FHWA-Indiana Environmental Document

CATEGORICAL EXCLUSION / ENVIRONMENTAL ASSESSMENT FORM

GENERAL PROJECT INFORMATION

Road No./County:	O'Brien Street, Jackson County
Designation Number(s):	Des. No. 2101694
Project Description/Termini:	Road Rehabilitation between the New Burkart Bypass Southern Roundabout and Village Circle Ave

X	**Categorical Exclusion, Level 2** – Required Signatories: INDOT DE and/or INDOT ESD
	Categorical Exclusion, Level 3 – Required Signatories: INDOT ESD
	Categorical Exclusion, Level 4 – Required Signatories: INDOT ESD and FHWA
	Environmental Assessment (E.A.) – Required Signatories: INDOT ESD and FHWA
	Additional Investigation (A.I.) – The proposed action included a design change from the original approved environmental document. Required Signatories must include the appropriate environmental approval authority

Approval

INDOT DE Signature and Date

INDOT ESD Signature and Date

FHWA Signature and Date

Release for Public Involvement

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INDOT DE Initials and Date

INDOT ESD Initials and Date

Certification of Public Involvement

INDOT Consultant Services Signature and Date

INDOT DE/ESD Reviewer Signature and Date:

Name and Organization of CE/EA Preparer: Shawn Slaymon; GAI Consultants, Inc

Note: Refer to the most current INDOT CE Manual, guidance language, and other ESD resources for further guidance regarding any section of this form.

Part I – Public Involvement

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

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

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

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

Notice of Entry letters were mailed to potentially affected property owners near the project area on January 1, 2024, notifying them about the projects and that individuals responsible for land surveying and field activities may be seen in the area. A sample copy of the Notice of Entry letter is included in Appendix G, page G1.

Project Does Meet

The project will meet the minimum requirements described in the current Indiana Department of Transportation (INDOT) Project Development Public Involvement Procedures Manual, which requires the project sponsor to offer the public an opportunity to submit comments or request a public hearing. Therefore, a legal notice will appear in a local publication contingent upon the release of this document for public involvement. This document will be revised after the public involvement requirements are fulfilled.

Public Controversy on Environmental Grounds

Discuss public controversy concerning community and/or natural resource impacts, including what is being done during the project to minimize impacts.

Currently, there is no substantial public controversy concerning impacts on the community or on natural resources.

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

Sponsor of the Project: City of Seymour INDOT District: Seymour

Local Name of the Facility: O'Brien Street

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

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

PURPOSE AND NEED:

The need should describe the specific transportation problem or deficiency that the project will address. The purpose should describe the goal or objective of the project. The solution to the traffic problem should NOT be discussed in this section.

Need:

The following concerns demonstrate the need for this project:

No sidewalk exists on either side of O'Brien Street for the limits of this project, between CR 340N and Village Circle Avenue. With new sidewalk being installed along O'Brien Street from Village Circle Avenue to 4th Street, this segment will present a gap in the City's pedestrian network.

Curbs exist only in isolated locations and are typically very short due to roadway overlays inhibiting drainage near Freeman Avenue. Very few drainage structures exist, and where they do exist, there is often no evident outfall to a defined system. Most of the corridor features no drainage (open ditch or enclosed), and runoff collects at the side of the road and infiltrates or ponds.

The condition of the pavement was rated as a 6 on the Pavement Surface Evaluation and Rating (PASER) rating scale in 2018 and no improvements have been made since that time. The pavement was constructed in the 1930s and has been milled and overlaid several times. The pavement is considered to be at the end of its service life and maintenance cycle.

Purpose:
This project aims to provide pedestrian connectivity to improve pedestrian mobility to and from residential, commercial, and school facilities located along or near O'Brien Street. The project also aims to improve the roadway condition and drainage and to lengthen its service life.

PROJECT DESCRIPTION (PREFERRED ALTERNATIVE):

County: Jackson County Municipality: City of Seymour

Limits of Proposed Work: On O'Brien St from CR 340 North to Village Circle Avenue in Seymour, Jackson County Indiana

Total Work Length: 0.83 Mile(s) Total Work Area: 4.5 Acre(s)

	Yes[1]	No
Is an Interstate Access Document (IAD)[1] required?		X
If yes, when did the FHWA provide a Determination of Engineering and Operational Acceptability?	Date:	

[1] *If an IAD is required; a copy of the approved CE/EA document must be submitted to the FHWA with a request for final approval of the IAD.*

Describe location of project including township, range, city, county, roads, etc. Existing conditions should include current conditions, current deficiencies, roadway description, surrounding features, etc. Preferred alternative should include the scope of work, anticipated impacts, and how the project will meet the Purpose and Need. Logical termini and independent utility also need discussed.

Location:
This project is located within the City of Seymour from County Road 340 North to Village Circle in Seymour, Jackson County, Indiana. The project is in Jackson County within the Indiana Department of Transportation's (INDOT's) Seymour District. The overall project length is about 4,371 linear feet or 0.83 miles. Specifically, the project is located in Sections 20 & 29 of Township 6 North, Range 6 East, as shown on the Seymour USGS 7.5 Minute Topographic Map.

Existing Conditions:
O'Brien Street is two lanes (one in each direction) with no pedestrian facilities throughout and is classified as an Urban Arterial throughout the project limits. Surrounding features in the project corridor include a residential, agricultural, commercial, and industrial mix. A double-track railroad crossing is located 124 feet south of the north project limit. A second railroad crossing is located 670 feet south of E. Freeman Avenue. A limited amount of curbing exists on O'Brien Street on the northwest quadrant of the intersection with E. Freeman Avenue. No other curbs are present throughout the project area.

Preferred Alternative:
This alternative consists of a full-depth reconstruction of pavement, curb and gutter on each side, and a sidewalk on the west side of the roadway. The sidewalk along the west side from Burkart Bypass Southern Roundabout to South Park Drive will be ten feet wide with a five foot wide buffer to the back of the curb. In some locations along the west side from South Park Drive to Village Circle Drive, the sidewalk will transition to a six foot wide sidewalk adjacent to the back of the curb with no buffer. ADA-compliant curb ramps will be constructed on each side of each street crossing, and

sidewalk transitions will be used at each driveway crossing. The northern railroad crossing will have a sidewalk adjacent to the road on the west side only. The railroad flashing warning with a gate arm will be installed west of sidewalk and the gate arm will span across the sidewalk and travel lane. At the southern railroad crossing the asphalt trail is separated from the roadway curb. This crossing is being coordinated with the City and the Freeman Municipal Airport Authority who owns the spur and crossing. It is anticipated the trail will remain separated and existing railroad warning signs and markings will be re-installed. If a crossing gate is installed it will be installed between the road and the trail and will not span across the pedestrian path. The drainage for the proposed roadway section will consist of a curb and gutter on each side throughout the project limits, regardless of sidewalk placement. Therefore, the roadway will be drained by either curb inlets or an enclosed drainage system that connects to the existing storm sewer.

Logical Termini/Independent Utility:
This project demonstrates independent utility as it is a stand-alone project that is not dependent on any other planned projects. Due to the scope of work, disruptions to traffic may be necessary as the project will involve a road closure with a detour using local routes. Please refer to this document's Maintenance of Traffic (MOT) section for more details.

Based on the above-noted information, the preferred alternative will meet the purpose and need of the project by replacing the existing pavement and adding new pedestrian and drainage facilities.

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.

The No Build:
The "No Build" alternative was considered for the proposed project. This alternative proposed utilization of the existing roadway with no expenditure of capital funds or improvement. However, the "No Build" alternative would not address these projects' purpose, which is to address the existing safety issues, improve drainage throughout the segments, and provide safe pedestrian movements to and from residential, commercial, and school facilities.

Alternative:
Full Reconstruction with no sidewalks
This alternative consists of a full-depth reconstruction of pavement, additional curb and gutter on each side with no sidewalks. This alternative would reduce total cost due to limiting ROW and materials. This alternative would, however, still incur some pedestrian safety issues and introduce more pedestrian-to-traffic interactions.

Alternative:
Full Reconstruction with sidewalks on both sides
This alternative consists of a full-depth reconstruction of pavement, new curb & gutter on each side and sidewalks on each side, separated by a five foot grass buffer. This alternative would satisfy the purpose and need however would require additional impacts and construction cost. This alternate would cost approximately $400,000 more than the preferred alternative.

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;	X
It would not correct the existing roadway geometric deficiencies;	
It would not correct existing deteriorated conditions and maintenance problems; or	X
It would result in serious impacts to the motoring public and general welfare of the economy.	
Other (Describe):	

ROADWAY CHARACTER:

If the proposed action includes multiple roadways, complete and duplicate for each roadway.

Name of Roadway: O'Brien Street
Functional Classification: Minor Arterial
Current ADT: 6,176 VPD (2018) Design Year ADT: 6791 VPD (2045)
Design Hour Volume (DHV): 622 Truck Percentage (%): 2.6%
Designed Speed (mph): 30 mph Legal Speed (mph): 30 mph

	Existing		Proposed	
Number of Lanes:	2		2	
Type of Lanes:	Through		Through	
Pavement Width:	11	ft.	11	ft.
Shoulder Width:	N/A	ft.	N/A	ft.
Median Width:	0	ft.	0	ft.
Sidewalk Width:	0	ft.	10	ft.

Setting:		Urban	X	Suburban		Rural
Topography:	X	Level		Rolling		Hilly

BRIDGES AND/OR SMALL STRUCTURE(S):

If the proposed action includes multiple structures, complete and duplicate for each bridge and/or small structure. Include both existing and proposed bridge(s) and/or small structure(s) in this section.

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

	Existing		Proposed	
Bridge/Structure Type:	N/A		N/A	
Number of Spans:	N/A		N/A	
Weight Restrictions:	N/A	ton	N/A	ton
Height Restrictions:	N/A	ft.	N/A	ft.
Curb to Curb Width:	N/A	ft.	N/A	ft.
Outside to Outside Width:	N/A	ft.	N/A	ft.
Shoulder Width:	N/A	ft.	N/A	ft.

Describe impacts and work involving bridge(s), culvert(s), pipe(s), and small structure(s). Provide details for small structure(s): structure number, type, size (length and dia.), location and impacts to water. Use a table if the number of small structures becomes large. If the table exceeds a complete page, put it in the appendix and summarize the information below with a citation to the table.

Presence:

Seven pipes within the project will be impacted. Storm sewers will be installed to accommodate storm water within the project limits. Reinforced Concrete Pipe (RCP) size will range from 12" to 24" RCP.

EXISTING SMALL STRUCTURES

Ex. Str. No.	Station	Offset	Side	Size	Length	Shape	Type	Notes
1	33+65	NA	Cross	24"	27.7'	Circular	CMP*	enclosed system outfall
2	33+65	28'	Rt	24"	110'	Circular	CMP*	enclosed system pipe
3	45+70	31.6'	Rt	15"	79.3'	Circular	CMP*	driveway culvert
4	55+22	28.2'	Rt	15"	19.9'	Circular	CMP*	driveway culvert

5	59+36	NA	Cross	15"	30.1'	Circular	PVC*	inlet and outfall pipe
6	60+72	NA	Cross	15"	32.3'	Circular	PVC*	inlet and outfall pipe
7	66+00	NA	Cross	24"	35.7'	Circular	CMP*	cross culvert

**Corrugated Metal Pipe (CMP) *Polyvinyl chloride (PVC)*

Str. No. 1: This structure will be maintained but will be extended to the west to outfall outside of the new pedestrian path. This structure outfalls west from an enclosed system from the east. The existing inflow will be unaffected by this project.

Str. No. 2: This structure is the next structure upstream of Str. No. 1. This structure will be maintained, and the existing inflow will be unaffected by this project.

Str. No. 3: This structure will be maintained, and the existing inflow will be reduced as some of the upstream watershed will be caught by the new curb & gutter.

Str. No. 4: This structure will be replaced in-kind with a same size longer pipe to extend under the widened driveway.

Str. No. 5: This inlet will be replaced in kind with a new outfall to the new enclosed storm sewer. The existing outfall pipe will be removed.

Str. No. 6: This inlet will be replaced in kind with a new outfall to the new enclosed storm sewer. The existing outfall pipe will be removed.

Str. No. 7: This culvert will be maintained and will be extended west to clear the new sidewalk. The existing inflow will be reduced as some of the upstream watershed will be caught by the new curb & gutter.

A 24" corrugated plastic pipe is located on the north side of the Louisville & Indiana Railroad Company's double railroad track on the north side that crosses the project area. This pipe is associated with the railroad and will not be impacted by the project.

MAINTENANCE OF TRAFFIC (MOT) DURING CONSTRUCTION:

	Yes	No
Is a temporary bridge proposed?		X
Is a temporary roadway proposed?		X
Will the project involve the use of a detour or require a ramp closure? (describe below)	X	
Provisions will be made for access by local traffic and so posted.	X	
Provisions will be made for through-traffic dependent businesses.	X	
Provisions will be made to accommodate any local special events or festivals.	X	
Will the proposed MOT substantially change the environmental consequences of the action?		X
Is there substantial controversy associated with the proposed method for MOT?		X
Will the project require a sidewalk, curb ramp, and/or bicycle lane closure? (describe below)		X
Provisions will be made for access by pedestrians and/or bicyclist and so posted (describe below).		X

Discuss closures, detours, and/or facilities (if any) that will be provided for maintenance of traffic. Any known impacts from these temporary measures should be quantified to the extent possible, particularly with respect to properties such as Section 4(f) resources and wetlands. Discuss any pedestrian/bicycle closures. Any local concerns about access and traffic flow should be detailed as well.

The preferred method of traffic maintenance is to close O'Brien Street to through traffic in blocked segments. The roadway will be constructed half at a time to allow access to residences and businesses that have no other access besides O'Brien Street. Traffic requiring entry into the work zone to access their residence or a business will be controlled by cones or barrels separating the access lane from the work area.

This project will be constructed with a detour for through traffic during construction. One lane will be maintained at all times to provide access to homes and businesses. Northbound through traffic will be detoured east onto Burkart Boulevard, then west on U.S. 50 and back to O'Brien Street for an added travel distance of 2.2 miles. For all construction south of Freeman Street, southbound through traffic will be detoured west onto Freeman Street, then south on S. Walnut Street, then east on Burkart Boulevard back to O'Brien Street for an added travel distance of 1.7 miles. For all construction at and north of Freeman Street, southbound through traffic will be detoured west onto Laurel Street, then south on S. Walnut Street, then east on Burkart Boulevard back to O'Brien Street for an added travel distance of 2.4 miles.

ESTIMATED PROJECT COST AND SCHEDULE:

Engineering: $ 565,115 (2025) Right-of-Way: $ 456,00.00 (2026) Construction: $ 4,380,000 (2027)

Anticipated Start Date of Construction: April 2027

RIGHT OF WAY:

	Amount (acres)	
Land Use Impacts	Permanent	Temporary
Residential	0.85	0.11
Commercial	1.45	0.20
Agricultural	3.43	0.00
Forest	0.00	0.00
Wetlands	0.04	0.00
Other:		
TOTAL	5.77	0.31

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.

Existing right-of-way (ROW):

Existing ROW includes up to 59 ft to the west and 55 ft to east of the existing centerline along the southern portions of the project near Burkart Boulevard Roundabout intersection. Most of the project has no existing ROW along the west side of the project and ranges from 35 ft to 40 ft along the east side of the centerline. The northern portion has portions of existing right of way extending up to 40 ft to the west and 35 ft to the east. The total existing ROW within the project is 1.79 acres.

Right-of-way required:

The project will require approximately 0.85 acre of permanent ROW to be acquired from residential properties on either side of O'Brien Street. Approximately 0.11 acre of temporary ROW of residential parcels will be acquired in various sections from either side of O'Brien Street. The project will also require approximately 1.45 acres of permanent ROW and 0.20 acre of temporary ROW of commercial parcels. The project will require approximately 3.43 acres of permanent ROW of agricultural parcels. The project requires approximately 5.77 acres total of permanent right-of-way (Appendix B pages B24 to B99). The permanent ROW is for widening and storm sewer/sidewalk installation. The temporary ROW is for driveway reconstruction and grading. No relocations are proposed.

If the scope of work or permanent or temporary right-of-way 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 letters sent to recipients are listed below, Appendix C, pages C1 to C2.

Agency	Date Sent	Response Received	Appendix Page(s)
Federal Highway Administration (FHWA)	1/23/2024	No Response	-
Indiana Department of Environmental Management (IDEM), Groundwater Section	1/23/2024	1/30/2024	C5-C6
U.S. Department of Housing & Urban Development (HUD), Chicago Regional Office	1/23/2024	No Response	-
National Park Service, Midwest Regional Office	1/23/2024	No Response	-
Indiana Geological Survey, Environmental Geology Section	12/9/2024	No Response	C9-C10
Indiana Department of Natural Resources (DNR), Division of Fish and Wildlife	1/23/2024	2/22/2024	C7-C8
IDEM Wetlands and Stormwater Programs	1/23/2024	No Response	-
Natural Resources Conservation Service (NRCS)	1/23/2024	2/10/2024	C12-C13
U.S. Forest Service	1/23/2024	No Response	-
INDOT Aviation Section	1/23/2024	1/23/2024	C11
INDOT Public Hearings	1/23/2024	No Response	-
INDOT Seymour District Environmental & Project Manager	1/23/2024	No Response	-
Jackson County Surveyor	1/23/2024	No Response	-
Jackson County Highway Department	1/23/2024	No Response	-
Jackson County Commissioners	1/23/2024	No Response	-
City of Seymour & Municipal Separate Storm Sewer System (MS4) Coordinator	1/23/2024	No Response	-
Indiana Railroad, CSX	1/23/2024	No Response	-
Indiana Gas Company	1/23/2024	No Response	-
Anacostia, Louisville & Indiana Railroad	1/23/2024	No Response	-

The Red Flag Investigation (RFI) report (Appendix E, pages E1 to E9) recommends coordination with Indiana Gas Co., and CSX RR and Louisville and Indiana RR. Coordination will occur with Indiana Gas Co., CSX RR and Louisville and Indiana RR during the utilities portion of the project.

All applicable recommendations are included in the Environmental Commitments section of this C.E. document.

SECTION B – ECOLOGICAL RESOURCES:

	Presence	Impacts Yes	Impacts No
Streams, Rivers, Watercourses & Other Jurisdictional Features			
Federal Wild and Scenic Rivers			
State Natural, Scenic or Recreational Rivers			

County Jackson Route O'Brien St Des. No. 2101694

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

Total stream(s) in project area: N/A Linear feet Total impacted stream(s): N/A Linear feet

Stream Name	Classification	Total Size in Project Area (linear feet)	Impacted linear feet	Comments (i.e. location, flow direction, likely Water of the U.S., appendix reference)
N/A	N/A	N/A	N/A	N/A

Describe all streams, rivers, watercourses and other jurisdictional features adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if the streams or rivers are listed on any federal or state lists for Indiana. Include if features are likely subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

No presence, no impact

Based on the desktop review, the aerial map of the project area (Appendix B, page B4), and the RFI report (Appendix E, pages E1 to E9) there is one stream, river, watercourse, or other jurisdictional features within the 0.5-mile search radius. There are no streams, rivers, watercourses, or other jurisdictional features within or adjacent to the project area, which was confirmed by the site visit on September 4, 2024, by GAI Consultants (GAI). Therefore, no impacts are expected.

A Waters of the US Determination / Wetland Delineation Report was completed for the project on December 5, 2024. Please refer to Appendix F, page F1 for the Waters of the US Determination / Wetland Delineation Report. It was determined that no streams, rivers, watercourses, or other jurisdictional features exist within or adjacent to the project area.

Open Water Feature(s)	**Presence**	**Impacts** Yes	No
Reservoirs			
Lakes			
Farm Ponds			
Retention/Detention Basin			
Storm Water Management Facilities			
Other:			

Describe all open water feature(s) identified adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if features are likely subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

No presence, no impact

Based on the desktop review, the aerial map of the project area (Appendix B, page B4), and the RFI report (Appendix E, pages E1 to E9) there is no open water feature(s) within the 0.5-mile search radius. There are no open water feature(s) within or adjacent to the project area, which was confirmed by the site visit on September 4, 2024, by GAI. Therefore, no impacts are expected.

A Waters of the US Determination / Wetland Delineation Report was completed for the project on December 5, 2024. Please refer to Appendix F, page F1 for the Waters of the US Determination / Wetland Delineation Report. It was determined that no open water features exist within or adjacent to the project area.

Indiana Department of Transportation

County Jackson Route O'Brien St Des. No. 2101694

	Presence	Impacts Yes	Impacts No
Wetlands	X	X	

Total wetland area: 0.04 Acre(s) Total wetland area impacted: 0.025 Acre(s)

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

Wetland No.	Classification	Total Size (Acres)	Impacted Acres	Comments (i.e. location, likely Water of the U.S., appendix reference)
Wetland A	PEM1A	0.04	0.025	Wetland A exists on the southwest side of O'Brien Street; Likely Waters of the U.S.; (Appendix F)

Wetlands (*Mark all that apply*)	Documentation	ESD Approval Dates
Wetland Determination	X	N/A
Wetland Delineation	X	N/A
USACE Isolated Waters Determination		

Improvements that will not result in any wetland impacts are not practicable because such avoidance would result in (Mark all that apply and explain):

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

Describe all wetlands identified adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if features are likely subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

Presence, with impacts less than one acre

Based on the desktop review, the aerial map of the project area (Appendix B, page B4), and the RFI report (Appendix E, pages E1 to E9) there are no wetlands within the 0.5-mile search radius. There are no wetlands within or adjacent to the project area. That number was updated to one (1) by the site visit on September 4, 2024, by GAI Consultants.

A Waters of the US Determination / Wetland Delineation Report was completed for the project on December 5, 2024. Please refer to Appendix F, page F1 for the Waters of the US Determination / Wetland Delineation Report. It was determined that Wetland A is likely a jurisdictional wetland due to its connectivity to UNT 3 to Luther McDonald Ditch. The USACE makes all final determinations regarding jurisdiction.

Wetland A

Wetland A is a 0.04 acre wetland that is located on the west side of O'Brien Street in the southern portion of the investigated area. DP1 was taken as a delineation point. Wetland A is classified as a PEM1A wetland. Wetland A was likely formed due to is geomorphic position in a slight depressional area and roadway runoff. In the herb stratum, the dominant species was Narrowleaf Cattail (*Typha angustifolia*, OBL) with Tall Goldenrod (*Solidago altissima*, FACU) with broadleaf cattail (*Typha latifolia,* OBL) and White Boneset (*Eupatorium serotinum*, FAC) as other species observed. DP1 did meet the Hydrophytic Vegetation criteria. DP1 did meet the hydric soil criterion. DP1 met at least 1 wetland hydrology indicator. In meeting all three of the USACE wetland criteria, DP1 was determined to be within a wetland. The wetland was delineated to be 0.04 acre in size. Wetland A drains to Roadside Ditch 1 that flows south outside the investigated area and continues along the roadway heading east. Wetland A eventually drains into UNT 3 to Luther McDonald Ditch to the southeast via roadside ditches along O'Brien Street and Burkart Boulevard. This wetland is likely to be considered a Waters of the United States due to its connectivity to UNT 3 to Luther McDonald Ditch.

Impacts are unavoidable due to the grading and placement of the pedestrian pathway. The impacts will total 0.025 acres. An IDEM 401 Water Quality Certification (WQC) and a USACE 404 Nationwide Permit (NWP) are required. Mitigation is not anticipated but will be determined during permitting.

