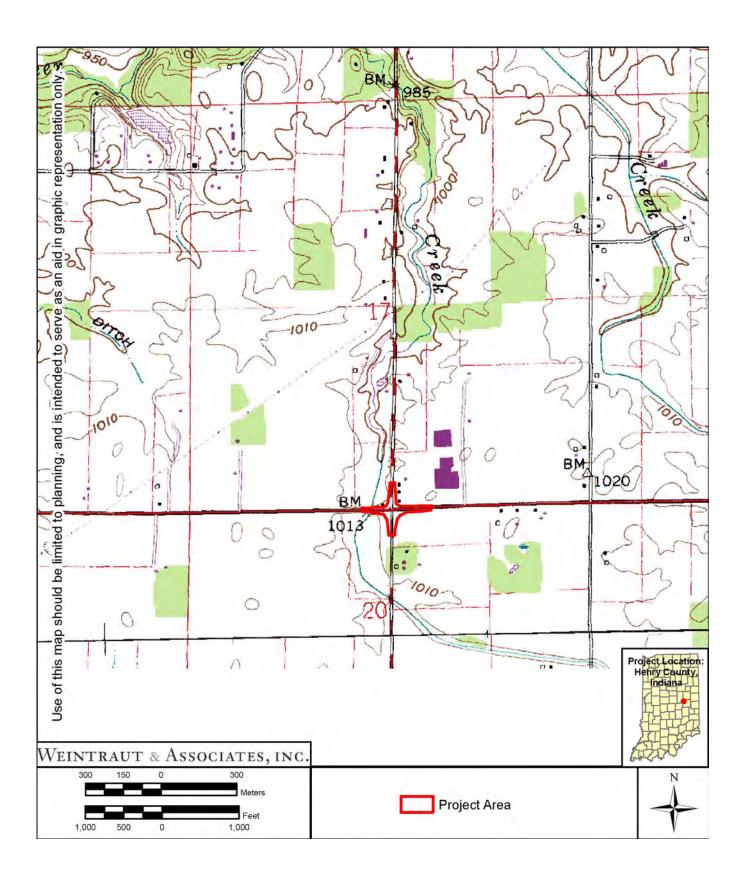
Henry County Planning Commission

Timothy Green, tgreen@henrycounty.in.gov

Henry County Highway Department

*Joe Copeland*, *jcopeland@henrycounty.in.gov* 









## FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project, Henry County, Indiana

Kelly, Clint < CKelly1@indot.IN.gov>

Tue 11/15/2022 6:52 PM

To: THPO@MiamiNation.com <THPO@MiamiNation.com>;thpo@estoo.net

<thpo@estoo.net>;cechohawk@peoriatribe.com

<cechohawk@peoriatribe.com>;Matthew.Bussler@pokagonband-nsn.gov <Matthew.Bussler@pokagonband-nsn.gov>;Section106@shawnee-tribe.com <Section106@shawnee-tribe.com>;Iheady@delawaretribe.org <Iheady@delawaretribe.org>;Susan Bachor <sbachor@DelawareTribe.onmicrosoft.com>

Cc: Coon, Matthew <mcoon@indot.IN.gov>;Branigin, Susan <SBranigin@indot.IN.gov>;Mcghghy, Donald <DMcghghy@indot.IN.gov>;Linda Weintraut linda@weintrautinc.com>;Doug Fivecoat <dfivecoat@weintrautinc.com>;Carmany-George, Karstin (FHWA) <k.carmanygeorge@dot.gov>;Brinker, Haley <HBrinker@indot.IN.gov>

Des. No.: 2000152

Project Description: US 36 and Raider Road Intersection Improvement Project

Location: Henry County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the US 36 and Raider Road Intersection Improvement Project (Des No.: 2000152).

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. The following agencies/individuals are being invited to become consulting parties:

State Historic Preservation Officer

Delaware Tribe of Indians

Eastern Shawnee Tribe of Oklahoma

Miami Tribe of Oklahoma

Peoria Tribe of Indians of Oklahoma

Pokagon Band of Potawatomi Indians

Shawnee Tribe

Indiana Landmarks Eastern Regional Office

Henry County Historical Society and Museum

Middletown/Fall Creek Township Historical Society

Preserve Henry County, Inc.

Henry County Historian

Henry County Commissioners

Henry County Planning Commission

Henry County Highway Department

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

Please review the attached letter, which is also located in IN SCOPE at <a href="http://erms.indot.in.gov/Section106Documents/">http://erms.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with your comments on any historic resource impacts incurred as a result of this

project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days. Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. If we do not receive a response from an invited consulting party within the time allotted, the project will proceed consistent with the proposed design. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

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

Thank you in advance for your input,

#### **Clint Kelly**

Section 106 Specialist/Historian Cultural Resources Office Environmental Services 100 N. Senate Ave., Rm. N758-ES Indianapolis, IN 46204

Office: (317) 447-8707 Email: <a href="mailto:ckelly1@indot.in.gov">ckelly1@indot.in.gov</a>

Core Office Hours: M-F 7:30-3:30





From: Bobbi Plummer

Sent: Tuesday, November 15, 2022 4:11 PM

**To:** Linda Weintraut; bmccord@dnr.in.gov; cslider@dnr.in.gov; east@indianalandmarks.org; henrycountymuseum@gmail.com; contact@middletownhistory.us; jaray56@gmail.com; d.radford@comcast.net; Ed Tarantino; Steve Dellinger; Tom Green; Joe Copeland;

DHPAReview@dnr.IN.gov

Cc: Kelly, Clint; Coon, Matthew; Branigin, Susan; Molly Barletta; Hiller, Jerod; Doug Fivecoat; Brinker,

Haley; Mcghghy, Donald; Ron Bales

Subject: RE: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project,

Henry County, Indiana

#### Linda:

As Henry County Commissioner, I have received calls from constituent in that area as the rumors began that INDOT was looking at placing a roundabout in that area. I will tell you, no one is in agreement nor happy about this proposed project. I have to agree with my constituents that this project should not move forward as a roundabout. I have concerns regarding the proximity to the schools that are located at US36 and Raider Rd as well as the farming equipment and over the road trucks being able to safely traverse the single lane roundabout. I recognize that I am not a highway nor traffic expert, however to the common person, this project in this location does not make sense.

I am open to hearing more about the project and the reasoning behind proposing these changes.

Thank you for reaching out to all parties involved for their input.

Respectfully,

Bobbi Plummer Henry County Commissioner 765-465-0571 From: Linda Weintraut
To: Bobbi Plummer

Subject: RE: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project, Henry County,

Indiana

**Date:** Tuesday, November 15, 2022 4:49:00 PM

Thank you for your comment. We will register you as a consulting party so that you continue to receive information about the project.

Linda Weintraut

From: Ed Tarantino <a href="mailto:etarantino@henrycounty.in.gov">etarantino@henrycounty.in.gov</a> Sent: Tuesday, November 15, 2022 3:36 PM
To: Linda Weintraut <a href="mailto:linda@weintrautinc.com">linda@weintrautinc.com</a>

Cc: Bobbi Plummer < <a href="mailto:bplummer@henrycounty.in.gov">bplummer@henrycounty.in.gov</a>; Steve Dellinger < <a href="mailto:sdellinger@henrycounty.in.gov">sdellinger@henrycounty.in.gov</a>

Subject: RE: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project, Henry County, Indiana

Linda, I have been driving through this particular intersection for over 40 years. My opinion is that it should remain as it is, or simply install a light. A round about seems like a great deal of work and disruption of the entire intersection with very little or perhaps nothing to gain. It is called an intersection improvement project, I don't believe that most people living in this area would consider this an improvement. Thank you for considering my opinion.

Ed Tarantino Henry County Commissioner 765-465-6984

From: Linda Weintraut < <a href="mailto:linda@weintrautinc.com">linda@weintrautinc.com</a> Sent: Monday, November 14, 2022 4:21 PM

To: <a href="mailto:bmccord@dnr.in.gov">bmccord@dnr.in.gov</a>; <a href="mailto:cong:dnr.in.gov">cstider@dnr.in.gov</a>; <a href="mailto:east@indianalandmarks.org">east@indianalandmarks.org</a>; <a href="mailto:henrycounty.in.gov">henrycounty.museum@gmail.com</a>; <a href="mailto:cong:dnr.in.gov">contact@middletownhistory.us</a>; <a href="mailto:jaray56@gmail.com">jaray56@gmail.com</a>; <a href="mailto:dnr.in.gov">dnr.in.gov</a>; <a href="mailto:bellinger<a href="mailto:sdellinger@henrycounty.in.gov">bellinger<a href="mailto:sde

Cc: Kelly, Clint < CKelly1@indot.IN.gov >; Coon, Matthew < mcoon@indot.IN.gov >; Branigin, Susan < SBranigin@indot.IN.gov >; Molly Barletta < MBarletta@kaskaskiaeng.com >; Hiller, Jerod < jahiller@fishbeck.com >; Doug Fivecoat < dfivecoat@weintrautinc.com >; Brinker, Haley < HBrinker@indot.IN.gov >; Mcghghy, Donald < DMcghghy@indot.IN.gov >; Ron Bales < rbales@indot.IN.gov >

Subject: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project, Henry County, Indiana

Des. No.: 2000152

Project Description: US 36 and Raider Road Intersection Improvement Project

Location: Henry County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the US 36 and Raider Road Intersection Improvement Project (Des No.: 2000152).

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. The following agencies/individuals are being invited to become consulting parties:

State Historic Preservation Officer
Delaware Tribe of Indians
Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians
Shawnee Tribe
Indiana Landmarks Eastern Regional Office
Henry County Historical Society and Museum
Middletown/Fall Creek Township Historical Society
Preserve Henry County, Inc.
Henry County Historian
Henry County Commissioners
Henry County Planning Commission
Henry County Highway Department

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

Please review the attached letter, which is also located in IN SCOPE at <a href="http://erms.indot.in.gov/Section106Documents/">http://erms.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with your comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. If we do not receive a response from an invited consulting party within the time allotted, the project will proceed consistent with the proposed design. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

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

Thank you in advance for your input,

Linda Weintraut, Ph.D. Weintraut & Associates, Inc. From: Linda Weintraut
To: Ed Tarantino

Cc: <u>Bobbi Plummer</u>; <u>Steve Dellinger</u>

Subject: RE: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project, Henry County,

Indiana

**Date:** Tuesday, November 15, 2022 4:49:00 PM

Thank you for your comment. We will register you as a consulting party so that you continue to receive information about the project.

Linda Weintraut

From: Steve Dellinger <sdellinger@henrycounty.in.gov>

**Sent:** Tuesday, November 15, 2022 8:38 PM **To:** Linda Weintraut < linda@weintrautinc.com>

**Cc:** Ed Tarantino <etarantino@henrycounty.in.gov>; Bobbi Plummer <bplummer@henrycounty.in.gov> **Subject:** Re: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project,

Henry County, Indiana

Linda, I was born and raised in Henry County. I fail to see the logic of a roundabout at this location as opposed to a stop light. I understand the need for safety at high profile intersections, but it seems like a roundabout is going overboard. As an elected official it is my responsibility to listen to my constituents and as the rumors started concerning this proposed project, I will have to say that I have gotten NO positive response for proceeding with this plan for the roundabout. I will continue to listen to residents and relay all concerns to you and your department.

Respectfully, Steve Dellinger, Henry County Commissioner

Sent from my iPhone

From: Linda Weintraut
To: Steve Dellinger

Cc: <u>Ed Tarantino</u>; <u>Bobbi Plummer</u>

Subject: RE: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project, Henry County,

Indiana

**Date:** Wednesday, November 16, 2022 3:23:00 PM

Thank you for your comment. We will register you as a consulting party so that you continue to receive information about the project.

Linda Weintraut

From: Kelly, Clint

Sent: Thursday, November 17, 2022 11:15 AM

**To:** Linda Weintraut

Cc: Branigin, Susan; Coon, Matthew; Mcghghy, Donald; Doug Fivecoat

Subject: RE: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project,

Henry County, Indiana

Hi Linda,

Please see below for a response from the Delaware Tribe of Indians.

Thanks, Clint

#### **Clint Kelly**

Section 106 Specialist/Historian Cultural Resources Office Environmental Services 100 N. Senate Ave., Rm. N758-ES Indianapolis, IN 46204

Office: (317) 447-8707
Email: ckelly1@indot.in.gov
Core Office Hours: M-F 7:30-3:30





From: Larry Heady <a href="mailto:lheady@delawaretribe.org">lheady@delawaretribe.org</a> Sent: Tuesday, November 15, 2022 10:04 PM

To: Kelly, Clint < CKelly1@indot.IN.gov>; Coon, Matthew < mcoon@indot.IN.gov>

Subject: Re: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project,

Henry County, Indiana

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

Dear Mr. Kelly and Mr. Coon:

Thank you for notifying the Delaware Tribe of the plans for the above-referenced project. The Delaware Tribe is committed to protecting sites and resources important to our tribal heritage, culture, and religion. After reviewing our files, we determined that there are no known religious or culturally significant sites within the selected project area. We have no objection to the proposed project.

We ask that if any archaeological or historical materials (artifacts, subsurface features, etc.) are discovered during the implementation of this project that work in the immediate area be halted until an archaeologist can view and assess the finds. Furthermore, we ask that if any human remains are

inadvertently discovered during the project that you cease development immediately and inform the Delaware Tribe of Indians of the discovery. We ask that you follow the Delaware Tribe's Inadvertent Discovery Policy. The Tribe reserves the right to engage in government-to-government consultation at any time during project implementation and to initiate its own archaeological investigation if warranted. If you have any questions, feel free to contact this office.

#### Wanishi! Anushiik! Thank You!

LARRY HEADY | Tribal Historic Preservation Officer Delaware Tribe of Indians
125 Dorry Lane | Grants Pass, OR 97527
262.825.7586 | Iheady@delawaretribe.org

"Preserving the Legacy of Lenape Culture and the Delaware Diaspora"

\_\_\_\_\_

I recognize that I am a guest in the ancient and sacred homeland of the living nations of the Coos, Hupa, Karuk, Klamath, Modoc, Takelma, Shasta, Siuslaw, Cow Creek Band of Umpqua, Yahooskin, and Yurok. I extend my respect and gratitude to the Indigenous people who call these lands home.

## RE: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project, Henry County, Indiana

#### Brittany Miller <br/> <br/> bmiller@indianalandmarks.org>

Wed 11/16/2022 10:21 AM

To: Linda Weintraut <linda@weintrautinc.com>;bmccord@dnr.in.gov <bmccord@dnr.in.gov>;cslider@dnr.in.gov

- <cslider@dnr.in.gov>;East <east@indianalandmarks.org>;henrycountymuseum@gmail.com
- <henrycountymuseum@gmail.com>;contact@middletownhistory.us <contact@middletownhistory.us>;jaray56@gmail.com
- <jaray56@gmail.com>;d.radford@comcast.net <d.radford@comcast.net>;etarantino@henrycounty.ln.gov
- <etarantino@henrycounty.ln.gov>;sdellinger@henrycounty.in.gov
- <sdellinger@henrycounty.in.gov>;bplummer@henrycounty.in.gov
- <bplummer@henrycounty.in.gov>;tgreen@henrycounty.in.gov <tgreen@henrycounty.in.gov>;jcopeland@henrycounty.in.gov
  <jcopeland@henrycounty.in.gov>;DHPAReview@dnr.IN.gov < DHPAReview@dnr.IN.gov>

Cc: Kelly, Clint < CKelly1@indot.IN.gov>;Coon, Matthew < mcoon@indot.IN.gov>;Branigin, Susan

<SBranigin@indot.IN.gov>;Molly Barletta <MBarletta@kaskaskiaeng.com>;Hiller, Jerod <jahiller@fishbeck.com>;Doug Fivecoat <dfivecoat@weintrautinc.com>;Brinker, Haley <HBrinker@indot.IN.gov>;Mcghghy, Donald <DMcghghy@indot.IN.gov>;Ron Bales <rbales@indot.IN.gov>

Hi Linda,

Thank you for including Indiana Landmarks in the conversation. We have concerns about how this project would affect the Fall Creek District School on the northwest corner of US 36 and Raider Road. Please continue to include us as a consulting party.

Brittany Miller (she/her)

Director, Eastern Regional Office

.....

Indiana Landmarks

Ph. 765-231-6429, 800-450-4534

Cell 765-593-1218 indianalandmarks.org

From: Linda Weintraut < linda@weintrautinc.com>

Sent: Monday, November 14, 2022 4:21 PM

To: bmccord@dnr.in.gov; cslider@dnr.in.gov; East <east@indianalandmarks.org>;

henrycountymuseum@gmail.com; contact@middletownhistory.us; jaray56@gmail.com; d.radford@comcast.net; etarantino@henrycounty.ln.gov; sdellinger@henrycounty.in.gov; bplummer@henrycounty.in.gov;

tgreen@henrycounty.in.gov; jcopeland@henrycounty.in.gov; DHPAReview@dnr.IN.gov

Cc: Kelly, Clint < CKelly1@indot.IN.gov>; Coon, Matthew < mcoon@indot.IN.gov>; Branigin, Susan

<SBranigin@indot.IN.gov>; Molly Barletta <MBarletta@kaskaskiaeng.com>; Hiller, Jerod <jahiller@fishbeck.com>; Doug Fivecoat <dfivecoat@weintrautinc.com>; Brinker, Haley <HBrinker@indot.IN.gov>; Mcghghy, Donald

<DMcghghy@indot.IN.gov>; Ron Bales <rbales@indot.IN.gov>

**Subject:** FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project, Henry County, Indiana

,,

Des. No.: 2000152

Project Description: US 36 and Raider Road Intersection Improvement Project

**Location: Henry County, Indiana** 

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the US 36 and Raider Road Intersection Improvement Project (Des No.: 2000152).

Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. The following agencies/individuals are being invited to become consulting parties:

State Historic Preservation Officer
Delaware Tribe of Indians
Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians
Shawnee Tribe
Indiana Landmarks Eastern Regional Office
Henry County Historical Society and Museum
Middletown/Fall Creek Township Historical Society
Preserve Henry County, Inc.
Henry County Historian
Henry County Commissioners
Henry County Planning Commission
Henry County Highway Department

This letter is part of the early coordination phase of the environmental review process requesting comments associated with this project. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

Please review the attached letter, which is also located in IN SCOPE at <a href="http://erms.indot.in.gov/Section106Documents/">http://erms.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE), and respond with your comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days.

Consulting parties have thirty (30) calendar days from receipt of this information to review and provide comment. If we do not receive a response from an invited consulting party within the time allotted, the project will proceed consistent with the proposed design. Therefore, if we do not receive a response within thirty (30) days, your agency or organization will not receive any further information on the project unless the scope of work changes.

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

Thank you in advance for your input,

Linda Weintraut, Ph.D. Weintraut & Associates, Inc.

From: <u>Linda Weintraut</u>
To: <u>Brittany Miller</u>

Subject: RE: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project, Henry County,

Indiana

**Date:** Wednesday, November 16, 2022 3:24:00 PM

Thank you for your comment. We will register you as a consulting party so that you continue to receive information about the project.

Linda Weintraut

 From:
 Linda Weintraut

 To:
 "Ed Tarantino"

 Cc:
 "Kelly, Clint"

Subject: RE: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement Project, Henry County,

Indiana

**Date:** Friday, November 18, 2022 3:16:00 PM

Ed,

Thank you for your email. I have forwarded your concerns to INDOT and to my manager.

Thank you again, Linda

From: Ed Tarantino <etarantino@henrycounty.in.gov>

Sent: Friday, November 18, 2022 3:02 PM

To: Linda Weintraut < linda@weintrautinc.com>

Subject: RE: FHWA Project: Des. No. 2000152; US 36 and Raider Road Intersection Improvement

Project, Henry County, Indiana

Linda, Our Highway Superintendent just gave us an accident report for that intersection, and it showed very few accidents at that intersection over the past several years. What is the reason why it is being considered for a roundabout?

Ed Tarantino Henry County Commissioner 765-465-6984

#### Miami Tribe of Oklahoma

3410 P St. NW, Miami, OK 74354 ◆ P.O. Box 1326, Miami, OK 74355 Ph: (918) 541-1300 ◆ Fax: (918) 542-7260 www.miamination.com



Via email: mcoon@indot.in.gov

November 21, 2022

Matt Coon, Tribal Liaison INDOT, Cultural Resources Office 100 North Senate Avenue, N758-ES Indianapolis, Indiana 46204

Re: Des. No. 2000152, US 36 and Raider Road Intersection Improvements, Henry County, Indiana – Comments of the Miami Tribe of Oklahoma

Dear Mr. Coon:

Aya, kweehsitoolaani– I show you respect. The Miami Tribe of Oklahoma, a federally recognized Indian tribe with a Constitution ratified in 1939 under the Oklahoma Indian Welfare Act of 1936, respectfully submits the following comments regarding Des. No. 2000152, US 36 and Raider Road Intersection Improvements in Henry County, Indiana.

The Miami Tribe offers no objection to the above-referenced project at this time, as we are not currently aware of existing documentation directly linking a specific Miami cultural or historic site to the project site. However, given the Miami Tribe's deep and enduring relationship to its historic lands and cultural property within present-day Indiana, if any human remains or Native American cultural items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) or archaeological evidence is discovered during any phase of this project, the Miami Tribe requests immediate consultation with the entity of jurisdiction for the location of discovery. In such a case, please contact me at 918-541-8966 or by email at THPO@miamination.com to initiate consultation.

The Miami Tribe accepts the invitation to serve as a consulting party to the proposed project. In my capacity as Tribal Historic Preservation Officer I am the point of contact for consultation.

Respectfully,

Diane Hunter

Diane Hunter

Tribal Historic Preservation Officer



Eric Holcomb, Governor Daniel W. Bortner, Director

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



November 30, 2022

Linda Weintraut, Ph.D. Weintraut & Associates, Inc. P.O. Box 5034 Zionsville, IN 46077

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

Re: Early coordination letter for the US Highway 36 and Raider Road intersection improvement (Des. No. 2000152; DHPA No. 30075)

#### Dear Dr. Weintraut:

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 (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding 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 your November 14, 2022 submission which enclosed INDOT's early coordination letter, received by our office the same day for the US Highway 36 and Raider Road intersection improvement project in Henry County, Indiana.

We are not aware of any parties who should be invited to participate in the Section 106 consultation on this federal undertaking, beyond those whom INDOT already has invited. However, if right-of-way is likely to be taken from a potentially historic property, it might be advisable to invite the owner of that property as soon as possible. In your next regular correspondence on this project, please advise us as to which of the invited consulting parties has accepted the invitation.

We look forward to reviewing the proposed area of potential effects and the reports on investigations of above-ground cultural resources and archaeological resources that the early coordination letter indicated will be forthcoming.

The Indiana SHPO staff's archaeological reviewer for this project is Beth McCord, and the structures reviewer is Toni Lynn Giffin. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the US Highway 36 and Raider Road intersection improvement project in Henry County (Des. No. 2000152), please refer to DHPA No. 30075.

Dr. Linda Weintraut November 30, 2022 Page 2

Very truly yours,

B. V. Micus

Beth K. McCord

Deputy State Historic Preservation Officer

BKM:TLG:tlg

emc: Matt Coon, INDOT
Susan Branigin, INDOT
Beth McCord, DNR-DHPA
Toni Lynn Giffin, DNR-DHPA
Indiana Landmarks Eastern Regional Office
Henry County Historical Society and Museum
Middletown/Fall Creek Township Historical Society
Preserve Henry County, Inc.
Daniel Radford, Henry County Historian
Henry County Commissioners
Timothy Green, Henry County Planning Commission
Joe Copeland, Henry County Highway Department



# EASTERN SHAWNEE CULTURAL PRESERVATION DEPARTMENT

70500 East 128 Road, Wyandotte, OK 74370

December 27, 2022 INDOT - Indiana Department of Transportation 100 N. Senate Ave. IGCN642 Indianapolis, IN 46201

RE: Des No. 2000152, Henry County, IN

Dear Mr. Coon,

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

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

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

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

Sincerely,

Paul Barton, Tribal Historic Preservation Officer (THPO)

Eastern Shawnee Tribe of Oklahoma

(918) 666-5151 Ext:1833

THPO@estoo.net



#### INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (855) 463-6848

Eric Holcomb, Governor Michael Smith, Commissioner

May 5, 2023

This letter was sent to the listed parties.