	Presence	Impacts	
		Yes	NO
Terrestrial Habitat	X	X	

Total terrestrial habitat in project area: 3.59 Acre(s) Total tree clearing: 0.019 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.

Presence, with impacts

Based on a desktop review, a site visit on September 4, 2024, by GAI, and the aerial map of the project area (Appendix B, page B4), there is terrestrial habitat associated with agricultural fields, commercial and urban residential areas consisting of mowed grass and agricultural crops. The total amount of terrestrial impacts is 3.59 acres and will include 0.019 acre of tree clearing. The dominant species present include tall fescue (*Festuca arundinacea*), perennial ryegrass (*Lolium perenne),* Maples, *Acer sp.*; The project will remove agricultural crops, grassy areas, and trees, which will be revegetated as available for the project.

IDNR, Division of Fish and Wildlife responded on February 22, 2024, with recommendations to limit tree clearing and mitigate for habitat loss (Appendix C, pages C7 to C8).

All applicable recommendations are included in the Environmental Commitments section of this CE document.

Protected Species

Federally Listed Bats	Yes	No
Information for Planning and Consultation (IPaC) determination key completed	X	
Section 7 informal consultation completed (IPaC cannot be completed)		
Section 7 formal consultation Biological Assessment (B.A.) required		X

Determination Received for Listed Bats from USFWS: NE [ ] NLAA [X] LAA [ ]

Other Species not included in IPaC	Yes	No
Additional federal species found in project area (based on IPaC species list)	X	
State species (not bird) found in project area (based upon consultation with IDNR)		X

Migratory Birds	Yes	No
Known usage or presence of birds (i.e. nests)		X
State bird species based upon coordination with IDNR		X

Discuss IDNR coordination and species identified. Describe USFWS Section 7 consultation and determination received for Indiana bat and northern long-eared bat impacts. Discuss if other federally listed species were identified. If so, include consultation that has occurred and the determination that was received. Discuss if migratory birds have been observed and any impacts.

Based on a desktop review and the RFI report (Appendix E, pages E1 to E9), completed by GAI on January 5, 2024, the IDNR Jackson County Endangered, Threatened and Rare (ETR) Species List has been checked. According to the IDNR-DFW early coordination response letter dated February 22, 2024 (Appendix C, page C7 to C8), the Natural Heritage Program's Database has one animal species listed as state or federally threatened, endangered, or rare have been reported to occur in the project vicinity. The Barn Owl (*Tyto alba*) is listed as being documented within 0.5 mile of the project area. The IDNR-DFW does not anticipate any significant impacts to the Barn Owl due to this project. An

INDOT 0.5 mile bat review occurred on August 30, 2023. The review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area.

Bats, Programmatic Informal Consultation (i.e. IPaC) – Not Likely to Adversely Affect

Project information was submitted through the USFWS's Information for Planning and Consultation (IPaC) portal, and an official species list was generated (Appendix C, page C14 to C27). The project is within range of the federally endangered Indiana bat (*Myotis sodalis*) and the federally threatened northern long-eared bat (NLEB) (*Myotis septentrionalis*). One other species was generated in the IPaC species list other than the Indiana bat and northern long-eared bat.

The project qualifies for the Rangewide Programmatic Informal Consultation for the Indiana bat and northern long-eared bat (NLEB), dated May 2016 (revised February 2018), between FHWA, Federal Railroad Administration (FRA), Federal Transit Administration (FTA), and USFWS. An effect determination key was completed on February 6, 2025, and based on the responses provided, the project was found to "May Affect - Not Likely to Adversely Affect" the Indiana bat and/or the NLEB (Appendix C, pages C28 to C40). Due to consultation via the Project Submittal Form, no concurrence letter was produced. USFWS reviewed and concurred via email with the effect finding on February 12, 2025 (Appendix C, pages C37 to C41).

The official species list generated from IPaC indicated one other species present within the project area. The gray bat (*Myotis grisecens)* was found within the project area. The project was found to have a "No Effect" for the gray bat. USFWS reviewed and concurred via email with the effect finding on February 12, 2025 (Appendix C, page C37).

This precludes the need for further consultation on this project as required under Section 7 of the Endangered Species Act, as amended. If new information on endangered species at the site becomes available, or if project plans are changed, USFWS will be contacted for consultation.

Geological and Mineral Resources	**Yes**	**No**
Project located within the Indiana Karst Region	X	
Karst features identified within or adjacent to the project area		X
Oil/gas or exploration/abandoned wells identified in the project area		X

Date Karst Evaluation reviewed by INDOT EWPO (if applicable): _____

Discuss if project is located in the Indiana Karst Region and if any karst features have been identified in the project area (from RFI). Discuss response received from IGWS coordination. Discuss if any mines, oil/gas, or exploration/abandoned wells were identified and if impacts will occur. Include discussion of karst study/report was completed and results. (Karst investigation must comply with the current Protection of Karst Features during Planning and Construction guidance and coordinated and reviewed by INDOT EWPO)

Inside karst area

Based on a desktop review and the Indiana Karst Region map, the project is located inside the designated Indiana Karst Region as outlined in the most current Protection of Karst Features during Project Development and Construction. According to the topo map of the project area (Appendix B, page B2), and the RFI report (Appendix E, pages E1 to E9), there are no karst features identified within or adjacent to the project area. In the early coordination response on December 9, 2024, the Indiana Geological and Water Survey (IGWS) did not indicate that karst features exist in the project area (Appendix C, pages C9 to C10).

IGWS DID INDICATE the geological hazards of high liquefaction potential; the mineral resources of bedrock and gravel resources; active and abandoned mineral resources and petroleum wells. The features will not be affected because of the limited scope of excavation and the general location of the project. Response from IGWS has been communicated with the designer on December 9, 2024. No impacts are expected.

SECTION C – OTHER RESOURCES

Drinking Water Resources	Presence	Impacts Yes	Impacts No
Wellhead Protection Area(s)	X		X
Source Water Protection Area(s)			
Water Well(s)	X		X
Urbanized Area Boundary	X		X
Public Water System(s)	X		X

	Yes	No
Is the project located in the St. Joseph Sole Source Aquifer (SSA):		X
If Yes, is the FHWA/EPA SSA MOU Applicable?		
If Yes, is a Groundwater Assessment Required?		

Check the appropriate boxes and discuss each topic below. Provide details about impacts and summarize resource-specific coordination responses and any mitigation commitments. Reference responses in the Appendix.

Sole Source Aquifer

Outside of Sole Source Aquifer (SSA):

The project is located in Jackson County, which is not located within the area of the St. Joseph Sole Source Aquifer, the only legally designated sole source aquifer in the state of Indiana Therefore, the FHWA/EPA/INDOT Sole Source Aquifer Memorandum of Understanding (MOU) is not applicable to this project, a detailed groundwater assessment is not needed, and no impacts are expected.

Wellhead Protection Area and Source Water

Located in a Wellhead Protection Area and/or Source Water Area

The Indiana Department of Environmental Management's Wellhead Proximity Determinator website (http://www.in.gov/idem/cleanwater/pages/wellhead/) was accessed on December 9, 2024 by GAI. This project is located within a Wellhead Protection Area, but not in a Source Water Area. In an early coordination letter dated January 30, 2024, IDEM stated the project is located within a Wellhead Protection Area (Appendix C, page C5). Natural Public Supply, Inc. is, the responsible party for the Wellhead Protection Area had no response. The features will not be affected due to upgrading the stormwater drainage system and Best Management Practices to avoid sedimentation, erosion, and contamination will be used.

Water Wells

No wells present, no impacts

The Indiana Department of Natural Resources Water Well Record Database website (https://www.in.gov/dnr/water/3595.htm) was accessed on January 23, 20224 by GAI. No wells are located near this project. Therefore, no impacts are expected.

Urban Area Boundary

In an Urban Area Boundary Location

Based on a desktop review of https://entapps.indot.in.gov/MS4/) by GAI on December 9, 2024, this project is located in an Urban Area Boundary (UAB). An early coordination letter was sent on January 23, 2024, to the City of Seymour MS4 coordinator. The MS4 coordinator did not respond within the 30-day time frame. The project will comply with the stormwater quality management plan through compliance with the IDEM required Construction Stormwater General Permit (CSGP, formerly Rule 5) and INDOT specifications.

Public Water System

In a Public Water System Location:

Based on a desktop review, a site visit on September 4, 2024, by GAI, and the aerial map of the project area (Appendix B, pages B4), this project is located where there is a public water system. The public water system will not be affected because of the limited scope and location of this project. Early coordination letters were sent on January 23, 2024, to

the City of Seymour. All utilities have been coordinated with, have been provided the opportunity to comment on the design plans, and have been made aware of the location of design features in order to determine conflicts to service lines, and mains alike.

Floodplains	**Presence**	**Impacts** Yes	No
Project located within a regulated floodplain			
Longitudinal encroachment			
Transverse encroachment			
Homes located in floodplain within 1000' up/downstream from project			

If applicable, indicate the Floodplain Level?

Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ Level 5 ☐

Use the IDNR Floodway Information Portal to help determine potential impacts. Include floodplain map in appendix. Discuss impacts according to the classification system. If encroachment on a flood plain will occur, coordinate with the Local Flood Plain Administrator during design to insure consistency with the local flood plain planning.

Not in floodplain:

The Indiana Department of Natural Resources Indiana Floodway Information Portal website https://indnr.maps.arcgis.com/apps/webappviewer/index.html?id=05026dabc2e8461983e196d56a213c1e was accessed on August 29, 2024, by GAI. This project is not located in a regulatory floodplain as determined from approved IDNR floodplain maps (Appendix F, page F20). Therefore, it does not fall within the guidelines for the implementation of 23 CFR 650, 23 CFR 771, and 44 CFR. No impacts are expected.

Farmland	**Presence**	**Impacts** Yes	No
Agricultural Lands	X	X	
Prime Farmland (per NRCS)	X	X	

Total Points (from Section VII of CPA-106/AD-1006*) **126**

**If 160 or greater, see CE Manual for guidance.*

Discuss existing farmland resources in the project area, impacts that will occur to farmland, and mitigation and minimization measures considered.

Presence, score under 160

Based on a desktop review, a site visit on September 4, 2024, by GAI, and the aerial map of the project area (Appendix B, page B4), the project will convert 3.43 acres of farmland as defined by the Farmland Protection Policy Act. An early coordination letter was sent on January 23, 2024, to Natural Resources Conservation Service (NRCS). Coordination with NRCS resulted in a score of 126 on the AD 1006 Form (Appendix C, page C13). NRCS's threshold score for significant impacts to farmland that result in the consideration of alternatives is 160. Since this project score is less than the threshold, no significant loss of prime, unique, statewide, or local important farmland will result from this project. No alternatives other than those previously discussed in this document will be investigated without reevaluating impacts to prime farmland.

SECTION D – CULTURAL RESOURCES

	Category(ies) and Type(s)	INDOT Approval Date(s)	N/A
Minor Projects PA	B-1, B-3, B-8	8/8/2025	

Full 106 Effect Finding

No Historic Properties Affected ☐ No Adverse Effect ☐ Adverse Effect ☐

Eligible and/or Listed Resources Present

NRHP Building/Site/District(s) ☐ Archaeology ☐ NRHP Bridge(s) ☐

Documentation Prepared (mark all that apply)		ESD Approval Date(s)	SHPO Approval Date(s)
APE, Eligibility and Effect Determination			
800.11 Documentation			
Historic Properties Report or Short Report			
Archaeological Records Check and Assessment			
Archaeological Phase Ia Survey Report	X	8/8/2025	
Archaeological Phase Ic Survey Report			
Other:			

		MOA Signature Dates (List all signatories)
Memorandum of Agreement (MOA)		

If the project falls under the MPPA, describe the category(ies) that the project falls under and any approval dates. If the project requires full Section 106, use the headings provided. The completion of the Section 106 process requires that a Legal Notice be published in local newspapers. Please indicate the publication date, name of the paper(s), and the comment period deadline. Include any further Section 106 work which must be completed at a later date, such as mitigation from a MOA or avoidance commitments.

Minor Project PA Category B projects:

On August 8, 2025, the INDOT Cultural Resource Office (CRO) determined that this project falls within the guidelines of Category B, Type 1, 3, and 8 under the Minor Projects Programmatic Agreement, (Appendix D, pages D1 to D15). Category B-1 covers the replacement, repair or installation of curbs, curb ramps, or sidewalks, including when such projects are associated with roadway work such as surface replacement, reconstruction, rehabilitation, or resurfacing projects, including overlays, shoulder treatments, pavement repair, seal coating, pavement grinding, and pavement marking. Category B-3 covers the construction of added travel, turning, or auxiliary lanes (e.g., bicycle, truck climbing, acceleration and deceleration lanes) and shoulder widening. Category B-8 covers the construction of pedestrian facilities, including trails, multi-use paths, greenways, and associated minor activities.

A Phase 1a archaeological survey was conducted by ASC Group, on February 6 and 7, 2024 and August 22 and 23, 2024 (Appendix D, pages D16-D20). The archaeological report was reviewed by an INDOT-CRO archaeologist who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61. The CRO concurred with the determination on August 8, 2025. A copy of the report was provided to the DHPA on August 21, 2025. The archaeological survey area for this project encompasses 7.6 acres along O'Brien Street between Burkhart Boulevard South Bypass Roundabout and Village Circle Avenue. The Phase Ia archaeological records check, and reconnaissance survey resulted in the documentation of two new sites: 12J760 and 12J761. The first site, 12J760 is an historic scatter, likely related to a since-demolished structure of indeterminate date. Site 12J761 may represent an older, disturbed, nineteenth-century occupation. None of the sites are fully delineated due to the confines of the survey area and roadway. All sites were discovered in agricultural fields, and have maintained integrity, with no evidence of post-depositional intrusion. No further assessment is recommended for the portions of these sites within the survey area.

No further consultation is required. This completes the Section 106 process and the responsibilities of the FHWA under

Section 106 have been fulfilled.

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

	Presence	Use	
Parks and Other Recreational Land		Yes	No
Publicly owned park			
Publicly owned recreation area			
Other (school, state/national forest, bikeway, etc.)			
Wildlife and Waterfowl Refuges			
National Wildlife Refuge			
National Natural Landmark			
State Wildlife Area			
State Nature Preserve			
Historic Properties			
Site eligible and/or listed on the NRHP			

	Evaluations Prepared
Programmatic Section 4(f)	
"De minimis" Impact	
Individual Section 4(f)	
Any exception included in 23 CFR 774.13	

Discuss Programmatic Section 4(f) and "de minimis" Section 4(f) impacts in the discussion below. Individual Section 4(f) documentation must be included in the appendix and summarized below. Discuss proposed alternatives that satisfy the requirements of Section 4(f). FHWA has identified various exceptions to the requirement for Section 4(f) approval. Refer to 23 CFR § 774.13 - Exceptions.

No presence, no impact

Section 4(f) of the U.S. Department of Transportation Act of 1966 prohibits the use of certain public and historic lands for federally funded transportation facilities unless there is no feasible and prudent alternative. The law applies to significant publicly owned parks, recreation areas, wildlife/waterfowl refuges, and NRHP eligible or listed historic properties regardless of ownership. Lands subject to this law are considered Section 4(f) resources.

Based on a desktop review, the aerial map of the project area (Appendix B, page B4), and the RFI report (Appendix E, page E1-E9) there is one potential 4(f) resource located within the 0.5-mile search radius. According to additional research, https://arcg.is/jqueP, and by the site visit on September 4, 2024, by GAI, there are no Section 4(f) resources within or adjacent to the project area. Therefore, no use is expected.

Section 6(f) Involvement	Presence	Use	
		Yes	No
Section 6(f) Property			

Discuss Section 6(f) resources present or not present. Discuss if any conversion would occur as a result of this project. If conversion will occur, discuss the conversion approval.

No presence or presence, no impact:

The U.S. Land and Water Conservation Fund Act of 1965 established the Land and Water Conservation Fund (LWCF), which was created to preserve, develop, and assure accessibility to outdoor recreation resources. Section 6(f) of this Act prohibits the conversion of lands purchased with LWCF monies to non-recreation use.

A review of 6(f) properties on the INDOT ESD website revealed a total of six properties in Jackson County (Appendix I, page I5). None of these properties are located within or adjacent to the project area. Therefore, there will be no impacts to 6(f) resources.

SECTION F – Air Quality

STIP/TIP and Conformity Status of the Project	Yes	No
Is the project in the most current STIP/TIP?	X	
Is the project located in an MPO Area?		X
Is the project in an air quality non-attainment or maintenance area?		X
If Yes, then:		
Is the project in the most current MPO TIP?		
Is the project exempt from conformity?		
If No, then:		
Is the project in the Transportation Plan (T.P.)?		
Is a hot spot analysis required (CO/PM)?		

Location in STIP: Page 168-169 (2101694)

Name of MPO (if applicable): N.A.

Location in TIP (if applicable): N.A.

Level of MSAT Analysis required?

Level 1a [X] Level 1b [ ] Level 2 [ ] Level 3 [ ] Level 4 [ ] Level 5 [ ]

Describe if the project is listed in the STIP and if it is in a TIP. Describe the attainment status of the county(ies) where the project is located. Indicate whether the project is exempt from a conformity determination. If the project is not exempt, include information about the T.P. and TIP. Describe if a hot spot analysis is required and the MSAT Level.

Standalone Project or Lead DES number

This project is included in the Fiscal Year (FY) 2024-2028 Statewide Transportation Improvement Program (STIP) (Appendix H, page H1).

Attainment Status Attainment area:

This project is located in Jackson County, which is currently in attainment for all criteria pollutants according to (https://www.in.gov/idem/sips/nonattainment-status-of-counties). Therefore, the conformity procedures of 40 CFR Part 93 do not apply.

MSAT Level 1a Analysis:

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 G - NOISE

Noise	Yes	No
Is a noise analysis required in accordance with FHWA regulations and INDOT's traffic noise policy?		X

Date Noise Analysis was approved/technically sufficient by INDOT ESD: _____

Describe if the project is a Type I or Type III project. If it is a Type I project, describe the studies completed to date and if noise impacts were identified. If noise impacts were identified, describe if abatement is feasible and reasonable and include a statement of likelihood.

Type III Project:

This project is a Type III project. In accordance with 23 CFR 772 and the current Indiana Department of Transportation Traffic Noise Analysis Procedure, this action does not require a formal noise analysis.

SECTION H – COMMUNITY IMPACTS

Regional, Community & Neighborhood Factors	Yes	No
Will the proposed action comply with the local/regional development patterns for the area?	X	
Will the proposed action result in substantial impacts to community cohesion?		X
Will the proposed action result in substantial impacts to local tax base or property values?		X
Will construction activities impact community events (festivals, fairs, etc.)?		X
Does the community have an approved transition plan?	X	
If No, are steps being made to advance the community's transition plan?		
Does the project comply with the transition plan? (explain in the discussion below)	X	

Discuss how the project complies with the area's local/regional development patterns; whether the project will impact community cohesion; and impact community events. Discuss how the project conforms with the ADA Transition Plan.

The City of Seymour has an approved transition plan. This project which includes elements to ensure ADA compliant pedestrian facilities exist through the project, conforms with the elements of this transition plan. This project will add a sidewalk and ADA-compliant curb ramp to this residential area. Improving pedestrian and vehicular access will further local and regional; development patterns, sustain or improve cohesion in this neighborhood, and increase access to those residents needing ADA-compliant pathways. This project will have minor and short-term impacts on the localized community that will be alleviated upon the completion of construction. No community events will be impacted by the short-term impacts of this project, as access will remain to all properties throughout this project.

Public Facilities and Services

Discuss what public facilities and services are present in the project area and impacts (such as MOT) that will occur to them. Include how the impacts have been minimized and what coordination has occurred. Some examples of public facilities and services include health facilities, educational facilities, public and private utilities, emergency services, religious institutions, airports, transportation or public pedestrian and bicycle facilities.

No presence, no impact:

Based on a desktop review, the aerial map of the project area (Appendix B, page B4), and the RFI report (Appendix E, pages E1-E9), one public facility within the 0.5-mile search radius exists. There are no public facilities within or adjacent to the project area, as confirmed by GAI's site visit on September 4, 2024. Therefore, no impacts are expected. Access to all properties will be maintained during construction.

It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access.

Environmental Justice (EJ) (Presidential EO 12898)	Yes	No
During the development of the project were EJ issues identified?		X
Does the project require an EJ analysis?	X	
If YES, then:		
Are any EJ populations located within the project area?	X	
Will the project result in adversely high and disproportionate impacts to EJ populations?		X

Indicate if E.J. issues were identified during project development. If an E.J. analysis was not required, discuss why. If an E.J. analysis was required, describe how the E.J. population was identified. Include if the project has a disproportionately high or adverse effect on E.J. populations and explain your reasoning. If yes, describe actions to avoid, minimize and mitigate these effects.

Due to the issuance of recent Executive Orders (EO) from January 2025, including EO 14154, EO 14148, and EO 14173, EO 12898 has been rescinded and this section is no longer applicable.

Relocation of People, Businesses or Farms	**Yes**	**No**
Will the proposed action result in the relocation of people, businesses or farms?		X
Is a BIS or CSRS required?		X

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

Discuss 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:
No relocations of people, businesses, or farms will take place as a result of this project.

SECTION I – HAZARDOUS MATERIALS & REGULATED SUBSTANCES

Hazardous Materials & Regulated Substances (Mark all that apply)	**Documentation**
Red Flag Investigation (RFI)	X
Phase I Environmental Site Assessment (Phase I ESA)	
Phase II Environmental Site Assessment (Phase II ESA)	
Design/Specifications for Remediation required?	

Date RFI concurrence by INDOT SAM (if applicable): 1/5/2024

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.

Presence, no impact:
Based on a review of GIS and available public records, the RFI was completed on January 5, 2024, by GAI and INDOT SAM provided their concurrence on January 5, 2024 (Appendix E, pages E1-E9). Three (3) LUST sites are located within 0.5 mile of the project area. Five National Pollution Discharge Elimination System (NPDES) are located within 0.5 mile of the project area. Three NPDES Pipes are located within 0.5 mile of the project area. None of the hazmat sites identified will impact the project. Further investigation for hazardous material concerns is not required at this time.

Part IV – Permits and Commitments

PERMITS CHECKLIST

Permits (mark all that apply)	**Likely Required**
Army Corps of Engineers (404/Section10 Permit)	
Nationwide Permit (NWP)	X
Regional General Permit (RGP)	
Individual Permit (I.P.)	
Other	
IN Department of Environmental Management (401/Rule 5)	
Nationwide Permit (NWP)	X
Regional General Permit (RGP)	
Individual Permit (I.P.)	
Isolated Wetlands	
Construction Stormwater General Permit (CSGP)	X
Other	

County Jackson Route O'Brien St Des. No. 2101694

Permits (mark all that apply)	**Likely Required**
IN Department of Natural Resources	
Construction in a Floodway	
Navigable Waterway Permit	
Other	
Mitigation Required	
U.S. Coast Guard Section 9 Bridge Permit	
Others (Please discuss in the discussion below)	

List the permits likely required for the project and summarize why the permits are needed, including permits designated as "Other."

An IDEM Section 401 Water Quality Certification and USACE Section 404 NWP permit will be required for necessary impacts to a regulated wetland. A Construction Stormwater General Permit, previously known as Rule 5, will be required.