RE: US 36 and Raider Road Intersection Improvement Project in Henry County, Indiana, Des No.: 2000152; DHPA No. 30075.

Dear Consulting Party,

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with the US 36 and Raider Road Intersection Improvement Project in Henry County, Indiana (Des No. 2000152).

This letter is part of the Section 106 review process for this project. Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. We are requesting comments from you regarding the possible effects of this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

A Section 106 early coordination letter was distributed on November 14, 2022.

The proposed undertaking is located at the intersection of US 36 and Raider Road in Henry County, Indiana. It is within Fall Creek Township on the Middletown USGS Quadrangle, in Section 17 and 20, Township 18 North, Range 9 East. The project area can be viewed online at <a href="https://arcg.is/jqueP">https://arcg.is/jqueP</a> (the Des. No. is the most efficient search term once in the CRO - Public Web Map App).

The need for this project is the above average crash severity at the existing intersection. Per RoadHAT 3.0 analysis (INDOT traffic engineering safety modeling software) of 2016-2018 crash data, the most recent data available at the time of this analysis, the index of crash frequency (ICF) is 1.61 (well above average) and the index of crash cost (ICC) is 2.40 (well above average). These indices compare the crash cost and crash frequency for this intersection to intersections with similar volumes, roadway classifications, and control type throughout Indiana. The ICC and ICF exceeds the threshold of 1.00 set by INDOT's Office of Traffic Safety, flagging the intersection as a safety concern. The purpose of the project is to reduce crash potential, improve the ICC and ICF to below 1.00, and provide a long-term solution to ensure safe and efficient operation of the intersection.

The proposed project is anticipated to convert the existing intersection into single lane roundabout. Drainage improvements will include installation of curb turnouts, new drainage structures, and ditch grading. Utility relocations for utility poles will be required at the corners of the existing intersection. Intersection

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

improvements will also include new street lighting and landscaping. The project requires the acquisition of 1.35 acres of permanent ROW and 0.40 acre of temporary ROW. Proposed ROW widths vary along US 36 from 40 feet to 70 feet from centerline and vary along Raider Road from 10 feet to 60 feet from centerline.

The project will be approximately 0.29 mile in length. No relocations are planned. The proposed method of traffic maintenance is anticipated to be a full closure when school is not in session, utilizing a detour via SR 38 and SR 3. Approximately 0.27 acre of trees will be cleared as part of this project. The project is anticipated to begin construction in late Spring or early Summer of 2025.

Fishbeck is under contract with INDOT to advance the environmental documentation for the referenced project. Weintraut & Associates, Inc. (W&A) has been subcontracted to complete the Section 106 documentation for the project.

In accordance with 36 CFR 800.2 (c), you were invited to become a consulting party as part of the Section 106 process, or you are hereby invited to become a consulting party as part of the Section 106 process. Entities that have previously accepted consulting party status—as well as additional entities that are currently being invited to become consulting parties—are identified in the attached list.

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

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. The APE contains no resources listed in the National Register of Historic Places (NRHP).

A historian who meets the Secretary of the Interior's Professional Qualification Standards identified and evaluated above-ground resources within the APE for potential eligibility for the NRHP. As a result of the historic property identification and evaluation efforts, no above-ground resources are recommended as eligible for listing in the NRHP.

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

Consulting party status has been accepted by three Henry County Commissioners, Indiana Landmarks, the Delaware Tribe of Indians, Eastern Shawnee Tribe of Oklahoma, and the Miami Tribe of Oklahoma. Henry County Commissioners, Bobbi Plummer, Ed Tarantino, and Steve Dellinger, responded to the ECL with comments about the need for a roundabout at the US 36 and Raider Road intersection and noted their constituents do not support the proposed project. Commissioner Bobbi Plummer also expressed concern regarding the proximity of the project to the schools near the US 36 and Raider Road intersection and the ability of farm equipment to navigate the proposed roundabout. Indiana Landmarks also questioned the project's potential effects to the Fall Creek District School (IHSSI No.: 065-409-20048).



W&A responded via email to the Commissioners and to Indiana Landmarks thanking them for their comments and notifying them that they would be added as consulting parties to ensure they receive all future correspondence regarding the project. (See enclosed copies of this correspondence). The Section 106 process focuses on impacts to historic properties; therefore, the Commissioner's specified concerns will not be addressed as part of this process. However, W&A forwarded their comments to the project management and design team for further consideration.

The Historic Property Short Report is available for review in IN SCOPE at <a href="http://erms12c.indot.in.gov/Section106Documents/">http://erms12c.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review these documents and to respond with comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days

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

For questions concerning specific project details, you may contact Dr. Linda Weintraut of Weintraut & Associates, Inc. at (317) 733-9770 or Linda@weintrautinc.com. All future responses regarding the proposed project should be forwarded to Weintraut & Associates at the following address:

Linda Weintraut, Ph.D. Weintraut & Associates, Inc. P.O. Box 5034 Zionsville, IN 46077 Linda@weintrautinc.com

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

Sincerely,

Matthew S. Coon, Manager Cultural Resources Office

**Environmental Services** 

**Enclosures:** 

Email comments from Henry County Commissioners and responses Email comments from Indiana Landmarks and responses

NextLevel

**Distribution List:** 

Accepting Consulting Parties:

State Historic Preservation Office (SHPO) Indiana Landmarks (east@indianalandmarks.org)

Henry County Commissioners

- Ed Tarantino (etarantino@henrycounty.in.gov)
- Steve Dellinger (sdellinger@henrycounty.in.gov)
- Bobbi Plummer (bplummer@henrycounty.in.gov)

Delaware Tribe of Indians Eastern Shawnee Tribe of Oklahoma Miami Tribe of Oklahoma

The emails from the Henry County Commissioners and Indiana Landmarks and project team responses that were originally attached to this letter have been omitted here because they have already appeared in this correspondence appendix.

#### FHWA Project: Des. No. 2000152; HPSR, US 36 & Raider Road Intersection Improvement Project, Henry County, Indiana; DHPA No. 30075

#### Linda Weintraut

Mon 5/8/2023 2:12 PM

To: east@indianalandmarks.org <east@indianalandmarks.org>;Ed Tarantino <etarantino@henrycounty.in.gov>;Bobbi Plummer

<bplummer@henrycounty.in.gov>;Steve Dellinger <sdellinger@henrycounty.in.gov>;dhpareview@dnr.in.gov

<dhpareview@dnr.in.gov>;Slider, Chad (DNR) <CSlider@dnr.IN.gov>;McCord, Beth K

<BMccord@dnr.IN.gov>;tgiffin@dnr.in.gov <tgiffin@dnr.in.gov>

Cc: Coon, Matthew <mcoon@indot.IN.gov>;Branigin, Susan <SBranigin@indot.IN.gov>;Doug Fivecoat

<dfivecoat@weintrautinc.com>;Molly Barletta <MBarletta@kaskaskiaeng.com>;Hiller, Jerod <jahiller@fishbeck.com>

Des. No.: 2000152; DHPA No 30075

Project Description: US 36 & Raider Road Intersection Improvement Project

**Location: Henry County, Indiana** 

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with US 36 & Raider Road Intersection Improvement Project (Des. No. 2000152; DHPA No. 30075). The Section 106 Early Coordination Letter for this project was originally distributed on November 14, 2022.

As part of Section 106 of the National Historic Preservation Act, a Historic Property Short Report (HPSR) has been prepared and is ready for review and comment by consulting parties.

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

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

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

Linda Weintraut, Ph.D. | Weintraut & Associates, Inc. | 4649 Northwestern Drive | Zionsville, Indiana 46077 Tel: 317.733.9770 | www.weintrautinc.com

D-43 5/9/23, 12:14 PM Mail - Doug Fivecoat - Outlook

FHWA Project: Des. No. 2000152; HPSR, US 36 & Raider Road Intersection Improvement Project, Henry County, Indiana; DHPA No. 30075

## Kelly, Clint

Tue 5/9/2023 9:00 AM

To: lheady@delawaretribe.org <lheady@delawaretribe.org>;Susan Bachor

<sbachor@DelawareTribe.onmicrosoft.com>;thpo@estoo.net <thpo@estoo.net>;THPO@MiamiNation.com

<THPO@MiamiNation.com>

Cc: Coon, Matthew <mcoon@indot.IN.gov>;Branigin, Susan <SBranigin@indot.IN.gov>;Mcghqhy, Donald

<DMcqhqhy@indot.IN.gov>;Linda Weintraut linda@weintrautinc.com>;Doug Fivecoat

<dfivecoat@weintrautinc.com>;Carmany-George, Karstin (FHWA) <k.carmanygeorge@dot.gov>

Des. No.: 2000152; DHPA No 30075

Project Description: US 36 & Raider Road Intersection Improvement Project

Location: Henry County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with US 36 & Raider Road Intersection Improvement Project (Des. No. 2000152; DHPA No. 30075). The Section 106 Early Coordination Letter for this project was originally distributed on November 14, 2022.

As part of Section 106 of the National Historic Preservation Act, a Historic Property Short Report (HPSR) has been prepared and is ready for review and comment by consulting parties.

Please review this documentation located in IN SCOPE at

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

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

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

Thank you in advance for your input,

#### **Clint Kelly**

Section 106 Specialist/Historian Cultural Resources Office **Environmental Services** 100 N. Senate Ave., Rm. N758-ES Indianapolis, IN 46204

Office: (317) 447-8707 Email: ckelly1@indot.in.gov Core Office Hours: M-F 7:30-3:30



**Brittany** 

From: Brittany Miller <br/> <br/> / bmiller@indianalandmarks.org >

Sent: Friday, May 12, 2023 2:13 PM

To: Linda Weintraut < linda@weintrautinc.com>

Subject: Re: FHWA Project: Des. No. 2000152; HPSR, US 36 & Raider Road Intersection Improvement Project,

Henry County, Indiana; DHPA No. 30075

Thank you for the report, Linda. Will Fall Creek District School have any work done to it in relation to the roundabout work or will it be left undisturbed?

| Best,                             |
|-----------------------------------|
| Brittany Miller (she/her)         |
| Director, Eastern Regional Office |
|                                   |

Ph. 765-231-6429, 800-450-4534

Cell 765-593-1218

**Indiana Landmarks** 

indianalandmarks.org



Eric Holcomb, Governor Daniel W. Bortner, Director

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

May 30, 2023



Linda Weintraut, Ph.D. Weintraut & Associates, Inc. P.O. Box 5034 Zionsville, IN 46077

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

Re: Historic property short report (Fivecoat, 4/18/2023) for the US Highway 36 and Raider Road intersection improvement project (Des. No. 2000152; DHPA No. 30075)

#### Dear Dr. Weintraut:

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 (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding 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 your May 5, 2023 review request submittal form which enclosed the historic property short report ("HPSR"; Fivecoat, 4/18/2023), received by our office on May 8, 2023, for this project in Henry County, Indiana.

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

For the purposes of the Section 106 review of this federal undertaking, we agree with the conclusions of the HPSR that there are no historic properties listed in or eligible for listing in the National Register of Historic Places within the APE for this project.

Furthermore, we appreciate that the HPSR submission also included correspondence from and responses to the consulting parties who contacted your office regarding the US Highway 36 and Raider Road intersection improvement project (Des. No. 2000152).

The review request submittal form indicates the report on investigations of archaeological resources is forthcoming. We look forward to receiving that report.

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 Indiana SHPO 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, including but not limited to 36 C.F.R. Part 800.

Linda Weintraut May 30, 2023 Page 2

The Indiana SHPO staff's archaeological reviewer for this project is Beth McCord, and the structures reviewer is Toni Lynn Giffin. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the US Highway 36 and Raider Road intersection improvement project in Henry County (Des. No. 2000152), please refer to DHPA No. 30075.

Very truly yours,

Beth K. McCord

Deputy State Historic Preservation Officer

B. V. Micus

BKM:TLG:tlg

emc: Matt Coon, INDOT
Susan Branigin, INDOT
Beth McCord, DNR-DHPA
Toni Lynn Giffin, DNR-DHPA
Linda Weintraut, Weintraut & Associates, Inc.
Indiana Landmarks Eastern Regional Office
Henry County Historical Society and Museum
Middletown/Fall Creek Township Historical Society
Preserve Henry County, Inc.
Daniel Radford, Henry County Historian
Henry County Commissioners

Timothy Green, Henry County Planning Commission Joe Copeland, Henry County Highway Department



#### INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (855) 463-6848

Eric Holcomb, Governor Michael Smith, Commissioner

October 3, 2023

This letter was sent to the listed parties.

RE: US 36 and Raider Road Intersection Improvement Project in Henry County, Indiana, Des No.: 2000152; DHPA No. 30075.

Dear Consulting Party,

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with the US 36 and Raider Road Intersection Improvement Project in Henry County, Indiana (Des No. 2000152).

This letter is part of the Section 106 review process for this project. Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. We are requesting comments from you regarding the possible effects of this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

A Section 106 early coordination letter was distributed on November 14, 2022. A Historic Property Short Report (HPSR) was distributed on May 8, 2023.

The proposed undertaking is located at the intersection of US 36 and Raider Road in Henry County, Indiana. It is within Fall Creek Township on the Middletown USGS Quadrangle, in Section 17 and 20, Township 18 North, Range 9 East. The project area can be viewed online at <a href="https://arcg.is/jqueP">https://arcg.is/jqueP</a> (the Des. No. is the most efficient search term once in the CRO - Public Web Map App).

The need for this project is the above average crash severity at the existing intersection. Per RoadHAT 3.0 analysis (INDOT traffic engineering safety modeling software) of 2016-2018 crash data, the most recent data available at the time of this analysis, the index of crash frequency (ICF) is 1.61 (well above average) and the index of crash cost (ICC) is 2.40 (well above average). These indices compare the crash cost and crash frequency for this intersection to intersections with similar volumes, roadway classifications, and control type throughout Indiana. The ICC and ICF exceeds the threshold of 1.00 set by INDOT's Office of Traffic Safety, flagging the intersection as a safety concern. The purpose of the project is to reduce crash potential, improve the ICC and ICF to below 1.00, and provide a long-term solution to ensure safe and efficient operation of the intersection.

The proposed project is anticipated to convert the existing intersection into single lane roundabout. Drainage improvements will include installation of curb turnouts, new drainage structures, and ditch grading. Utility

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

**Next**Level

relocations for utility poles will be required at the corners of the existing intersection. Intersection improvements will also include new street lighting and landscaping. The project requires the acquisition of 1.35 acres of permanent ROW and 0.40 acre of temporary ROW. Proposed ROW widths vary along US 36 from 40 feet to 70 feet from centerline and vary along Raider Road from 10 feet to 60 feet from centerline.

The project will be approximately 0.29 mile in length. No relocations are planned. The proposed method of traffic maintenance is anticipated to be a full closure when school is not in session, utilizing a detour via SR 38 and SR 3. Approximately 0.27 acre of trees will be cleared as part of this project. The project is anticipated to begin construction in late Spring or early Summer of 2025.

Fishbeck is under contract with INDOT to advance the environmental documentation for the referenced project. Weintraut & Associates, Inc. (W&A) has been subcontracted to complete the Section 106 documentation for the project.

In accordance with 36 CFR 800.2 (c), you were invited to become a consulting party as part of the Section 106 process, or you are hereby invited to become a consulting party as part of the Section 106 process. Entities that have previously accepted consulting party status--as well as additional entities that are currently being invited to become consulting parties--are identified in the attached list.

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

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. The APE contains no resources listed in the National Register of Historic Places (NRHP).

A historian who meets the Secretary of the Interior's Professional Qualification Standards identified and evaluated above-ground resources within the APE for potential eligibility for the NRHP. As a result of the historic property identification and evaluation efforts, no above-ground resources are recommended as eligible for listing in the NRHP.

With regard to archaeological resources, an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards identified two sites within the project area—12HN524 and 12HN525. As a result of these efforts, sites 12HN524 and 12HN525 were recommended as not eligible for listing in the NRHP and no further work is recommended.

Consulting party status has been accepted by three Henry County Commissioners, Indiana Landmarks, the Delaware Tribe of Indians, Eastern Shawnee Tribe of Oklahoma, and the Miami Tribe of Oklahoma. Henry County Commissioners, Bobbi Plummer, Ed Tarantino, and Steve Dellinger, responded to the ECL with comments about the need for a roundabout at the US 36 and Raider Road intersection and noted their constituents do not support the proposed project. Indiana Landmarks also questioned the project's potential effects to the Fall Creek District School (IHSSI No.: 065-409-20048). These comments and project team responses were previously summarized in the distribution letter for the HPSR.

NextLevel

The Archaeological Report (Tribes only) is available for review in IN SCOPE at <a href="http://erms12c.indot.in.gov/Section106Documents/">http://erms12c.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review these documents and to respond with comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days

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

For questions concerning specific project details, you may contact Dr. Linda Weintraut of Weintraut & Associates, Inc. at (317) 733-9770 or Linda@weintrautinc.com. All future responses regarding the proposed project should be forwarded to Weintraut & Associates at the following address:

Linda Weintraut, Ph.D. Weintraut & Associates, Inc. P.O. Box 5034 Zionsville, IN 46077 Linda@weintrautinc.com

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

Sincerely,

Matthew S. Coon, Manager Cultural Resources Office Environmental Services

Distribution List:

Accepting Consulting Parties:

State Historic Preservation Office (SHPO) Indiana Landmarks (east@indianalandmarks.org)

**Henry County Commissioners** 

- Ed Tarantino (etarantino@henrycounty.in.gov)
- Steve Dellinger (sdellinger@henrycounty.in.gov)
- Bobbi Plummer (bplummer@henrycounty.in.gov)

Delaware Tribe of Indians

Eastern Shawnee Tribe of Oklahoma

Miami Tribe of Oklahoma

NextLevel

Peoria Tribe of Indians of Oklahoma Pokagon Band of Potawatomi Indians Shawnee Tribe



## FHWA Project: Des. No. 2000152; ASR, US 36 & Raider Road Intersection Improvement Project, Henry County, Indiana

### Coon, Matthew <mcoon@indot.IN.gov>

Fri 10/13/2023 2:07 PM

To:thpo@estoo.net <thpo@estoo.net>;thpo@miamination.com <THPO@MiamiNation.com>;Burgundy Fletcher <br/>
<bfletcher@peoriatribe.com>;Matthew Bussler <Matthew.Bussler@pokagonband-nsn.gov>;Section106@shawnee-tribe.com <Section106@shawnee-tribe.com>;sbachor@delawaretribe.org <sbachor@delawaretribe.org>
Cc:Carmany-George, Karstin (FHWA) <k.carmanygeorge@dot.gov>;Doug Fivecoat <dfivecoat@weintrautinc.com>;Linda Weintraut Inda@weintrautinc.com>

Des. No.: 2000152

Project Description: US 36 & Raider Road Intersection Improvement Project

Location: Henry County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the US 36 & Raider Road Intersection Improvement Project (Des. No. 2000152; DHPA No. 30075). The Section 106 Early Coordination Letter for this project was originally distributed on November 14, 2022.

As part of Section 106 of the National Historic Preservation Act, an Archaeological Report (Tribes only) has been prepared and is ready for review and comment by consulting parties.

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

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

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

Thank you in advance for your input,

#### **Matt Coon**

Manager, Cultural Resources Office

Interim Archaeology Team Lead
Acting Tribal Liaison
Indiana Department of Transportation
100 North Senate Ave., N758 — Environmental Services
Indianapolis, IN 46204

**Phone:** 317-697-9752





## RE: FHWA Project: Des. No. 2000152; HPSR, US 36 & Raider Road Intersection Improvement Project, Henry County, Indiana; DHPA No. 30075

#### Linda Weintraut < linda@weintrautinc.com >

Mon 10/16/2023 3:16 PM

To:east@indianalandmarks.org <east@indianalandmarks.org>;Ed Tarantino <etarantino@henrycounty.in.gov>;Bobbi Plummer <br/>
<bplummer@henrycounty.in.gov>;Steve Dellinger <sdellinger@henrycounty.in.gov>;dhpareview@dnr.in.gov <dhpareview@dnr.in.gov>;Slider, Chad (DNR) <CSlider@dnr.IN.gov>;McCord, Beth K <BMccord@dnr.IN.gov>; tgiffin@dnr.in.gov <tgiffin@dnr.in.gov>

Cc:Coon, Matthew <mcoon@indot.IN.gov>;Branigin, Susan <SBranigin@indot.IN.gov>;Doug Fivecoat <dfivecoat@weintrautinc.com>;Molly Barletta <MBarletta@kaskaskiaeng.com>;Hiller, Jerod <jahiller@fishbeck.com>

🛮 1 attachments (243 KB)

US36&RaiderRd\_Des2000152\_Phasela\_RDL\_2023-10-03.pdf;

Des. No.: 2000152

Project Description: US 36 & Raider Road Intersection Improvement Project

Location: Henry County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with the US 36 & Raider Road Intersection Improvement Project (Des. No. 2000152; DHPA No. 30075). The Section 106 Early Coordination Letter for this project was originally distributed on November 14, 2022.

As part of Section 106 of the National Historic Preservation Act, an Archaeological Report (Tribes only) has been prepared and is ready for review and comment by consulting parties.

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

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

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

Thank you in advance for your input,

**Linda Weintraut, Ph.D.** | **Weintraut & Associates, Inc.** | 4649 Northwestern Drive | Zionsville, Indiana 46077 Tel: 317.733.9770 | <a href="https://www.weintrautinc.com">www.weintrautinc.com</a>

From: Linda Weintraut

Sent: Monday, May 8, 2023 2:12 PM

**To:** east@indianalandmarks.org; Ed Tarantino <etarantino@henrycounty.in.gov>; Bobbi Plummer <br/>
<bplummer@henrycounty.in.gov>; Steve Dellinger <sdellinger@henrycounty.in.gov>; dhpareview@dnr.in.gov; Slider, Chad (DNR) <CSlider@dnr.IN.gov>; McCord, Beth K <BMccord@dnr.IN.gov>; tgiffin@dnr.in.gov <br/> **Cc:** Coon, Matthew <mcoon@indot.IN.gov>; Branigin, Susan <SBranigin@indot.IN.gov>; Doug Fivecoat <dfivecoat@weintrautinc.com>; Molly Barletta <MBarletta@kaskaskiaeng.com>; Hiller, Jerod <jahiller@fishbeck.com>

**Subject:** FHWA Project: Des. No. 2000152; HPSR, US 36 & Raider Road Intersection Improvement Project, Henry County, Indiana; DHPA No. 30075

Des. No.: 2000152; DHPA No 30075

Project Description: US 36 & Raider Road Intersection Improvement Project

Location: Henry County, Indiana

The Indiana Department of Transportation, with funding from the Federal Highway Administration, proposes to proceed with **US 36 & Raider Road Intersection Improvement Project (**Des. No. **2000152; DHPA No.** 30075**)**. The Section 106 Early Coordination Letter for this project was originally distributed on November 14, 2022.

As part of Section 106 of the National Historic Preservation Act, a Historic Property Short Report (HPSR) has been prepared and is ready for review and comment by consulting parties.

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

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

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

**Linda Weintraut, Ph.D. | Weintraut & Associates, Inc. |** 4649 Northwestern Drive | Zionsville, Indiana 46077 Tel: 317.733.9770 | <a href="https://www.weintrautinc.com">www.weintrautinc.com</a>





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



November 1, 2023

Linda Weintraut, Ph.D. Weintraut & Associates, Inc. P.O. Box 5034 Zionsville, IN 46077

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

Administration, Indiana Division ("FHWA")

Re: Phase Ia archaeological field reconnaissance report (Goldbach 9/15/2023) for the US

Highway 36 and Raider Road intersection improvement project (Des. No. 2000152;

DHPA No. 30075)

#### Dear Dr. Weintraut:

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 (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding 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 your submission dated and received on October 13, 2023 for this project in Henry County, Indiana.

As previous stated, for the purposes of the Section 106 review of this federal undertaking, we agree with the conclusions of the HPSR that there are no historic properties listed in or eligible for listing in the National Register of Historic Places within the APE for this project.