If any object, obstruction, or equipment will exceed 25 ft in height, further coordination will be required with INDOT Aviation and the FAA to obtain an Indiana Tall Structure Permit. . This is due to the close proximity of Freeman Municipal (Seymour) Airport and the need for any obstructions within 5 miles to meet a 100:1 glideslope to the nearest runway according to 14 CFR Part 77 standards.

Applicable recommendations provided by resource agencies are included in the Environmental Commitments section of this document. If permits are found to be necessary, the conditions of the permit will be requirements of the project and will supersede these recommendations. It is the responsibility of the project sponsor to identify and obtain all required permits.

ENVIRONMENTAL COMMITMENTS

List all commitments and include the name of agency/organization requesting/requiring the commitment(s). Listed commitments should be numbered.

Firm:

1. If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT Seymour District)
2. It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access. (INDOT ESD)
3. Any object, obstruction, or equipment will exceed 25 ft. in height, further coordination will be required with our office and the FAA. This is due to the close proximity of Freeman Municipal (Seymour) Airport and the need for any obstructions within 5 miles to meet a 100:1 glideslope to the nearest runway according to 14 CFR Part 77 standards. (INDOT Aviation)
4. 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 EWPSO)
5. 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).
6. Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season (USFWS).
7. Tree Removal AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal (USFWS).

8. Tree Removal AMM 2: Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/ rail surface and outside of documented roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed (USFWS).
9. 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) (USFWS).

For Further Consideration:

1. Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees) or by using the 1:1 replacement ratio based on area depending on the type of habitat impacted (individual canopy tree removal in an urban streetscape or park-like environment versus removal of habitat supporting a tree canopy, woody understory, and herbaceous layer). Impacts under 0.10 acre in an urban area may still involve the replacement of large diameter trees but typically do not require any additional mitigation or additional plantings beyond seeding and stabilizing disturbed areas. There are exceptions for high quality habitat sites however. (IDNR-DFW)

Table of Appendices

Appendix A

INDOT Supporting Documentation

Item	Appendix Page
Threshold Chart	A1

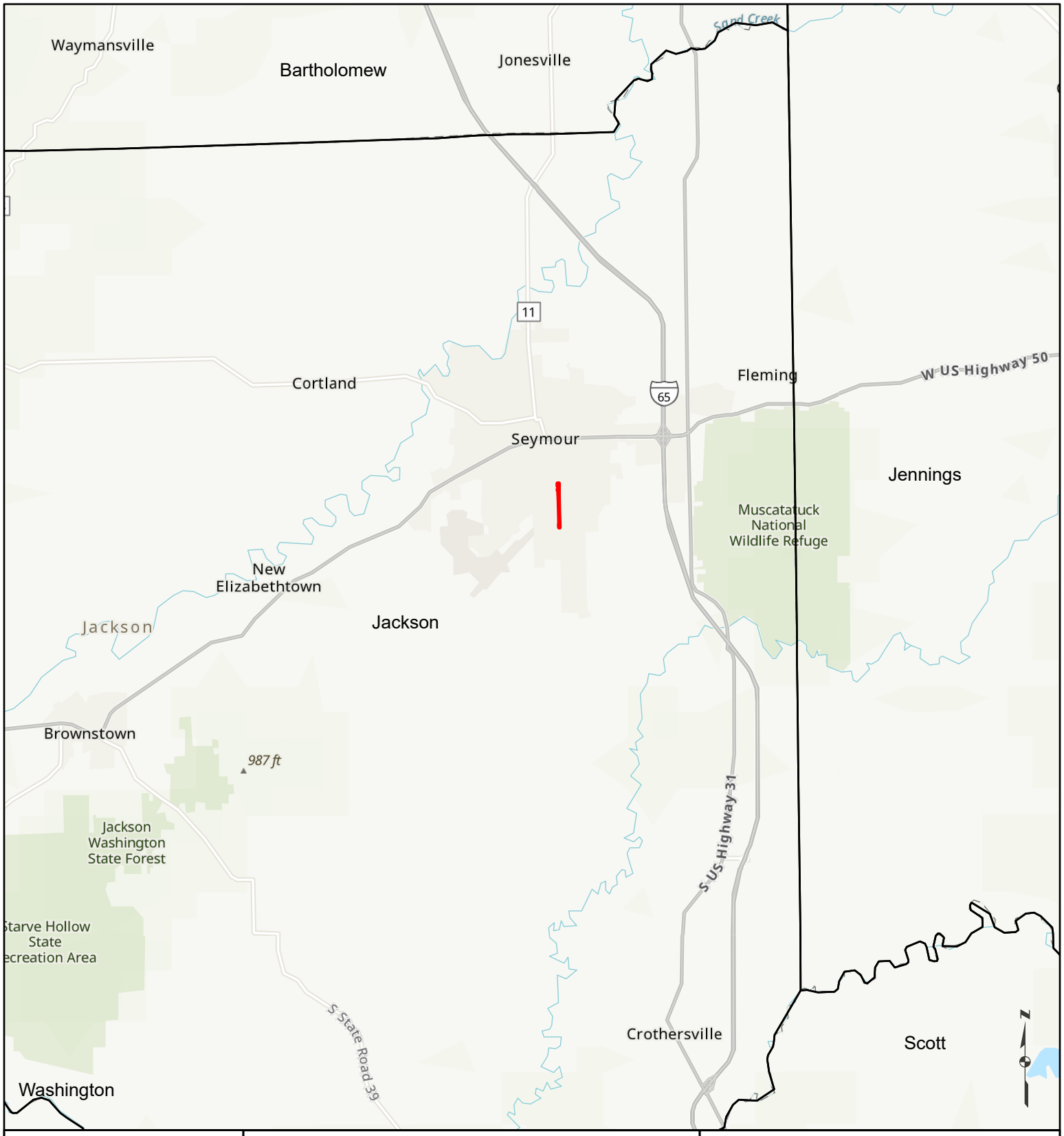
Categorical Exclusion Level Thresholds

	PCE	Level 1	Level 2	Level 3	Level 4[1]
Section 106	Falls within guidelines of Minor Projects PA	"No Historic Properties Affected"	"No Adverse Effect"	-	"Adverse Effect" Or Historic Bridge involvement[2]
Stream Impacts[3]	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	USACE Individual 404 Permit[4]
Wetland Impacts[3]	No adverse impacts to wetlands	< 0.1 acre	-	< 1.0 acre	≥ 1.0 acre
Right-of-way[5]	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations[6]	None	-	-	< 5	≥ 5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)*	"No Effect", "Not likely to Adversely Affect" (With select AMMs[7])	"Not likely to Adversely Affect" (With any AMMs or commitments)	-	"Likely to Adversely Affect"	Project does not fall under Species Specific Programmatic[8]
Threatened/Endangered Species (Any other species)*	Falls within guidelines of USFWS 2013 Interim Policy or "No Effect"	"Not likely to Adversely Affect"	-	-	"Likely to Adversely Affect"
Environmental Justice	No disproportionately high and adverse impacts	-	-	-	Potential[9]
Sole Source Aquifer	No Detailed Groundwater Assessment	-	-	-	Detailed Groundwater Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Section 4(f) Impacts	None	-	-	-	Any[10]
Section 6(f) Impacts	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Noise Analysis Required	No	-	-	-	Yes
Air Quality Analysis Required	No	-	-	-	Yes[11]
Approval Level • **District Env. (DE)** • **Env. Serv. Div. (ESD)** • **FHWA**	Concurrence by DE or ESD	DE or ESD	DE or ESD	DE and/or ESD	DE and/or ESD; and FHWA

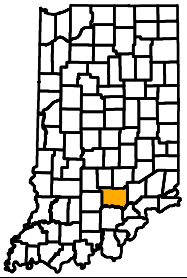
[1] Coordinate with INDOT Environmental Services Division. INDOT will then coordinate with the appropriate FHWA Environmental Specialist.
[2] Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement.
[3] Total permanent impacts to streams (linear feet) and wetlands (acres).
[4] US Army Corps of Engineers Individual 404 Permit
[5] Total permanent and temporary right-of-way. This does not include reacquisition of existing apparent right-of-way.
[6] If any relocations are within an area with a known or suspected Environmental Justice (EJ) or disadvantaged population, or has greater than 5 relocations, a conversation with FHWA, through INDOT ESD, is needed to confirm NEPA classification and outreach plan for the project.
[7] Avoidance and Mitigation Measures (AMMs) determined by the IPAC determination key to be required that are not tree AMMs, bridge AMMs, or structure AMMs.
[8] 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.
[9] Potential for causing a disproportionately high and adverse impact.
[10] 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.
[11] Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.
* Includes the threatened/endangered species critical habitat
Note: Substantial public or agency controversy may require a higher-level NEPA document.

Appendix B

Graphics



PROJECT LOCATION



JACKSON COUNTY, INDIANA

LEGEND

Investigation Area

County Boundary

0 0.5 1 2 Miles

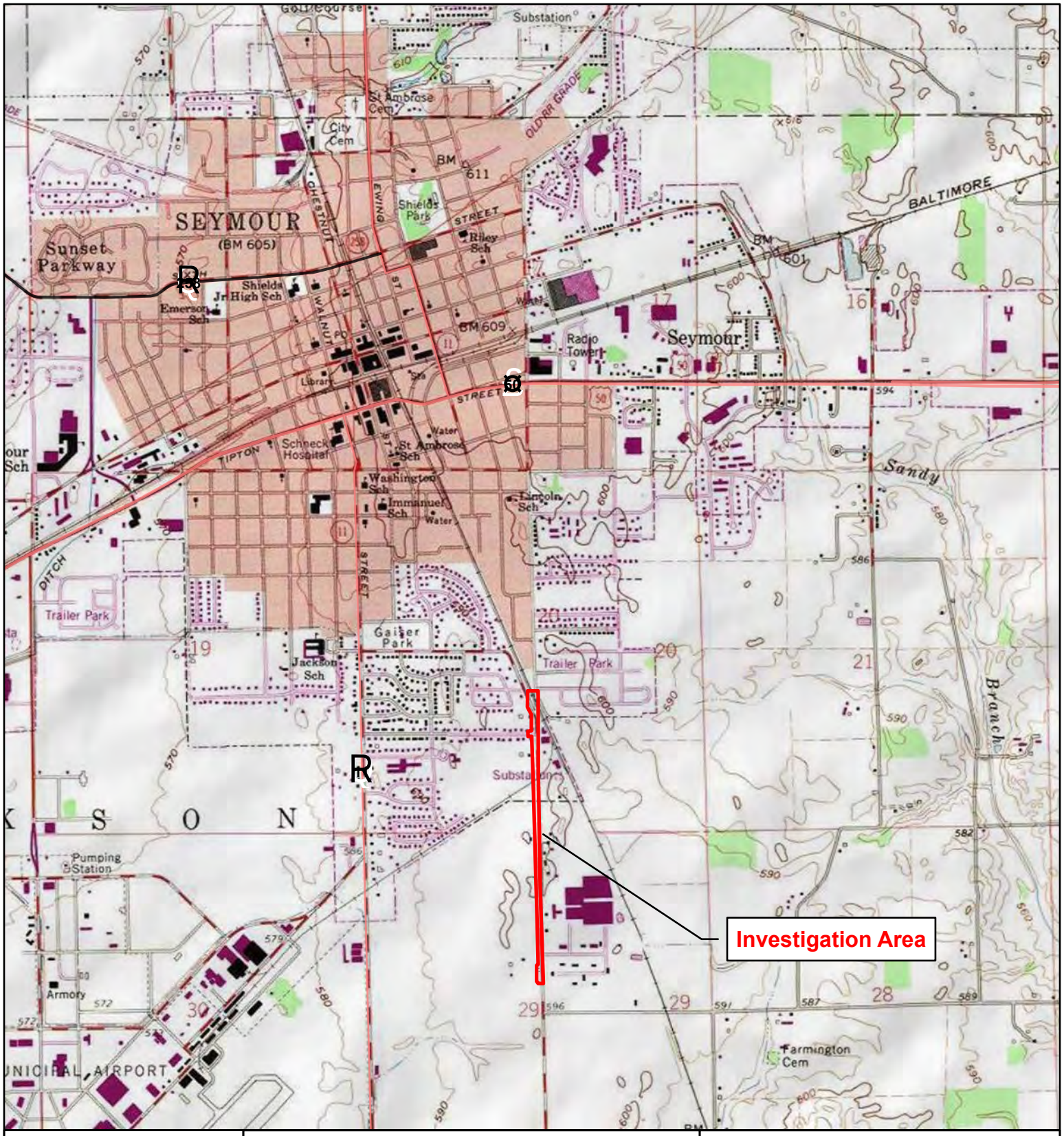
LOCATION MAP
FIGURE 1

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 6/5/2025
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 06/2025. COUNTY BOUNDARY,ESRI,2010.
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

gai consultants



PROJECT LOCATION

JACKSON COUNTY, INDIANA

LEGEND

Investigation Area

0 1,000 3,000 5,000 Feet

USGS 7.5 MINUTE SEYMOUR TOPOGRAPHIC MAP
FIGURE 2

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 12/6/2024
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 12/2024. COUNTY BOUNDARY,ESRI,2010.

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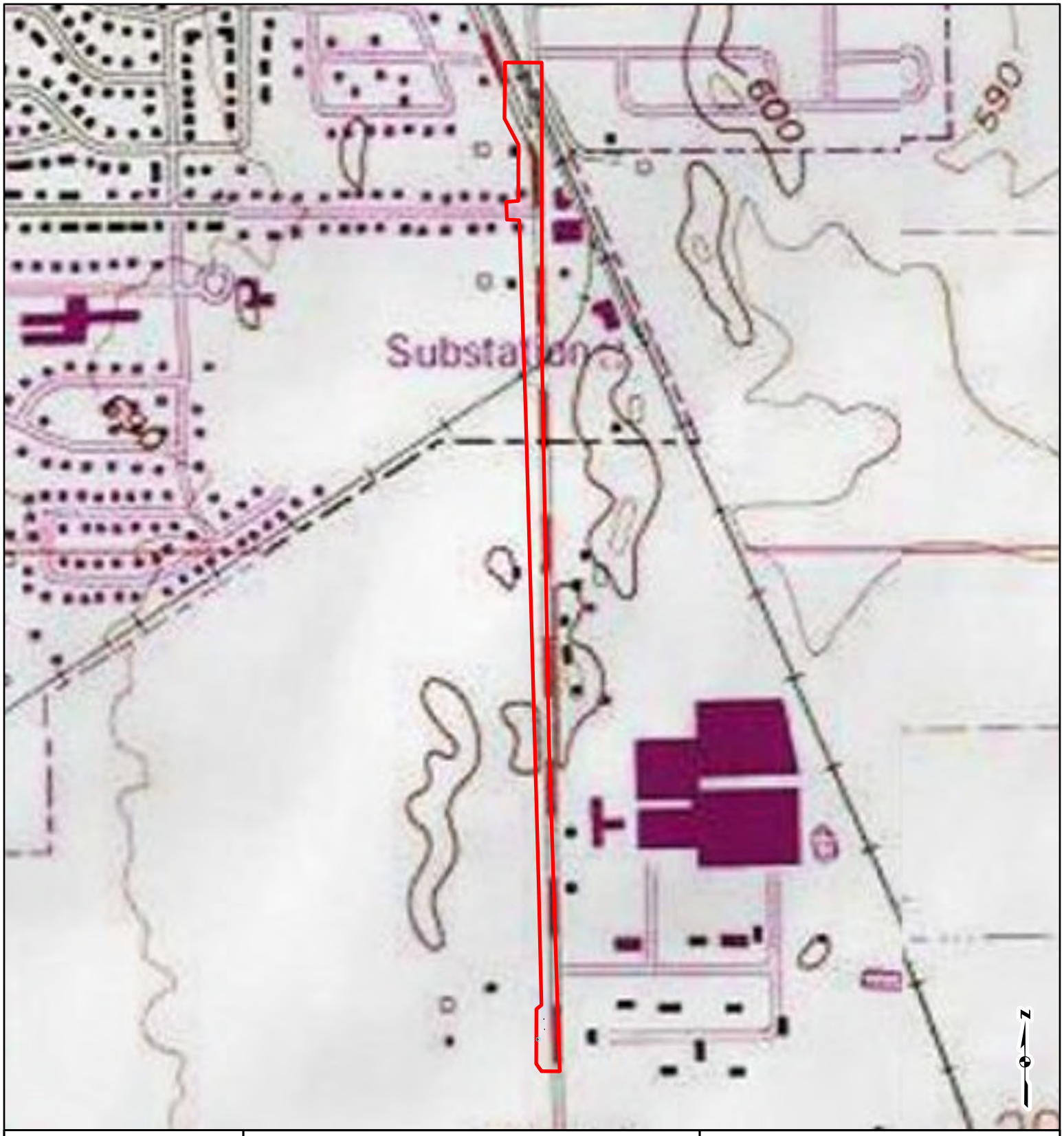

PROJECT LOCATION

JACKSON COUNTY, INDIANA

LEGEND

Investigation Area

0 400 800 2,000 Feet

USGS 7.5 MINUTE SEYMOUR TOPOGRAPHIC MAP
FIGURE 3

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 12/6/2024
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 12/2024. COUNTY BOUNDARY,ESRI,2010.

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PROJECT LOCATION

JACKSON COUNTY, INDIANA

LEGEND

Investigation Area

0 250 500 1,000 1,500 Feet

AERIAL MAP
FIGURE 4

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 12/6/2024
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 12/2024. COUNTY BOUNDARY,ESRI,2010.

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Photo 1. Standing on the west side of O'Brien Street looking southwest at wetland A. Cattails and Reed Canary Grass can be seen in is the area defined as a wetland.

Photo 2. Standing on the south side of Data Point 1 (Wetland A) facing north. O'Brien Street can be seen on the right side of the photo.

Photo 3. Soil sample of Data Point 1 (Wetland A).

Photo 4. Standing at eastside edge of Wetland A. Photo was taken facing south with existing vegetation and wetland sample in the foreground with O'Brien on left side..

Photo 5. Standing west of O'Brien Street facing east. Standing within Wetland A, proximity to O'Brien Street can be seen.

Photo 6. Standing east of Wetland A facing west. Vegetation change with cattails on the left side indicates Wetland A boundary.

Photo 7. Soil sample from Data Point 2 (Upland). Data Point 2 soils were identified as being nonhydric. Soil has grey coloration and sandy texture.

Photo 8. Standing about 6 feet from the Data Point 2 soil sample. Photo taken facing south with O'Brien Street in background on left.

Photo 9. Data Point 3 location. Photo taken facing east with right-of-way marker seen on bottom edge of photo. Upland species observed in area.

Photo 10. Data Point 3 location. Photo taken facing north towards western edge of right-of-way.

Photo 11. Standing on east side of O'Brien Street towards the southside of investigated area. Roadside ditch (RSD) levels out to open lawn and has a more defined ditch line father north.

Photo 12. Standing on the west side of O'Brien Street towards the southside of the investigated area. Facing north, an agricultural field can be seen on left side with shoulder sloping down from road.

Photo 13. Photo taken on the west side of O'Brien Street looking north. No roadside ditch observed.

Photo 14. Photo taken on the east side of O'Brien Street facing north. A small roadside ditch/swale with no OHWM is observed.

Photo 15. Photo taken on the west side of O'Brien Street looking northeast. No roadside ditches observed in this area.

Photo 16. Photo taken on the west side of O'Brien Street looking southeast. No roadside ditches observed in this area.

Photo 17. Photo take mid-way through investigation on the west side of O'Brien Street. The start of a roadside ditch is just north where photo is taken.

Photo 18. Start of RSD 2 on the east side of O'Brien Street can be seen. Maintenance has sprayed and kill existing vegetation along the ditch line. Photo taken facing south.

Photo 19. Photo take mid-way through investigation on the west side of O'Brien Street. The start of a RSD3 is just north where photo is taken.

Photo 20. RSD3 filled with vegetation along the west side of O'Brien Street. Photo taken facing north.

Photo 21. Photo of RSD 2 was taken facing north on the east side of O'Brien Street of roadside ditch. Ditch line shows visible signs of spraying and maintenance activities.

Photo 22. Photo taken facing north on the west side of O'Brien Street approaching the railroad. Heavy vegetation in the ditch line is blocking view of the corrugated metal pipe in the ditch line for the gravel access drive.

Photo 23. Photo taken facing southwest looking at the railroad on the right side and a portion of O'Brien Street on the left. Ditch line filled will vegetation.

Photo 24. Looking north from the railroad on the west side of O'Brien Street. No roadside ditch north of the railroad tracks on this side of the roadway.

Photo 25. Photo taken facing south along east side of O'Brien Street at the RSD2. Location is approximately 50' south of the railroad tracks.

Photo 26. Small corrugated metal pipe that connects RSD 2 to RSD 3. No standing water was observed within the pipe. Photo taken facing west (towards O'Brien Street) just south of railroad tracks.

Photo 27. Photo taken facing north on the east side of O'Brien Street, just north of the railroad tracks. Small roadside ditch (RSD 4) with sedimentation left behind from adjacent gravel operation.

Photo 28. Photo taken facing south at pipe inlet of RSD 4 on east side of O'Brien Street. No OHWM is observed.

Photo 29. Photo taken facing north, standing on private gravel drive with corrugated metal pipe. RSD 4 fades away to commercial property.

Photo 30. Side ditch that connects to RSD 4 coming in from between building into corrugated metal pipe. Sediment deposits can be see within ditch line. No OHWM was observed.

Photo 31. Facing north on east side of O'Brien Street, inlet can be seen in middle of the driveway/parking lot of commercial property.

Photo 32. Photo taken facing north close tp the northern set of railroads within the investigated area. No ditch line was observed.

Photo 33. Standing along the east side of O'Brien Street facing north. A small ditch line (RSD6) was between the railroad tracks and the drive in the background.

Photo 34. RSD 6 along the railroad transversing the investigated area. No OHWM was observed. Photo taken facing southeast.

Photo 35. RSD6, just north of the double railroad tracks on the north side of the investigated area. Sedimentation within the ditch line. Photo taken facing southeast.

Photo 36. RSD6, north of the double railroad tracks in the northern portion of the investigated area. Photo taken facing northwest to show trajectory with railroad tracks.

Photo 37. Facing south looking at the west side of O'Brien Street from the northern set of railroad tracks. A small roadside ditch is within the grass area between roads.

Photo 38. Small outlet at the beginning of RSD 5, between railroad and Park St. Sediment can been within the grass. No OHWM was observed.

Photo 39. Roadside vegetation along the west side of O'Brien Street south of Park Drive. Slight slope away from roadway with no ditch line present.

PROJECT	DESIGNATION
2101694	2101694
CONTRACT	
R-44298	

INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS

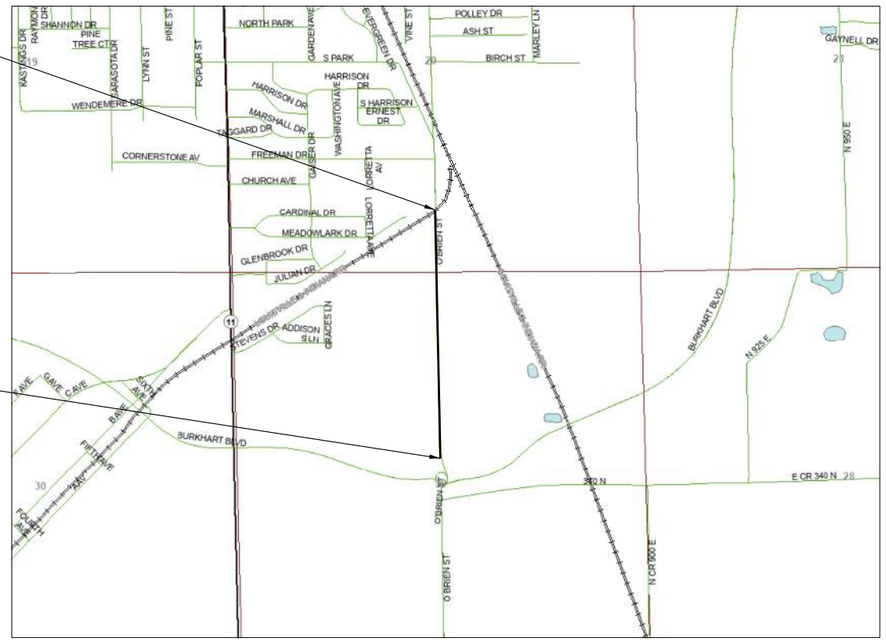
ROUTE: ST-2887

PROJECT NO. 2101694 P.E
2101694 R/W
2101694 CONST.

Project Description: Roadway Reconstruction on O'Brien Street from New Burkart Bypass Southern Roundabout to Village Circle Avenue
Section 29, T-6-N, R-6-E, and Section 20, T-6-N, R-6-E, Jackson Township, Jackson County, Indiana

END PROJECT
STA. 66+17.29 "PR-B"

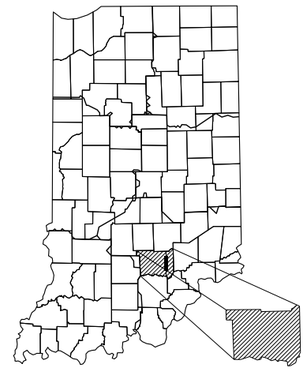
BEGIN PROJECT
STA. 22+47.50 "PR-B"



SCALE: 1" = 1,500'

TRAFFIC DATA		O'BRIEN STREET
A.A.D.T.	(2025)	6,176 V.P.D.
A.A.D.T.	(2045)	6,791 V.P.D.
D.H.V	(2045)	622 V.P.H.
DIRECTIONAL DISTRIBUTION		54.4% / 45.6%
TRUCKS		2.5 % A.A.D.T.
		2.6 % D.H.V.

DESIGN DATA	O'BRIEN STREET
DESIGN SPEED	30 M.P.H.
PROJECT DESIGN CRITERIA	Reconstruction (Non-Freeway)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	URBAN-INTERMEDIATE
TERRAIN	LEVEL
ACCESS CONTROL	NONE



PROJECT LOCATION SHOWN BY
JACKSON COUNTY

LATITUDE: 38° 56' 19" N LONGITUDE: 85° 52' 50" W

BRIDGE LENGTH: N/A MI.
ROADWAY LENGTH: 0.828 MI.
TOTAL LENGTH: 0.828 MI.
MAX. GRADE: 1.960 %

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2026
TO BE USED WITH THESE PLANS

gai consultants

PLANS PREPARED BY: GAI Consultants Inc. (317) 570-6800 PHONE NUMBER

CERTIFIED BY: 4/01/2021 DATE

APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

DESIGNATION	
2101694	
SURVEY BOOK	SHEETS
	1 of 91
CONTRACT	PROJECT
R-44298	2101694

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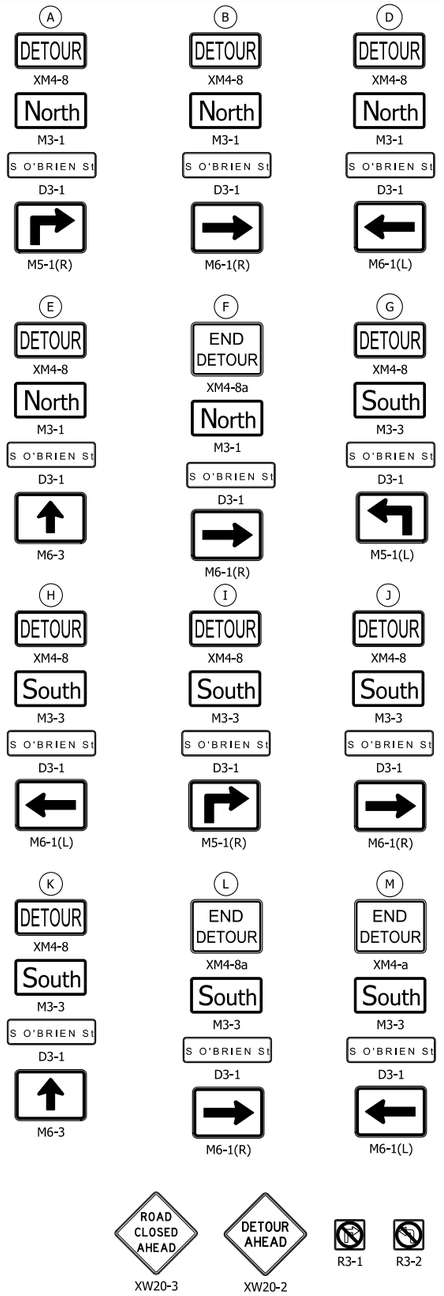

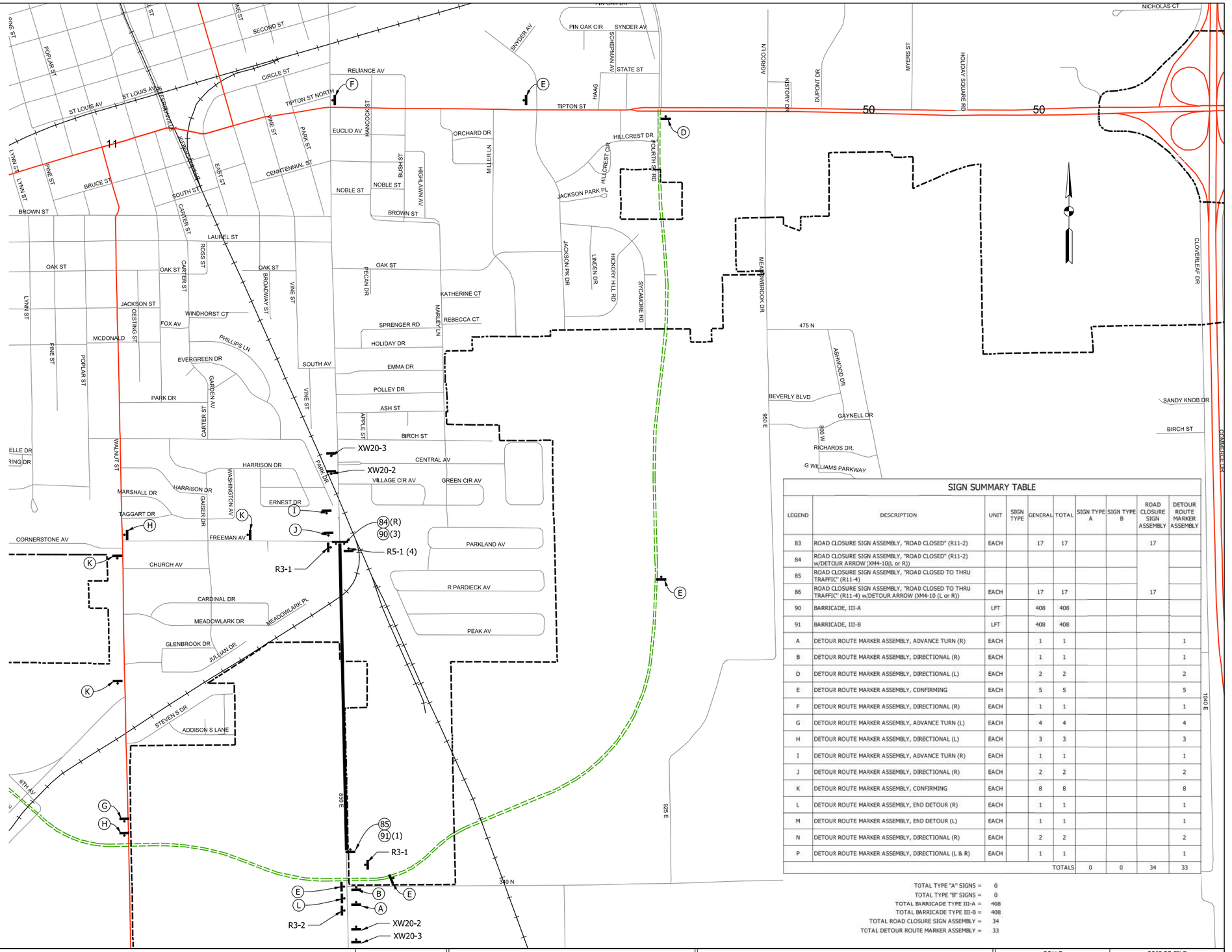

SIGN SUMMARY TABLE

LEGEND	DESCRIPTION	UNIT	SIGN TYPE	GENERAL	TOTAL	SIGN TYPE A	SIGN TYPE B	ROAD CLOSURE SIGN ASSEMBLY	DETOUR ROUTE MARKER ASSEMBLY
83	ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED" (R11-2)	EACH		17	17			17	
84	ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED" (R11-2) w/DETOUR ARROW (XM4-10(L or R))								
85	ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED TO THRU TRAFFIC" (R11-4)								
86	ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED TO THRU TRAFFIC" (R11-4) w/DETOUR ARROW (XM4-10 (L or R))	EACH		17	17			17	
90	BARRICADE, III-A	LFT		408	408				
91	BARRICADE, III-B	LFT		408	408				
A	DETOUR ROUTE MARKER ASSEMBLY, ADVANCE TURN (R)	EACH		1	1				1
B	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		1	1				1
D	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (L)	EACH		2	2				2
E	DETOUR ROUTE MARKER ASSEMBLY, CONFIRMING	EACH		5	5				5
F	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		1	1				1
G	DETOUR ROUTE MARKER ASSEMBLY, ADVANCE TURN (L)	EACH		4	4				4
H	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (L)	EACH		3	3				3
I	DETOUR ROUTE MARKER ASSEMBLY, ADVANCE TURN (R)	EACH		1	1				1
J	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		2	2				2
K	DETOUR ROUTE MARKER ASSEMBLY, CONFIRMING	EACH		8	8				8
L	DETOUR ROUTE MARKER ASSEMBLY, END DETOUR (R)	EACH		1	1				1
M	DETOUR ROUTE MARKER ASSEMBLY, END DETOUR (L)	EACH		1	1				1
N	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		2	2				2
P	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (L & R)	EACH		1	1				1
					TOTALS	0	0	34	33

TOTAL TYPE "A" SIGNS = 0
TOTAL TYPE "B" SIGNS = 0
TOTAL BARRICADE TYPE III-A = 408
TOTAL BARRICADE TYPE III-B = 408
TOTAL ROAD CLOSURE SIGN ASSEMBLY = 34
TOTAL DETOUR ROUTE MARKER ASSEMBLY = 33

NOTES:

(1) 24' of Barricades staggered per INDOT Standard DWG 801-TCDT-02
(2) 24' of Barricades In-line per INDOT Standard DWG 801-TCDT-02
(3) 12' of Barricades Facing SB Traffic, In Work Lane.
(4) To Be Placed along the outside of the Traffic Lane, Facing SB Traffic

LEGEND

(83) ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED" (R11-2)
(84) ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED" (R11-2) W/DETOUR ARROW (XM4-10(L or R))
(85) ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED TO THRU TRAFFIC" (R11-4)
(86) ROAD CLOSURE SIGN ASSEMBLY, (RCSA) ROAD CLOSED TO THRU TRAFFIC (R11-4) W/ DETOUR ARROW (XM4-10 (L OR R)
(90) III-A BARRICADES
(91) III-B BARRICADES
PROJECT LOCATION
CONSTRUCTION SIGN
CONSTRUCTION BARRICADES

gai consultants

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLZ
DRAWN: KTH
CHECKED: BWC
CHECKED: BWC

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASES 1-3A
DETOUR ROUTE

SCALE	BRIDGE FILE
1" = 600'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	6 of 91
CONTRACT	PROJECT
R-44298	2101694

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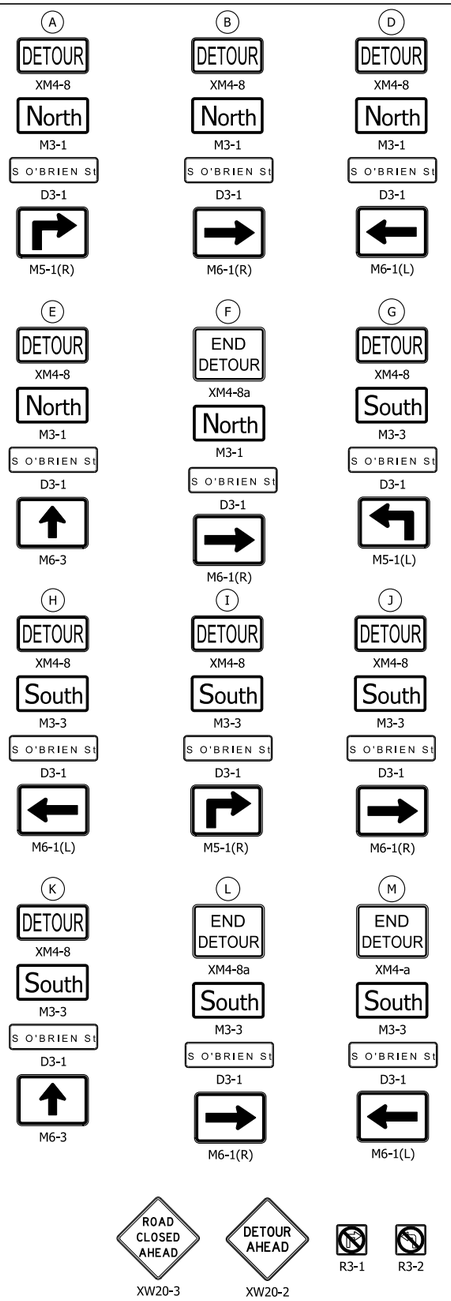

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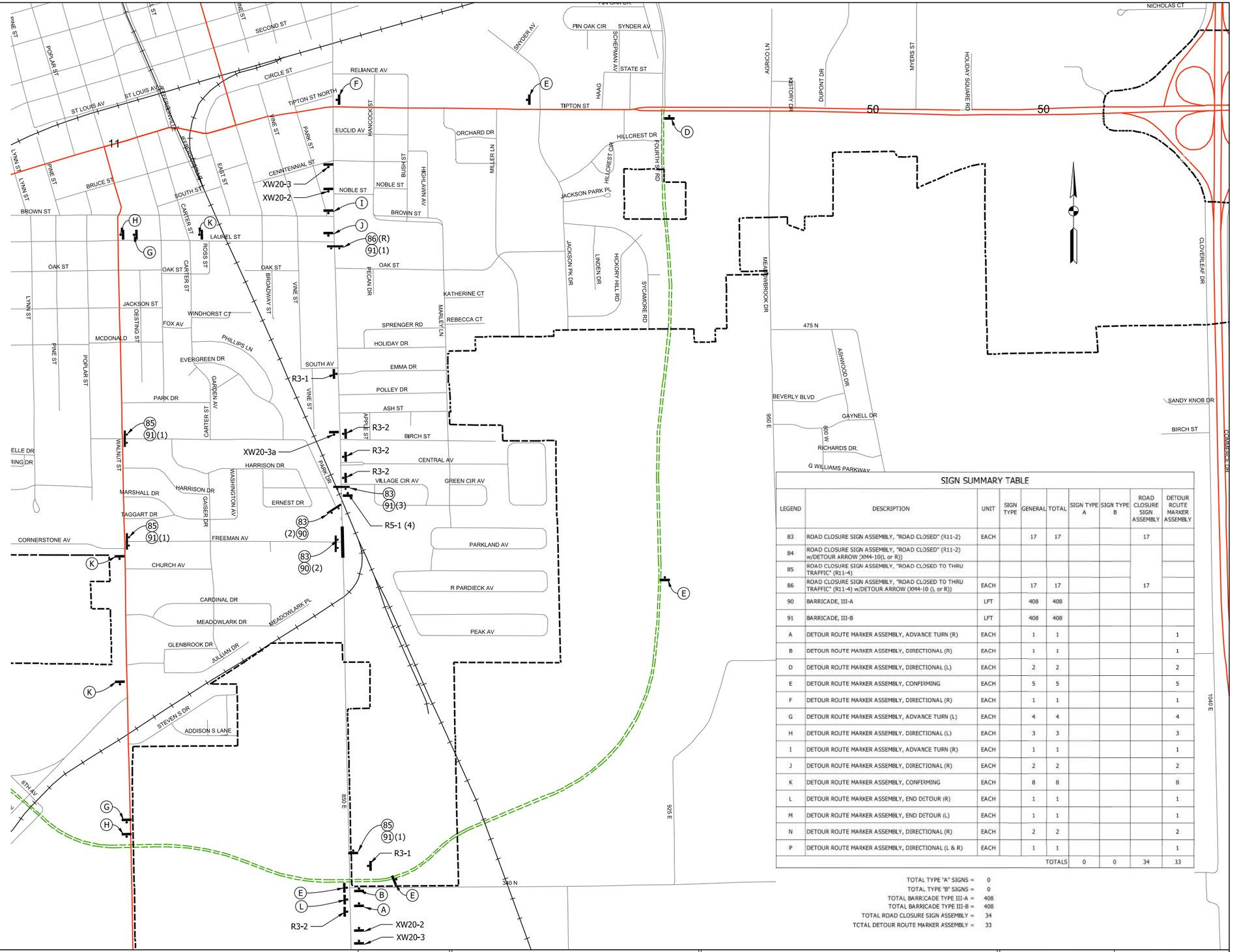
(85) ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED TO THRU TRAFFIC" (R11-4)
(86) ROAD CLOSURE SIGN ASSEMBLY, (RCSA) ROAD CLOSED TO THRU TRAFFIC (R11-4) W/ DETOUR ARROW (XM4-10 (L OR R)
(90) III-A BARRICADES
(91) III-B BARRICADES
PROJECT LOCATION
CONSTRUCTION SIGN
CONSTRUCTION BARRICADES

gai consultants



SIGN SUMMARY TABLE

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91	BARRICADE, III-B	LFT		408	408				
A	DETOUR ROUTE MARKER ASSEMBLY, ADVANCE TURN (R)	EACH		1	1				1
B	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		1	1				1
D	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (L)	EACH		2	2				2
E	DETOUR ROUTE MARKER ASSEMBLY, CONFIRMING	EACH		5	5				5
F	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		1	1				1
G	DETOUR ROUTE MARKER ASSEMBLY, ADVANCE TURN (L)	EACH		4	4				4
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I	DETOUR ROUTE MARKER ASSEMBLY, ADVANCE TURN (R)	EACH		1	1				1
J	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		2	2				2
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L	DETOUR ROUTE MARKER ASSEMBLY, END DETOUR (R)	EACH		1	1				1
M	DETOUR ROUTE MARKER ASSEMBLY, END DETOUR (L)	EACH		1	1				1
N	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		2	2				2
P	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (L & R)	EACH		1	1				1
					TOTALS	0	0	34	33

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RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH
CHECKED: BWC CHECKED: BWC

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASES 3B
DETOUR ROUTE

SCALE	BRIDGE FILE
1" = 600'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	7 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:4/23/2025 10:08:04 AM By: HuynhKT Pen: Transportation.tbl Model:Sheet 2

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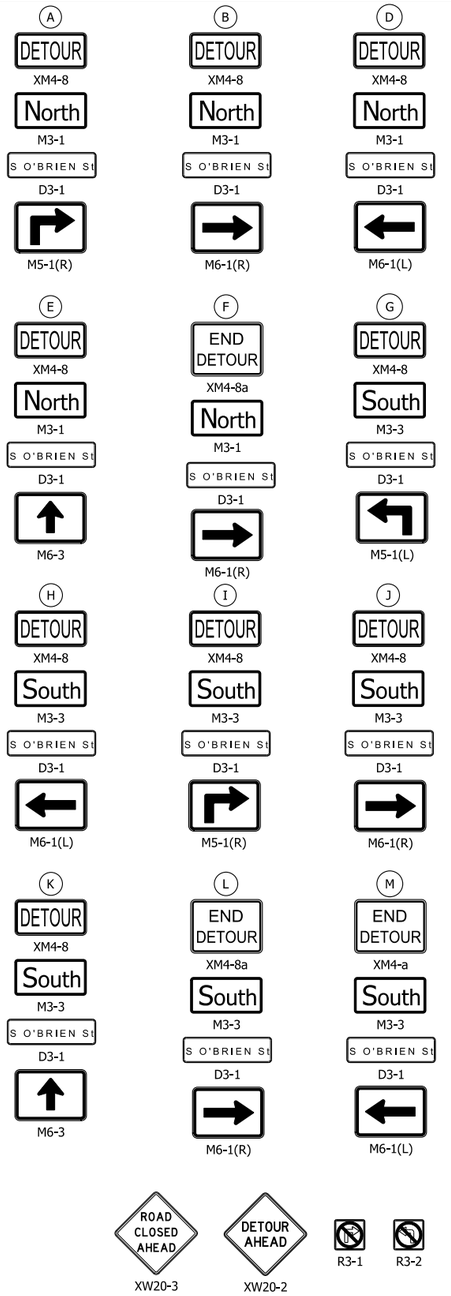