Regarding archaeological resources, thank you for the submission of the Phase Ia archaeological survey report (Goldbach 9/15/23). We concur with the opinion of the archaeologist that further archaeological investigation of the portion of sites 12HN524 and 12HN525 surveyed for this project are unlikely to produce additional important information and no further work in these areas is warranted. As the site boundaries extend beyond the limits surveyed, the unsurveyed portions of sites 12HN524 and 12HN525 remain unevaluated for inclusion in the NRHP. If the project boundaries should change at these site locations, further archaeological investigations will be necessary to delineate the site boundaries and provide an evaluation. The surveyed limits should be clearly marked at sites 12HN524 and 12HN525 so that unsurveyed portions of these sites are avoided by all ground-disturbing project activities. Thank you for submitting the archaeological report and site survey forms for sites 12HN524 and 12HN525 to SHAARD. They have been approved.

Unless another consulting party expresses a different opinion about the historic properties, it might now be appropriate to ask INDOT for a finding.

Linda Weintraut November 1, 2023 Page 2

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 Indiana SHPO 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, including but not limited to 36 C.F.R. Part 800.

The Indiana SHPO staff's archaeological reviewer for this project is Beth McCord, and the structures reviewer is Toni Lynn Giffin. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the US Highway 36 and Raider Road intersection improvement project in Henry County (Des. No. 2000152), please refer to DHPA No. 30075.

Very truly yours,

Beth K. McCord

Deputy State Historic Preservation Officer

1 W. Shih

BKM:TLG:BKM:tlg

emc: Matt Coon, INDOT
Susan Branigin, INDOT
Beth McCord, DNR-DHPA
Toni Lynn Giffin, DNR-DHPA
Linda Weintraut, Weintraut & Associates, Inc.
Indiana Landmarks Eastern Regional Office
Henry County Historical Society and Museum
Middletown/Fall Creek Township Historical Society
Preserve Henry County, Inc.
Daniel Radford, Henry County Historian
Henry County Commissioners
Timothy Green, Henry County Planning Commission

Timothy Green, Henry County Planning Commission Joe Copeland, Henry County Highway Department



# EASTERN SHAWNEE CULTURAL PRESERVATION DEPARTMENT

70500 East 128 Road, Wyandotte, OK 74370

December 6, 2023
INDOT - Indiana Department of Transportation
100 N. Senate Ave. IGCN642
Indianapolis, IN 46201

RE: Des No. 2000152, Henry County, Indiana

Dear Mr. Coon,

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

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

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

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

Sincerely,

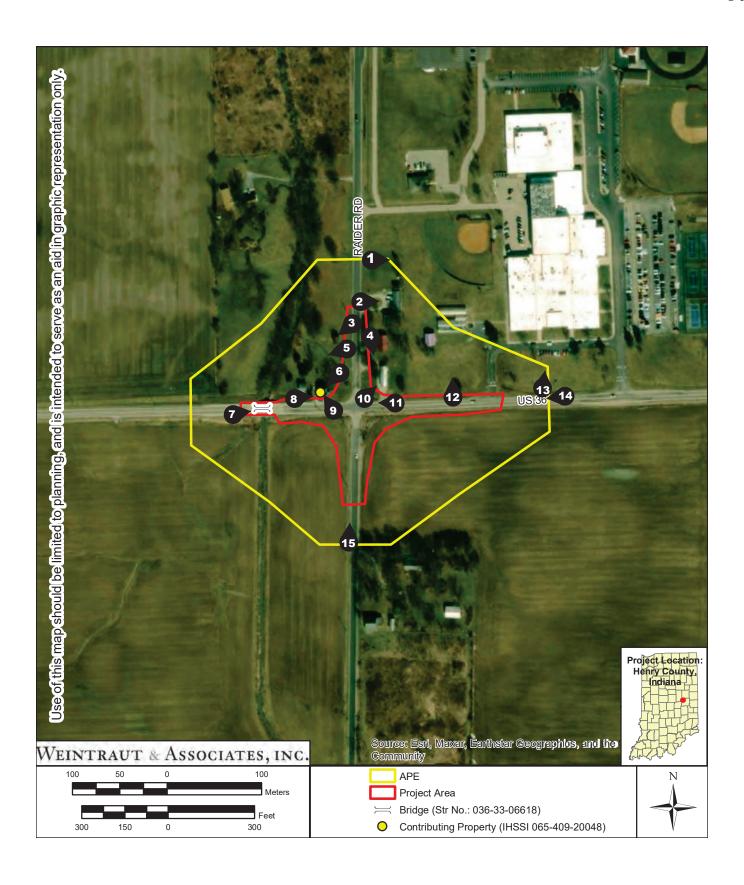
Paul Barton, Tribal Historic Preservation Officer (THPO)

Eastern Shawnee Tribe of Oklahoma

(918) 666-5151 Ext:1833

THPO@estoo.net

## **Appendix D: Photographs**





1. This view looks at the large addition between the Shenandoah Middle School and High School from the north end of the APE, looking east.



2. The residential property at 5062 North Raider Road (c. 1948) has several additions, looking east.



3. The residence at 7538 US 36 (IHSSI No. 065-409-20048) has a barn/garage (c. 1912), looking southwest.



4. The American Small House at 5036 North Raider Road (c. 1950) is an example of a Non-Contributing rated property in the APE, looking southeast.t



5. This stone and mortar bridge (c. 1920) on the property at 7538 US 36 crosses a small tributary to Deer Creek, looking southwest.



6. The former one-room schoolhouse (IHSSI No. 065-409-20048, 7538 US 36) has been converted into a residence, looking south-southwest.



7. This view looks east from the west end of the APE at the US 36 and Deer Creek bridge (Str. No. 036-33-06618).



8. The residence at 7538 US 36 (IHSSI No. 065-409-20048) has had its typical window pattern changed on its the west elevation, looking east.



9. The residence at 7538 US 36 (IHSSI No. 065-409-20048) has alterations including a side porch (now main entry), central dormer, new bow windows, looking north-northwest.



10. The house at 5036 North Raider Road has a detached garage, looking north-northeast.



11. The APE contains large agricultural fields south of US 36, looking west-southwest from the intersection.



12. A pair of greenhouses and a garage/barn are built on the Shenandoah High School property, looking north.



13. This view looks at the façade of the Shenandoah High School from US 36, looking north.



14. This view looks west along US 36 from the east end of the APE.



15. This view looks north along Raider Road from near the south end of the APE.

## **Appendix E: Report Summaries**



## Phase Ia Archaeological Field Reconnaissance: Intersection Improvement and Roundabout Construction Project at US 36 and Raider Road in Henry County, Indiana Des. No.: 2000152

Prepared for:

Fishbeck, Inc.

Federal Highway Administration/Indiana Department of Transportation

Prepared by:

### Weintraut & Associates

Principal Investigator: Jason Goldbach, M.A.

P. O. Box 5034 | Zionsville, Indiana 46077 | 317.733.9770 | (jason@weintrautinc.com)

September 15, 2023

## **Management Summary**

The Indiana Department of Transportation (IN-DOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with the Intersection Improvement and Roundabout Construction Project at the intersection of United States Highway (US) 36 and Raider Road in Henry County, Indiana (Des No.: 2000152). The project is in part federally funded, and therefore Phase Ia archaeological investigations were undertaken to meet requirements of Section 106 of the National Historic Preservation Act (Advisory Council on Historic Preservation [ACHP] 1966) that requires Federal agencies to take into account the effects of their undertakings on historic properties (Code of Federal Regulations [CFR] 2016). In response to a request by Fishbeck, Inc. (Fishbeck), Weintraut & Associates, Inc. (W&A) conducted an archaeological records check and Phase Ia field reconnaissance for the proposed project.

The Area of Potential Effects (APE) for this project is defined as the combined new, temporary, and permanent right-of-way (ROW). At the time of the submission of this report, Stage 1 plans were not available, and therefore, an area intended to encompass the APE was the subject of the Phase Ia reconnaissance and records check. This area is referred to as the "survey area" throughout the report. The survey area totals approximately 1.24 hectares (ha), or 3.06 acres (ac).

W&A conducted an archaeological records check of the Indiana State Historic Architectural and Archaeological Research Database (SHAARD) of the Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology (IDNR/DHPA) on January 30, 2023. SHAARD records indicated the survey area had not been previously investigated archaeologically and that there were no sites within the survey area (IDNR/DHPA 2023).

The Phase Ia archaeological field reconnaissance of the survey area was conducted on February 8, 2023. As a result, archaeological sites 12HN524 and 12HN525 were recorded. Site 12HN524 is a small historical artifact scatter within the survey area. Historical maps depict no structures in the area of the site, and no evidence for foundations or other features were encountered. Based on the absence of evidence for a structure nearby, the artifacts found at 12HN524 are likely the result incidental discard or spread from adjacent properties. As a small scatter of unassociated fragmentary artifacts, site 12HN524 lacks significant deposits or features with the potential to yield important information that would meet National Register of Historic Places (NRHP) eligibility Criterion D. Therefore, site 12HN524 is not eligible for listing on the Indiana Register of Historic Sites and Structures (IRHSS) and/or the NRHP, and no further archaeological investigation is warranted.

Site 12HN525 is a historical artifact scatter in the southwest quadrant of the survey area. Historical maps depict a church at its location beginning in the late nineteenth century that likely stood until the mid-twentieth century. Artifacts recovered from 12HN525 are consistent with the demolition of a brick structure, and the subsequent exposure to weathering and plowing during the later use of the property as farmland. Few artifacts unrelated to the demolition of the structure were recovered, and no evidence for foundations or other features were encountered. As a scatter of primarily architectural artifacts, site 12HN525 lacks significant deposits or features with the potential to yield important information that would meet NRHP eligibility Criterion D. Therefore, site 12HN525 is not eligible for listing on the IRHSS and/or the NRHP, and no further archaeological investigation is warranted.

Based on the results of the Phase Ia archaeological fieldwork, W&A offers the following recommendations:

Project clearance and no further archaeological investigations appear necessary for sites 12HN524 and 12HN525 prior to the commencement of construction.

However, these recommendations are made with the understanding that if any previously unidentified intact archaeological deposits or human remains are uncovered during construction, demolition, or earthmoving activities, work within the area will stop and the IDNR/DHPA will be notified of the discovery

within two (2) business days as required by Indiana Code 14-21-1-27 and 29.



## **Historic Property Short Report**

United States (US) Highway 36 and Raider Road Intersection Improvement
Project

Henry County, Indiana (Des. No.: 2000152, DHPA No. 30075)

Prepared for

Fishbeck/Indiana Department of Transportation

Prepared by

## Weintraut & Associates, Inc.

*Principal Investigator*: Linda Weintraut, Ph.D. | *Author*: Douglas K. Fivecoat, M.A. PO Box 5034 | Zionsville, Indiana | (317) 733-9770 | (Linda@weintrautinc.com)

Contact for Fishbeck: Jerod Hiller

8520 Allison Pointe Boulevard, Suite 100, Indianapolis, IN 46250 | (317) 577-9050 (jahiller@fishbeck.com)

March 2023

# Executive Summary: United States (US) Highway 36 and Raider Road Intersection Improvement Project Henry County, Indiana, (DES. No.: 2000152)

This report documents the identification and evaluation efforts for properties included in the Area of Potential Effects (APE) for the US 36 and Raider Road Intersection Improvement Project in Henry County, Indiana. Aboveground resources located within the project APE were identified and evaluated in accordance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, and the regulations implementing Section 106 (36 CFR Part 800).

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

The APE contains no properties listed in the National Register.

The APE contains no properties that are recommended eligible for listing in the National Register.



#### INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (855) 463-6848

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

December 28, 2023

This letter was sent to the listed parties.

RE: US 36 and Raider Road Intersection Improvement Project in Henry County, Indiana, Des No.: 2000152; DHPA No. 30075.

Dear Consulting Party,

The Indiana Department of Transportation (INDOT), with funding from the Federal Highway Administration (FHWA), proposes to proceed with the US 36 and Raider Road Intersection Improvement Project in Henry County, Indiana (Des No. 2000152).

This letter is part of the Section 106 review process for this project. Section 106 of the National Historic Preservation Act requires federal agencies to take into account the effects of their undertakings on historic properties. We are requesting comments from you regarding the possible effects of this project. Please use the above Des. Number and project description in your reply and your comments will be incorporated into the formal environmental study.

A Section 106 early coordination letter was distributed on November 14, 2022. A Historic Property Short Report (HPSR) was distributed on May 8, 2023. An Archaeology Report was made available to the appropriate consulting parties on October 13, 2023.

The proposed undertaking is located at the intersection of US 36 and Raider Road in Henry County, Indiana. It is within Fall Creek Township on the Middletown USGS Quadrangle, in Section 17 and 20, Township 18 North, Range 9 East. The project area can be viewed online at <a href="https://arcg.is/jqueP">https://arcg.is/jqueP</a> (the Des. No. is the most efficient search term once in the CRO - Public Web Map App).

The need for this project is the above average crash severity at the existing intersection. Per RoadHAT 3.0 analysis (INDOT traffic engineering safety modeling software) of 2016-2018 crash data, the most recent data available at the time of this analysis, the index of crash frequency (ICF) is 1.61 (well above average) and the index of crash cost (ICC) is 2.40 (well above average). These indices compare the crash cost and crash frequency for this intersection to intersections with similar volumes, roadway classifications, and control type throughout Indiana. The ICC and ICF exceeds the threshold of 1.00 set by INDOT's Office of Traffic Safety, flagging the intersection as a safety concern. The purpose of the project is to reduce crash potential, improve the ICC and ICF to below 1.00, and provide a long-term solution to ensure safe and efficient operation of the intersection.



The proposed project is anticipated to convert the existing intersection into single lane roundabout. Drainage improvements will include installation of curb turnouts, new drainage structures, and ditch grading. Utility relocations for utility poles will be required at the corners of the existing intersection. Intersection improvements will also include new street lighting and landscaping. The project requires the acquisition of 1.35 acres of permanent ROW and 0.40 acre of temporary ROW. Proposed ROW widths vary along US 36 from 40 feet to 70 feet from centerline and vary along Raider Road from 10 feet to 60 feet from centerline.

The project will be approximately 0.29 mile in length. No relocations are planned. The proposed method of traffic maintenance is anticipated to be a full closure when school is not in session, utilizing a detour via SR 38 and SR 3. Approximately 0.27 acre of trees will be cleared as part of this project. The project is anticipated to begin construction in late Spring or early Summer of 2025.

Fishbeck is under contract with INDOT to advance the environmental documentation for the referenced project. Weintraut & Associates, Inc. (W&A) has been subcontracted to complete the Section 106 documentation for the project.

In accordance with 36 CFR 800.2 (c), you were invited to become a consulting party as part of the Section 106 process, or you are hereby invited to become a consulting party as part of the Section 106 process. Entities that have previously accepted consulting party status--as well as additional entities that are currently being invited to become consulting parties--are identified in the attached list.

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

The Area of Potential Effects (APE) is the area in which the proposed project may cause alterations in the character or use of historic resources. The APE contains no resources listed in the National Register of Historic Places (NRHP).

A historian who meets the Secretary of the Interior's Professional Qualification Standards identified and evaluated above-ground resources within the APE for potential eligibility for the NRHP. As a result of the historic property identification and evaluation efforts, no above-ground resources are recommended as eligible for listing in the NRHP.

With regard to archaeological resources, an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards identified two sites within the project area—12HN524 and 12HN525. As a result of these efforts, sites 12HN524 and 12HN525 were recommended as not eligible for listing in the NRHP and no further work is recommended.

Consulting party status has been accepted by three Henry County Commissioners, Indiana Landmarks, the Delaware Tribe of Indians, Eastern Shawnee Tribe of Oklahoma, and the Miami Tribe of Oklahoma. Henry County Commissioners, Bobbi Plummer, Ed Tarantino, and Steve Dellinger, responded to the ECL with comments about the need for a roundabout at the US 36 and Raider Road intersection and noted their constituents do not support the proposed project. Indiana Landmarks also questioned the project's potential effects to the Fall Creek District School (IHSSI No.: 065-409-20048). These comments and project team responses were previously summarized in the distribution letter for the HPSR.



On May 12, 2023, Indiana Landmarks responded to the HPSR via email and asked if the Fall Creek District School would be undisturbed by the roundabout project or if it would have work done to it (see enclosed correspondence). Project designers state that the former school/residence would be left undisturbed. Current plans would reconstruct some of its driveway and remove a few feet of its concrete walk near US 36. Additionally, there would be some permanent and temporary right-of-way taken from the property; however, the project would not disturb the building.

INDOT, on behalf of FHWA, has signed a determination of "No Historic Properties Affected." This determination of "No Historic Properties Affected" is available for review in IN SCOPE at <a href="http://erms12c.indot.in.gov/Section106Documents/">http://erms12c.indot.in.gov/Section106Documents/</a> (the Des. No. is the most efficient search term, once in IN SCOPE). You are invited to review this determination and to respond with comments on any historic resource impacts incurred as a result of this project so that an environmental report can be completed. We also welcome your related opinions and other input to be considered in the preparation of the environmental document. If a hard copy of the materials is needed, please respond to this email with your request within seven (7) days

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

For questions concerning specific project details, you may contact Dr. Linda Weintraut of Weintraut & Associates, Inc. at (317) 733-9770 or Linda@weintrautinc.com. All future responses regarding the proposed project should be forwarded to Weintraut & Associates at the following address:

Linda Weintraut, Ph.D. Weintraut & Associates, Inc. P.O. Box 5034 Zionsville, IN 46077 Linda@weintrautinc.com

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

Sincerely,

Matthew S. Coon, Manager Cultural Resources Office Environmental Services

**Enclosures:** 



#### Distribution List:

Accepting Consulting Parties:

State Historic Preservation Office (SHPO)

Indiana Landmarks (east@indianalandmarks.org)

Henry County Commissioners

- Ed Tarantino (etarantino@henrycounty.in.gov)
- Steve Dellinger (sdellinger@henrycounty.in.gov)
- Bobbi Plummer (bplummer@henrycounty.in.gov)

Delaware Tribe of Indians

Eastern Shawnee Tribe of Oklahoma

Miami Tribe of Oklahoma



## APPENDIX E

Red Flag Investigation and Hazardous Materials



#### **INDIANA DEPARTMENT OF TRANSPORTATION**

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (855) 463-6848 (855) INDOT4U **Eric Holcomb, Governor Michael Smith, Commissioner** 

Date: November 17, 2022

To: Site Assessment & Management (SAM)

Environmental Policy Office - Environmental Services Division (ESD)

Indiana Department of Transportation (INDOT)

100 N Senate Avenue, Room N758-ES

Indianapolis, IN 46204

From: April Arroyo-Monroe

Kaskaskia Engineering Group, LLC 477 South Third Street, Suite 280

Geneva, IL 60134

April@kaskaskiaeng.com

Re: RED FLAG INVESTIGATION

DES 2000152, State Project Intersection Improvement US 36 & Raider Road Henry County, Indiana

#### PROJECT DESCRIPTION

Brief Description of Project: The Indiana Department of Transportation (INDOT) has identified the need to improve the safety of the two-way stop controlled intersection of US 36 and Raider Road, located approximately 0.05 mile west of reference post 100 in Henry County. INDOT proposes to convert the current two-way stop-controlled intersection into a single lane roundabout. Additionally, minor drainage ditch modifications may be necessary for the intersection.

| single lane roundabout. Additionally, minor drainage ditch modifications may be necessary for the intersection.   |
|---|
| Bridge Work Included in Project: Yes \( \text{No } \text{No } \text{Structure } #(s) \) If this is a bridge project, is the bridge Historical? Yes \( \text{No } \text{No } \text{No } \text{Non-Select } \text{Non-Select } \text{Onn-Select } \text{Onn-Select } \text{Onn-Select } \text{Onner (Note: If the project involves a \( \text{historical} \) bridge, please include the bridge information in the Recommendations Section of the report). |
| Culvert Work Included in Project: Yes 🗆 No 🗵 Structure #(s)   |
| Proposed right of way: Temporary $oxtimes$ # Acres $\overline{0.40}$ Permanent $oxtimes$ # Acres $\overline{1.35}$ Not Applicable $oxtimes$   |
| Type and proposed depth of excavation: Excavation will occur for pavement and subgrade work, drainage ditches, storm sewer, and lighting circuitry; depth of excavation will be less than or equal to 5 feet below ground surface (ft/bgs).   |
| Maintenance of traffic (MOT): Full closure of US 36 with official detour utilizing SR 38 and SR 3.  |
|   |

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

State Project: ⊠ LPA: □

Any other factors influencing recommendations: N/A

#### **INFRASTRUCTURE TABLE AND SUMMARY**

| Infrastructure Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A: |                              |                         |     |  |  |  |  |
|---|------------------------------|-------------------------|-----|--|--|--|--|
| Religious Facilities  | N/A                          | Recreational Facilities | 2   |  |  |  |  |
| Airports <sup>1</sup>   | N/A                          | Pipelines               | N/A |  |  |  |  |
| Cemeteries  | Cemeteries N/A Railroads N/A |                         |     |  |  |  |  |
| Hospitals   | N/A                          | Trails                  | N/A |  |  |  |  |
| Schools   | 3                            | Managed Lands           | N/A |  |  |  |  |

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

#### Explanation:

**Schools:** Three (3) schools are located within the 0.5 mile search radius. The nearest facility, Shenandoah High School, is adjacent to the northeast quadrant of the project area. Coordination with Shenandoah High School will occur.

**Recreational Facilities:** Two (2) recreational facilities are located within the 0.5 mile search radius. The nearest facility, Shenandoah High School & Shenandoah Middle School, are adjacent to the northeast quadrant of the project. Coordination with Shenandoah High School and Shenandoah Middle School will occur.

#### WATER RESOURCES TABLE AND SUMMARY

| Water Resources Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A: |  |                       |     |  |  |  |  |
|--|--|-----------------------|-----|--|--|--|--|
| NWI - Points   | NWI - Points 1 Canal Routes - Historic N/A |                       |     |  |  |  |  |
| Karst Springs  | N/A  | NWI - Wetlands        | 9   |  |  |  |  |
| Canal Structures – Historic  | N/A  | Lakes                 | 1   |  |  |  |  |
| NPS NRI Listed   | N/A  | Floodplain - DFIRM    | 2   |  |  |  |  |
| NWI-Lines  | 1  | Cave Entrance Density | N/A |  |  |  |  |
| IDEM 303d Listed Streams and<br>Lakes (Impaired)   | 1  | Sinkhole Areas        | N/A |  |  |  |  |
| Rivers and Streams   | 4  | Sinking-Stream Basins | N/A |  |  |  |  |

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

#### Explanation:

**NWI-Points:** One (1) NWI-Point is located within the 0.5 mile search radius. The NWI-Point is located approximately 0.25 mile east of the project area. No impact is expected.

**NWI-Lines:** One (1) NWI-Line is located within the 0.5 mile search radius. The NWI-Line is located within the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

**IDEM 303d Listed Streams and Lakes (Impaired):** One (1) 303d Listed Stream is located within the 0.5 mile search radius. Deer Creek is located within the project area. Deer Creek is listed as impaired for E. Coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.

**Rivers and Streams:** Four (4) rivers and streams segments are located within the 0.5 mile search radius. One (1) stream, Deer Creek, is located within the project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

**NWI-Wetlands:** Nine (9) NWI-Wetlands are located within the 0.5 mile search radius. The nearest wetland is located approximately 0.24 mile north of the project area. No impact is expected.

**Lakes:** One (1) lake is located within the 0.5 mile search radius. The lake is located approximately 0.22 mile southeast of the project area. No impact is expected.

**Floodplain – DFIRM:** Two (2) floodplain polygons are located within the 0.5 mile search radius. The project area is located within one (1) of the floodplain polygons. Coordination with INDOT ESD Ecology and Waterway Permitting will occur.

#### MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

| Mining/Mineral Exploration  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, |  |  |  |  |  |  |
| please indicate N/A:  |  |  |  |  |  |  |
| Petroleum Wells 5 Mineral Resources N/A   |  |  |  |  |  |  |
| Mines – Surface N/A Mines – Underground N/A   |  |  |  |  |  |  |

#### **Explanation:**

Petroleum Wells: Five (5) petroleum wells are located within the 0.5 search radius. The nearest petroleum well is located approximately 0.09 mile north-northwest of the project area. No impact is expected.