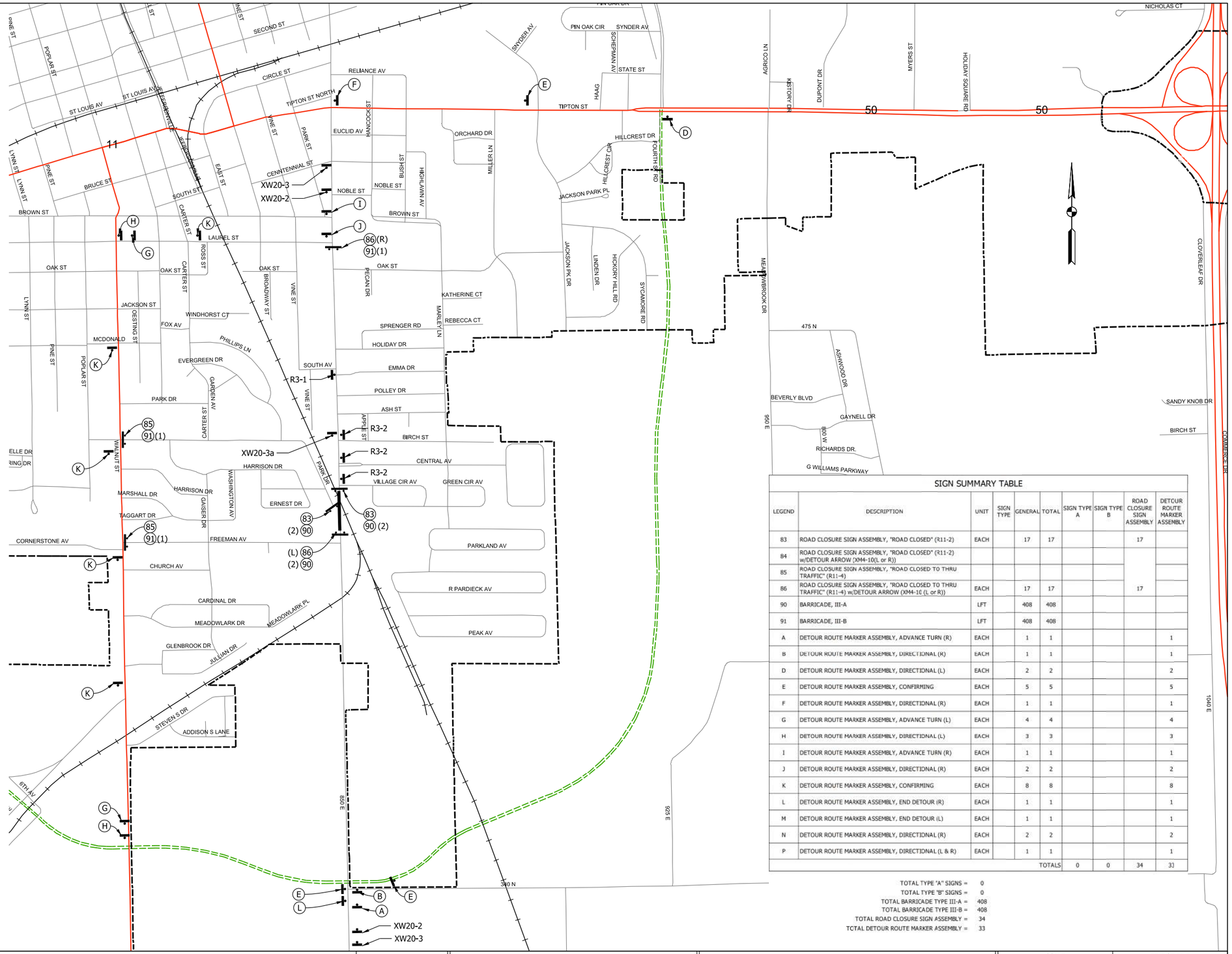

SIGN SUMMARY TABLE

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A	DETOUR ROUTE MARKER ASSEMBLY, ADVANCE TURN (R)	EACH		1	1				1
B	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		1	1				1
D	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (L)	EACH		2	2				2
E	DETOUR ROUTE MARKER ASSEMBLY, CONFIRMING	EACH		5	5				5
F	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		1	1				1
G	DETOUR ROUTE MARKER ASSEMBLY, ADVANCE TURN (L)	EACH		4	4				4
H	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (L)	EACH		3	3				3
I	DETOUR ROUTE MARKER ASSEMBLY, ADVANCE TURN (R)	EACH		1	1				1
J	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		2	2				2
K	DETOUR ROUTE MARKER ASSEMBLY, CONFIRMING	EACH		8	8				8
L	DETOUR ROUTE MARKER ASSEMBLY, END DETOUR (R)	EACH		1	1				1
M	DETOUR ROUTE MARKER ASSEMBLY, END DETOUR (L)	EACH		1	1				1
N	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (R)	EACH		2	2				2
P	DETOUR ROUTE MARKER ASSEMBLY, DIRECTIONAL (L & R)	EACH		1	1				1
					TOTALS	0	0	34	33

TOTAL TYPE "A" SIGNS = 0
TOTAL TYPE "B" SIGNS = 0
TOTAL BARRICADE TYPE III-A = 408
TOTAL BARRICADE TYPE III-B = 408
TOTAL ROAD CLOSURE SIGN ASSEMBLY = 34
TOTAL DETOUR ROUTE MARKER ASSEMBLY = 33

NOTES:

(1) 24' of Barricades staggered per INDOT Standard DWG 801-TCDT-02
(2) 24' of Barricades In-line per INDOT Standard DWG 801-TCDT-02
(3) 12' of Barricades Facing SB Traffic, In Work Lane.
(4) To Be Placed along the outside of the Traffic Lane, Facing SB Traffic

LEGEND

(83) ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED" (R11-2)
(84) ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED" (R11-2) W/DETOUR ARROW (XM4-10(L or R))
(85) ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED TO THRU TRAFFIC" (R11-4)
(86) ROAD CLOSURE SIGN ASSEMBLY, (RCSA) ROAD CLOSED TO THRU TRAFFIC (R11-4) W/ DETOUR ARROW (XM4-10 (L OR R)
(90) III-A BARRICADES
(91) III-B BARRICADES
PROJECT LOCATION
CONSTRUCTION SIGN
CONSTRUCTION BARRICADES

gai consultants

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH
CHECKED: BWC CHECKED: BWC

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PHASE 4 DETOUR ROUTE

SCALE	BRIDGE FILE
1" = 600'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	8 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:4/23/2025 10:08:11 AM By: HuynhKT Pen: Transportation.tbl Model:Sheet 3

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NORTHWEST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

22+00

RUST FARMS, LLC

CURVE # 1
PI = 23+22.33
Delta = 0°46'02" LT
D = 0°42'58"
R = 8000.00'
T = 53.57'
L = 107.13'
E = 0.18'
SE = Normal Crown

23+00

EQUATION:
P.O.C. STA. 23+00.46 "PR-B" =
P.O.T. STA. 5+07.97 "E"

App. R/W

+79.81 "E", 36.94' LT.
El. 595.18

+00.0 "E", 41.12' LT.

+00.0 "E", 42.13' LT.

P.C. STA. 22+68.76 "PR-B"

+55.0 "E", 37.32' LT.

Const. Limits

+81.84 "E", 27.15' LT.
El. 595.03

10'

10'

10'

Const. Limits

Const. Limits

F1

15

BEGIN PROJECT:
P.O.T. STA. 22+47.50 "PR-B"

19.8'

BEGIN TAPER
STA. 47.50 "PR-B"
19.8' LT.

K

Line "E" 1/2 Section Line
N01°18'27'W

Line "PR-B"
N01°18'28'W

18.8'

BEGIN TAPER
Sta. 22+47.50 "PR-B"
18.8' RT.

15

App. R/W

Control Point #100

NORTHEAST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

SILGAN PLASTICS CORP.

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

LEGEND

(14) Integral Concrete Curb, Type C

(15) Curb and Gutter, Concrete

(26) Sodding

(27) Mulched Seeding, U

(C) HMA for Approaches, Type B:
165 #/SY HMA Surface, Type B on
275 #/SY HMA Intermediate, Type B on
440 #/SY HMA Base, Type B on
3" Compacted Aggregate, No. 53

(D1) PCCP For Approaches, 6 in. on Dense Graded Subbase,
6 in. on Subgrade Treatment Type II

(D2) PCCP for Approaches, 9 in. on Dense Graded Subbase,
6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II

(F) Sidewalk, Concrete

(F1) HMA for Sidewalk Consisting of
140 lb/yd²HMA Surface, Type B, on
220 lb/yd²HMA Intermediate, Type B on
6" Compacted Aggregate No. 53, Base on
Subgrade Treatment Type III, Underdrain

(K) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on
440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
4" Compacted Aggregate, No. 53, on
Subgrade Treatment, IBC

(R) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
Milling, Asphalt 1 ½ in.

gai consultants

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	34 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:05/15/25 10:24:59 By: HuynhKT Pen: Transportation.tbl Model:Sheet 1

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NORTHWEST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

23+00

24+00

25+00

26+00

CURVE # 1
PI = 23+22.33
Delta = 0°46'02" LT
D = 0°42'58"
R = 8000.00'
T = 53.57'
L = 107.13'
E = 0.18'
SE = Normal Crown

CURVE # 2
PI = 24+56.37
Delta = 0°54'13" RT
D = 0°42'58"
R = 8000.00'
T = 63.08'
L = 126.15'
E = 0.25'
SE = Normal Crown

RUST FARMS, LLC

App. R/W

Wetland "A"

+82.61 (PL)
45' LT. (R/W)

+50, 14.4' Lt. STR. 12
Inlet M-10 &
7' of 12" Pipe Req'd.

+68, 13.3' Lt. STR. 11
Inlet M-10 &
18' of 12" Pipe Req'd.

45' R/W

Const. Limits

CL III, 10.5' W

+47.79

+60, 35.6' Lt. STR. 19B
Catch Basin E-7 &
30' of 12" Pipe Req'd.

+50, 7.5' Lt. STR. 16
Manhole C-4 &
217' of 24" Pipe Req'd.

+00, 13' Lt. STR. 10
Inlet J-10 &
32' of 12" Pipe Req'd.

+25, 13' Lt. STR. 17
Inlet J-10 &
7' of 12" Pipe Req'd.

+25, 6' Lt. STR. 19
Manhole C-4 &
175' of 24" Pipe Req'd.

END TAPER
STA. 23+72.00 "PR-B"
12' LT.

P.T. STA. 23+75.89 "PR-B"

P.T. STA. 25+19.45 "PR-B"

EQUATION:
P.O.C. STA. 23+00.46 "PR-B" =
P.O.T. STA. 5+07.97 "E"

O'BRIEN ST.

Line "PR-B"
N02°04'30"W

P.I. STA. 24+56.37"PR-B"

Line "PR-B"
N01°10'18"W

+59.6, 6' Lt. STR. 19A
Manhole C-4 &
35' of 24" Pipe Req'd.

P.C. STA. 23+93.30 "PR-B"

Line "E" & 1/2 Section Line
N01°18'27"W

END TAPER
STA. 23+72.00 "PR-B"
12' RT.

Const. Limits

+50, 14.1' Rt. STR. 15
Inlet M-10 &
22' of 12" Pipe Req'd.

P.I. STA. 23+22.33 "PR-B"

30' R/W

+82.83 (PL)
30' RT. (R/W)

+00, 13' Rt. STR. 13
Inlet J-10 &
32' of 12" Pipe Req'd.

+25, 13' Rt. STR. 18
Inlet J-10 &
19' of 12" Pipe Req'd.

+68, 13.2' Rt. STR. 14
Inlet M-10 &
18' of 12" Pipe Req'd.

App. R/W

SILGAN PLASTICS CORP.

NORTHEAST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

LEGEND

(14) Integral Concrete Curb, Type C

(15) Curb and Gutter, Concrete

(26) Sodding

(27) Mulched Seeding, U

(C) HMA for Approaches, Type B:
165 #/SY HMA Surface, Type B on
275 #/SY HMA Intermediate, Type B on
440 #/SY HMA Base, Type B on
3" Compacted Aggregate, No. 53

(D1) PCCP For Approaches, 6 in. on Dense Graded Subbase,
6 in. on Subgrade Treatment Type II

(D2) PCCP for Approaches, 9 in. on Dense Graded Subbase,
6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II

(F) Sidewalk, Concrete

(F1) HMA for Sidewalk Consisting of
140 lb/yd²HMA Surface, Type B, on
220 lb/yd²HMA Intermediate, Type B on
6" Compacted Aggregate No. 53, Base on
Subgrade Treatment Type III, Underdrain

(K) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on
440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
4" Compacted Aggregate, No. 53, on
Subgrade Treatment, IBC

(R) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
Milling, Asphalt 1 ½ in.

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

gai consultants

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	35 of 91
CONTRACT	PROJECT
R-44298	2101694

Model:Sheet 2
Pen: Transportation.tbl
By: HuynhKT
10:25:09
Plot:05/15/25

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26+00

27+00

28+00

29+00

NORTHWEST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

RUST FARMS, LLC

CURVE # 3
PI = 27+71.49
Delta = 0°32'58" LT
D = 0°28'39"
R = 12000.00'
T = 57.53'
L = 115.05'
E = 0.14'
SE = Normal Crown

+00
45' LT.

45' R/W

Const. Limits

+57, 13' Lt. STR. 20
Inlet J-10 &
7' of 12" Pipe Req'd.

+57, 6' Lt. STR. 21
Manhole C-4 &
132' of 24" Pipe Req'd.

+00, 13' Lt. STR. 22
Inlet J-10 &
7' of 12" Pipe Req'd.

+00, 6' Lt. STR. 24
Manhole C-4 &
143' of 24" Pipe Req'd.

P.I. STA. 27+71.49 "PR-B"

P.T. STA. 28+29.02 "PR-B"

P.C. STA. 27+13.97 "PR-B"

O'BRIEN ST.

Line "PR-B"
N01°10'18"W

Line "E"
N01°18'27"W

Line "PR-B"
N01°43'15"W

TBM #11

+00, 13' Rt. STR. 23
Inlet J-10 &
19' of 12" Pipe Req'd.

+80
30' RT.

+25
30' RT.

+80
45' RT.

+25
45' RT.

+92.94

CL III, 19.5'

30' R/W

30' R/W

Const. Limits

SILGAN PLASTICS CORP.

NORTHEAST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

LEGEND

(14) Integral Concrete Curb, Type C

(15) Curb and Gutter, Concrete

(26) Sodding

(27) Mulched Seeding, U

(C) HMA for Approaches, Type B:
165 #/SY HMA Surface, Type B on
275 #/SY HMA Intermediate, Type B on
440 #/SY HMA Base, Type B on
3" Compacted Aggregate, No. 53

(D1) PCCP For Approaches, 6 in. on Dense Graded Subbase,
6 in. on Subgrade Treatment Type II

(D2) PCCP for Approaches, 9 in. on Dense Graded Subbase,
6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II

(F) Sidewalk, Concrete

(F1) HMA for Sidewalk Consisting of
140 lb/yd²HMA Surface, Type B, on
220 lb/yd²HMA Intermediate, Type B on
6" Compacted Aggregate No. 53, Base on
Subgrade Treatment Type III, Underdrain

(K) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on
440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
4" Compacted Aggregate, No. 53, on
Subgrade Treatment, IBC

(R) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
Milling, Asphalt 1 ½ in.

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

gai consultants

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	36 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:05/15/25 10:25:18 By: HuynhKT Pen: Transportation.tbl Model:Sheet 3

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29+00

30+00

31+00

32+00

NORTHWEST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

RUST FARMS, LLC

+00
45' LT.

+21, 13' Lt. STR. 25
Inlet J-10 &
7' of 12" Pipe Req'd.

45' R/W

Const. Limits

+30, 13' Lt. STR. 28
Inlet J-10 &
7' of 12" Pipe Req'd.

+30, 6' Lt. STR. 29
Manhole C-4 &
109' of 18" Pipe Req'd.

O'BRIEN ST.

P.I. STA. 31+49.34 "PR-B"

Line "PR-B"
N01°43'15"W

Line "E" & 1/2 Section Line
N01°18'27"W

P.C. STA. 30+42.04 "PR-B"

Const. Limits

30' R/W

+21, 6' Lt. STR. 27
Manhole C-4 &
121' of 18" Pipe Req'd.

+21, 13' Rt. STR. 26
Inlet J-10 &
19' of 12" Pipe Req'd.

Control Point #102

+85
30' RT.

+85
55' RT.

CURVE # 4
PI = 31+49.34
Delta = 1°01'29" RT
D = 0°28'39"
R = 12000.00'
T = 107.30'
L = 214.59'
E = 0.48'
SE = Normal Crown

SILGAN PLASTICS CORP.

NORTHEAST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

LEGEND

(14) Integral Concrete Curb, Type C

(15) Curb and Gutter, Concrete

(26) Sodding

(27) Mulched Seeding, U

(C) HMA for Approaches, Type B:
165 #/SY HMA Surface, Type B on
275 #/SY HMA Intermediate, Type B on
440 #/SY HMA Base, Type B on
3" Compacted Aggregate, No. 53

(D1) PCCP For Approaches, 6 in. on Dense Graded Subbase,
6 in. on Subgrade Treatment Type II

(D2) PCCP for Approaches, 9 in. on Dense Graded Subbase,
6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II

(F) Sidewalk, Concrete

(F1) HMA for Sidewalk Consisting of
140 lb/yd²HMA Surface, Type B, on
220 lb/yd²HMA Intermediate, Type B on
6" Compacted Aggregate No. 53, Base on
Subgrade Treatment Type III, Underdrain

(K) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on
440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
4" Compacted Aggregate, No. 53, on
Subgrade Treatment, IBC

(R) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
Milling, Asphalt 1 ½ in.

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

gai consultants

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH
CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	37 of 91
CONTRACT	PROJECT
R-44298	2101694

Model:Sheet 4
Pen: Transportation.tbl
By: HuynhKT
10:25:29
Plot:05/15/25

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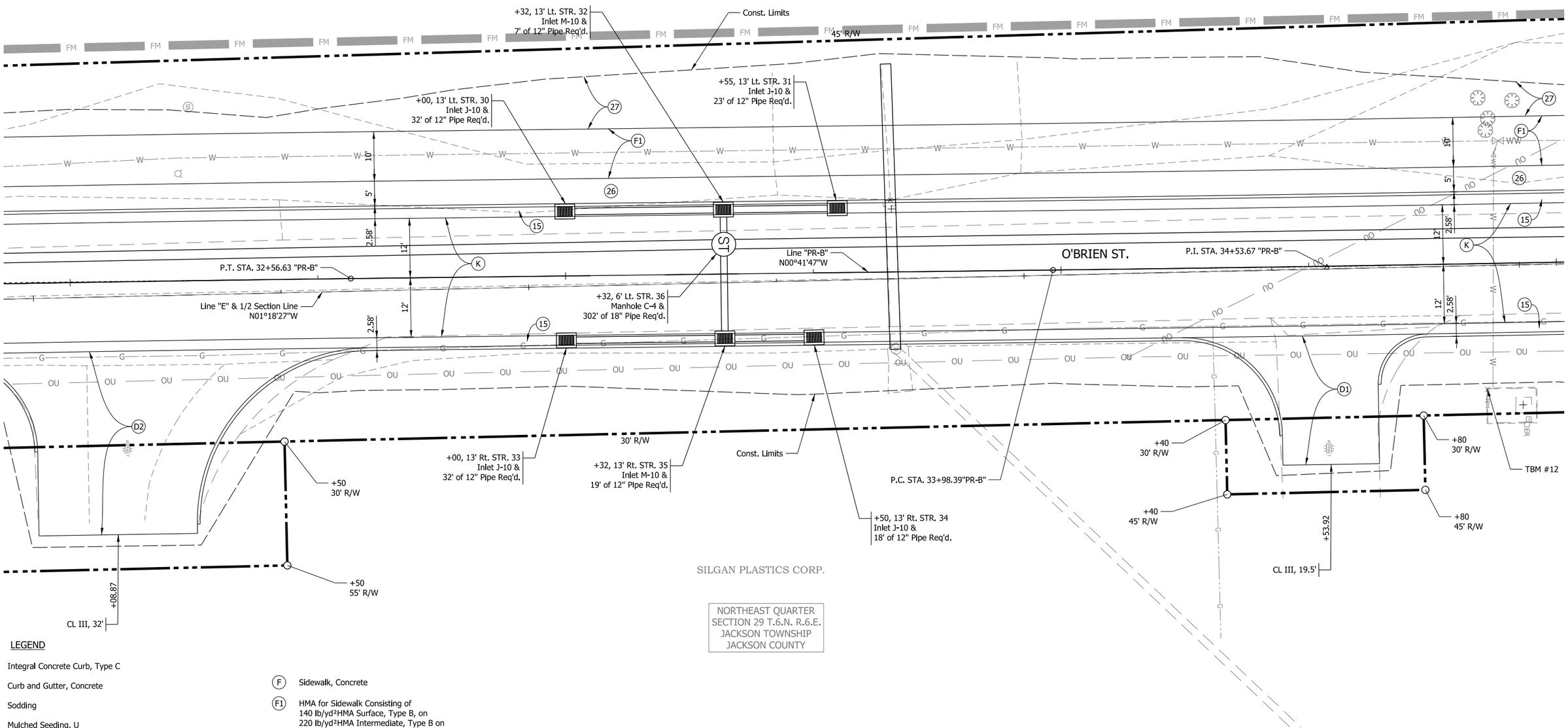

LEGEND

(14)	Integral Concrete Curb, Type C	(F)	Sidewalk, Concrete
(15)	Curb and Gutter, Concrete	(F1)	HMA for Sidewalk Consisting of 140 lb/yd²HMA Surface, Type B, on 220 lb/yd²HMA Intermediate, Type B on 6" Compacted Aggregate No. 53, Base on Subgrade Treatment Type III, Underdrain
(26)	Sodding		
(27)	Mulched Seeding, U		
(C)	HMA for Approaches, Type B: 165 #/SY HMA Surface, Type B on 275 #/SY HMA Intermediate, Type B on 440 #/SY HMA Base, Type B on 3" Compacted Aggregate, No. 53	(K)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on 275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on 440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, IBC
(D1)	PCCP For Approaches, 6 in. on Dense Graded Subbase, 6 in. on Subgrade Treatment Type II	(R)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on Milling, Asphalt 1 ½ in.
(D2)	PCCP for Approaches, 9 in. on Dense Graded Subbase, 6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II		

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

gai consultants

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	38 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:05/15/25 10:25:38 By: HuynhKT Pen: Transportation.tbl Model:Sheet 5

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35+00

36+00

NORTHWEST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

37+00

38+00

RUST FARMS, LLC

CURVE # 6
PI = 36+23.89
Delta = 1°41'01" LT
D = 0°49'07"
R = 7000.00'
T = 102.85'
L = 205.68'
E = 0.76'
SE = Normal Crown

+27, 13' Lt. STR. 37
Inlet J-10 &
7' of 12" Pipe Req'd.

+00
50' LT.

P.T. STA. 35+08.94 "PR-B"

PROP. R/W

PROP. R/W

+27, 6' Lt. STR. 39
Manhole C-4 &
195' of 18" Pipe Req'd.

+75, 13' Lt. STR. 40
Inlet J-10 &
7' of 12" Pipe Req'd.

+05, 6' Lt. STR. 43
Manhole C-4 &
30' of 12" Pipe Req'd.

+75, 6' Lt. STR. 41
Manhole C-4 &
148' of 18" Pipe Req'd.

P.T. STA. 37+26.72 "PR-B"

P.I. STA. 36+23.89 "PR-B"

Line "PR-B"
N02°48'07"W

Line "PR-B"
N01°07'07"W

Line "E" & 1/2 Section Line
N01°18'27"W

O'BRIEN ST.

P.C. STA. 37+44.18 "PR-B"

THE CITY OF SEYMOUR

Ex. R/W

30' R/W

+70
30' RT.

+85
30' RT.

+PL
30' RT.

30' R/W

+27, 13' Rt. STR. 38
Inlet J-10 &
19' of 12" Pipe Req'd.

P.C. STA. 35+21.05 "PR-B"

+05, 13' Rt. STR. 42
Inlet J-10 &
19' of 12" Pipe Req'd.

+70
60' RT.

+85
60' RT.

+20.87

CL VII, 59'

SILGAN PLASTICS CORP.

SILCANDO, LLC

APP. PL

NORTHEAST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

LEGEND

(14)	Integral Concrete Curb, Type C	(F)	Sidewalk, Concrete
(15)	Curb and Gutter, Concrete	(F1)	HMA for Sidewalk Consisting of 140 lb/yd²HMA Surface, Type B, on 220 lb/yd²HMA Intermediate, Type B on 6" Compacted Aggregate No. 53, Base on Subgrade Treatment Type III, Underdrain
(26)	Sodding		
(27)	Mulched Seeding, U		
(C)	HMA for Approaches, Type B: 165 #/SY HMA Surface, Type B on 275 #/SY HMA Intermediate, Type B on 440 #/SY HMA Base, Type B on 3" Compacted Aggregate, No. 53	(K)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on 275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on 440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, IBC
(D1)	PCCP For Approaches, 6 in. on Dense Graded Subbase, 6 in. on Subgrade Treatment Type II	(R)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on Milling, Asphalt 1 ½ in.
(D2)	PCCP for Approaches, 9 in. on Dense Graded Subbase, 6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II		

gai consultants

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	39 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:05/15/25 10:25:46 By: HuynhKT Pen: Transportation.tbl Model:Sheet 6

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38+00

39+00

NORTHWEST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

40+00

41+0(

RUST FARMS, LLC

+86, 46' Lt. STR. 44A
Catch Basin E-7 &
33' of 12" Pipe Req'd.