#### **HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY**

(LUST) Sites

#### **Hazardous Material Concerns** Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A: Superfund N/A Manufactured Gas Plant Sites N/A N/A N/A RCRA Generator/TSD **Open Dump Waste Sites** N/A N/A **RCRA Corrective Action Sites Restricted Waste Sites** N/A N/A State Cleanup Sites Waste Transfer Stations Septage Waste Sites N/A Tire Waste Sites N/A Underground Storage Tank (UST) N/A N/A **Confined Feeding Operations** Sites (CFO) N/A **Voluntary Remediation Program** Brownfields N/A N/A **Construction Demolition Waste** Institutional Controls N/A N/A Solid Waste Landfill **NPDES Facilities** 1 N/A Infectious/Medical Waste Sites **NPDES Pipe Locations** 1 Leaking Underground Storage 1 **Notice of Contamination Sites** N/A

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

#### Explanation:

Leaking Underground Storage (LUST) Sites: There is one (1) LUST site within the 0.5 mile search radius. The nearest site, Shenandoah School Site, 5100 North Raider Road, AI ID# 41124, is located approximately 0.04 mile northeast of the project area and currently operates as a high school. Two Underground Storage Tanks (USTs), one 1,000-gallong gasoline UST and one 550-gallong diesel fuel UST, were removed from property. Subsequent site characterization and contamination soil removal ensued. Remaining petroleum impacts appear to be confined to the site and former diesel UST location, approximately 0.24 mile from the north end of the project area. No impact is expected.

**NPDES Facilities:** There is one (1) NPDES site within the 0.5 mile search radius. The nearest site, Shenandoah Middle and High School, 5100 North Raider Road, is located approximately 0.04 mile and 0.14 mile northeast, respectively, of the project area. The associated permit has expired as of May 31, 2020. No impact is expected.

**NPDES Pipe Locations:** There is one (1) NPDES Pipe location within the 0.5 mile search radius. The nearest site, Shenandoah Middle and High School, 5100 North Raider Road, is located approximately 0.04 mile and 0.14 mile northeast, respectively, of the project area. No impact is expected.

#### **ECOLOGICAL INFORMATION SUMMARY**

The Henry County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is provided at <a href="https://www.in.gov/dnr/nature-preserves/files/np\_henry.pdf">https://www.in.gov/dnr/nature-preserves/files/np\_henry.pdf</a>. A preliminary review of the Indiana Natural Heritage Database by INDOT ESD did not indicate the presence of ETR species within the 0.5 mile search radius. Due to the nature of the project activities, this project may fall under the guidelines set forth under USFWS Interim Policy for the Review of Highway Transportation

Projects in Indiana dated May 29, 2013. However, if a Waters of the US Report is prepared for the project, coordination will need to occur with IDNR at a minimum.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for listed Bat Consultation for INDOT Projects".

#### **RECOMMENDATIONS SECTION**

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

**INFRASTRUCTURE:** 

Schools: The nearest school, Shenandoah High School, is adjacent to the northeast quadrant of the project area. Coordination with Shenandoah High School will occur.

Recreational Facilities: The nearest facilities, Shenandoah High School and Shenandoah Middle School, are adjacent to the northeast quadrant of the project area. Coordination with Shenandoah High School and Shenandoah Middle School will occur.

WATER RESOURCES: A Waters of the US Report is recommended based on mapped features and coordination with the appropriate agency, if applicable, will occur for the following features:

- One (1) stream segment, Deer Creek, flows through the project area.
- One (1) NWI-Line segment is located within the project area.
- The project area is located within a floodplain (coordination only).

IDEM 303d Listed Streams and Lakes (Impaired): Deer Creek is listed as impaired for E. Coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

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

Chad Pitcher, Digitally signed by Chad Pitcher, CHMM
Date: 2022.11.29

07:37:56 -05'00'

INDOT ESD concurrence:

Prepared by:

Opril (mayo-Mone April Arroyo-Monroe

Environmental Scientist

Kaskaskia Engineering Group, LLC

(Signature)

#### **Graphics**:

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

SITE LOCATION: YES

INFRASTRUCTURE: YES

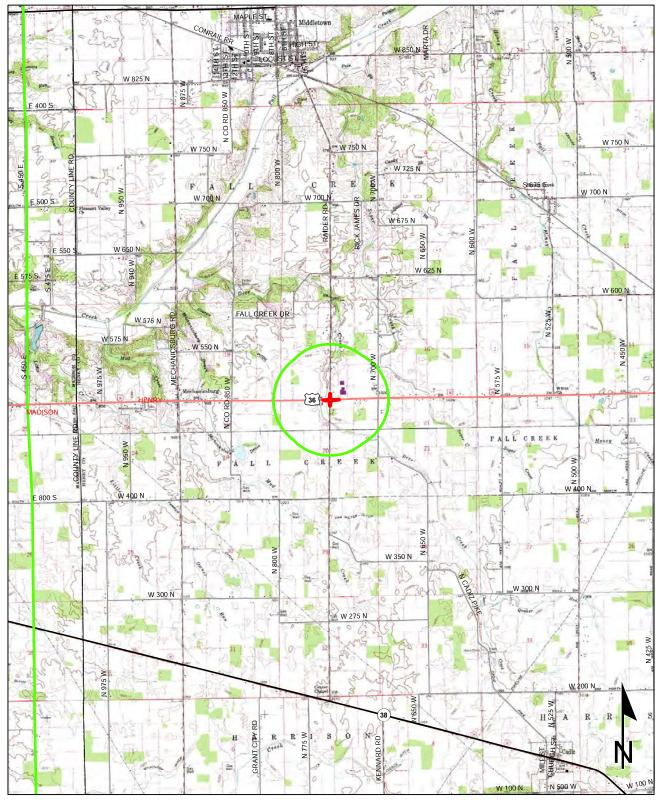
**WATER RESOURCES: YES** 

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: YES

#### Red Flag Investigation - Site Location US 36 & Raider Road Des. No. 2000152, Intersection Improvement

Henry County, Indiana



8.0 0.4 8.0 ■Miles

Non Orthophotography

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

Orthophotography - Obtained from Indiana Map Framework Data 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.

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

# Red Flag Investigation - Infrastructure US 36 & Raider Road

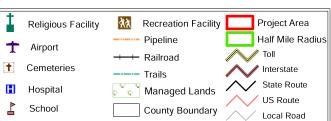
Des. No. 2000152, Intersection Improvement Henry County, Indiana



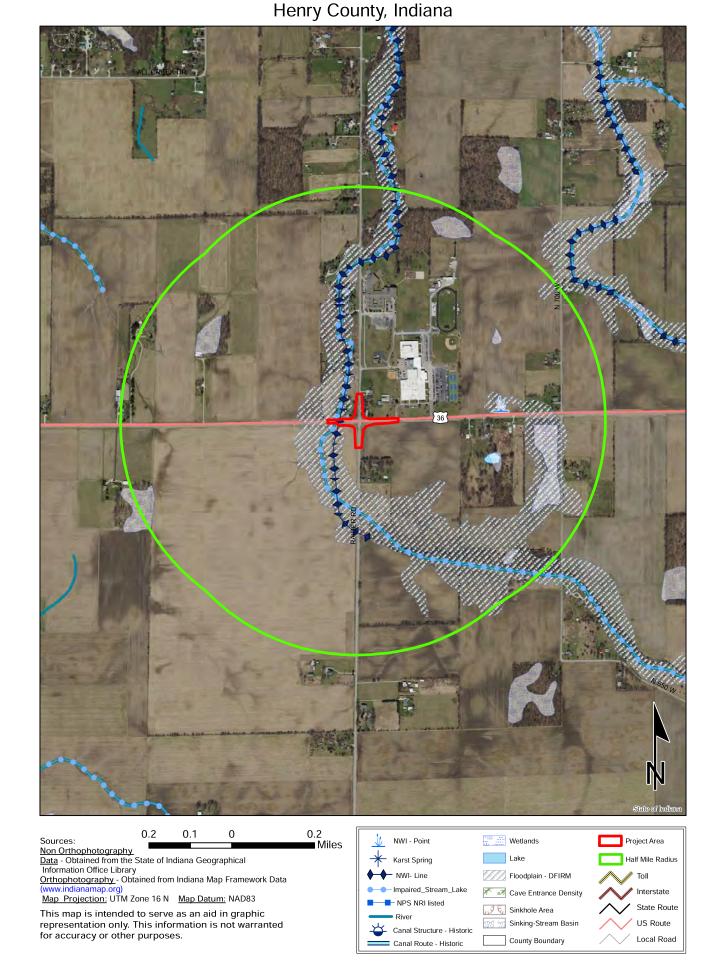
Sources: 0.15 0.075 0 0.15 Miles

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.

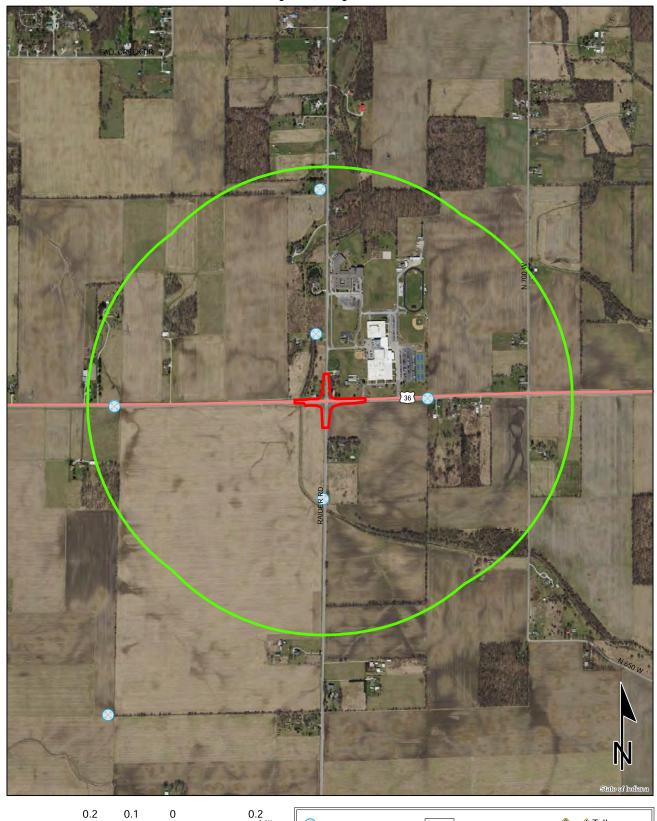


# Red Flag Investigation - Water Resources US 36 & Raider Road Des. No. 2000152, Intersection Improvement



## Red Flag Investigation - Mining & Mineral Resources US 36 & Raider Road

Des. No. 2000152, Intersection Improvement Henry County, Indiana



0.2 ■ Miles Non Orthophotography

<u>Data</u> - Obtained from the State of Indiana Geographical

Information Office Library

<u>Orthophotography</u> - 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.



# Red Flag Investigation - Hazardous Material Concerns US 36 & Raider Road Des. No. 2000152. Intersection Improvement

Des. No. 2000152, Intersection Improvement Henry County, Indiana





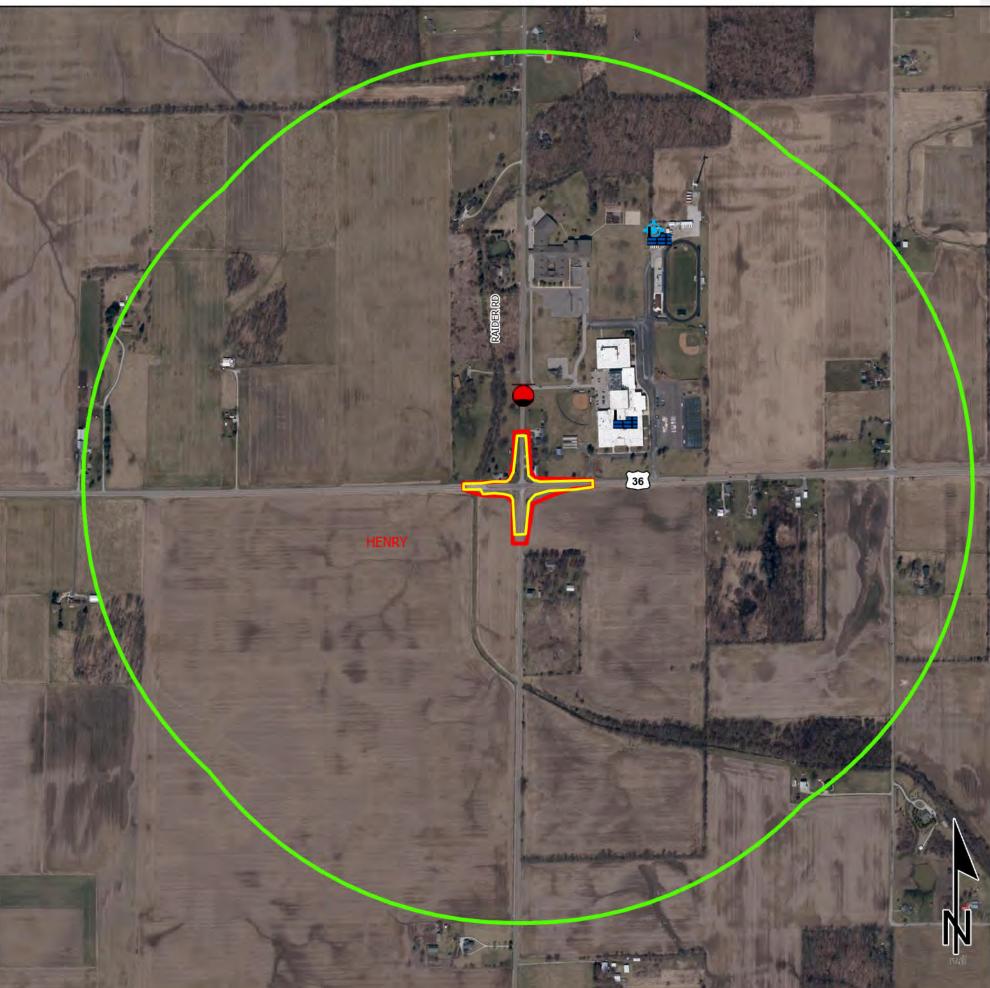
0.2 0.1 0 0.2 Miles

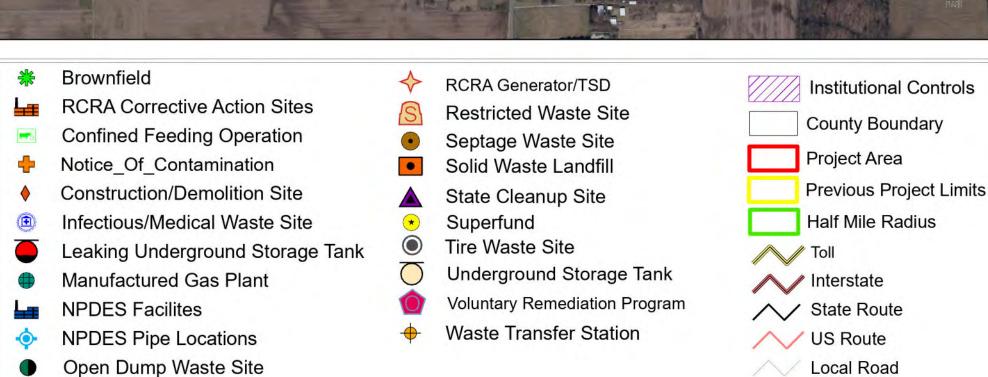
Sources:
Non Orthophotography

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

# Red Flag Investigation - Hazardous Material Concerns US 36 and Raider Road Des. No. 2000152, Intersection Improvement Henry County, Indiana





0.15 0.07 0 0.15 Miles

Sources: Non Orthophotography

This map is intended to serve as an aid in graphic

#### **APPENDIX F**

Water Resources

adan Gerstler Approved 12.8.23

#### WATERS OF THE U.S. DETERMINATION REPORT

US 36 and Raider Rd, Roundabout, State Project INDOT DES. NO. 2000152 Asset ID: 036-33-06618/ NBI# 011740

Update to Report Approved by Aidan Gessler, April 13, 2023

Completed Date: December 7, 2023

#### 1.0 PROJECT INFORMATION

#### **Date of Waters Field Investigation:**

October 12 and 13, 2022

Photo directional map and photo log omitted to avoid duplication.

#### **Project Location:**

Middleton, Indiana Quadrangle Section 17 Township 18 N Range 9 E Section 20 Township 18 N Range 9 E Latitude: 40.00454, Longitude: -85.52805 Henry County, Indiana

#### **Project Description:**

The proposed state project (Des. No. 2000152) is located in Henry County, Washington Township, Middleton Quadrangle. The Indiana Department of Transportation (INDOT) has identified the need to improve the safety of the two-way stop controlled intersection of US 36 and Raider Road, located approximately 0.05 mile west of reference post 100 in Fall Creek Township, Henry County (Figure 1). INDOT proposes to convert the current two-way stop-controlled intersection into a single lane roundabout. Additionally, minor drainage ditch modifications and small drainage structures may be necessary for the intersection.

The investigated area has changed, as of November 29, 2023, because the utility company, Duke Energy requested additional right of way for their activities to complete this project.

#### 2.0 OFFICE EVALUATION

#### Results:

#### **USGS Mapping**

The USGS Middleton, Indiana 7.5-minute topographic quadrangle map indicates a (solid blue line) perennial stream associated with Deer Creek within the investigated area. (Figures 2 and 3). The change in area did not affect the USGS mapping results.

#### **NWI Mapping**

The NWI map was reviewed for the presence of potential wetlands in, or adjacent to, the investigated area (Figure 4). One NWI feature is mapped within the investigated area. It is listed below in Table 1 and is associated with Deer Creek. The change in the investigated area did not affect the NWI mapping results.

Table 1: NWI Wetlands Within/Adjacent the Investigated Area

| Wetland Type                                  | Cowardin<br>Classification<br>Code | Location                                       |
|---|------------------------------------|--|
| Riverine intermittent streambed cobble-gravel | R4SBCx                             | Deer Creek, on west side of investigated area. |

Source: USFWS NWI, 2023

#### Mapped Soil Units

According to the Web Soil Survey geographic database for Henry County, Indiana (USDA- NRCS Web Soil Survey, 2022), the investigated area contains five map units (Figure 5, Table 2). The change in the investigated area did not affect the mapped soil unit results.

Table 2 - Soil Units within the Investigated Area

| Soil Unit<br>Symbol | Soil Unit Name  | Hydric<br>Rating | Hydric Status                |
|---------------------|---|------------------|------------------------------|
| CrA                 | Celina silt loam, stony subsoil, 2% to 6% slopes, eroded          | 5%               | Predominantly Non-<br>Hydric |
| Ge                  | Genesee loam, occasionally flooded                                | 3%               | Predominantly Non-<br>Hydric |
| La                  | Landes loam, rarely flooded                                       |                  | Non-Hydric                   |
| MmB2                | Miamian silt loam, New Castle Till Plain, 2% to 6% slopes, eroded |                  | Predominantly Non-<br>Hydric |
| Су                  | Cyclone silty clay loam, 0% to 2% slopes                          | 83%              | Predominantly Hydric         |

Source: NRCS Web Soil Survey, 2023

#### Hydrology

According to the USGS NHD map, there are three flowlines located within the investigated area (Figure 6). A stream/river flowline, associated with Deer Creek, flows from south to north in the west side of the investigated area. One stream/ river flowline meets the Deer Creek flowline in the lower southwest of the investigated area. There is also a drainage flowline that flows from

east to west, across the central east side to the west of the investigated area to meet the Deer Creek flowline. It is within USGS 12-digit Hydrological Unit Code (HUC) 051202010803 (Deer Creek-Fall Creek sub-watershed).

According to the IDNR Best Available Floodplain Layer the investigated area is located within the floodplain associated with Deer Creek (Figure 7).

This project does not lie within the karst region of Indiana.

#### 3.0 FIELD RECONNAISSANCE

#### Methodology:

A field visit was conducted by Kaskaskia Engineering Group, LLC staff on October 12 and 13, 2022, to document and survey the presence of streams, wetlands, and other water resources within the investigated area. The investigated area is shown on the attached maps. The field investigation area encompassed a slightly larger area than the construction survey footprint to account for water resources adjacent to the project site. It was determined that the original field investigation and resulting photographs sufficiently covered the additional area within the updated investigated limits.

Any roadside ditches within the investigated area were also evaluated for consideration as jurisdictional or non-jurisdictional aquatic resources.

Water resources are summarized in Table 3 and 4 below. The resource map with identified features within the investigated area on Figure 8. Photographs and a photo direction map (Figure 9) are included after the figures.

#### Results:

#### Birds and Bats

The bridge was investigated for the presence of migratory bird nests and/or evidence of bats during the site visit. Several bird's nests were found attached to the center of the bridge. They appeared to be Eastern phoebe nests (photos 8, 10-12). There was no evidence of the presence of bats. There are no new structures within the updated investigated area, thus the results of the field visit regarding bats and birds have not changed nor was a new field investigation necessary.

#### Wildlife

Deer and racoon tracks were found in the stream bed under the bridge providing evidence of wildlife using underneath of the bridge as a wildlife crossing. There are no new structures within the updated investigated area, thus the results of the field visit regarding wildlife have not changed nor was a new field investigation necessary.

#### Karst

There were no karst features found within the investigated area. It was determined that the original field investigation sufficiently covered the additional area within the updated investigated limits thus the results of the karst investigation have not changed.

#### **Streams**

One stream, Deer Creek, was identified within the investigated area.

#### Deer Creek

Deer Creek would likely be classified a perennial stream though it did not exhibit a consistent base flow during the field visit, water was present but not flowing. The observed OHWM was 17.5 feet wide and 1.33 feet deep (Latitude 40.00485 Longitude –85.52914) approximately 147 feet downstream from the bridge in order for the OHWM to be outside of the influence of the bridge. Hydrologic conditions were drier than normal based on the previous three months of rainfall data from the U.S. Army Corps of Engineers (USACE) Antecedent Precipitation Tool (APT)<sup>1</sup>. The OHWM was characterized by absent vegetation and washed away leaf litter. Deer Creek had a well-defined bed and bank. It flows southwest to northeast under US 36. Deer Creek flows to Fall Creek which flows to the White River which is a Section 10 Navigable River. Upstream drainage consists of agricultural land and rural residential areas. According to USGS StreamStats, Deer Creek has an upstream drainage of 5.57 square miles.

The substrate within the channel in this section was gravel and muck. Riprap was found on the slopes and in the stream under the bridge to about 20 feet out on each bank up and down stream. There were no riffle-pool complexes. In-stream cover from overhanging vegetation was approximately ninety percent.

Dominant vegetation along the banks consisted of amur honeysuckle (*Lonicera maackii*- NA), black walnut (*Juglans nigra*- FACU), red mulberry (*Morus rubra*- FACU), European ash (*Fraxinus excelsior*- NA), white mulberry (*Morus alba*-FAC), and giant fox tail (*Setaria faberi*-FACU). Based on a qualitative assessment, this resource is an average quality resource within this reach due to substrate, riparian cover and it being a perennial stream. It was determined that the original field investigation sufficiently covered the additional area within the updated investigated limits thus the results of the streams investigation have not changed.

**Table 3 – Stream Summary Table** 

|               |          | oordinates<br>al Degrees) | USGS                   |                | Riffles/       |                | OHWM          | OHWM          | Stream              | Estimated<br>Amount of<br>Stream within           | <b>-</b>         | Likely                   |
|---------------|----------|---------------------------|------------------------|----------------|----------------|----------------|---------------|---------------|---------------------|---|------------------|--------------------------|
| ID            | Latitude | Longitude                 | Blue-<br>Line<br>(Y/N) | Stream<br>Type | Pools<br>(Y/N) | Substrate      | Width<br>(ft) | Depth<br>(ft) | Relative<br>Quality | Investigated<br>Area<br>(acres or<br>linear feet) | Photo<br>Numbers | Water of<br>the<br>U.S.? |
| Deer<br>Creek | 40.00485 | -85.52914                 | Yes                    | Perennial      | No             | Gravel<br>Muck | 17.5          | 1.33          | Average             | 356 lf /<br>0.14 acre                             | 6, 7,9,13,       | Yes                      |

<sup>&</sup>lt;sup>1</sup> The APT system was not working at the time of this report, but one was generated for report Des No 2000156, 26 road miles (18 overland miles) away. The fieldwork was conducted the same day.

#### Wetlands

No wetlands were found within the investigated area. Though there was wetland vegetation present along the stream banks, it did not occur in sufficient quantities to pass any of the tests for hydrophytic vegetation. Since this wetland indicator was not present, no further wetland tests were necessary. The land within the investigated area consisted of steep mown vegetated highway side slopes, mown highway grassy swales/flat grassy verges, residential land with mown lawns, and active row crop land. This land is not conducive to wetland formation either due to the steepness of the slopes or the maintenance of the vegetation and drainage. It was determined that the original field investigation sufficiently covered the additional area within the updated investigated limits thus the results of the wetlands investigation have not changed.