+00
55' LT.

PROP. R/W

PROP. R/W

Const. Limits

+86, 13' Lt. STR. 44
Inlet J-10 &
7' of 12" Pipe Req'd.

+86, 6' Lt. STR. 46
Manhole C-4 &
181' of 12" Pipe Req'd.

Control Point #104

P.T. STA. 39+50.17 "PR-B"

O'BRIEN ST.

Line "PR-B"
N01°06'57"W

Line "E" & 1/2 Section Line
N01°18'27"W

+86, 13' Rt. STR. 45
Inlet J-10 &
19' of 12" Pipe Req'd.

+54.59 (PL)
25' RT. (R/W)

25' R/W

25' R/W

+70
25' RT.

+PL
25' RT.

+00
25' RT.

THE CITY OF SEYMOUR

Ex. R/W

+PL
EX. R/W

+PL
45' RT.

+70
45' RT.

+00
60' RT.

CURVE # 7
PI = 38+47.18
Delta = 1°41'10" RT
D = 0°49'07"
R = 7000.00'
T = 103.00'
L = 205.99'
E = 0.76'
SE = Normal Crown

+48.95

CL I, 10.5'

SILCANDO, LLC

GLENN D. & WANDA S.
MURPHY

8' INGRESS/EGRESS EASEMENT

8' INGRESS/EGRESS EASEMENT

APP. PL.

APP. PL.

NORTHEAST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

LEGEND

(14) Integral Concrete Curb, Type C

(15) Curb and Gutter, Concrete

(26) Sodding

(27) Mulched Seeding, U

(C) HMA for Approaches, Type B:
165 #/SY HMA Surface, Type B on
275 #/SY HMA Intermediate, Type B on
440 #/SY HMA Base, Type B on
3" Compacted Aggregate, No. 53

(D1) PCCP For Approaches, 6 in. on Dense Graded Subbase,
6 in. on Subgrade Treatment Type II

(D2) PCCP For Approaches, 9 in. on Dense Graded Subbase,
6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II

(F) Sidewalk, Concrete

(F1) HMA for Sidewalk Consisting of
140 lb/yd²HMA Surface, Type B, on
220 lb/yd²HMA Intermediate, Type B on
6" Compacted Aggregate No. 53, Base on
Subgrade Treatment Type III, Underdrain

(K) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on
440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
4" Compacted Aggregate, No. 53, on
Subgrade Treatment, IBC

(R) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
Milling, Asphalt 1 ½ in.

gai consultants

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694

SURVEY BOOK	SHEETS		
	40	of	91
CONTRACT	PROJECT		
R-44298	2101694		

Plot:05/15/25 10:25:51 By: HuynhKT Pen: Transportation.tbl Model:Sheet 7

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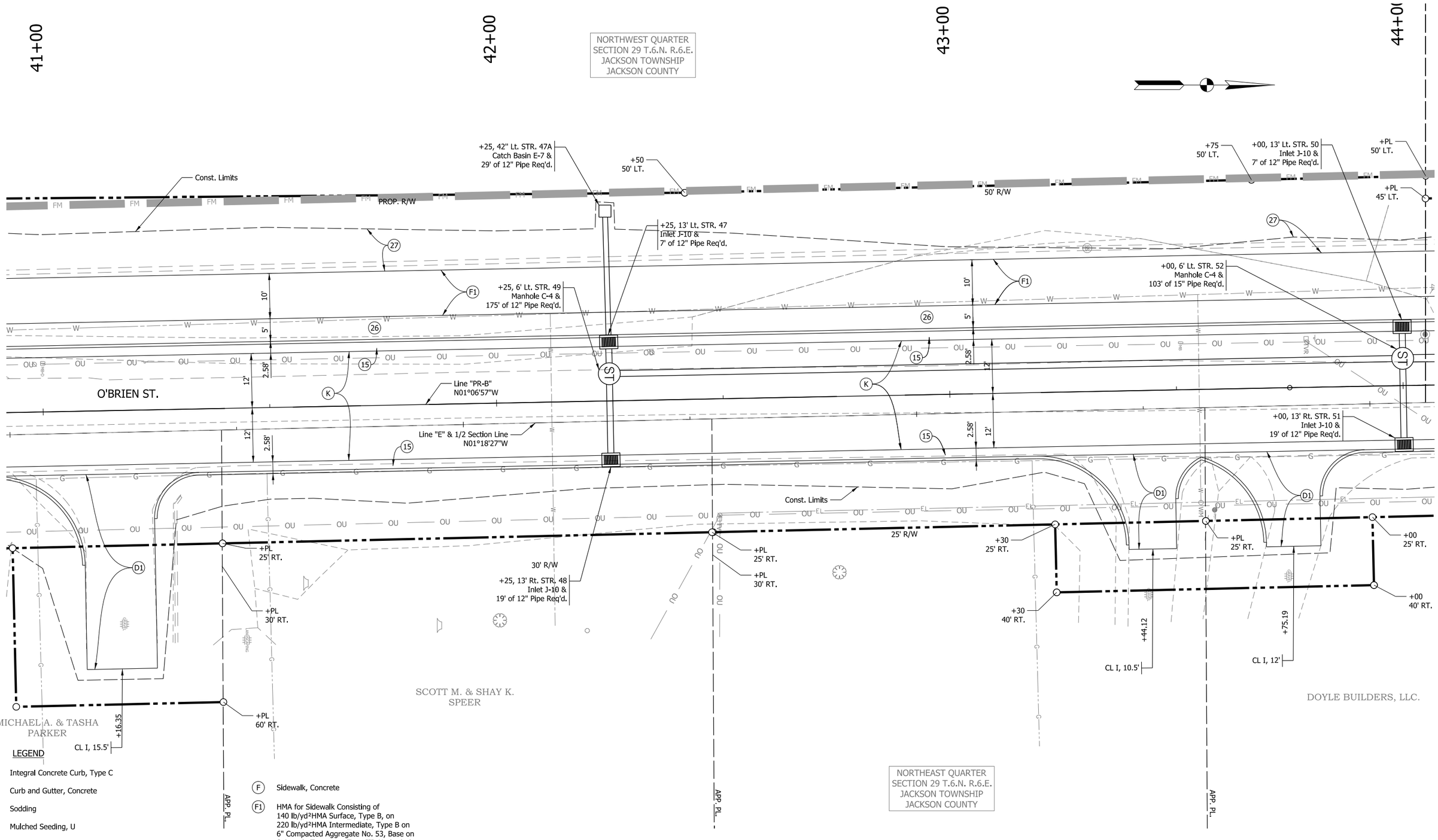

LEGEND

(14)	Integral Concrete Curb, Type C	(F)	Sidewalk, Concrete
(15)	Curb and Gutter, Concrete	(F1)	HMA for Sidewalk Consisting of 140 lb/yd²HMA Surface, Type B, on 220 lb/yd²HMA Intermediate, Type B on 6" Compacted Aggregate No. 53, Base on Subgrade Treatment Type III, Underdrain
(26)	Sodding		
(27)	Mulched Seeding, U		
(C)	HMA for Approaches, Type B: 165 #/SY HMA Surface, Type B on 275 #/SY HMA Intermediate, Type B on 440 #/SY HMA Base, Type B on 3" Compacted Aggregate, No. 53	(K)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on 275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on 440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, IBC
(D1)	PCCP For Approaches, 6 in. on Dense Graded Subbase, 6 in. on Subgrade Treatment Type II		
(D2)	PCCP for Approaches, 9 in. on Dense Graded Subbase, 6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II	(R)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on Milling, Asphalt 1 ½ in.

gai consultants

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	41 of 91
CONTRACT	PROJECT
R-44298	2101694

Model:Sheet 8 Pen: Transportation.tbl By: HuynhKT 10:26:00 Plot:05/15/25

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44+00

45+00

46+00

47+00

NORTHWEST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

RUST FARMS, LLC

CURVE # 8
PI = 44+77.54
Delta = 1°07'09" RT
D = 0°32'44"
R = 10500.00'
T = 102.55'
L = 205.10'
E = 0.50'
SE = Normal Crown

SOUTHWEST QUARTER
SECTION 20 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

RUST FARMS, LLC

Section Line & App. PL

CL III, 10'

+72.10

+70
55' LT.

+90
55' LT.

+70
45' LT.

+90
45' LT.

+58, 39' Lt. STR. 50B
Catch Basin E-7 &
33' of 12" Pipe Req'd.

+PL
50' LT.

+PL
45' LT.

+PL
45' LT.

45' R/W

EQUATION:
P.O.T. STA. 46+45.35 "PR-B"=
P.O.T. STA. 28+52.74 "E"

+88, 13' Lt. STR. 58
Inlet M-10 &
7' of 12" Pipe Req'd.

+88, 6' Lt. STR. 63
Manhole C-4 &
332' of 18" Pipe Req'd.

Const. Limits

+03, 13' Lt. STR. 53
Inlet J-10 &
7' of 12" Pipe Req'd.

+00, 13' Lt. STR. 56
Inlet J-10 &
88' of 12" Pipe Req'd.

BEGIN TAPER
STA. 47+00 "PR-B"
12' RT.

+03, 6' Lt. STR. 55
Manhole C-4 &
185' of 18" Pipe Req'd.

P.I. STA. 44+77.54 "PR-B"

P.T. STA. 45+80.09"PR-B"

Line "E" & 1/2 Section Line
N01°13'15"W

Line "PR-B"
N00°00'12"E

Line "E" & 1/2 Section Line
N01°18'27"W

+03, 13' Rt. STR. 54
Inlet J-10 &
19' of 12" Pipe Req'd.

Line "E" & 1/2 Section Line
N01°13'15"W

+54, 13' Rt. STR. 59
Inlet J-10 &
34' of 12" Pipe Req'd.

Const. Limits

+88, 13' Rt. STR. 62
Inlet M-10 &
19' of 12" Pipe Req'd.

Ex. R/W

+25, 25' Rt. STR. 61
Inlet P-12 &
12' of 12" Pipe Req'd.

BEGIN TAPER
STA. 47+00 "PR-B"
12' RT.

TBM #13

25' R/W

+00
25' RT.

+00
40' RT.

+80
25' RT.

+80
40' RT.

+PL
25' RT.

+PL
40' RT.

+90.48

+69.67

CL III, 10.5'

CL VII, 47.2'

Section Line & App. PL

DOYLE BUILDERS, INC.

NORTHEAST QUARTER
SECTION 29 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

SOUTHEAST QUARTER
SECTION 20 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

SILCANDO, LLC

LEGEND

(14)	Integral Concrete Curb, Type C	(F)	Sidewalk, Concrete
(15)	Curb and Gutter, Concrete	(F1)	HMA for Sidewalk Consisting of 140 lb/yd²HMA Surface, Type B, on 220 lb/yd²HMA Intermediate, Type B on 6" Compacted Aggregate No. 53, Base on Subgrade Treatment Type III, Underdrain
(26)	Sodding		
(27)	Mulched Seeding, U		
(C)	HMA for Approaches, Type B: 165 #/SY HMA Surface, Type B on 275 #/SY HMA Intermediate, Type B on 440 #/SY HMA Base, Type B on 3" Compacted Aggregate, No. 53	(K)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on 275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on 440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, IBC
(D1)	PCCP For Approaches, 6 in. on Dense Graded Subbase, 6 in. on Subgrade Treatment Type II	(R)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on Milling, Asphalt 1 ½ in.
(D2)	PCCP for Approaches, 9 in. on Dense Graded Subbase, 6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II		

gai consultants

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLZ | DRAWN: KTH

CHECKED: BWC | CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	42 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:05/15/25 10:26:09 By: HuynhKT Pen: Transportation.tbl Model:Sheet 9

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47+00

48+00

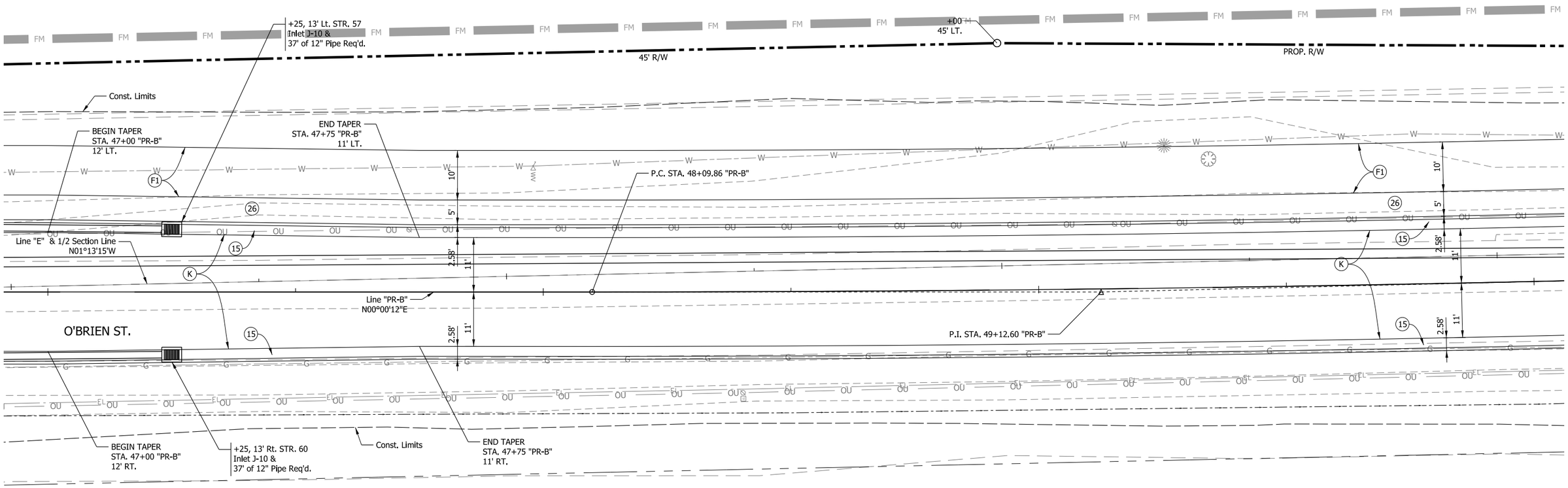
49+00

50+00

SOUTHWEST QUARTER
SECTION 20 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

CURVE # 9
PI = 49+12.60
Delta = 1°23'06" LT
D = 0°40'27"
R = 8500.00'
T = 102.74'
L = 205.46'
E = 0.62'
SE = Normal Crown

RUST FARMS, LLC



SILCANDO, LLC

SOUTHEAST QUARTER
SECTION 20 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

LEGEND

(14) Integral Concrete Curb, Type C

(15) Curb and Gutter, Concrete

(26) Sodding

(27) Mulched Seeding, U

(C) HMA for Approaches, Type B:
165 #/SY HMA Surface, Type B on
275 #/SY HMA Intermediate, Type B on
440 #/SY HMA Base, Type B on
3" Compacted Aggregate, No. 53

(D1) PCCP For Approaches, 6 in. on Dense Graded Subbase,
6 in. on Subgrade Treatment Type II

(D2) PCCP for Approaches, 9 in. on Dense Graded Subbase,
6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II

(F) Sidewalk, Concrete

(F1) HMA for Sidewalk Consisting of
140 lb/yd²HMA Surface, Type B, on
220 lb/yd²HMA Intermediate, Type B on
6" Compacted Aggregate No. 53, Base on
Subgrade Treatment Type III, Underdrain

(K) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on
440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
4" Compacted Aggregate, No. 53, on
Subgrade Treatment, IBC

(R) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
Milling, Asphalt 1 ½ in.

gai consultants

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH
CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	43 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:05/15/25 10:26:20 By: HuynhKT Pen: Transportation.tbl Model:Sheet 10

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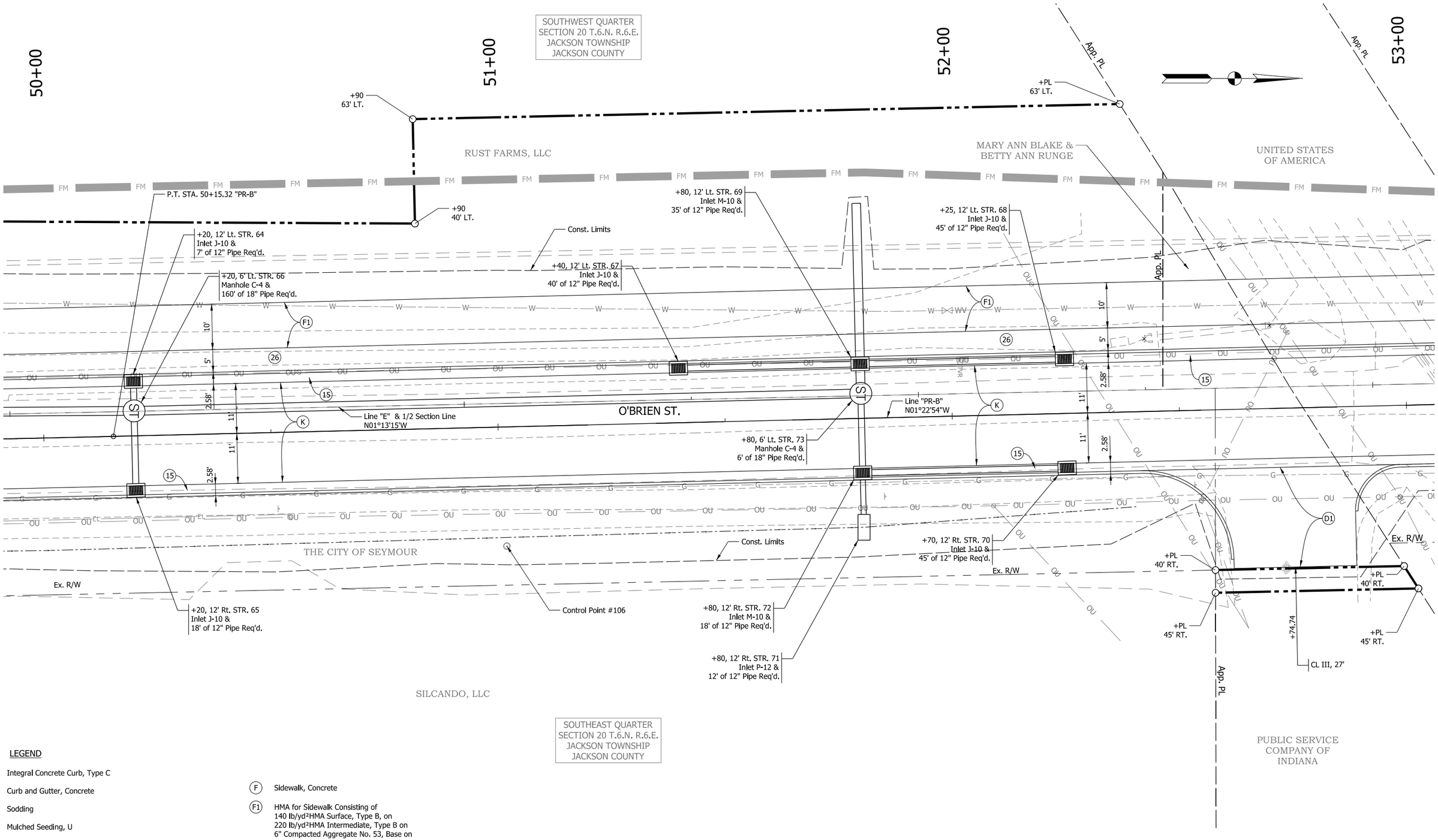

LEGEND

(14)	Integral Concrete Curb, Type C	(F)	Sidewalk, Concrete
(15)	Curb and Gutter, Concrete	(F1)	HMA for Sidewalk Consisting of 140 lb/yd²HMA Surface, Type B, on 220 lb/yd²HMA Intermediate, Type B on 6" Compacted Aggregate No. 53, Base on Subgrade Treatment Type III, Underdrain
(26)	Sodding		
(27)	Mulched Seeding, U		
(C)	HMA for Approaches, Type B: 165 #/SY HMA Surface, Type B on 275 #/SY HMA Intermediate, Type B on 440 #/SY HMA Base, Type B on 3" Compacted Aggregate, No. 53	(K)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on 275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on 440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, IBC
(D1)	PCCP For Approaches, 6 in. on Dense Graded Subbase, 6 in. on Subgrade Treatment Type II		
(D2)	PCCP for Approaches, 9 in. on Dense Graded Subbase, 6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II	(R)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on Milling, Asphalt 1 ½ in.

gai consultants

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	44 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:05/15/25 10:26:30 By: HuynhKT Pen: Transportation.tbl Model:Sheet 11

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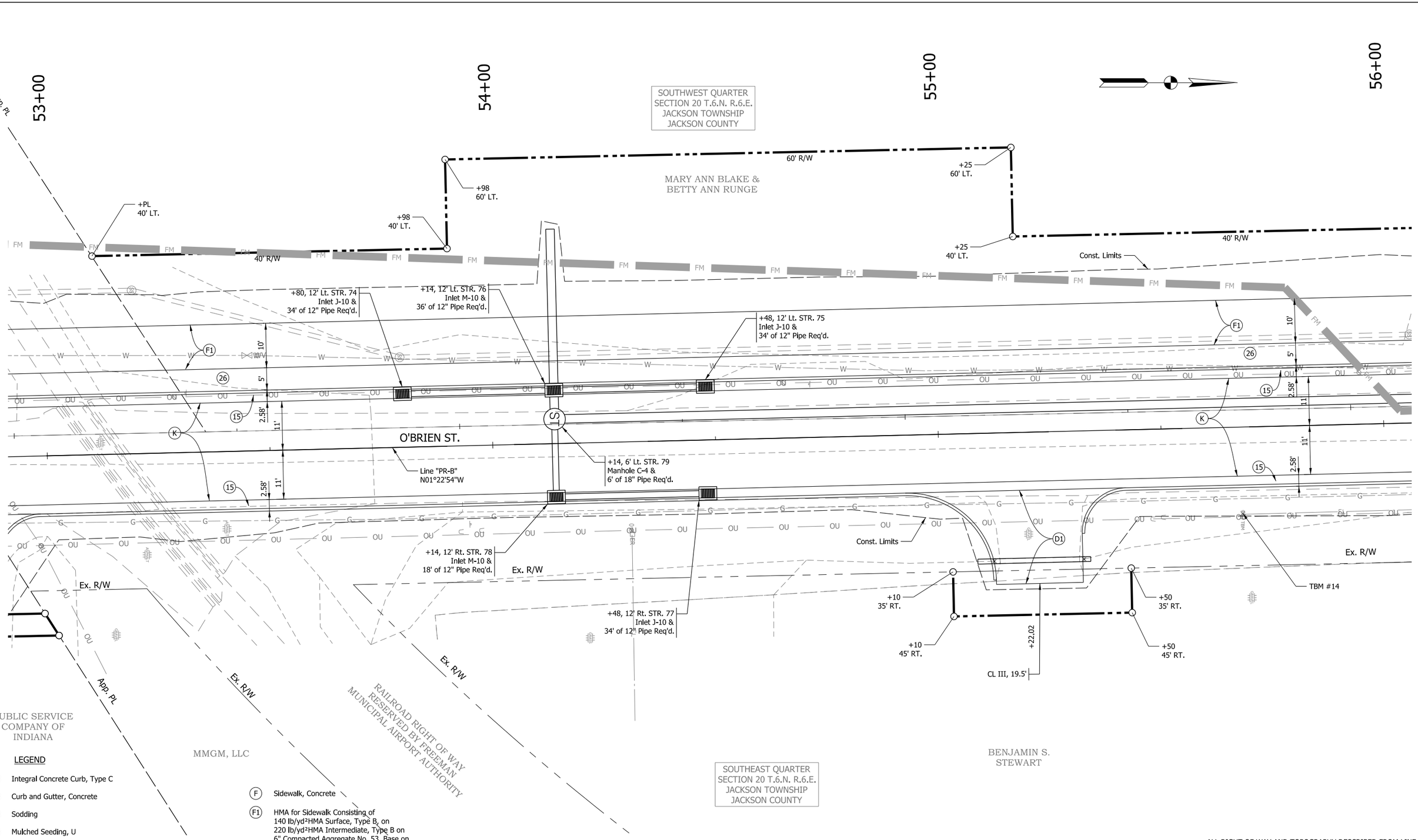