#### Roadside Ditches:

There were two roadside ditches (RSD) identified in the investigated area. They were determined to be roadside ditches because they did not have an OHWM, did not have a naturally defined bed or bank (they are excavated), drain only uplands, do not carry a permanent flow of water, and transport mainly overland flow generated from precipitation. It was determined that the original field investigation sufficiently covered the additional area within the updated investigated limits thus the results of the roadside ditch investigation have not changed.

Table 4 – Roadside Ditches Summary Table

|      | Coordinates<br>(Decimal Degrees) |           |  |          |        | Photo   |
|------|----------------------------------|-----------|--|----------|--------|---------|
| ID   | Latitude                         | Longitude | Description  | Bed      | Length | Numbers |
| RSD1 | 40.00443                         | -85.52898 | South of US 36, on the east side of the bridge, flowing west to Deer Creek | Concrete | 130 ft | 16      |
| RSD2 | 40.00467                         | -85.52901 | North of US 36, on the east side of the bridge, flowing west to Deer Creek | Concrete | 157 ft | 14      |

#### 4.0 CONCLUSIONS

Field observations and desktop research revealed one likely, jurisdictional stream, Deer Creek, and no wetlands. Deer Creek is a solid blue line stream on the USGS Middleton, Indiana 7.5-minute topographic quadrangle map, it has an OHWM, and is connected to the White River, a Section 10 Navigable River. Every effort should be taken to avoid and minimize impacts to the waterway. If impacts are necessary, then mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the USACE. This report is our best judgment based on the guidelines set forth by the USACE. There was no change to the streams, wetlands, and roadside ditches determination due to the change in the investigated area thus the original conclusions have not changed.

#### 5.0 ACKNOWLEDGEMENT

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

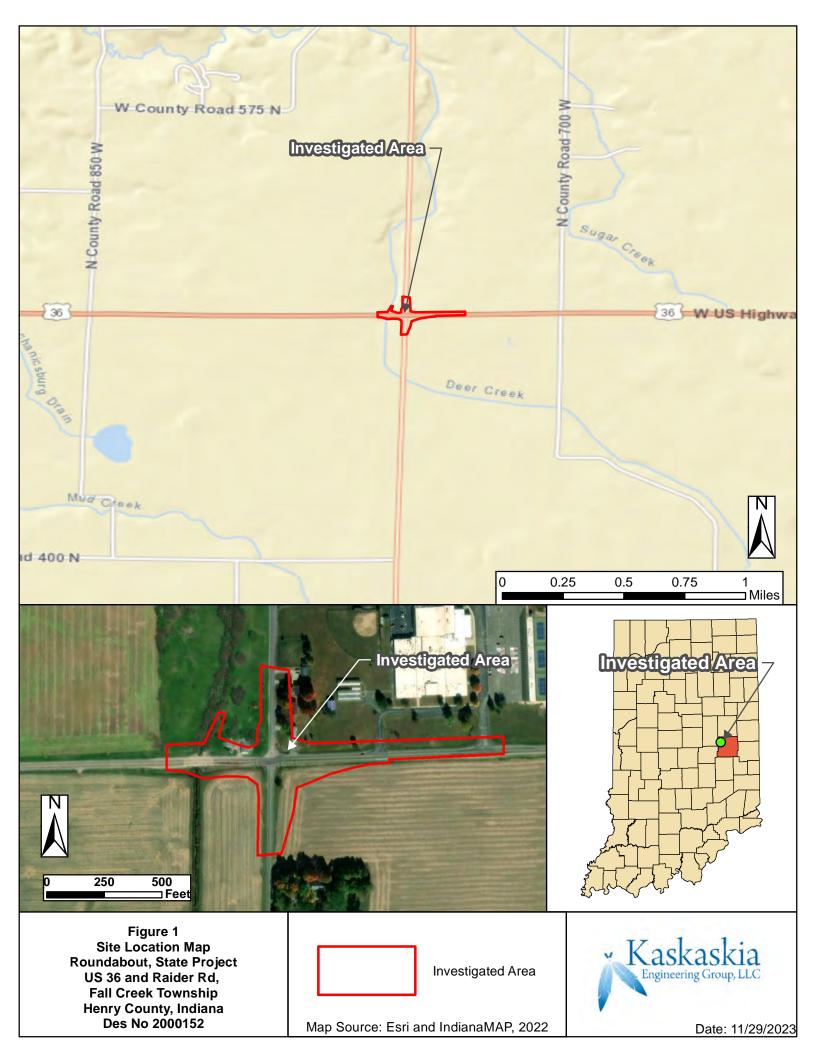
Date: December 7, 2023

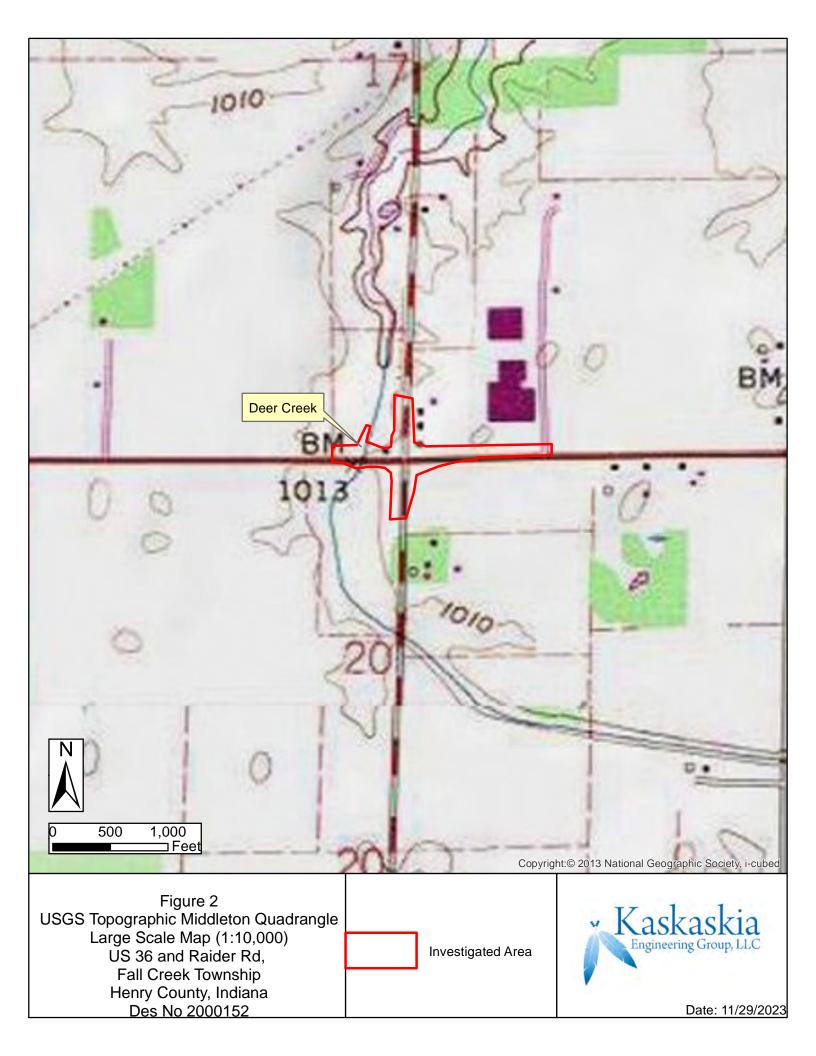
Respectfully,

April C. Arroyo-Monroe, Environmental Scientist

Kaskaskia Engineering Group, LLC

Opril anoyo-Mond





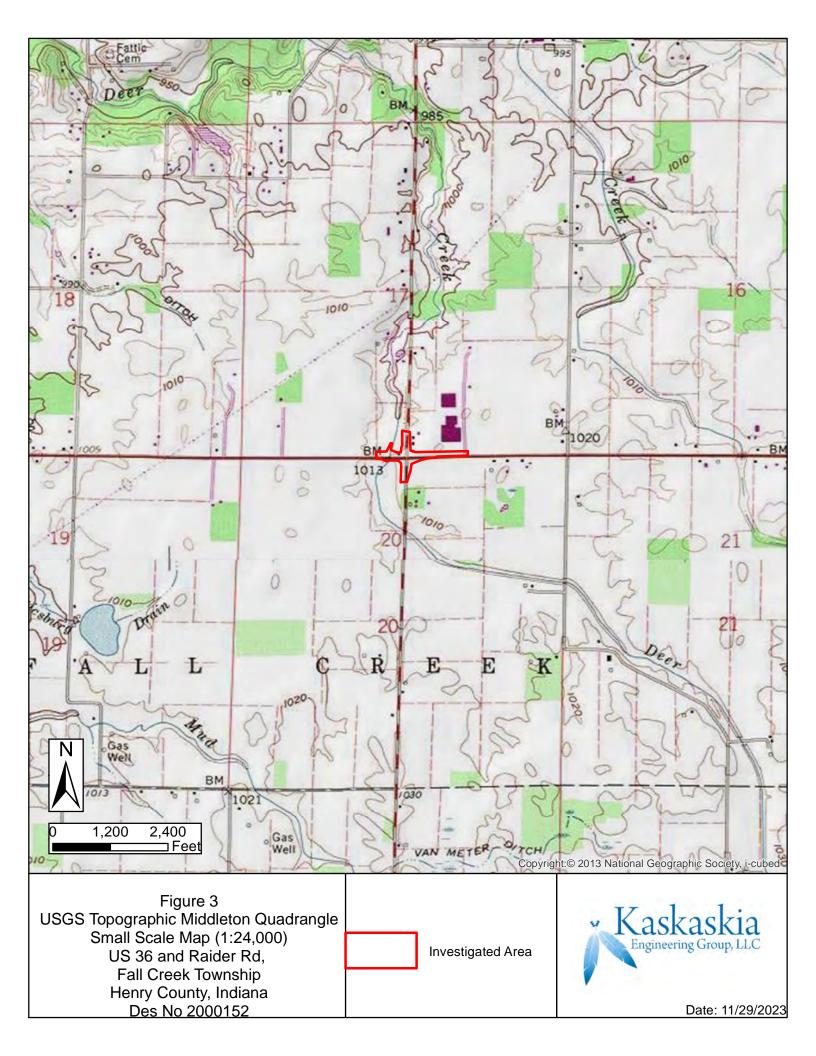




Figure 4
USFWS National Wetland Inventory Map
Roundabout, State Project
US 36 and Raider Rd,
Fall Creek Township
Henry County, Indiana
Des No 2000152



Investigated Area

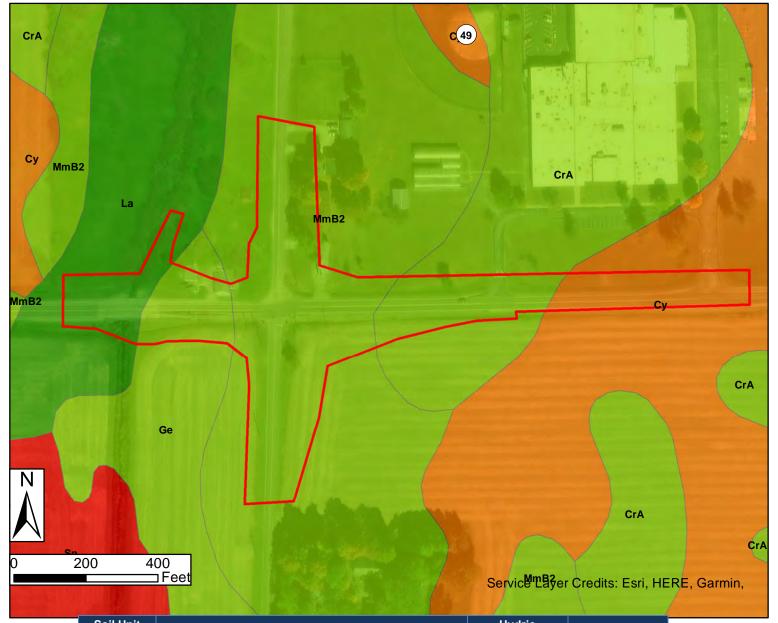


Riverine Wetland

Source: USFWS NWI Wetlands 2022

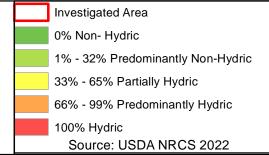


Date: 11/29/2023



| Soil Unit<br>Symbol | Soil Unit Name  | Hydric<br>Rating | Hydric Status               |
|---------------------|---|------------------|-----------------------------|
| CrA                 | Celina silt loam, stony subsoil, 2% to 6% slopes, eroded          | 5%               | Predominantly<br>Non-Hydric |
| Ge                  | Genesee loam, occasionally flooded                                | 3%               | Predominantly<br>Non-Hydric |
| La                  | Landes loam, rarely flooded                                       | 0%               | Non-Hydric                  |
| MmB2                | Miamian silt loam, New Castle Till Plain, 2% to 6% slopes, eroded | 5%               | Predominantly<br>Non-Hydric |
| Су                  | Cyclone silty clay loam, 0% to 2% slopes                          | 83%              | Predominantly<br>Hydric     |

Figure 5
USDA NRCS Soil Map
Roundabout, State Project
US 36 and Raider Rd,
Fall Creek Township
Henry County, Indiana
Des No 2000152





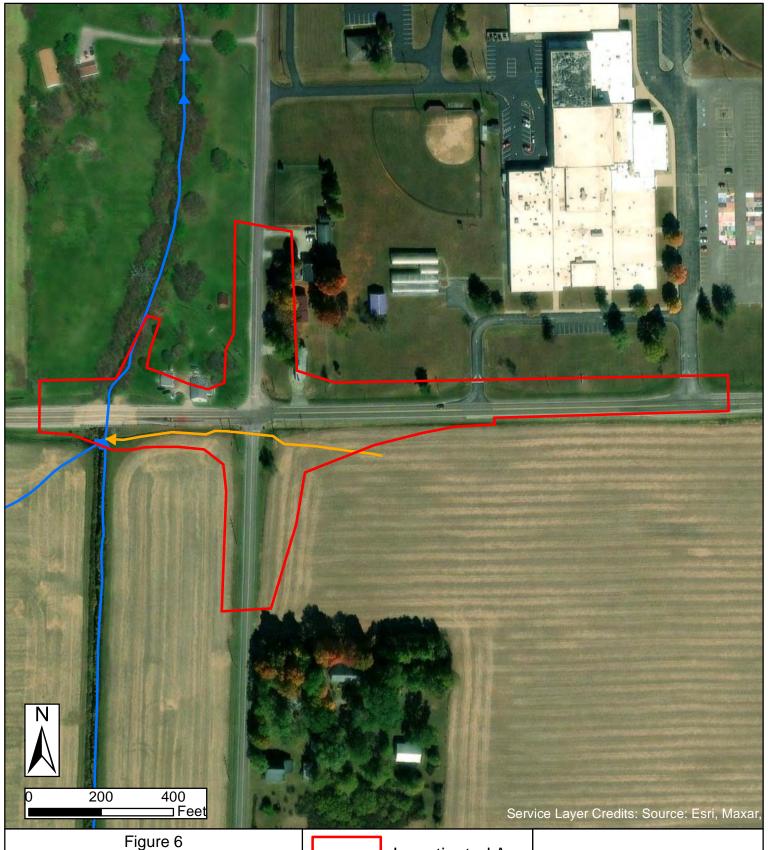


Figure 6
USGS National Hydrography Data Map
Roundabout, State Project
US 36 and Raider Rd,
Fall Creek Township
Henry County, Indiana
Des No 2000152

Investigated Area

----- CanalDitch

StreamRiver

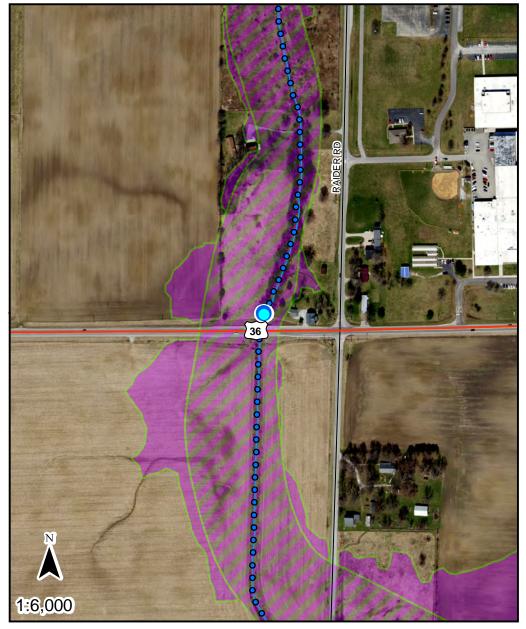
Source: USGS NHD 2022



Date: 11/29/2023



# Figure 7 Des No 20001520Floodplain Analysis & Regulatory Assessment (FARA)



Point of Interest

Base Flood Elevation Point

#### **Flood Elevation Points**

STUDIED STREAM

## Rivers and Streams at least 1 square mile

**Drainage Area (sq. miles)** 

\_\_\_\_ 1 - 10

**DNR Approximate Floodway** 

DNR Approximate Fringe

Point of Interest Coordinates (WGS84)

Long: **-85.5292490029** 

Lat: 40.0047476949

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

County: **Henry** Approximate Ground Elevation: **1,000.3 feet (NAVD88)** 

Stream Name: Base Flood Elevation: 1,007.0 feet (NAVD88)

Deer Creek Drainage Area: Not available

Best Available Flood Hazard Zone: DNR Approximate Floodway

National Flood Hazard Zone: FEMA Zone A

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

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

Floodplain Administrator: Darrin Jacobs, Zoning Administrator

Community Jurisdiction: Henry County, County proper

Phone: (765) 529-7408

Email: djacobs@henryco.net

US Army Corps of Engineers District: Louisville

Date Generated: 3/14/2023



Figure 8
Water Resources Map
Roundabout, State Project
US 36 and Raider Rd,
Fall Creek Township
Henry County, Indiana
Des No 2000152

Investigated Area

Stream Data Point

──→ RSD

Stream



Date: 11/29/2023

3/14/23, 9:01 AM StreamStats

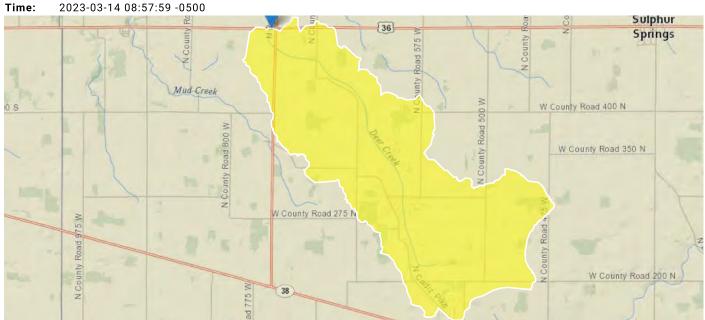
#### StreamStats Report Des No 2000152

Region ID:

Workspace ID: IN20230314135739849000

Clicked Point (Latitude, Longitude): 40.00457, -85.52929

2023-03-14 08:57:59 -0500



Collapse All

| Parameter<br>Code | Parameter Description   | Value | Unit                   |
|-------------------|---|-------|------------------------|
| DRNAREA           | Area that drains to a point on a stream   |       | square miles           |
| K2INDNR           | Average hydraulic conductivity (ft/d) for the full depth of unconsolidated deposits from InDNR well database. | 14    | ft per day             |
| LC01FOREST        | Percentage of forest from NLCD 2001 classes 41-43   | 5.5   | percent                |
| LOWREG            | Low Flow Region Number  | 1729  | dimensionless          |
| QSSPERMTHK        | Index of the permeability of surficial Quaternary sediments computed as in SIR 2014-5177                      | 298.5 | dimensionless          |
| T2INDNR           | Average transmissivity (ft2/d) for the full depth of unconsolidated deposits from InDNR well database.        | 2621  | square feet per<br>day |

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

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of release constitute any such warranty. Furthermore, the

# Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM **BACKGROUND INFORMATION** A. REPORT COMPLETION DATE FOR PJD: B. NAME AND ADDRESS OF PERSON REQUESTING PJD: C. DISTRICT OFFICE, FILE NAME, AND NUMBER: D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: (USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES) State: County/parish/borough: City: Center coordinates of site (lat/long in degree decimal format): Lat.: Long.: Universal Transverse Mercator:

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

Name of nearest waterbody:

Office (Desk) Determination. Date:

Field Determination. Date(s):

## TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

| Site<br>number | Latitude<br>(decimal<br>degrees) | Longitude<br>(decimal<br>degrees) | Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable) | Type of aquatic resource (i.e., wetland vs. non-wetland waters) | Geographic authority<br>to which the aquatic<br>resource "may be"<br>subject (i.e., Section<br>404 or Section 10/404) |
|----------------|----------------------------------|-----------------------------------|--|---|---|
|                |                                  |                                   |  |   |   |
|                |                                  |                                   |  |   |   |
|                |                                  |                                   |  |   |   |
|                |                                  |                                   |  |   |   |
|                |                                  |                                   |  |   |   |
|                |                                  |                                   |  |   |   |

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

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

| Checked items should be included in<br>below where indicated for all checke            | subject file. Appropriately reference sources d items: |
|--|--|
| Maps, plans, plots or plat submitt   | ted by or on behalf of the PJD requestor:              |
|  | ·<br>  |
| <ul><li>Data sheets prepared/submitted</li><li>Office concurs with data shee</li></ul> | by or on behalf of the PJD requestor.                  |
| Data sheets prepared by the Cor  | ps:  |
|  |  |
| U.S. Geological Survey Hydrolog  | gic Atlas:   |
| USGS NHD data.   |  |
| USGS 8 and 12 digit HUC ma   | •  |
| U.S. Geological Survey map(s).   | Cite scale & quad name:                                |
| ☐ Natural Resources Conservation   | Service Soil Survey. Citation:                         |
| ☐ National wetlands inventory map  | (s). Cite name:  |
| State/local wetland inventory map  | p(s):  |
|  |  |
|  | .(National Geodetic Vertical Datum of 1929)            |
|  | & Date):   |
|  | & Date):   |
|  | no. and date of response letter:                       |
|  | ·<br>·):   |
|  | ,  |
| MPORTANT NOTE: The information r   | ecorded on this form has not necessarily               |
| been verified by the Corps and should leterminations.                                  | d not be relied upon for later jurisdictional          |
| <u> </u>   |  |
|  | An il Anna Zadania                                     |
|  | April Arroyo-Monroe December 7, 2023                   |
| Signature and date of  | Signature and date of                                  |
| Regulatory staff member ompleting PJD  | person requesting PJD (REQUIRED, unless obtaining      |
| 1 5 -  | the signature is impracticable) <sup>1</sup>           |

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

### Permit Determination Checklist | 2023

INDOT Ecology and Waterway Permitting Office (EWPO) Revised 2/3/2023

| 1. PROJECT SPECIFIC INFORMATION   |                                  |                                 | Date:                 |  |
|---|----------------------------------|---------------------------------|-----------------------|--|
| Project Route/Type  |                                  |                                 |                       |  |
| INDOT Des. Number   | Contract # -                     |                                 |                       |  |
| County  |                                  |                                 |                       |  |
| RFC Date  | Letting                          | Date -                          | Stage 3 Due Date -    |  |
| INDOT PM  |                                  |                                 |                       |  |
| 2. Preparer Contact<br>Information  |                                  |                                 |                       |  |
| 3. Detailed Activity Description including Impacts to Regulated Resources (refer to permit checklists for required information)   |                                  |                                 |                       |  |
| 4. Materials Used   | ☐ Waters Report                  | ☐ Regulatory Guidance           | e                     |  |
|   | ☐ NEPA Documents ☐ Scope of Work | ☐ Project Plans<br>☐ IndianaMAP | ☐ USGS IN StreamStats |  |
| <ol> <li>Timeline         <ol> <li>The target permit approval/on-hand date is two (2) weeks prior to Stage 3 submittal.</li> <li>To calculate the first draft permit application submittal to EWPO, use the following formula. Please note, EWPO review time is based on the complexity of the permit application or the project:</li> </ol> </li> <li>Stage 3 Date - (Agency Review Time + EWPO Review Time) = Submittal Date to EWPO         <ol> <li>Agency Review Timeframes:</li></ol></li></ol> |                                  |                                 |                       |  |
| 5. 401 WQC (IDEM) / 404 (USACE) a. Are there jurisdictional streams, wetlands and/or open water within the project area?  |                                  |                                 |                       |  |

| a. Are there jurisdictional streams, wetlands and/or open water within the project area?               |
|--|
| $\square$ Yes – Type: $\square$ Stream(s) $\square$ Wetland(s) $\square$ Open Water $\square$ No [NPR] |
| b. If yes, what are the total impacts to the resources (reference the waters report)?                  |

|  | PERMANENT IMPACTS  | TEMPORARY IMPACTS  |  |  |  |
|--|--|--|--|--|--|
| Wetlands   |  |  |  |  |  |
| Total Acres  |  |  |  |  |  |
| Streams  |  |  |  |  |  |
| LF Below OHWM  |  |  |  |  |  |
| Acres Below OHWM   |  |  |  |  |  |
| LF Stream Relocation   |  |  |  |  |  |
| Net Gain/Loss  |  |  |  |  |  |
| Open Water   |  |  |  |  |  |
| Total Acres  |  |  |  |  |  |
| Floodway   |  |  |  |  |  |
| Acreage Below BFE  |  |  |  |  |  |
| c. Upstream Drainage Area d. Rural Bridge Exemption Project must meet the for □ Construction/reconst □ Upstream drainage ar 50 square miles). □ Project is in a rural ar the local entity with juriss □ Project is limited to a are not exempt activities) | bridge or culvert (bank stabilization, ro<br>ed by the project is higher than the regu<br>including the basement).         | yes [NPR] □ No  The funded by INDOT.  The following to 50 square miles (does not exceed an ing zone, include coordination with adway repair, and stream relocation |  |  |  |
| f. Qualified Outfall Projects Og. Mitigation   |  | ☐ Yes [NPR] ☐ No<br>☐ Yes ☐ No   |  |  |  |
| Construction Stormwater Ge<br>Will one (1) acre or more of s<br>(Such as tree clearing, full-dep   |  | ☐ Yes ☐ No [NPR] action access, etc.)ac  |  |  |  |
| [Coordination with INDOT-  | ES Storm Water Team is required.]  |  |  |  |  |
| County Regulated Drains  |  |  |  |  |  |
| Is the project located in a regulated drain?  Yes  No [NPR]  |  |  |  |  |  |
| Is the project in a county that requires notification? ☐ Yes ☐ No [NPR]  |  |  |  |  |  |
| Allen, Elkhart, Hamilton, Hendricks, Lake, LaPorte.  |  |  |  |  |  |
| Designation as a regulated drain n   | Designation as a regulated drain may prevent construction of on-site mitigation. Include coordination with the entity with |  |  |  |  |

**9. Section 9 (USCG) and Section 10 (USACE)**Does the project impact a navigable waterway?

**10. Levee** □ Yes □ No [NPR]

☐ Yes ☐ No [NPR]

Does the project impact a levee?

6.

7.

8.

jurisdiction.

#### 11. Additional Considerations

Fish Spawning (restriction of instream work between April 1 – June 30)

Tree Clearing (restriction of clearing between April 1 – September 30)

Wildlife Concerns (e.g. wildlife crossing, etc.)

Adjacent project(s) - may be looked at cumulatively for impacts and mitigation

Endangered, Threatened or Rare Species (see DNR Early Coordination letter, USFWS species list)

Migratory Birds (see DNR Early Coordination letter, USFWS species list, visual evidence such as nests)

Bats (see USFWS species list, visual evidence such as guano, staining, etc.)

Other Protected Species (see DNR Early Coordination letter, USFWS species list)

Indiana designated waters - salmonid or outstanding state resource waters, critical wetland and aquatic sites

US EPA Class V Injection Well

Waters Report <5 years from date of first field visit

USFWS and IDNR Early Coordination requirements

Section 106 consultation

St. Joseph Aquifer System

If there are any special concerns, notify designer that the project should take these into consideration when completing the design and permit applications. Some special concerns may require extra coordination with agencies and possibly permits. If marked, notify the project manager in your permit determination response of these conflicts.

#### 12. EWPO Preliminary Permit Determination Concurrence \*\*\*For EWPO Use Only\*\*\*

This is a **preliminary** permit determination based on the information presented at the time of the request. **If** scope and plans change the designer should contact us for a revised determination. A final permit determination will be done at the time of permit application submittal and/or any changes to the scope of the project.

#### **Permit Determination:**

#### ▶ No Permits Required

|   | Project does not impact jurisdictional aquatic resources and has less than one acre of soil disturbation                                  |
|---|---|
| • | State Form 51937  |
|   | $\square$ Cumulative impacts are $< \square 500\square$ ' $< 0.25$ ac $\square < 150$ ' encapsulation $\square < 1$ cy/ft discharge under |
|   | OHWM.   |
|   | ☐ There <b>is no</b> stream relocation associated with a structure or it meets 401 NWP 14 Condition 6.                                    |
| • | State Form 51821  |
|   | $\square$ Cumulative impacts are $> \square 500\square$ '>0.25 ac $\square > 150$ ' encapsulation $\square > 1$ cy/ft discharge under     |
|   | OHWM.   |
|   | ☐ There is stream relocation which doesn't meet 401 NWP 14 Condition 6, or the relocation is not  |
|   | associated with a structure.  |
|   | □ NWP and/or RGP conditions are not met.  |
|   |   |

#### USACE Form 4345

 $\square$  404 IP – a single wetland or stream is impacted that is >1.0 acre or > 1,500'.

#### Mitigation

| ☐ If there is a l | loss of $> 0.1$ a | c wetland or | 0.03 ac o | f streambed | (explain in | Detailed | Activity |
|-------------------|-------------------|--------------|-----------|-------------|-------------|----------|----------|
| Description, ite  | em 3 above).      |              |           |             |             |          | •        |

☐ Cumulative impacts > 300' stream and/or 0.1 ac wetland/stream.

| Permit Type           |   |  |
|-----------------------|---|--|
| ☐ 404 RGF<br>☐ 404 IP | 3b □ 3c □ 13 □ 14 □ 33  | ☐ PCN ☐ no PCN (pre-construction notification) |
| □ RGF<br>□ IP         | P   | □ PCN □ no PCN                                 |
| Project Notes:        | (include special considerations such as wil                     | dlife crossings or protected species)          |
|                       |   |  |
| EWPO Review           | ver Signature:  | Date:  |
| For EWPO Us           | e Only:   |  |
| Email to:             | □ PM □ PD Preparer □ Storm Water Specialist □ Team Lead □ Other |  |
| Date sent:            | Update: ☐ Milestones ☐  | EWPS □ ProjectWise (file PD email)             |

# **Chad Kelly**

From: INDOT CSGP <CSGP@indot.IN.gov>
Sent: Wednesday, November 8, 2023 1:59 PM
To: April C. Arroyo-Monroe; INDOT CSGP
Cc: Molly Barletta; Virginia Flynn; Chad Kelly

Subject: RE: Permit Determination -- DES 2000152 [21-1065.00]

Categories: Saved to SharePoint by Managed Filing,

https://kaskaskiaeng.sharepoint.com/sites/21-1065.00/Emails

Hi April,

It looks like >1 acre of soil will be disturbed, which means that this project will need a CSGP. Let me know if I can do anything else for you.

Best,

#### Eleanor B. Prescott (She/Her/Hers)

## Stormwater Specialist

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

INDOT: Engineering: Stormwater

Email: eprescott@indot.in.gov

From: April C. Arroyo-Monroe <april@kaskaskiaeng.com>

Sent: Wednesday, November 8, 2023 2:26 PM

To: INDOT CSGP < CSGP@indot.IN.gov>

Cc: Molly Barletta < MBarletta@kaskaskiaeng.com>; Virginia Flynn < VFlynn@kaskaskiaeng.com>; Chad Kelly

<ckelly@kaskaskiaeng.com>

Subject: FW: Permit Determination -- DES 2000152 [21-1065.00]

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

Good afternoon,

I am requesting a permit determination for project Des#2000152 per the guidance from EWPO Aidan Geissler (see the below). I have attached the completed permit determination and the Waters of the US report with maps and photos.

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

Thank you, April Arroyo-Monroe

# **APPENDIX G**

Public Involvement

Des. 2000152 Project: U.S. 36 at Raider Road Roundabout Etica Job No.: 210144.01

Date: 12/16/2021 Page 9 of 48

# NOTICE OF SURVEY LETTER



**Corporate Office** 

7172 N. Keystone Ave. Ste. G Indianapolis, IN 46240 317.466.9520 www.eticagroup.com Certified WBE | DBE

# **Notice of Survey**

12/16/2021

SUBJECT: Des 2000152 U.S.36 at Raider Road – Henry County

Intersection Survey

#### **Dear Property Owner:**

Our information indicates that you own or occupy property near the above referenced project. Our employees will be performing a survey of the project area soon. It may be necessary for them the come onto your property to complete this work. This is permitted by law per Indiana Code IC 8-23-7-26. They will show you their identification, if you are available, before coming onto your property. If you have sold this property, or it is occupied by someone else, please let us know the name and address of the new owner or current occupant so we can contact them about the survey.

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, you will be contacted with additional information.

The survey work will include mapping the location of features such as trees, fences, watercourses, bridges, culverts, hardscapes, marked utilities, drives, etc., along with obtaining ground elevations. The survey is needed to perform a topographic survey of the corresponding intersection. Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If any problems do occur, please contact Nickolas M. Schmitt for questions concerning this project.

Sincerely,

Nickolas M. Schmitt, PE, PS

Null M. Slitt

Project Manager Etica Group 317.268.1853

Cc: (Dandi V. Prasad, PE) File: (Etica No.: 210144.01)

# **APPENDIX H**

Air Quality

| Indiana | Department | of Tranco  | ortotion | (INIDOT)  |
|---------|------------|------------|----------|-----------|
| ındıana | Department | or iranspo | ortation | (INI)()I) |

| State Preservation                         | n and Lo  | al Initiat   | ed Proje     | cts FY 2024 - 2028                    | _          |       | _                   | _                         |                                |       | _               |                |              |                 |                |                |              |
|--|---|--------------|--------------|---------------------------------------|------------|-------|---------------------|---------------------------|--------------------------------|-------|-----------------|----------------|--------------|-----------------|----------------|----------------|--------------|
| SPONSOR                                    | CONTR<br>ACT#/<br>LEAD<br>DES                                       | STIP<br>NAME | ROUTE        | WORK TYPE                             | DISTRICT   | MILES | FEDERAL<br>CATEGORY | Total Cost of<br>Project* | PROGRAM                        | PHASE | FEDERAL         | MATCH          | 2024         | 2025            | 2026           | 2027           | 2028         |
| Henry County                               |   |              |              |                                       |            |       |                     |                           |                                |       |                 |                |              |                 |                |                |              |
| Henry County                               | 1902070   | Init.        | IR 1001      | Bridge Inspections                    | Greenfield | 0     | STBG                | \$337,000.00              | Local Funds                    | PE    | \$0.00          | \$31,000.00    | \$30,000.00  | \$1,000.00      |                |                | i e          |
|  | Local Bridge PE \$122,000.00 \$0.00 \$118,000.00 \$4,000.00 Program |              |              |                                       |            |       |                     |                           |                                |       |                 |                |              |                 |                |                |              |
| Performance Measur                         | re Impacted   | Bridge Co    | ondition     |                                       |            |       |                     |                           | •                              |       |                 |                |              |                 |                |                |              |
|  |   |              |              | Program for Cycle Years 2021-2024     |            |       |                     |                           |                                |       |                 |                |              |                 |                |                | l            |
| Indiana Department<br>of Transportation    | 2001876   | Init.        | US 36        | Pavement Replacement                  | Greenfield | .39   | STBG                | \$4,137,000.00            | Road<br>Construction           | CN    | \$3,309,600.00  | \$827,400.00   |              | \$0.00          |                | \$4,137,000.00 | l            |
| Performance Measur                         | re Impacted   | Pavemer      | t Condition  |                                       |            |       |                     |                           |                                |       |                 |                |              |                 |                |                |              |
| Location: 0.66 mi W                        | of SR 3 (WO   | CL Mount S   | Summit) to ( | 0.27 mi W of SR 3 (ECL Mount Summit)  |            |       |                     |                           |                                |       |                 |                |              |                 |                |                | l            |
| Comments:Include D                         | ES 200187   | 6, 200187    | 7, 2002304   |                                       |            |       |                     |                           |                                |       |                 |                |              |                 |                |                |              |
| Henry County                               | 2300120   | Init.        | IR 1007      | Bridge Inspections                    | Greenfield | 0     | STBG                | \$370,000.00              | Local Bridge<br>Program        | PE    | \$292,000.00    | \$0.00         |              |                 | \$146,000.00   | \$16,000.00    | \$130,000.00 |
|  |   |              |              |                                       |            |       |                     |                           | Local Funds                    | PE    | \$0.00          | \$72,000.00    |              |                 | \$36,000.00    | \$4,000.00     | \$32,000.00  |
| Performance Measur<br>Location: Countywide |   |              |              | y Program for cycle years 2025-2028   |            |       |                     |                           |                                |       |                 |                |              |                 |                |                |              |
| Indiana Department of Transportation       | 39270 /<br>1593230  | Init.        | SR 3         | Road Reconstruction (3R/4R Standards) | Greenfield | 2.329 | NHPP                | \$17,315,000.00           | District Other<br>Construction | CN    | \$1,600,000.00  | \$400,000.00   |              |                 | \$2,000,000.00 |                |              |
|  |   | <u> </u>     |              |                                       |            |       |                     |                           | Safety<br>Construction         | CN    | \$4,261,600.00  | \$1,065,400.00 |              | \$5,327,000.00  |                |                |              |
|  |   |              |              |                                       |            |       |                     |                           | Road<br>Construction           | CN    | \$11,057,600.00 | \$2,764,400.00 |              | \$13,822,000.00 |                |                |              |
|  |   |              |              |                                       |            |       |                     |                           |                                | •     |                 |                |              |                 |                |                |              |
| Location: From 3.14                        | miles N of I-   | 70 to SR 3   | 38           |                                       |            |       |                     |                           |                                |       |                 |                |              |                 |                |                | l            |
| Comments:Include D                         | ES 159323   | 0, 200187    |              |                                       |            |       |                     |                           |                                |       |                 |                |              |                 |                |                |              |
| Indiana Department<br>of Transportation    | 42265 /<br>1702918  | Init.        | US 36        | Small Structure Pipe Lining           | Greenfield | 0     | STBG                | \$259,000.00              | Bridge<br>Construction         | CN    | \$101,600.00    | \$25,400.00    | \$127,000.00 |                 |                |                |              |
| Performance Measur                         | re Impacted   | Safety       |              |                                       |            |       |                     |                           |                                |       |                 |                |              |                 |                |                |              |
| Location: 9.73 miles                       | E of MADIS  | ON/HENF      | RY Line      |                                       |            |       |                     |                           |                                |       |                 |                |              |                 |                |                |              |
| Comments:Include D                         | ES 170291   | В            |              |                                       |            |       |                     |                           |                                |       |                 |                |              |                 |                |                |              |
| Indiana Department<br>of Transportation    | 42343 /<br>1900208  | Init.        | US 35        | Small Structure Pipe Lining           | Greenfield | 0     | STBG                | \$327,000.00              | Bridge<br>Construction         | CN    | \$125,600.00    | \$31,400.00    | \$157,000.00 |                 |                |                |              |
| Performance Measur                         | re Impacted   | Safety       |              |                                       | •          |       | •                   | •                         | •                              | •     |                 |                |              |                 |                |                |              |
| Location: US 35 -0.5 Comments:Include D    |   |              | NRY          |                                       |            |       |                     |                           |                                |       |                 |                |              |                 |                |                | I            |
| Indiana Department                         | 43507 /   | Init.        | US 36        | Intersection Improvement, Roundabout  | Greenfield | .18   | STBG                | \$1,617,000.00            | Safety                         | CN    | \$952,000.00    | \$238,000.00   |              | \$1,190,000.00  |                |                |              |
| of Transportation                          | 2000152   |              |              |                                       |            |       | -                   | . ,. ,.                   | Construction                   |       | ,               |                |              | ψ1,130,000.00   |                |                |              |
| Page 79 of 266                             |   | Report (     | Created:9/   | 25/2023 9:21:21AM                     |            |       |                     |                           |                                |       |                 |                |              |                 |                |                |              |

Please note, an administrative modification will be needed due to change in construction costs.

#### Indiana Department of Transportation (INDOT)

|  | tate Preservation | and Local Initiated | d Projects FY 2024 - 202 | 28 |
|--|-------------------|---------------------|--------------------------|----|
|--|-------------------|---------------------|--------------------------|----|

| SPONSOR                              | CONTR<br>ACT#/     | STIP<br>NAME | ROUTE        | WORK TYPE  | DISTRICT              | MILES      | FEDERAL<br>CATEGORY  | Total Cost of<br>Project* | PROGRAM                 | PHASE      | FEDERAL         | MATCH          | 2024        | 2025         | 2026        | 2027            | 2028           |
|--------------------------------------|--------------------|--------------|--------------|--|-----------------------|------------|----------------------|---------------------------|-------------------------|------------|-----------------|----------------|-------------|--------------|-------------|-----------------|----------------|
|                                      | LEAD<br>DES        |              |              |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Performance Measure                  | e Impacted:        | Safety       |              |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Location: At Raider Re               | oad                |              |              |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Comments:Include DE                  | S 2000152          | !            |              |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 | '              |
| Indiana Department of Transportation | 43556 /<br>2002277 | Init.        | SR 38        | Small Structure Replacement                              | Greenfield            | 0          | STBG                 | \$526,000.00              | Bridge<br>Construction  | CN         | \$224,000.00    | \$56,000.00    |             | \$280,000.00 |             |                 |                |
| Performance Measure                  | Impacted:          | Bridge Co    | ndition      |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Location: 2.943 mi. E                | of Madison         | /Henry Co    | . Line       |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Comments:Include DES 2002277         |                    |              |              |  |                       |            |                      |                           |                         |            | l               |                |             |              |             |                 |                |
| Indiana Department                   | 43706 /            | Init.        | I 70         | ITS Communications Systems                               | Greenfield            | 16.04      | NHPP                 | \$470,000.00              | Statewide               | CN         | \$333,000.00    | \$37,000.00    |             | \$370,000.00 |             |                 |                |
| of Transportation                    | 2101082            |              |              |  |                       |            |                      |                           | Construction            |            |                 |                |             |              |             |                 |                |
| Performance Measure                  | Impacted:          | Congestic    | n Mitigation | n and Air Quality (CMAQ)                                 |                       | 1          |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Location: Connect ITS                | S field device     | es at each   | interchang   | e to I-70 Permit Fiber from SR 109 to Wilbur Wright Rd   |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Comments:Include DE                  | S 2101082          | !            |              |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
|                                      | 44074 /<br>2001862 | Init.        | SR 103       | Small Structures & Drains Construction                   | Greenfield            | 5.145      | STBG                 | \$430,000.00              | Bridge<br>Construction  | CN         | \$120,000.00    | \$30,000.00    |             | \$150,000.00 |             |                 |                |
| ·                                    |                    |              |              |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Performance Measure Impacted: Safety |                    |              |              |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Location: SR 103, 2.4                |                    |              | 9.842696, -  | 85.352951)   |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Comments:Include DE                  |                    |              |              |  |                       | 1          |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Henry County                         | 44274 /<br>2101743 | Init.        | IR 1125      | Signing  | Greenfield            | 242.34     | STBG                 | \$692,000.00              | Local Funds             | CN         | \$0.00          | \$64,000.00    |             |              |             | \$64,000.00     |                |
|                                      |                    |              |              |  |                       |            |                      |                           | Group IV Program        | CN         | \$572,000.00    | \$0.00         |             |              |             | \$572,000.00    |                |
|                                      |                    |              |              |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Performance Measure                  | Impacted:          | Safety       |              |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Location: Various Roa                | ıds in Henry       | County Ic    | cated in the | e western 4 townships                                    |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Comments:Include DE                  | S 2101743          | 1            |              |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Indiana Department                   | 44485 /            | Init.        | 170          | HMA Overlay, Preventive Maintenance                      | Greenfield            | 14.31      | NHPP                 | \$32,313,000.00           | Bridge                  | CN         | \$20,163,600.00 | \$2,240,400.00 |             | \$100,000.00 |             | \$22,304,000.00 |                |
| of Transportation                    | 2200811            |              |              |  |                       |            |                      |                           | Construction            |            |                 |                |             |              |             |                 |                |
|                                      |                    |              |              |  |                       |            |                      |                           | Road                    | CN         | \$22,410,000.00 | \$2,490,000.00 |             |              |             | \$24,900,000.00 |                |
|                                      |                    |              |              |  |                       |            |                      |                           | Construction            |            |                 |                |             |              |             |                 |                |
| Performance Measure                  | e Impacted:        | Pavemen      | t Condition  |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Location: 0.49 mi W o                |                    |              |              |  |                       |            |                      |                           |                         |            |                 |                |             |              |             |                 |                |
| Comments:Include DI                  | ES 1800494         | . 1800495    | . 2200762.   | 2200763, 2200764, 2200765, 2200766, 2200767, 2200768, 22 | 200769, 2200770, 2200 | 771. 22007 | 72. 2200773. 2200774 | . 2200775. 220077         | 6. 2200777. 2200778     | 8. 2200811 |                 |                |             |              |             |                 |                |
| Henry County                         | 44851 /            |              |              | Bridge Replacement                                       | Greenfield            |            | STBG                 | \$2,219,000.00            |                         | PE         | \$0.00          | \$80,000.00    | \$80,000.00 |              |             |                 |                |
|                                      | 2201636            |              |              |  |                       |            |                      |                           |                         |            |                 |                | ¥,          |              |             |                 |                |
|                                      |                    |              |              |  |                       |            |                      |                           | Local Bridge            | RW         | \$84,000.00     | \$0.00         |             |              | \$84,000.00 |                 |                |
|                                      |                    |              |              |  |                       |            |                      |                           | Program                 |            |                 |                |             |              | 40 1,000.00 |                 |                |
|                                      |                    |              |              |  |                       |            |                      |                           | Local Bridge<br>Program | CN         | \$1,370,000.00  | \$0.00         |             |              |             |                 | \$1,370,000.00 |

Page 80 of 266 Report Created:9/25/2023 9:21:21AM

<sup>\*</sup>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.

# **APPENDIX I**

**Additional Information** 

# **Engineering Assessment Report**

US 36 & Raider Rd, Intersection Improvement: Roundabout DES No. ######, Greenfield Tracking No. #######

Safety Project Proposed Fiscal Year: 2025 Score: 91

Greenfield District
Greenfield Sub-District
Henry County, Indiana
11/12/19

Prepared by:
Nathan Sturdevant, P.E.
Greenfield District Traffic Investigations Engineer

Approved by:
Luis Laracuente, P.E.
District Traffic Engineer

# **Indiana Department of Transportation**

Traffic Engineering
Greenfield District
32 South Broadway Greenfield IN 46140





# **Table of Contents**

| Executive Summary                              |
|--|
| Project Location3                              |
| Purpose and Need4                              |
| Project History4                               |
| Existing Conditions4                           |
| Roadway Geometrics and Pavement Information    |
| Traffic Data and Capacity Analysis4            |
| Crash Information                              |
| Design Considerations6                         |
| Community/External Stakeholder Context6        |
| Adjacent INDOT Projects6                       |
| Analysis and Alternatives7                     |
| Description of Alternatives                    |
| Cost Estimates                                 |
| Preliminary Maintenance of Traffic Plan (MOT)8 |
| Pavement and Roadway Design9                   |
| Right-of-Way and Survey9                       |
| Utilities and Railroads9                       |
| Hydraulic Recommendations9                     |
| Environmental and Historic Considerations9     |
| Design Criteria                                |
| Recommended Alternative10                      |
| Changes to Proposal10                          |
| Concurrence and Approval11                     |
| Attachments                                    |

- 1. Traffic Forecast and Volumes
- 2. Crash Diagram
- 3. RoadHAT Crash Data Report
- 4. CMF Information
- 5. Cost Estimate
- 6. Scoring Sheets
- 7. Alternative Sketches



## **Executive Summary**

The purpose of this report is to document the engineering assessment phase of project development, including all coordination that has been completed in preparation for this project. This document outlines the proposal and is intended to serve as a guide for subsequent survey, design, environmental, right of way and other project activities leading to construction. The preferred alternative identified in this document is considered predecisional, pending the outcome of environmental studies. An alternative other than the preferred alternative may not be selected without consultation with the preparer of this report.