LEGEND

(14)	Integral Concrete Curb, Type C	(F)	Sidewalk, Concrete
(15)	Curb and Gutter, Concrete	(F1)	HMA for Sidewalk Consisting of 140 lb/yd²HMA Surface, Type B, on 220 lb/yd²HMA Intermediate, Type B on 6" Compacted Aggregate No. 53, Base on Subgrade Treatment Type III, Underdrain
(26)	Sodding		
(27)	Mulched Seeding, U		
(C)	HMA for Approaches, Type B: 165 #/SY HMA Surface, Type B on 275 #/SY HMA Intermediate, Type B on 440 #/SY HMA Base, Type B on 3" Compacted Aggregate, No. 53	(K)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on 275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on 440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, IBC
(D1)	PCCP For Approaches, 6 in. on Dense Graded Subbase, 6 in. on Subgrade Treatment Type II	(R)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on Milling, Asphalt 1 ½ in.
(D2)	PCCP for Approaches, 9 in. on Dense Graded Subbase, 6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II		

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

gai consultants

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	SCALE 1" = 10' / BRIDGE FILE
DESIGNED: JLZ / DRAWN: KTH	CONSTRUCTION DETAILS LINES "E" & "PR-B"	DESIGNATION 2101694
CHECKED: BWC / CHECKED: BWC		SURVEY BOOK / SHEETS 45 of 91
		CONTRACT R-44298 / PROJECT 2101694

Plot:05/15/25 10:26:38 By: HuynhKT Pen: Transportation.tbl Model:Sheet 12

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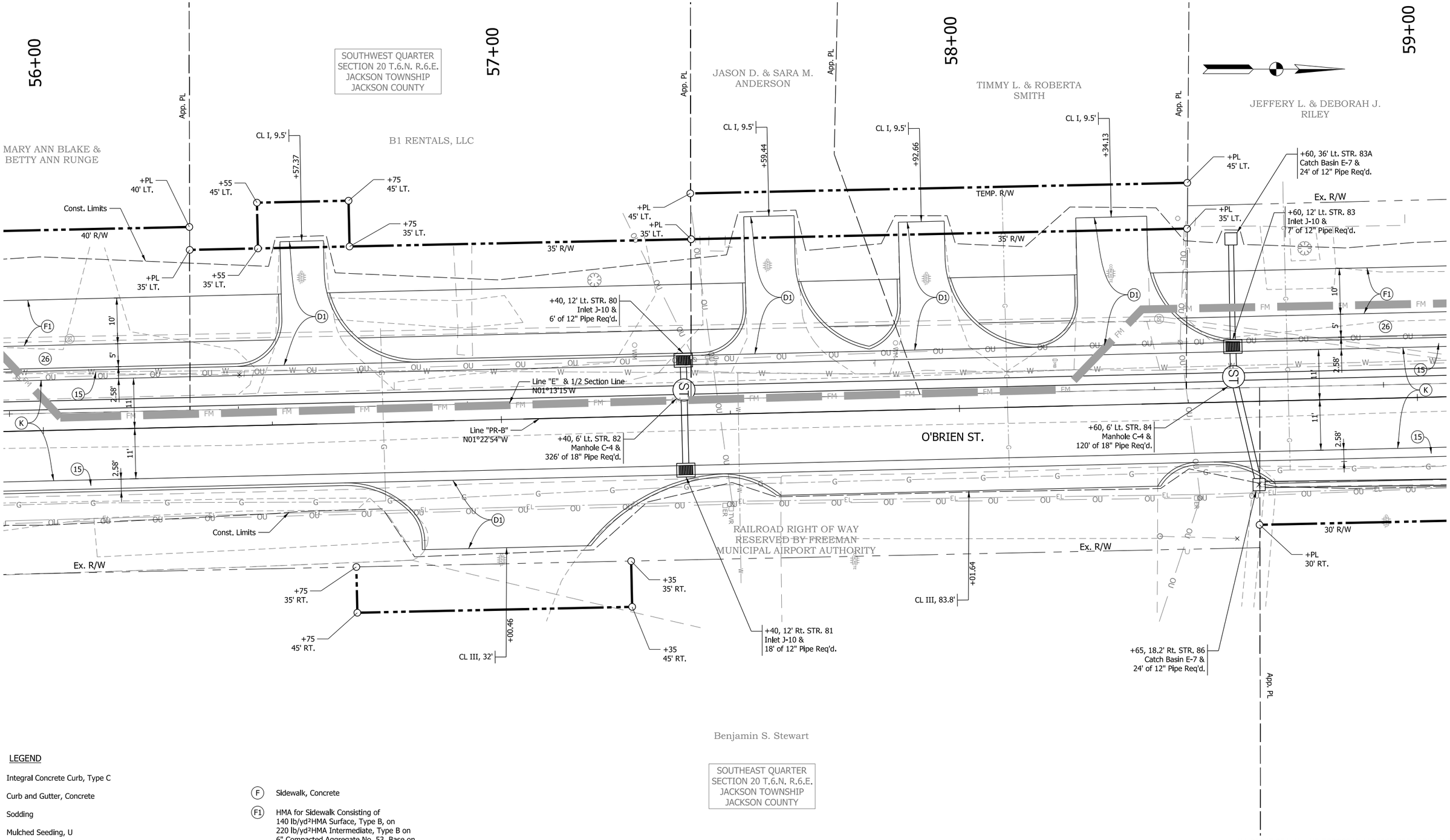

Benjamin S. Stewart

SOUTHEAST QUARTER
SECTION 20 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

LEGEND

(14)	Integral Concrete Curb, Type C	(F)	Sidewalk, Concrete
(15)	Curb and Gutter, Concrete	(F1)	HMA for Sidewalk Consisting of 140 lb/yd²HMA Surface, Type B, on 220 lb/yd²HMA Intermediate, Type B on 6" Compacted Aggregate No. 53, Base on Subgrade Treatment Type III, Underdrain
(26)	Sodding		
(27)	Mulched Seeding, U		
(C)	HMA for Approaches, Type B: 165 #/SY HMA Surface, Type B on 275 #/SY HMA Intermediate, Type B on 440 #/SY HMA Base, Type B on 3" Compacted Aggregate, No. 53	(K)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on 275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on 440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on 4" Compacted Aggregate, No. 53, on Subgrade Treatment, IBC
(D1)	PCCP For Approaches, 6 in. on Dense Graded Subbase, 6 in. on Subgrade Treatment Type II	(R)	165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on Milling, Asphalt 1 ½ in.
(D2)	PCCP for Approaches, 9 in. on Dense Graded Subbase, 6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II		

gai consultants

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	46 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:05/15/25 10:26:46 By: HuynhKT Pen: Transportation.tbl Model:Sheet 13

c:\bms\gai-prod\k.huynh\dms19236\R220413.00 Construction Details.dgn

59+00

60+00

61+00

62+00

JEFFERY L. & DEBORAH J. RILEY

FRANCIS W. CLARK

HIRAM D. & GLENDA K. BURTON

E. FREEMAN AVE.

15.73'

12.17'

App. PL

+46.01

CL 1, 27.1'

+PL 35' LT.

+50, 12' Lt. STR. 88
Inlet J-10 &
25' of 12" Pipe Req'd.

Ex. R/W

Control Point #108

+25, 12' Lt. STR. 87
Inlet J-10 &
25' of 12" Pipe Req'd.

Line "S-1-B"
S89°56'37"E

+28, 12' Lt. STR. 92
Inlet J-10 &
24' of 12" Pipe Req'd.

Const. Limits

35' R/W

+PL 35' LT.

61+56.03 "PR-B"
Lt. 18.5830

+97, 12' Lt. STR. 98
Inlet M-10 &
23' of 12" Pipe Req'd.

BEGIN TAPER
STA. 61+56.03 "PR-B"
18.58' LT.

+75, 12' Lt. STR. 96
Inlet J-10 &
22' of 12" Pipe Req'd.

+50, 5.5' LT. STR. 89
MANHOLE C-4 &
90' of 15" Pipe Req'd.

Line "E" & 1/2 Section Line
N01°31'15"W

O'BRIEN ST.

Line "PR-B"
N01°31'21"W

P.T. STA. 60+64.24 "PR-B"

P.C. STA. 61+92.69 "PR-B"

Const. Limits

30' R/W

+50, 12' Rt. STR. 95
Inlet M-10 &
18' of 12" Pipe Req'd.

+71, 12' Rt. STR. 91
Inlet M-10 &
43' of 12" Pipe Req'd.

+72.91

CL III, 410.3'

+33.8, 18.9' Rt. STR. 85
Catch Basin E-7 &
69' of 12" Pipe Req'd.

+68.3, 12' Rt. STR. 94
Inlet M-10 &
18' of 12" Pipe Req'd.

+28, 12' Rt. STR. 90
Catch Basin E-7 &
12' of 12" Pipe Req'd.

+97, 12' Rt. STR. 97
Inlet M-10 &
24' of 12" Pipe Req'd.

P.C. STA. 59+44.25 "PR-B"

EQUATION:
P.O.C. STA. 59+85.19 "PR-B" =
P.O.T. STA. 10+00.00 "S-1-B"

P.I. STA. 60+04.24 "PR-B"

+28, 12' Rt. STR. 93
Inlet M-10 &
60' of 12" Pipe Req'd.

CURVE # 10
PI = 60+04.24
Delta = 0°51'34" RT
D = 0°42'58"
R = 8000.00'
T = 60.00'
L = 119.99'
E = 0.22'
SE = Normal Crown

MMGM, LLC

SOUTHEAST QUARTER
SECTION 20 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

LEGEND

(14) Integral Concrete Curb, Type C

(15) Curb and Gutter, Concrete

(26) Sodding

(27) Mulched Seeding, U

(C) HMA for Approaches, Type B:
165 #/SY HMA Surface, Type B on
275 #/SY HMA Intermediate, Type B on
440 #/SY HMA Base, Type B on
3" Compacted Aggregate, No. 53

(D1) PCCP For Approaches, 6 in. on Dense Graded Subbase,
6 in. on Subgrade Treatment Type II

(D2) PCCP for Approaches, 9 in. on Dense Graded Subbase,
6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II

(F) Sidewalk, Concrete

(F1) HMA for Sidewalk Consisting of
140 lb/yd²HMA Surface, Type B, on
220 lb/yd²HMA Intermediate, Type B on
6" Compacted Aggregate No. 53, Base on
Subgrade Treatment Type III, Underdrain

(K) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on
440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
4" Compacted Aggregate, No. 53, on
Subgrade Treatment, IBC

(R) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
Milling, Asphalt 1 ½ in.

gai consultants

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E", "PR-B" & "S-1-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	47 of 91
CONTRACT	PROJECT
R-44298	2101694

Model:Sheet 14
Pen: Transportation.tbl
By: HuynhKT
10:26:55
Plot:05/15/25

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62+00

63+00

64+00

65+00

HIRAM D. BURTON

AMANDA L. MURPHY

SOUTHWEST QUARTER
SECTION 20 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

QWEST COMMUNICATIONS CORPORATION

CURVE # 11
PI = 62+66.89
Delta = 1°03'46" LT
D = 0°42'58"
R = 8000.00'
T = 74.20'
L = 148.40'
E = 0.34'
SE = Normal Crown

CL I, 17'

+PL
50' LT. "E"

+PL
70' LT. "E"

App. PL

PROP. R/W

S. PARK DR.

11'

10.7'

+PL
40' LT.

40' R/W

P.C. STA. 61+92.69 "PR-B"

+50
50' LT.

35' R/W

Const. Limits

+20, 12' Lt. STR. 100
Inlet M-10 &
145' of 12" Pipe Req'd.

Line "S-2-B"
S23°25'15"E

+70, 12' Lt. STR. 101
Inlet J-10
15' of 12" Pipe Req'd.

O'BRIEN ST.

Line "E" & 1/2 Section Line
N01°13'15"W

Line "PR-B"
N01°35'07"W

6'

2.58'

11'

P.I. STA. 62+66.89 "PR-B"

+20, 12' Rt. STR. 99
Inlet J-10 &
24' of 12" Pipe Req'd.

EQUATION:
P.O.C. STA. 62+32.93 "PR-B" =
P.O.T. STA. 10+00.00 "S-2-B"

30' R/W

+PL
30' RT.

P.T. STA. 63+41.08 "PR-B"

UNKNOWN OWNER

MMGM, LLC

PARKLAND INC.

LEGEND

(14) Integral Concrete Curb, Type C

(15) Curb and Gutter, Concrete

(26) Sodding

(27) Mulched Seeding, U

(C) HMA for Approaches, Type B:
165 #/SY HMA Surface, Type B on
275 #/SY HMA Intermediate, Type B on
440 #/SY HMA Base, Type B on
3" Compacted Aggregate, No. 53

(D1) PCCP For Approaches, 6 in. on Dense Graded Subbase,
6 in. on Subgrade Treatment Type II

(D2) PCCP for Approaches, 9 in. on Dense Graded Subbase,
6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II

(F) Sidewalk, Concrete

(F1) HMA for Sidewalk Consisting of
140 lb/yd²HMA Surface, Type B, on
220 lb/yd²HMA Intermediate, Type B on
6" Compacted Aggregate No. 53, Base on
Subgrade Treatment Type III, Underdrain

(K) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on
440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
4" Compacted Aggregate, No. 53, on
Subgrade Treatment, IBC

(R) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
Milling, Asphalt 1 ½ in.

SOUTHEAST QUARTER
SECTION 20 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

gai consultants

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E", "PR-B" & "S-2-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	48 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:05/15/25 10:27:04 By: HuynhKT Pen: Transportation.tbl Model:Sheet 15

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65+00

66+00

SOUTHWEST QUARTER
SECTION 20 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

QWEST COMMUNICATIONS
CORPORATION

GARRY L. & SANDRA K.
BOBB

App. PL

+PL
40' LT.

40' R/W

Const. Limits

END PROJECT:
P.O.T. STA. 66+17.29 "PR-B"

F

FO

Line "E" & Section Line
N01°13'15'W

K

15

2.58'

11'

Line "PR-B"
N01°35'07'W

O'BRIEN ST.

TBM #15

Const. Limits

Control Point #109

SOUTHEAST QUARTER
SECTION 20 T.6.N. R.6.E.
JACKSON TOWNSHIP
JACKSON COUNTY

PARKLAND INC.

VILLAGE CIRCLE AVENUE

ALL RIGHT OF WAY AND TOPOGRAPHY DESCRIBED FROM LINE "E"
LINE "PR-B" TO BE CONSTRUCTED

LEGEND

(14) Integral Concrete Curb, Type C

(15) Curb and Gutter, Concrete

(26) Sodding

(27) Mulched Seeding, U

(C) HMA for Approaches, Type B:
165 #/SY HMA Surface, Type B on
275 #/SY HMA Intermediate, Type B on
440 #/SY HMA Base, Type B on
3" Compacted Aggregate, No. 53

(D1) PCCP For Approaches, 6 in. on Dense Graded Subbase,
6 in. on Subgrade Treatment Type II

(D2) PCCP for Approaches, 9 in. on Dense Graded Subbase,
6 in. on Geogrid Type 1B, on Subgrade Treatment, Type II

(F) Sidewalk, Concrete

(F1) HMA for Sidewalk Consisting of
140 lb/yd²HMA Surface, Type B, on
220 lb/yd²HMA Intermediate, Type B on
6" Compacted Aggregate No. 53, Base on
Subgrade Treatment Type III, Underdrain

(K) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
275 #/SY QC/QA HMA 2, 58S, Intermediate, 19.0mm on
440 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
330 #/SY QC/QA HMA 2, 58S, Base, 19.0mm on
4" Compacted Aggregate, No. 53, on
Subgrade Treatment, IBC

(R) 165 #/SY QC/QA HMA 2, 58S, Surface, 9.5mm on
Milling, Asphalt 1 ½ in.

gai consultants

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH

CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
LINES "E" & "PR-B"

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694

SURVEY BOOK	SHEETS
	49 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:05/15/25 10:27:17 By: HuynhKT Pen: Transportation.tbl Model:Sheet 16

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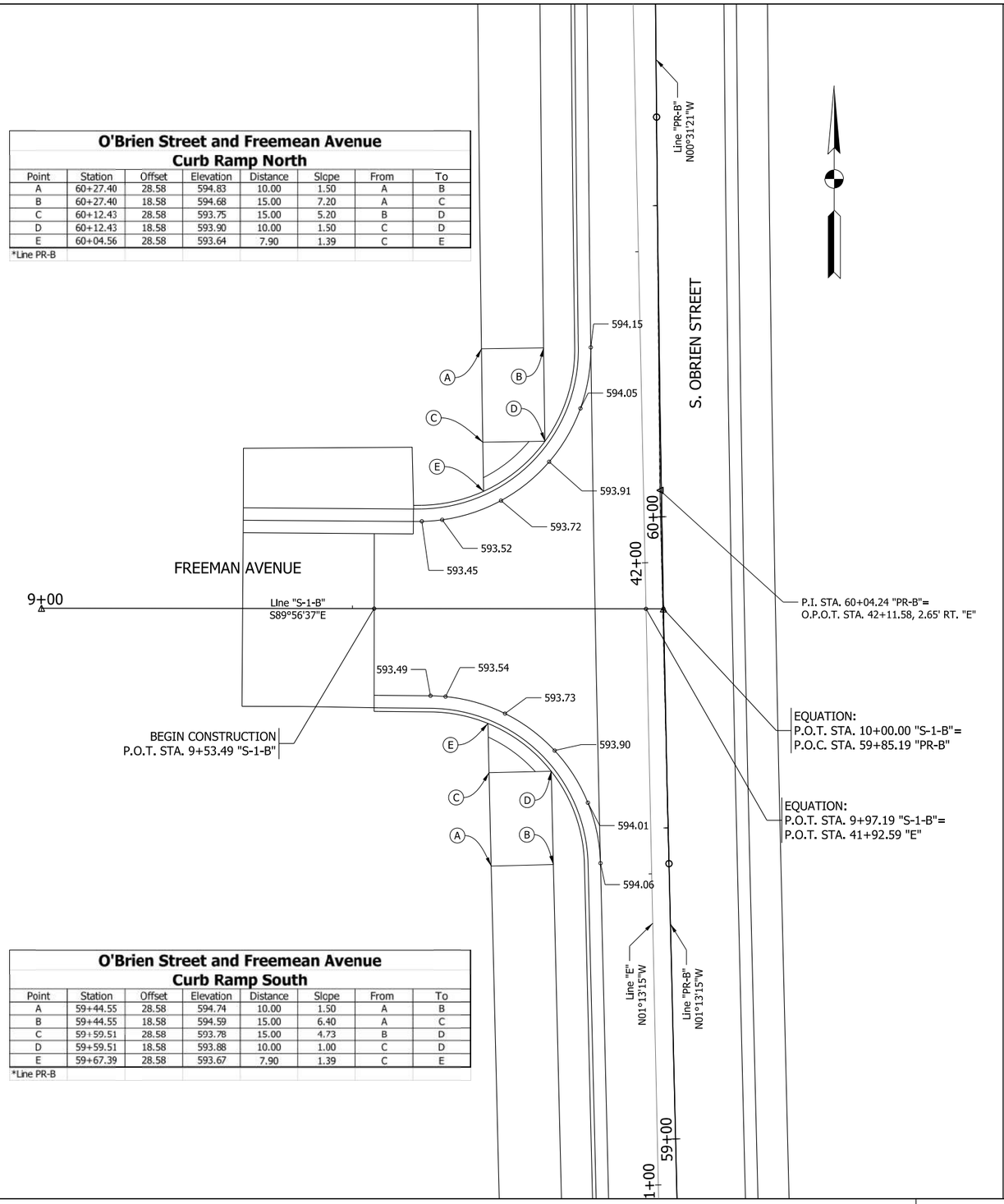
O'Brien Street and Freeman Avenue
Curb Ramp North

Point	Station	Offset	Elevation	Distance	Slope	From	To
A	60+27.40	28.58	594.83	10.00	1.50	A	B
B	60+27.40	18.58	594.68	15.00	7.20	A	C
C	60+12.43	28.58	593.75	15.00	5.20	B	D
D	60+12.43	18.58	593.90	10.00	1.50	C	D
E	60+04.56	28.58	593.64	7.90	1.39	C	E