The project is located at the two-way stop controlled intersection of US 36 & Raider Rd., located about 0.05 miles west of reference post 100 in Henry County. This intersection is experiencing elevated crash rates with a pattern of severe left turn and right angle crashes. Several interim measures including enhanced signage and an overhead flasher have failed to reduce crashes.

The preferred alternative is to convert the two-way stop controlled intersection into a single lane roundabout. A roundabout is expected to significantly improve the overall safety of the intersection by reducing the number and severity of conflict points (specifically left turn and right angle) as well as lowering the speed of vehicles travelling through the intersection. Additionally, a single lane roundabout is expected to operate exceptionally well (LOS A) through the design year of 2045. The estimated cost of a single lane roundabout at this location is \$1,431,000.

## **Project Location**

**Table 1: Project Location Information** 

| Location Description |                        |                           |                       |  |  |  |  |  |  |
|----------------------|------------------------|---------------------------|-----------------------|--|--|--|--|--|--|
| Route                | US 36                  | Latitude                  | 40.004559             |  |  |  |  |  |  |
| City                 | Middletown             | Longitude                 | -85.528167            |  |  |  |  |  |  |
| County               | Henry                  | Nearest Cross Street      | Raider Rd.            |  |  |  |  |  |  |
| District             | Greenfield             | Distance From             | 0                     |  |  |  |  |  |  |
| Sub District         | Greenfield             | RP From                   | 99.85                 |  |  |  |  |  |  |
| MPO                  | None                   | RP To                     | 100.05                |  |  |  |  |  |  |
| NHS Route?           | No                     | Length                    | 0.2                   |  |  |  |  |  |  |
| Functional Class     | Major Collector        | Work Type                 | Intersection          |  |  |  |  |  |  |
|                      |                        |                           | Improvement,          |  |  |  |  |  |  |
|                      |                        |                           | Roundabout            |  |  |  |  |  |  |
| Rural or Urban       | Rural                  | Work Category             | Intersection          |  |  |  |  |  |  |
|                      |                        |                           | Improvement Project   |  |  |  |  |  |  |
| Other Location Info: | Mostly Agricultural Su | urroundings, School to th | e NE of intersection. |  |  |  |  |  |  |

See attachments for a map showing the project location and for other pictures of the site.



## **Purpose and Need**

The identified need at this location involves the recurring above average number of injury crashes throughout the limits of the project. Specifically, the pattern of turning and crossing (right angle) type crashes at the intersection.

The purpose of the project is to reduce or eliminate the right angle and turning crashes and therefore reduce the number of injury crashes.

# **Project History**

This intersection was studied in 2017 after several requests by members of the community due to perceived issues with frequent crashes at the intersection. However, the ICC and ICF statistics were 0.85 and 0.57, respectively, at that time indicating low crash cost and frequency. This prompted continued monitoring of the intersection, but no further project development. In February of 2019, several school officials belonging to the Shenandoah Middle and High Schools contacted INDOT with concerns regarding the safety of the intersection. A new safety audit was completed that revealed elevated crash severity and frequency with an ICC of 2.12 and an ICF of 1.77 respectively. Because of the updated crash data that demonstrated a crash severity issue, we studied the intersection for a change in traffic control.

# **Existing Conditions**

Roadway Geometrics and Pavement Information

**Table 2: Roadway Geometrics and Pavement Information** 

| Lane Width                        | 12 ft.       |
|-----------------------------------|--------------|
| Curbed                            | No           |
| Shoulder Width                    | 5 ft.        |
| Number of lanes in each direction | 1            |
| Intersection Traffic Control      | Two Way Stop |
| Speed Limit                       | 55 mph       |
| Pavement Type                     | Asphalt      |
| Median Type                       | None         |

Traffic Data and Capacity Analysis

**Table 3: Volume Information and Traffic Forecast** 

| Representative AADT     | 4,422 |
|-------------------------|-------|
| AADT Year               | 2018  |
| % Trucks                | 15.4  |
| DHV (%)                 | 10.95 |
| % Yearly Traffic Growth | 0.18  |
| 2018 AADT               | 4,422 |



| 2025 AADT | 4,476 |
|-----------|-------|
| 2030 AADT | 4,515 |
| 2035 AADT | 4,593 |
| 2040 AADT | 4,632 |

The complete traffic forecast as provided by the Traffic Statistics Section in Central Office has been included in the attachments.

Table 4&5: Capacity Analysis

|             |     | AM Peak |     |       |     |       |     |       |  |  |
|-------------|-----|---------|-----|-------|-----|-------|-----|-------|--|--|
| ROAD        |     | EB      |     | WB    |     | NB    | SB  |       |  |  |
|             | LOS | Delay   | LOS | Delay | LOS | Delay | LOS | Delay |  |  |
| Existing    | Α   | 2.9     | Α   | 0.2   | С   | 15.6  | С   | 21.5  |  |  |
| Design Year |     |         |     |       |     |       |     |       |  |  |
| Existing    | Α   | 3.2     | Α   | 0.3   | С   | 22.1  | F   | 56.2  |  |  |
| Design Year |     |         |     |       |     |       |     |       |  |  |
| Proposed    | Α   | 6.0     | Α   | 7.9   | Α   | 4.8   | Α   | 6.1   |  |  |

|             |     | PM Peak |      |       |     |       |     |       |  |  |
|-------------|-----|---------|------|-------|-----|-------|-----|-------|--|--|
| ROAD        |     | EB      | 3 WB |       | NB  |       | SB  |       |  |  |
|             | LOS | Delay   | LOS  | Delay | LOS | Delay | LOS | Delay |  |  |
| Existing    | Α   | 1.1     | Α    | 0.9   | В   | 14.2  | В   | 14.9  |  |  |
| Design Year |     |         |      |       |     |       |     |       |  |  |
| Existing    | Α   | 1.2     | Α    | 1.0   | С   | 17.7  | С   | 21.7  |  |  |
| Design Year |     |         |      |       |     |       |     |       |  |  |
| Proposed    | Α   | 5.5     | Α    | 6.2   | Α   | 4.5   | Α   | 5.2   |  |  |

For more information on the capacity analysis, see attached reports.

1% Growth Rate Assumed CORRECT TO SHOW APPROACH MOVEMENT

Please note, the crash data below in Table 6 within the narrative of the Engineering Assessment Report is incorrect. Accurate ICF, ICC, and crash history data can be found in Appendix I, pages 21 and 23 of this CE document.

## **Crash Information**

**Table 6: Crash History** 

| ICC                      | 2.79 | Number of Crashes                          | 16 |
|--------------------------|------|--|----|
| ICF                      | 2.07 | Number of Fatal and Incapacitating Crashes | 8  |
| First Year of Crash Data | 2016 | Number of Non-Incapacitation Crashes       | 4  |
| Last Year of Crash Data  | 2018 | Number of Property Damage Only Crashes     | 4  |

Crash data from 2016 to 2018 was analyzed at this intersection. During this time period, there were sixteen crashes, of which, nine were right angle crashes, two left turn crashes, one right turn crash, one opposite direction side swipe crash, one ran off the road crash, one head-on crash, and one other crash. Twelve of these crashes resulted in injury, and of those eight were incapacitating, and four were non-incapacitating. The remaining four crashes resulted in property damage only. The intersection was analyzed via RoadHAT 3, to determine crash statistics such as frequency and severity. This intersection displayed an ICC, or Index of Crash Cost, value of 2.79. This means that the cost of



crashes (severity) at this intersection is extremely high. The intersection also has an ICF, or Index of Crash Frequency, value of 2.07. This indicates that the frequency of crashes at this intersection is also extremely high.

The RoadHAT output, crash statistics summary and a crash diagram have been included in the attachments to this report.

# **Design Considerations**

Deer Creek is located 0.06 miles to the west of the intersection and 0.25 miles south of the intersection. The majority of the parcels south of the intersection are agricultural, while parcels north of the intersection are mostly residential, and Shenandoah Schools are located to the north east of the intersection. If possible, the design should shift the roundabout to the south, then to the east of the existing intersection to avoid and account for these obstacles.

**Table 7: Other Design Considerations** 

| <b>Land Survey Location</b> | Section 20 T 18 R 9               |
|-----------------------------|-----------------------------------|
| Civil Township              | Henry                             |
| Federal Aid System          | Classifies as a Rural On in the   |
|                             | Federal Aid System                |
| National Truck Network      | No                                |
| Urban Area Boundary         | Rural                             |
| Adjacent Land Use           | Mostly Agricultural, School NE of |
|                             | intersection                      |

## Community/External Stakeholder Context

There are very few nearby roundabouts relative to this location, so the community may be opposed to the change due to unfamiliarity. However, the community should be in favor of it as a safety improvement, especially with Shenandoah Middle and High Schools within close proximity to this intersection. In fact, the Shenandoah Middle School Principal submitted the initial request for consideration of a roundabout at this intersection. Therefore, it can be assumed that the school district will be in favor of the proposed alternative. The Shenandoah school officials should be involved in the stakeholder meetings for this intersection.

#### Adjacent INDOT Projects

There is a proposed bridge replacement for the structure over Deer Creek, approximately 0.06 miles west of this intersection. This project is currently being submitted for the 2025 Call for Projects. If both projects are funded, significant coordination will need to be completed to ensure both projects can be adequately delivered.



## **Analysis and Alternatives**

## **Description of Alternatives**

Alternative 1, Single Lane Roundabout – Convert the intersection from a two-way stop to a single lane roundabout. This maintains LOS of A through the design year of 2045. This roundabout will likely have to be located southeast of the existing intersection, as a bridge over Deer Creek to the west and a culvert to the south restrict impacts in those directions. Additionally, properties and a high school to the north and northeast, respectively, would require significant property acquisition. The roundabout is expected to have a standard inscribed diameter and entry angles for the higher speeds along US 36. The roundabout should accommodate heavy bus traffic from the nearby school. It is estimated that the change to a roundabout would reduce crashes by at least 49%, all but eliminating right angle and left turn crashes at the intersection. This alternative will meet the purpose and need of this project.

Estimated cost for the installation of a single lane roundabout at this location is \$1,431,000.

Alternative 2, Traffic Signal – Installation of a traffic signal at the intersection. This intersection already has four existing steel strain utility poles for the existing flashers, and the reuse of those utilities would be cost efficient. However, dedicated left turn lanes must be added on all approaches. The volumes at this intersection do not meet any of the traffic signal warrants from the MUTCD of capacity. The installation of an unwarranted signal may lead to an increase in crashes and poor overall operation at the intersection. This alternative would theoretically reduce total crashes by 44%. However, this would also come with an increase in rear end crashes, and the predominant pattern of left turn crashes would still occur. Lastly, the cost difference between alternatives is minimal and a roundabout is superior for safety. This means that this alternative does not adequately meet the purpose and need.

Estimated cost for the additional turn lanes and traffic signal is \$1,308,000.

Alternative 3 – No Build. The No build option was considered for this project. However, there are long term capacity issues with the existing traffic control, and the existing safety problems will persist if no action is taken. The severe right angle and left turn crashes will not be addressed with the no build option. Therefore, this alternative does not meet the purpose and need for this project.



#### Cost Estimates

**Table 8: Cost Estimate Summary** 

| Alternative    | Funding Category | <b>Estimated Cost</b> |
|----------------|------------------|-----------------------|
|                | CN               | \$1,126,000           |
|                | PE               | \$275,000             |
| Alternative 1: | Utility          | \$0                   |
| Roundabout     | RoW              | \$30,000              |
|                | Total Cost       | \$1,431,000           |
|                |                  |                       |
|                | CN               | \$1,078,000           |
|                | PE               | \$200,000             |
| Alternative 2: | Utility          | \$0                   |
| Traffic Signal | RoW              | \$30,000              |
|                | Total Cost       | \$1,308,000           |
|                |                  |                       |
|                | CN               | \$0                   |
|                | PE               | \$0                   |
| Alternative 3  | Utility          | \$0                   |
| No Build       | RoW              | \$0                   |
|                | Total Cost       | \$0                   |

Complete and detailed cost estimates for all considered alternatives are included in the attachments of this report.

## Preliminary Maintenance of Traffic Plan (MOT)

This project is not considered a mobility significant project based on the classification of the facility, AADT and additional factors. Given the proximity of Shenandoah Schools, this project should be completed while school is not in session. Therefore, this project should utilize a full closure of US 36. This will reduce the number of days required to complete construction. An official detour will be required and will likely consist of SR 38 and SR 3. There are several local routes that will likely see significant diversion during the detour due to the length of the official detour.

The above information is preliminary and conceptual in nature. The designer of record for this project shall be responsible for the determination of MOT scheme and the full design of that scheme. The above information can be used to inform the decision making of the designer but it does not absolve him of the responsibility of the design.

The provisions of the Indiana Manual on Uniform Traffic Control Devices, the Indiana Design Manual and the INDOT Standard Drawings concerning the design of an MOT zone shall be adhered



to. A detailed design showing the MOT layout should be included in the final set of plans. The provisions of the Interstate Highway Congestion Policy shall be followed.

## Pavement and Roadway Design

Standard single lane roundabout design features should be assumed and incorporated into this project. However, given the proximity of Shenandoah Schools, the circulating roadway width should ensure that bus traffic could easily navigate the intersection without issue.

## Right-of-Way and Survey

Based on the proposed layout, the Right-of Way Office estimates that there will be small acquisitions required for all for corners of this intersection. The southern parcels may require additional acquisition if the footprint must be shifted further than expected during design. The estimated cost for this acquisition is \$30,000.

**Table 9: Right Of Way Summary** 

| Land Use | Parcel No. | R/W Required | Cost     |
|----------|------------|--------------|----------|
|          |            | Acquisition  | \$30,000 |
|          |            | Engineering  | \$20,000 |
|          |            |              |          |
|          |            | Total        | \$50,000 |

#### Utilities and Railroads

Impacts to utilities and railroad are expected to be minimal. Depending on the final footprint of the roundabout, the utility line that runs along the south side of US 36 may need to be relocated. The utilities are not expected to be reimbursable.

## **Hydraulic Recommendations**

Minor drainage ditch modification may be necessary for this intersection. It should be noted that the bridge over Deer Creek, approximately 0.06 miles west of this intersection is being submitted to the 2025 Call for Projects. Coordination between these two projects will be critical to the successful completion of both projects.

### **Environmental and Historic Considerations**

It is anticipated that this project will require either a Categorical Exclusion(CE) level 1 or 2 depending on the right of way needs of this project(½ acre threshold). Environmental will need to be done 1 year in advance of letting to allow for right of way acquisition, and will take 9-12 months to complete.



If the project extends west to the bridge over Deer Creek located 0.06 miles west of the intersection, a Construction in Floodway(CIF) permit will be needed, and that takes an additional 9-12 months after the Categorical Exclusion is done. This should be avoided if possible.

This project will likely require an environmental document level CE2.

#### Design Criteria

The design of this project shall adhere to 3R Project, Non-Freeways Rural Collector standards per the Indiana Design Manual.

SEE IDM 40-06.01 FOR MORE INFORMATION.

# **Recommended Alternative**

WHICH IS THE PREFERRED ALTERNATIVE AND WHY. INCLUDE COST AND SCORE. The preferred alternative is Alternative 1, the single lane roundabout. While this alternative is not the most cost effective, it provides the most benefit to both safety and operations at this intersection. This is the only alternative that addresses both the purpose and need for this project in all regards. While this may cost more than just installing a traffic signal at the intersection, it would reduce critical crash rates by at least 49%, eliminating left turn and right angle crashes almost entirely. Additionally, the roundabout option presents the best case for long-term capacity sustainability, as well as improving side street traffic conditions. A roundabout maintains LOS A well through the design year of 2045, and costs \$1,431,000

## **Changes to Proposal**

Contact the Greenfield District Traffic Engineer if deviation from this document is determined to be necessary during a later phase of project development, including but not limited to scope of work or letting changes. Any desired changes should include justification for the change and the estimated cost.



# **Concurrence and Approval**

This document was prepared by:

NAME Nathan Sturdevant
TITLE Traffic Investigations Engineer
DATE 12/5/2019

This document was approved by:

NAME Luis Laracuente TITLE District Traffic Engineer DATE 12/5/2019

Traffic Forecast and Volumes

# **INDIANA DEPARTMENT OF TRANSPORTATION**



September 30, 2019 11:30 am

# PROJECT TRAFFIC FORECAST REPORT

**DES No.:** P190007

US-36 US 36 at Raider Rd in Henry County

From RP 99+85 to RP 100+5 Henry County

# **Prepared For**

**Nathaniel Sturdevant** 

# On

07/01/2019

# Ву

INDOT, Office of Traffic Statistics
Technical Planning Support & Programming Division
Gregory A. Katter, PE, Supervisor
100 N. Senate Ave, N955
Indianapolis, Indiana 46204
INDOTTrafficForecasts@indot.IN.gov





September 30, 2019 11:30 am

# PROJECT TRAFFIC FORECAST REPORT

# **Table of Contents**

Project Map

Segment 1 Forecast

Segment 2 Forecast

Segment 3 Forecast

Segment 4 Forecast

# **INDIANA DEPARTMENT OF TRANSPORTATION**

THE TANK OF TRANSPORT

W US Highway 36

September 30, 2019 11:30 am

# PROJECT TRAFFIC FORECAST REPORT

NBI: 11740

1013 ft

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

w.ay 36



September 30, 2019 11:30 am



PROJECT TRAFFIC FORECAST REPORT

# Segment: 1

Segment Name US-36
Route Name US-36
From Measure 100.210
To Measure 100.308

| Forecast Year | Projected Annual Average Daily Traffic | Negative AADT | Positive AADT |
|---------------|--|---------------|---------------|
| 2018          | 4,422                                  | 2,238         | 2,184         |
| 2025          | 4,476                                  | 2,266         | 2,211         |
| 2030          | 4,515                                  | 2,285         | 2,230         |
| 2040          | 4,593                                  | 2,325         | 2,269         |
| 2045          | 4,632                                  | 2,344         | 2,288         |

# Design Hourly Volume (DHV) in Design Year as percentage of AADT

| Year | DHV    |
|------|--------|
| 2045 | 10.95% |

#### **Peak Hour Forecast**

AM Peak Hour 07:15 PM Peak Hour 04:45

# **Commercial Vehicles (FHWA Scheme F Classes 4 - 13)**

15.40% of AADT

17.15% of DHV

#### **Directional Split**

49.39% of AADT Travels in Positive Travel Direction

The per year growth user for this forecast is 0.18% and is applied as a linear growth.

I-17





# **INDIANA DEPARTMENT OF TRANSPORTATION**

September 30, 2019 11:30 am

# PROJECT TRAFFIC FORECAST REPORT

# Segment: 2

Segment Name US-36
Route Name US-36
From Measure 100.120
To Measure 100.206

| Forecast Year | Projected Annual Average Daily Traffic | <b>Negative AADT</b> | Positive AADT |
|---------------|--|----------------------|---------------|
| 2018          | 4,202                                  | 2,051                | 2,151         |
| 2025          | 4,360                                  | 2,128                | 2,232         |
| 2030          | 4,473                                  | 2,183                | 2,290         |
| 2040          | 4,698                                  | 2,293                | 2,405         |
| 2045          | 4.811                                  | 2,348                | 2,463         |

# Design Hourly Volume (DHV) in Design Year as percentage of AADT

| Year | DHV    |
|------|--------|
| 2045 | 10.78% |

#### **Peak Hour Forecast**

AM Peak Hour 07:00 PM Peak Hour 04:30

## Commercial Vehicles (FHWA Scheme F Classes 4 - 13)

15.83% of AADT

15.45% of DHV

#### **Directional Split**

51.19% of AADT Travels in Positive Travel Direction

The per year growth user for this forecast is 0.54% and is applied as a linear growth.





# **INDIANA DEPARTMENT OF TRANSPORTATION**

September 30, 2019 11:30 am

# PROJECT TRAFFIC FORECAST REPORT

# Segment: 3

Segment Name RAIDER RD
Route Name RAIDER RD

From Measure 3.070 To Measure 3.190

| Forecast Year | Projected Annual Average Daily Traffic | Negative AADT | Positive AADT |
|---------------|--|---------------|---------------|
| 2017          | 1,894                                  | 1,058         | 836           |
| 2025          | 1,909                                  | 1,066         | 843           |
| 2030          | 1,919                                  | 1,072         | 847           |
| 2040          | 1,938                                  | 1,082         | 855           |
| 2045          | 1,947                                  | 1,088         | 859           |

## Design Hourly Volume (DHV) in Design Year as percentage of AADT

| Year | DHV    |
|------|--------|
| 2045 | 10.98% |

#### **Peak Hour Forecast**

AM Peak Hour 07:15 PM Peak Hour 04:30

## Commercial Vehicles (FHWA Scheme F Classes 4 - 13)

20.17% of AADT

23.56% of DHV

#### **Directional Split**

44.14% of AADT Travels in Positive Travel Direction

The per year growth user for this forecast is 0.10% and is applied as a linear growth.





# **INDIANA DEPARTMENT OF TRANSPORTATION**

September 30, 2019 11:30 am

# PROJECT TRAFFIC FORECAST REPORT

# Segment: 4

Segment Name RAIDER RD
Route Name RAIDER RD

From Measure 2.890
To Measure 3.066

| Forecast Year | Projected Annual Average Daily Traffic | Negative AADT | Positive AADT |
|---------------|--|---------------|---------------|
| 2017          | 589                                    | 310           | 279           |
| 2025          | 589                                    | 310           | 279           |
| 2030          | 589                                    | 310           | 279           |
| 2040          | 589                                    | 310           | 279           |
| 2045          | 589                                    | 310           | 279           |

# Design Hourly Volume (DHV) in Design Year as percentage of AADT

| Year | DHV    |
|------|--------|
| 2045 | 11.21% |

#### **Peak Hour Forecast**

AM Peak Hour 09:15 PM Peak Hour 05:30

## Commercial Vehicles (FHWA Scheme F Classes 4 - 13)

12.73% of AADT

6.06% of DHV

#### **Directional Split**

47.37% of AADT Travels in Positive Travel Direction

The per year growth user for this forecast is 0.00% and is applied as a linear growth.

2

Crash Information and Diagrams

## US 36 & Raider Rd Study Period: \_\_\_ 2016-2018 Location: 40.004546, -85.528138 **COLLISION DIAGRAM** District: Greenfield County: Henry City/Town: Middletown Analyst: Bonnie Gonzalez Date: 02/20/2019 DES: Number Letting Year: Additional Comments Fatal / Inc Non-Inc PDO Total Year 2016 0 0 2 A school bus with 46 passengers was ICF 1.61 2017 0 5 3 2 one vehicle involved in a crash. 2018 1 2 3 6 ICC 2.40 Total 6 4 3 13 **Object Symbols** Collision Symbols Fixed Object Codes 01 – Bridge or Overpass 02 – Building 03 – Culvert or ditch 04 – Curb Rear End Moving Vehicle A Animal Signalized Intersection Head On Turning Vehicle D Debris in Roadway Sideswipe - Same 05 – Guardrail or Barrier Backing Vehicle # Fixed Object (see table for #) 05 – Guardral or B. 06 – Embankment 07 – Fence 08 – Traffic Pole 09 – Utility Pole 10 – Sign 11 – Tree / Shrub Stop Sign Sideswipe - Opposite Sliding Vehicle Incapacitating/Fatal Right Angle Parked Vehicle Pedestrian Non-Incapacitating Right Turn 12 – Construction Barrier 13 – Crash Attenuator Bicycle (#) PDO (If > 1) Left Turn 99 – Unknown

RoadHAT Crash Report

| Index of Crash Frequency                             | and Cost - Form F1 Page 1/2                 |  |
|--|---|--|
| Location   |   |  |
|  |   |  |
| GIS  |   |  |
| Post   |   |  |
| Analyst  |   |  |
| Date   |   |  |
| INPUT  |   |  |
| Road Facility Type                                   | Unsignalized Rural State-State Intersection |  |
| Major Road AADT (veh/day)                            | 4329  |  |
| Minor Road AADT (veh/day)                            | 1894  |  |
| T-intersection Indicator (1 if present, 0 otherwise) | 0   |  |
| First Year with Crash Data (yyyy)                    | 2016  |  |
| Last Year with Crash Data (yyyy)                     | 2018  |  |
| Number of Crashes (crash/period)                     |   |  |
| Fatal and Incapacitating Injury Crashes 6            |   |  |
| Non-Incapacitating and Possible Injury Crashes       | acitating and Possible Injury Crashes 4     |  |
| Property Damage Only Crashes                         | 3   |  |
| Route or Road Type                                   | Unsignalized Rural State-State Intersection |  |
| Average Crash Costs (\$)                             |   |  |
| Fatal and Incapacitating Injury Crashes 525500       |   |  |
| Non-Incapacitating and Possible Injury Crashes 3310  |   |  |
| Property Damage Only Crashes 5600                    |   |  |
| Crash Cost Year (yyyy) 201                           |   |  |
| ОИТРИТ   |   |  |
| Expected Crash Frequency (crash/year)                |   |  |
| Fatal and Incapacitating Injury Crashes 0.063        |   |  |
| Non-Incapacitating and Possible Injury Crashes 0.33  |   |  |
| Property Damage Only Crashes 1.17                    |   |  |
| All Crashes  | 1.57  |  |
| ndex of Crash Frequency 1.61                         |   |  |
| Index of Crash Cost                                  | 2.40  |  |

| Index of Crash Frequency and Cost - Form F1 Page 2/2 |  |  |  |  |  |
|--|--|--|--|--|--|
| Location   |  |  |  |  |  |
|  |  |  |  |  |  |
| GIS  |  |  |  |  |  |
| Post   |  |  |  |  |  |

**CMF** Information

| Category                 | Countermeasure  | Area<br>Type            | Facility type  | Crash Type     | CRF   | CMF   | States and (reference number)          |
|--------------------------|---|-------------------------|--|----------------|-------|-------|--|
|                          | Add a left-turn lane on   | Urban                   | Three-leg intersections                                    | Total          | 7.0   | 0.930 |  |
| Intersection             | one major approach to a   | Olban                   | Four-leg intersections                                     | Total          | 10.0  | 0.900 | IA, IL, LA, MN, NE, NC,                |
| geometry                 | signalized intersection   | Rural                   | Three-leg intersections                                    | Total          | 15.0  | 0.850 | OR, VA (18)                            |
|                          | signanzed intersection  | Kurai                   | Four-leg intersections                                     | Total          | 18.0  | 0.820 |  |
|                          | Add a left-turn lane on   | Urban                   | Three-leg intersections                                    | Total          | 33.0  | 0.670 |  |
| Intersection             |   | Orban                   | Four-leg intersections                                     | Total          | 27.0  | 0.730 | IA, IL, LA, MN, NE, NC,                |
| geometry                 | one major approach to an unsignalized intersection                          | Rural                   | Three-leg intersections                                    | Total          | 44.0  | 0.560 | OR, VA (18)                            |
|                          | unsignanzed intersection  | Kurai                   | Four-leg intersections                                     | Total          | 28.0  | 0.720 |  |
| Intersection geometry    | Add a right-turn lane on one major approach to a signalized intersection    | Urban                   | Four-leg intersections                                     | Total          | 4.0   | 0.960 | IA, IL, LA, MN, NE, NC,<br>OR, VA (18) |
| Intersection geometry    | Add a right-turn lane on one major approach to an unsignalized intersection | Rural                   | Four-leg intersections                                     | Total          | 14.0  | 0.860 | IA, IL, LA, MN, NE, NC,<br>OR, VA (18) |
|                          | Convert diamond interchange to diverging diamond interchange (DDI)          |                         |  | Total          | 33    | 0.67  |  |
|                          |   |                         | Principal arterial,<br>other freeways and<br>expressways   | Injury         | 41    | 0.59  |  |
| Intersection             |   | Urban                   |  | Angle          | 67    | 0.33  | KY, MO, NY, TN (20)                    |
| geometry                 |   |                         |  | Rear-end       | 36    | 0.64  | K1, MO, N1, 1N (20)                    |
|                          |   |                         |  | Sideswipe      | -27   | 1.27  |  |
|                          |   |                         |  | Single-vehicle | 24    | 0.76  |  |
|                          | Convert intersection on Urban   | Intersections where all | Total  | -9.9           | 1.099 |       |  |
| Intersection<br>geometry | low-speed road to a roundabout  | and<br>rural            | approaches are low-<br>speed (less than 45<br>mph)         | KABC           | 52.7  | 0.473 | WI (31)                                |
|                          | Convert intersection on   | Urban                   | Intersections where at                                     | Total          | 34.1  | 0.659 |  |
| Intersection<br>geometry | high-speed road to a roundabout   | and<br>rural            | least one approach is<br>high-speed (45 mph or<br>greater) | KABC           | 49.4  | 0.506 | WI (31)                                |
| Intersection             | Convert intersection to a   | Urban                   | Intersections with low-                                    | Total          | 36.0  | 0.640 |  |
| geometry                 | single-lane roundabout  | and<br>rural            | and high-speed approaches                                  | KABC           | 18.2  | 0.818 | WI (31)                                |
| Intersection             | Convert intersection to a   | Urban                   | Intersections with low-                                    | Total          | -6.2  | 1.062 |  |
| geometry                 | multilane roundabout  | and<br>rural            | and high-speed<br>approaches                               | KABC           | 63.3  | 0.367 | WI (31)                                |
|                          | Convert two-way stop-   | Urban                   | Intersections on two-                                      | Total          | 27.0  | 0.73  | CA, CO, CT, FL, KS, MD,                |
| Intersection             | controlled intersection to  | Orban                   | or four-lane roads   | KABC           | 58.1  | 0.419 | ME, MI, MO, MS, NV, OR,                |
| geometry                 | a roundabout  | Rural                   | Intersections on two-                                      | Total          | 48.2  | 0.518 | SC, UT, VT, WA WI                      |
|                          | a roundaoout  | Kurai                   | or four-lane roads   | KABC           | 61.2  | 0.388 | (31,33)                                |

Cost Estimate



# US 36 and Raider Rd.

 Study Period: March 2019
 Location: US 36 and Raider Rd.

 District: Greenfield Ounty: Henry Analyst: Mark Muenz Date: 06/10/2019
 City/Town: New Castle DES: NA Letting Year: 2025

|          | Alternative 1 - RA                                | AB          |      |             |             |
|----------|---|-------------|------|-------------|-------------|
| Item No. | Description                                       | Quantity    | Unit | Bid Price   | Extension   |
|          | 1 Excavation Common                               | 1805        | CY   | \$20.00     | \$36,100    |
|          | 2 Pavement  | 4250        | SYS  | \$125.00    | \$531,250   |
|          | 3 Curb, Island Concrete                           | 1200        | SYS  | \$100.00    | \$120,000   |
|          | 4 Curb, Concrete                                  | 4000        | LF   | \$20.00     | \$80,000    |
|          | 5 Lighting  | 1           | LS   | \$65,000.00 | \$65,000    |
|          | 6 Signage   | 1           | LS   | \$10,000.00 | \$10,000    |
|          | 7 Pavement Markings                               | 1           | LS   | \$10,000.00 | \$10,000    |
|          |   |             |      | Subtotal    | \$852,350   |
|          |   |             |      |             |             |
| A        | Maintenance of Traffic (10-20%)                   | 5%          | LS   | \$42,618    | \$42,618    |
| В        | Project Estimate Adjustment, Contingency (10-20%) | 20%         | LS   | \$170,470   | \$170,470   |
| С        | Construction Engineering (2-5%)                   | 2%          | LS   | \$17,047    | \$17,047    |
| D        | Mobilization and Demobilization (5-10%)           | 5%          | LS   | \$42,618    | \$42,618    |
| E        | Preliminary Engineering                           | 1           | LS   | \$275,000   | \$275,000   |
| F        | Utilities (Varies)                                | \$0.00      | LS   | \$0         | \$0         |
| Н        | Right of Way (Varies)                             | \$30,000.00 | LS   | \$30,000    | \$30,000    |
|          |   |             |      | TOTAL       | \$1,431,000 |

Project Scoring Sheets



# TSAM Team Safety Project Scoring Sheet

| DES:                                    |           |                                   | Date:                                 | 1/13/2020   |  |
|---|-----------|-----------------------------------|---------------------------------------|-------------|--|
| Analyst:                                | Mark      | Muenz                             | Total Project Cost (today's dollars): | \$1,431,000 |  |
| District:                               | Gree      | enfield                           | City:                                 | Middletown  |  |
| Route:                                  | US        | S 36                              | County:                               | Henry       |  |
| Location:                               |           | Raider Rd.                        |                                       |             |  |
| Treatment:                              |           | Single Lane Roundabout            |                                       |             |  |
| LAT,LONG:                               | 40.004557 | 40.004557 -85.528174 Final Score: |                                       |             |  |
| Notes and<br>CRF Source<br>Information: |           |                                   |                                       | 91          |  |

| Core Safety Factors                                | Rating (Type Number)          | Score Received | Points Possible | <u>Comments</u>  |
|--|-------------------------------|----------------|-----------------|--|
| #1 Crash Severity (I <sub>cc</sub> -based)         | 2.79                          | 40.00          | 40              | RoadHAT output PDF is required. Enter<br>w/ two decimal places.  |
| #2 Crash Frequency (I <sub>cf</sub> -based)        | 2.07                          | 9.04           | 10              | RoadHAT output PDF is required. Enter<br>w/ two decimal places.  |
| #3 Benefit-Cost Ratio (Imported from Factor 3 Tab) | 14.51                         | 35.00          | 35              | CRF source must be cited above. Enter<br>Data into Factor 3 Tab. |
|  | Core Safety Factors Subtotal: | 84             | 85              | Scores are rounded to the nearest integer.                       |

| Supplemental Factors                        | Rating (Choose From Menu)  | Score Received | Points Possible | <u>Comments</u>   |
|---|--|----------------|-----------------|---|
| #4 Mobility Improvement                     | 2 Points: Neutral Effect on Mobility   | 2              | 5               | See business rules for more information. Must be documented with analysis: inputs and outputs. Design year is 20 years from construction. Growth rate is 1% by default. |
| #5 Public and Other Interests               | 3 Points: A Government Official has<br>Shown Concern With Location<br>(Documented) | 3              | 5               | Documentation from Elected Officials or<br>Public is required.  |
| #6 Route Continuity and Corridor Completion | 2 Points: Neutral Effect on Uniformity   | 2              | 5               | See business rules for more information.  |
| #7 Earmarks & External Contributions        | 0 Points: No Earmarks or External<br>Contributions                                 | 0              | 25              | See business rules for more information. Must be documented. Benefit/Cost Ratio must still be calculated using total project cost.                                      |
|   | Supplemental Factors Subtotal:   | 7              | 15              |   |
|   | Final Score:   | 91             | 100             | Scores greater than 100 will be lowered to 100  |

## **Score Justifications:**

| Factor #4:  | are within acceptable LOS for this facility.  |
|-------------|---|
| Factor #5:  | The customer service requests have come from the principal and vice principal of Shenandoah High School. This location has receved much attention in the past as we |
|             |   |
| Factor #6:  | The proposed roundabout should nort adversely affect the corridor and shouyld provide positive safety benefits.   |
| Factor #7:  | Type justification for selection here with all necessary background information. If points were received in this category, justification is required.               |
| Other Notes | s: Provide other information in this space as needed.   |



| USER   | INPUT                                       |  |  |  |  |
|--|---|--|--|--|--|
| Countermeasure: Sing                           | gle Lane Roundabout                         |  |  |  |  |
| Crashes (Total of 3 years only)                |   |  |  |  |  |
| Location Type                                  | Rural State State Unsignalized Intersection |  |  |  |  |
| Fatal and Incapacitating Injury Crashes        | 8   |  |  |  |  |
| Non-Incapacitating Injury Crashes              | 4   |  |  |  |  |
| PDO Crashes                                    | 4   |  |  |  |  |
|  |   |  |  |  |  |
| Crash Reduction Fac                            | tors (%, By Severity)                       |  |  |  |  |
| CRF <sub>KABC</sub> (Killed and Injury)        | 61  |  |  |  |  |
| CRF <sub>AII</sub>                             |   |  |  |  |  |
| Enter at least one CRF for ei                  | ther KABC or All Severities:                |  |  |  |  |
| Countermeasure 1 CRF <sub>KABC</sub>           | 61  |  |  |  |  |
| Countermeasure 2 CRF <sub>KABC</sub>           |   |  |  |  |  |
| Countermeasure 3 CRF <sub>KABC</sub>           |   |  |  |  |  |
| Only enter CRF for "All Severities"            | if CRF's for KABC were not used:            |  |  |  |  |
| Countermeasure 1 CRF <sub>All Severities</sub> |   |  |  |  |  |
| Countermeasure 2 CRF <sub>All Severities</sub> |   |  |  |  |  |
| Countermeasure 3 CRF <sub>All Severities</sub> |   |  |  |  |  |
| All Severices                                  |   |  |  |  |  |
| Project In                                     | formation                                   |  |  |  |  |
| Current Year                                   | 2018  |  |  |  |  |
| Project Build Year                             | 2024  |  |  |  |  |
| Inflation Rate (%, Do Not Change)              | 2   |  |  |  |  |
| Project Life (Years, Default Value is 20)      | 20  |  |  |  |  |
| Traffic Growth (%, Default Value is 1.0)       | 1   |  |  |  |  |
| Yearly Upkeep Costs (Today's Dollars)          | \$1,000                                     |  |  |  |  |
| Total Project Cost (Today's Dollars)           | \$1,431,000                                 |  |  |  |  |

## RESULTS

Initial Annual Crash Costs \$2,015,499

Initial Annual Crash Costs Reduction \$1,223,136

Total Lifetime Crash Costs Reduction \$26,912,247

> Build Year Project Cost \$1,611,538

Benefit Cost Ratio 16.70

# NOTES

Crash totals by severity should be entered for the most recent consecutive three calendar year time period. No crash data for years prior to 2015 should be used.

Notes on CRF usage should be included on the first page of the worksheet. At least one CRF should be entered for either KABC crashes or all Crashes. If more than one countermeasure is being installed, enter additional CRF values as needed. Most projects will only enter one CRF value. Negative CRF's are permitted.

Traffic growth percent should be based on the TCDS data or on a projection from central office. Do not use a traffic growth factor greater than 1.0% without documentation. Do not enter a traffic growth factor of less than 0.1%.

Upkeep should include Pavement Marking Maintenance, Utility Payments, Amortized Refurbishments, and any other new yearly costs that will now be required. The default yearly upkeep cost is \$1000. Total Project Cost is imported from the first sheet.

Alternative Sketch



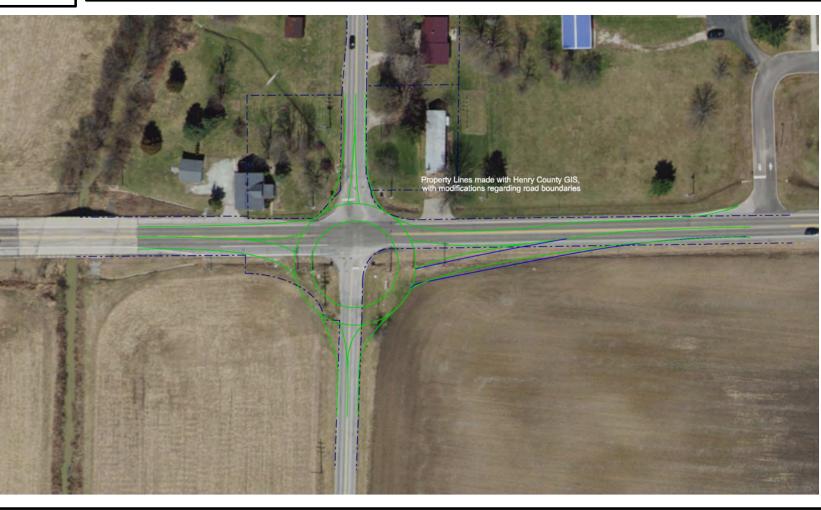
Drawing of Potential Roundabout

# US 36 @ Raider Rd

Study Period: 2019
District: Greenfield County: Henry
Analyst: Nathan Sturdevan Date: 6/13/2019

Location: 40.004548, -85.528169

City/Town: Middletown
DES: TBD Lettin Letting Year: 2025



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

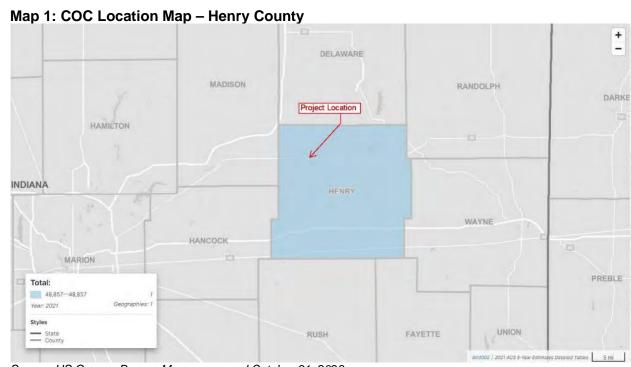
| ProjectNumber | SubProjectCode | County | Property               |
|---------------|----------------|--------|------------------------|
| 180029        | 4 1800294      | Henry  | Sunset Park            |
| 180039        | 3 1800393      | Henry  | Dietrich Memorial Park |

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

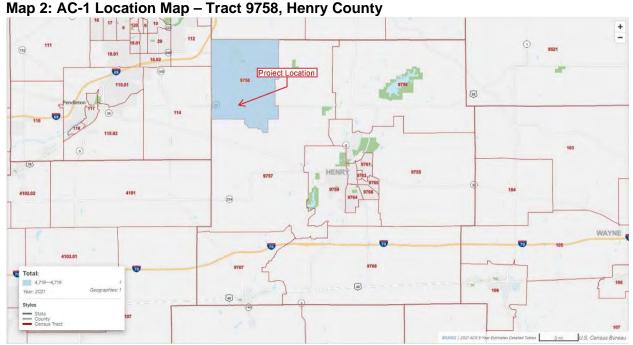
Table: ACSDT5Y2021.B03002

|                                 | Henry County,<br>Indiana | Census Tract 9758,<br>Henry County,<br>Indiana |
|---------------------------------|--------------------------|--|
| Label                           | Estimate                 | Estimate                                       |
| Total:                          | 48,857                   | 4,719  |
| Not Hispanic or Latino:         | 47,879                   | 4,610  |
| White alone                     | 45,435                   | 4,467  |
| Black or African American alone | 1,156                    | 3  |
| American Indian and Alaska      |                          |  |
| Native alone                    | 69                       | 0  |
| Asian alone                     | 154                      | 38   |
| Native Hawaiian and Other       |                          |  |
| Pacific Islander alone          | 0                        | 0  |
| Some other race alone           | 74                       | 6  |
| Two or more races:              | 991                      | 96   |
| Two races including Some        |                          |  |
| other race                      | 117                      | 17   |
| Two races excluding Some        |                          |  |
| other race, and three or more   |                          |  |
| races                           | 874                      | 79   |
| Hispanic or Latino:             | 978                      | 109  |
| White alone                     | 471                      | 22   |
| Black or African American alone | 42                       | 0  |
| American Indian and Alaska      |                          |  |
| Native alone                    | 46                       | 0  |
| Asian alone                     | 0                        | 0  |
| Native Hawaiian and Other       |                          |  |
| Pacific Islander alone          | 0                        | 0  |
| Some other race alone           | 234                      | 69   |
| Two or more races:              | 185                      | 18   |
| Two races including Some        |                          |  |
| other race                      | 133                      | 9  |
| Two races excluding Some        |                          |  |
| other race, and three or more   |                          |  |
| races                           | 52                       | 9  |

|                                 | Honni County             | Census Tract 9758,       |
|---------------------------------|--------------------------|--------------------------|
|                                 | Henry County,<br>Indiana | Henry County,<br>Indiana |
| Label                           | Estimate                 | Estimate                 |
| Total:                          | 45,410                   | 4,646                    |
| Income in the past 12 months    |                          |                          |
| below poverty level:            | 6,199                    | 352                      |
| Male:                           | 2,836                    | 143                      |
| Under 5 years                   | 365                      | 52                       |
| 5 years                         | 19                       | 0                        |
| 6 to 11 years 12 to 14 years    | 356<br>206               | 9                        |
| 15 years                        | 43                       | 0                        |
| 16 and 17 years                 | 86                       | 0                        |
| 18 to 24 years                  | 260                      | 7                        |
| 25 to 34 years                  | 207                      | 14                       |
| 35 to 44 years                  | 440                      | 0                        |
| 45 to 54 years                  | 383                      | 15                       |
| 55 to 64 years                  | 266                      | 14                       |
| 65 to 74 years                  | 125                      | 11                       |
| 75 years and over               | 80                       | 5                        |
| Female:                         | 3,363                    | 209                      |
| Under 5 years                   | 252                      | 20                       |
| 5 years                         | 93                       | 0                        |
| 6 to 11 years                   | 318                      | 4                        |
| 12 to 14 years<br>15 years      | 230<br>114               | 39<br>7                  |
| 16 and 17 years                 | 90                       | 0                        |
| 18 to 24 years                  | 322                      | 10                       |
| 25 to 34 years                  | 483                      | 37                       |
| 35 to 44 years                  | 317                      | 18                       |
| 45 to 54 years                  | 377                      | 15                       |
| 55 to 64 years                  | 324                      | 19                       |
| 65 to 74 years                  | 298                      | 29                       |
| 75 years and over               | 145                      | 11                       |
| Income in the past 12 months at |                          |                          |
| or above poverty level:         | 39,211                   | 4,294                    |
| Male:                           | 19,811                   | 2,244                    |
| Under 5 years                   | 888                      | 92                       |
| 5 years                         | 251<br>1,409             | 17<br>161                |
| 6 to 11 years 12 to 14 years    | 620                      | 53                       |
| 15 years                        | 298                      | 41                       |
| 16 and 17 years                 | 556                      | 67                       |
| 18 to 24 years                  | 1,801                    | 164                      |
| 25 to 34 years                  | 2,708                    | 412                      |
| 35 to 44 years                  | 2,147                    | 232                      |
| 45 to 54 years                  | 2,657                    | 336                      |
| 55 to 64 years                  | 2,847                    | 323                      |
| 65 to 74 years                  | 2,202                    | 204                      |
| 75 years and over               | 1,427                    | 142                      |
| Female:                         | 19,400                   | 2,050                    |
| Under 5 years                   | 911<br>197               | 100                      |
| 5 years<br>6 to 11 years        | 1,274                    | 152                      |
| 12 to 14 years                  | 760                      | 31                       |
| 15 years                        | 245                      | 0                        |
| 16 and 17 years                 | 461                      | 101                      |
| 18 to 24 years                  | 1,242                    | 134                      |
| 25 to 34 years                  | 2,097                    | 290                      |
| 35 to 44 years                  | 2,296                    | 222                      |
| 45 to 54 years                  | 2,609                    | 308                      |
| 55 to 64 years                  | 3,043                    | 306                      |
| 65 to 74 years                  | 2,387                    | 268                      |
| 75 years and over               | 1,878                    | 138                      |



Source: US Census Bureau Maps, accessed October 31, 2023



Source: US Census Bureau Maps, accessed October 31, 2023

|              |   | coc    | AC-1                               |
|--------------|---|--------|------------------------------------|
| Census Table | Table Census Table Line Item  |        | Census Tract 9758,<br>Henry County |
| Low-Income   |   |        |                                    |
| B17001       | Pop, for whom Poverty Status Determined: Total                                  | 45,410 | 4,646                              |
| B17001       | Pop, for whom Poverty Status Determined: Income past 12 mos below poverty level | 6,199  | 352                                |
|              | % Low-Income  | 14     | 8                                  |
|              | 125 % COC   | 17     | 9                                  |
|              | Potential Low-Income EJ Impact?   |        | No                                 |
|              | Fotential Low-income Li impact:   |        | No                                 |
| Minority     |   |        |                                    |
| B03002       | Total Population: Total   | 48,857 | 4,719                              |
| B03002       | Total Population - Not Hispanic or Latino: White Alone                          | 45,435 | 4,467                              |
|              | Number Non-White/Minority   | 3,422  | 252                                |
|              | % Non-White/Minority  | 7      | 5                                  |
|              | 125 % COC   | 9      | 7                                  |
|              | Potential Minority EJ Impact?   |        | No                                 |
|              | Potential Millority Estimpact:  |        | No                                 |