*Line PR-B



O'Brien Street and Freeman Avenue
Curb Ramp South

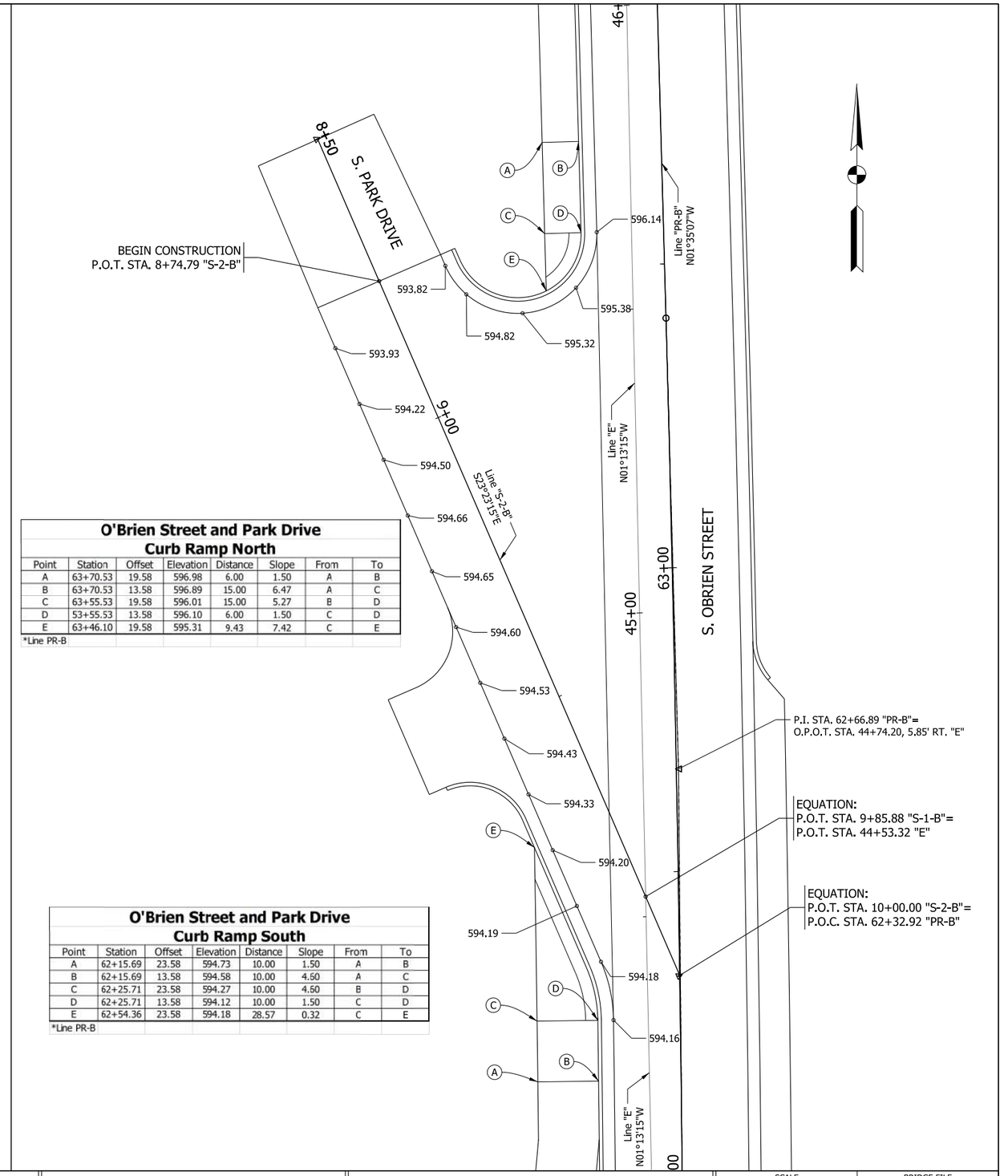
Point	Station	Offset	Elevation	Distance	Slope	From	To
A	59+44.55	28.58	594.74	10.00	1.50	A	B
B	59+44.55	18.58	594.59	15.00	6.40	A	C
C	59+59.51	28.58	593.78	15.00	4.73	B	D
D	59+59.51	18.58	593.88	10.00	1.00	C	D
E	59+67.39	28.58	593.67	7.90	1.39	C	E

*Line PR-B

O'Brien Street and Park Drive
Curb Ramp North

Point	Station	Offset	Elevation	Distance	Slope	From	To
A	63+70.53	19.58	596.98	6.00	1.50	A	B
B	63+70.53	13.58	596.89	15.00	6.47	A	C
C	63+55.53	19.58	596.01	15.00	5.27	B	D
D	53+55.53	13.58	596.10	6.00	1.50	C	D
E	63+46.10	19.58	595.31	9.43	7.42	C	E

*Line PR-B



O'Brien Street and Park Drive
Curb Ramp South

Point	Station	Offset	Elevation	Distance	Slope	From	To
A	62+15.69	23.58	594.73	10.00	1.50	A	B
B	62+15.69	13.58	594.58	10.00	4.60	A	C
C	62+25.71	23.58	594.27	10.00	4.60	B	D
D	62+25.71	13.58	594.12	10.00	1.50	C	D
E	62+54.36	23.58	594.18	28.57	0.32	C	E

*Line PR-B

gai consultants

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: JLZ DRAWN: KTH
CHECKED: BWC CHECKED: BWC

INDIANA
DEPARTMENT OF TRANSPORTATION

CURB RAMP AND SPOT ELEVATION DETAILS

SCALE	BRIDGE FILE
1" = 10'	
	DESIGNATION
	2101694
SURVEY BOOK	SHEETS
	50 of 91
CONTRACT	PROJECT
R-44298	2101694

Plot:4/23/2025 10:10:08 AM By: HuynhKT Pen: Transportation.tbl Model:Sheet 1

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Appendix C

Early Coordination

GAI Indiana offices located in:
Fishers, Fort Wayne, Indianapolis, and Vevay

January 22, 2024

David Dye
INDOT Seymour District
Environmental Section Manager
DDye@indot.in.gov

Early Coordination Letter
Des 2101694, Road Project on Bristol Ave, O'Brien Street, from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue in Seymour, Jackson County, Indiana

Dear Interested Party:

The City of Seymour, with federal funding, intends to proceed with a project involving Road reconstruction with the addition of a shared-use path in Jackson County. This letter is part of the early coordination phase of the environmental review process. Therefore, we request comments from your area of expertise regarding any possible environmental effects associated with this project. **Please use the above designation numbers and description in your reply.** We will incorporate your comments into a study of the project's environmental impacts.

This project is located on O'Brien Street, from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue, approximately 0.91 mile, in Seymour, Jackson County, Indiana. This section of O'Brien Street is classified as an Urban Minor Arterial roadway that runs north/south through the project area and consists of two 11 foot-wide travel lanes with no usable shoulders. The purpose is to improve pedestrian mobility and address pavement deteriorations. The approximate existing right-of-way is 40' each side of the centerline.

The proposed project is anticipated to reconstruct the roadway and include a combined curb and gutter on O'Brien Street. The scope will include 11-foot wide travel lanes with a 2-foot curb and gutter shoulder. The scope will include constructing a new 10-foot multi-use path along the west side of the street, providing improved storm sewers, and installing lighting. In addition, it is anticipated that all intersecting public roads, alleys, and drive approaches will be reconstructed to the extent necessary to provide adequate radii and tie into the new O'Brien Street edge of the pavement. The project requires the acquisition of 3.6 acres of permanent right-of-way and 0.1 acre of temporary right-of-way. The project will be 0.83 mile in length. The proposed method of traffic maintenance is anticipated to require an official detour. This project will have tree clearing along the roadway. The project is anticipated to begin construction in April of 2027.

Land use in the vicinity of the project is predominantly agricultural and includes residential, and industrial within city limits. GAI Consultants, Inc. will perform waters and wetlands determinations to identify water resources that may be present. The project is anticipated to qualify for the Range-wide 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 Shawn Slaymon at 317.436.9145 or s.slaymon@gaiconsultants.com. Thank you in advance for your input.

Sincerely,

Shawn Slaymon
Project Environmental Specialist
GAI Consultants, Inc.

Attachments: Exhibit A- Maps/Graphics (Location, Aerial, Topographic)
Exhibit B- List of Early Coordination Recipients

The following agencies received Early Coordination Letters:

Federal Highway Administration
Federal Office Building, Room 254
575 North Pennsylvania Street
Indianapolis, Indiana 46204
Patrick.carpenter@dot.gov

Section Chief, Groundwater Section
Indiana Department of Environmental Management
100 N. Senate Avenue
Indianapolis, IN 46204
ATurnbow@idem.IN.gov

Field Environmental Officer
Chicago Regional Office
U.S. Department of Housing and Urban Development
Metcalf Federal Building
77 West Jackson Boulevard, Room 2401
Chicago, IL 60604
erik.r.sandstedt@hud.gov

Regional Environmental Coordinator
Midwest Regional Office
National Park Service
601 Riverfront Drive
Omaha, NE 68102
Mwro_Compliance@nps.gov

Indiana Geological and Water Survey
611 North Walnut Grove
Bloomington, IN 47405
Electronic Coordination

Environmental Coordinator
Indiana Department of Natural Resources
Division of Fish and Wildlife
402 West Washington Street, Rm. W273
Indianapolis, IN 46204
environmentalreview@dnr.in.gov

Section Chief, Wetlands and Stormwater Programs
Indiana Department of Environmental Management
100 N. Senate Avenue
Indianapolis, IN 46204
GCWrin@idem.in.gov

Field Supervisor
US Fish and Wildlife Service
Bloomington Indiana Field Office
620 South Walker Street
Bloomington, Indiana 47403-2121
robin_mcwilliams@fws.gov

State Conservationist
Natural Resources Conservation Service
6013 Lakeside Boulevard
Indianapolis, Indiana 46278
John.allen@usda.gov

Forest Supervisor
Hoosier National Forest
US Forest Service
811 Constitution Avenue
Bedford, Indiana 47421
Kevin.amick@usda.gov

Indiana Department of Transportation
Office of Aviation
100 N. Senate Avenue, Rm. 955
Indianapolis, IN 46204
tlewandowski@indot.in.gov

David Dye
INDOT Seymour District
Environmental Section Manager
DDye@indot.in.gov

Chase Schneider
INDOT Seymour District
Project Manager
chschneider@indot.in.gov

Matthew Nicolson, Mayor
City of Seymour
301-309 N. Chestnut St.
Seymour, IN 47274
mayor@seymourin.org

Jackson County Surveyor
111 South Main Street
Courthouse Suite 211
Brownstown, IN 47220
dblann@jacksoncounty.in.gov

Jackson County Commissioners
360 Fairgrounds Road
Brownstown, IN 47220
auditor@jacksoncounty.in.gov

Jackson County Highway Department
360 S. County Rd. 25 E.
Brownstown, IN 47220
jault@jacksoncounty.in.gov

Indiana Railroad
1500 S. Senate Avenue
Indianapolis, Indiana 46225
bernie.guerrettaz@inrd.com

Indiana Gas Company
133 West Market Street
Indianapolis, IN 46204
Nathan.Kunkler@Centerpointenergy.com

Jeremy Kramer
Anacostia, Louisville & Indiana Railroad
500 Willinger Lane
Jeffersonville, IN 47130
jkramer@anacostia.com

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
Governor

Brian C. Rockensuess
Commissioner

January 30, 2024

GAI Consultants, Inc.
Attention: Shawn Slaymon
201 North Illinois Street, Suite 1700
Indianapolis, IN 46204

Dear Shawn Slaymon:

Re: Wellhead Protection Area
Proximity Determination
Des No 2101694
Road Project on Bristol Ave, O'Brien Street, from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue in Seymour,
Jackson County, Indiana

Upon review of the above referenced project site, it has been determined that the proposed project area **is located within** a Wellhead Protection Area. If the contact information is needed for the WHPA, please contact the reference located at the bottom of the letter for the appropriate information. 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 https://www.in.gov/idem/cleanwater/pages/wellhead/ and use the instructions at the bottom of the page.

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

Alisha Turnbow,
Environmental Manager
Ground Water Section
Drinking Water Branch
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-26236

Request Received: January 23, 2024

Requestor:
Shawn Slaymon
GAI Consultants, Inc.
201 North Illinois Street, Suite 1700
Indianapolis, IN 46204

Project:
O'Brien Street 0.91-mile road reconstruction and construction of a 10' multi-use path, from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue, Seymour; Des #2101694

County/Site Info: Jackson County

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

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

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

Natural Heritage Database:
The Natural Heritage Program's data have been checked. The State endangered Barn Owl (*Tyto alba*) has been documented within .5 mile of the project area.

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

A) Heritage Species
The Division of Fish and Wildlife does not anticipate any significant impacts to the Barn Owl due to this project.

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

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

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

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

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

1. Revegetate all bare and disturbed areas that are not currently mowed and maintained with a mixture of grasses, sedges, and wildflowers native to Southern Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion; turf-type grasses (including low-endophyte, friendly endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in currently mowed areas only. A native herbaceous seed mixture must include at least 5 species of grasses and sedges and 5 species of wildflowers.
2. Minimize and contain within the project limits all tree and brush clearing.
3. Do not cut any trees suitable for Indiana Bat or Northern Long-eared Bat roosting (3 inches or greater diameter-at-breast height, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
4. 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.
5. 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 RVanVoorhis@dnr.IN.gov or (317) 232-8163 if we can be of further assistance.

Rachel Van Voorhis **Date:** February 22, 2024
Rachel Van Voorhis
Environmental Coordinator
Division of Fish and Wildlife

Organization and Project Information

Organization Name: GAI Consultants

First Name: Shawn

Last Name: Slaymon

Phone: (317) 436-9145

Email: s.slaymon@gaiconsultants.com

Address Line 1: 201 N. Illinois St, Ste 1700

Address Line 2: 1700

City: Indianapolis

State: IN

Zip: 46204

Destination Id: 2101694

Project Title: O'Brien Street Road Reconstruction Phase 1

Project Description: The proposed project is anticipated to reconstruct the roadway and include a combined curb and gutter on O'Brien Street. The scope will include 11-foot wide travel lanes with a 2-foot curb and gutter shoulder. The scope will include constructing a new 10-foot multi-use path along the west side of the street, providing improved storm sewers, and installing lighting.

Environmental Assessment Report

Geological Hazards:

1. High liquefaction potential

Mineral Resources:

1. Bedrock Resource: Low Potential
2. Sand and Gravel Resource: Low Potential

Disclaimer:

This information was furnished by Indiana Geological Survey

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

Email: IGSEnvir@indiana.edu

Phone: (812) 855-7428

Shawn C. Slaymon

From: Lewandowski, Tyler <TLewandowski@indot.IN.gov>
Sent: Tuesday, January 23, 2024 1:38 PM
To: Shawn C. Slaymon
Subject: RE: DES 2101694 O'Brien Street Road Project - Early Coordination

Good afternoon,

After review, no tall structure permit is required for the project if all equipment being used is under 25 feet in height. Please let our office know if you have any further questions.

Thank you,

Tyler Lewandowski
Project Manager
INDOT Office of Aviation
(317) 495-4875
tlewandowski@indot.in.gov
www.aviation.indot.in.gov

From: Shawn C. Slaymon <S.Slaymon@gaiconsultants.com>
Sent: Tuesday, January 23, 2024 11:44 AM
To: Lewandowski, Tyler <TLewandowski@indot.IN.gov>
Subject: DES 2101694 O'Brien Street Road Project - Early Coordination

Hello,

I am contacting you today on behalf of the City of Seymour with information on the road reconstruction project that the City of Seymour and the Federal Highway Administration (FHWA) are proposing in Jackson County, Indiana. Attached you will find an early coordination packet with details concerning the project. If you have any questions or concerns with this project, please don't hesitate to contact me.

Thank you for your time,

Shawn Slaymon, CISEC MS4CECI
Project Environmental Specialist

GAI Consultants, 201 N. Illinois Street, Suite 1700, Indianapolis, IN 46204
D 317.436.9145

Facebook | LinkedIn | Twitter | YouTube | Instagram | Glassdoor | News & Insights

United States Department of Agriculture

Farm Production and Conservation

Natural Resources Conservation Service

Indiana State Office
6013 Lakeside Boulevard
Indianapolis, Indiana 46278
317-295-5800

February 10, 2024

Shawn Slaymon
201 N. Illinois Street, Suite 1700
Indianapolis, Indiana 46256

Dear Mr. Slaymon:

The proposed O'Brien Street, Road Reconstruction project in the City of Seymour, Jackson County, Indiana (Des. No. 2101694), as referred in your letter received on January 23, 2024, will cause a conversion of prime farmland.

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

If you need additional information, please contact John Allen at 317-295-5859 or john.allen@usda.gov.

Sincerely,

JOHN ALLEN

Digitally signed by JOHN ALLEN
Date: 2024.02.12 09:45:32 -05'00'

JOHN ALLEN
State Soil Scientist

Enclosers

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*		Date Of Land Evaluation Request 1.23.2024	
Name of Project DES 2101694_Obrien Street		Federal Agency Involved FHWA	
Proposed Land Use Infrastructure (Roadway)		County and State Jackson County, IN	
PART II *(To be completed by NRCS)*		Date Request Received By NRCS	Person Completing Form: JRA
Does the site contain Prime, Unique, Statewide or Local Important Farmland? *(If no, the FPPA does not apply - do not complete additional parts of this form)*	YES ☑ NO ☐	Acres Irrigated	Average Farm Size 303 ac
Major Crop(s) Corn	Farmable Land In Govt. Jurisdiction Acres: 259628 % 79	Amount of Farmland As Defined in FPPA Acres: 18676 % 58	
Name of Land Evaluation System Used LESA	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS 2/10/2024	

PART III *(To be completed by Federal Agency)*	Alternative Site Rating Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	3.43			
B. Total Acres To Be Converted Indirectly	0			
C. Total Acres In Site	3.43			
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	1.98			
B. Total Acres Statewide Important or Local Important Farmland	0.00			
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	0.001			
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	31			
PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)	81			

PART VI *(To be completed by Federal Agency)* Site Assessment Criteria *(Criteria are explained in 7 CFR 658.5 b. For Corridor project use form NRCS-CPA-106)*	**Maximum Points**	Site A	Site B	Site C	Site D
1. Area In Non-urban Use	(15)	7			
2. Perimeter In Non-urban Use	(10)	6			
3. Percent Of Site Being Farmed	(20)	20			
4. Protection Provided By State and Local Government	(20)	0			
5. Distance From Urban Built-up Area	(15)	0			
6. Distance To Urban Support Services	(15)	0			
7. Size Of Present Farm Unit Compared To Average	(10)	0			
8. Creation Of Non-farmable Farmland	(10)	0			
9. Availability Of Farm Support Services	(5)	5			
10. On-Farm Investments	(20)	5			
11. Effects Of Conversion On Farm Support Services	(10)	2			
12. Compatibility With Existing Agricultural Use	(10)	0			
TOTAL SITE ASSESSMENT POINTS	160	45	0	0	0
PART VII *(To be completed by Federal Agency)*					
Relative Value Of Farmland *(From Part V)*	100	81	0	0	0
Total Site Assessment *(From Part VI above or local site assessment)*	160	45	0	0	0
TOTAL POINTS ***(Total of above 2 lines)***	260	126	0	0	0

Site Selected: Site A	Date Of Selection 12/9/2024	Was A Local Site Assessment Used? YES ☑ NO ☐

Reason For Selection:

Infrastructure Improvements - Site A will consist of road reconstruction to meet growing infrastructure and safety requirements. The project will require 3.43 acres of right-of-way of agricultural parcel take and a total 5.77 acres of permanent right-of-way acquisition .

Name of Federal agency representative completing this form: Shawn Slaymon	Date: 2/10/2024

(See Instructions on reverse side) **Form AD-1006 (03-02)**

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: 01/22/2025 20:47:04 UTC
Project Code: 2025-0030176
Project Name: Des 2101694 O'Brien Street Road Reconstruction Phase 1

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

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

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

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

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

Attachment(s):

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

OFFICIAL SPECIES LIST

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

This species list is provided by:

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

PROJECT SUMMARY

Project Code: 2025-0030176

Project Name: Des 2101694 O'Brien Street Road Reconstruction Phase 1

Project Type: Road/Hwy - Maintenance/Modification

Project Description: City of Seymour, with federal funding, is proposing a road reconstruction project on located on O'Brien Street, from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue. Specifically, this project is located in Sections 17 & 20 of Township 6 North, Range 6 East, as shown on the Seymour USGS 7.5 Minute Topographic Map. Des No. 2101694 extends from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue. O'Brien Street is classified as an Urban Minor Arterial roadway that runs north/south through the project area and consists of two travel lanes. The proposed project will include a roadway reconstruction with a combined curb and gutter on O'Brien Street. The scope of work for the project will also include constructing a new multi-use path along the west side of the street and providing improved storm sewers. In addition, it is anticipated that all intersecting public roads, alleys, and drive approaches will be reconstructed to the extent necessary to provide adequate radii and tie into the new O'Brien Street edge of the pavement. The Maintenance of Traffic (MOT) for this project will include a full detour.

Tree clearing acreage accumulates to 0.019 acres. All tree clearing will take place within 100' of the roadway. Dominant species to be removed include Silver Maple (Acer saccharinum), Black Locust (Robinia pseudoacacia) and Hackberry (Celtcis occidentalis). Trees will be removed during inactive season.

No bridges or structures are within the project area. Based on consultation with INDOT Seymour District, August 30, 2023, a review of the U.S. Fish and Wildlife Service (USFWS) database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. Temporary lighting may be required during construction. No new permanent lighting will be required as part of the project. The project is planned to begin in April 2026 and be completed by August 2027.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@38.93941985,-85.8806864815322,14z

Counties: Jackson County, Indiana

ENDANGERED SPECIES ACT SPECIES

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

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

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

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

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

MAMMALS

NAME	STATUS
Gray Bat *Myotis grisescens* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329	Endangered
Indiana Bat *Myotis sodalis* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered

BIRDS

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

CLAMS

NAME	STATUS
Salamander Mussel *Simpsonaias ambigua* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6208	Proposed Endangered

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

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 [2] and the Migratory Bird Treaty Act (MBTA) [1]. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

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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 Bald Eagles and/or Golden Eagles in your project area.

Measures for Proactively Minimizing Eagle Impacts
For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the National Bald Eagle Management Guidelines. You may employ the timing and activity-specific distance recommendations in this document when designing your project/ activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to Bald Eagle Nesting and Sensitivity to Human Activity.

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

If disturbance or take of eagles cannot be avoided, an incidental take permit may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the Do I Need A Permit Tool. For assistance making this determination for golden eagles, please consult with the appropriate Regional Migratory Bird Office or Ecological Services Field Office.

Ensure Your Eagle List is Accurate and Complete
If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the Supplemental Information on Migratory Birds and Eagles, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

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

PROBABILITY OF PRESENCE SUMMARY

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

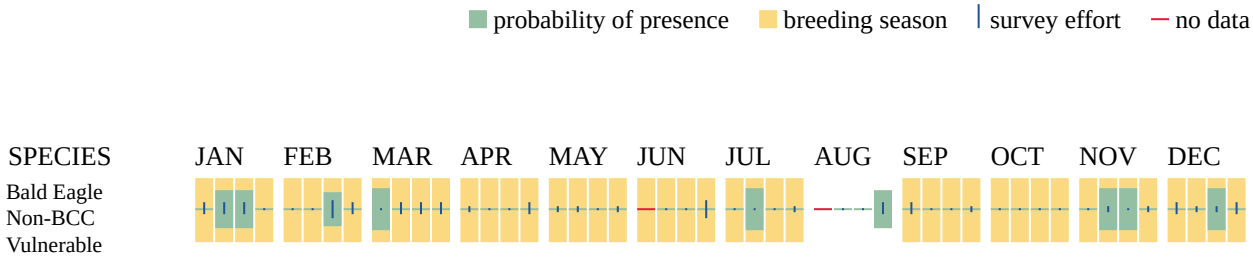
Probability of Presence (▪)

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

Breeding Season (▪)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

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

No Data (–)
A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds

- Nationwide avoidance and minimization measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

MIGRATORY BIRDS

The Migratory Bird Treaty Act (MBTA) [1] prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service). The incidental take of migratory birds is the injury or death of birds that results from, but is not the purpose, of an activity. The Service interprets the MBTA to prohibit incidental take.

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

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Jul 31
Bobolink *Dolichonyx oryzivorus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9454	Breeds May 20 to Jul 31
Chimney Swift *Chaetura pelagica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Field Sparrow *Spizella pusilla* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9446	Breeds Mar 1 to Aug 15

NAME	BREEDING SEASON
Grasshopper Sparrow *Ammodramus savannarum perpallidus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8329	Breeds Jun 1 to Aug 20
Lesser Yellowlegs *Tringa flavipes* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Prothonotary Warbler *Protonotaria citrea* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9439	Breeds Apr 1 to Jul 31
Red-headed Woodpecker *Melanerpes erythrocephalus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9398	Breeds May 10 to Sep 10
Wood Thrush *Hylocichla mustelina* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9431	Breeds May 10 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

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

Probability of Presence (■)

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

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

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

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

WETLANDS

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

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

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

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: GAI Consultants
Name: Shawn Slaymon
Address: 201 N. Illinois St. Ste 1700
City: Indianapolis
State: IN
Zip: 46204
Email s.slaymon@gaiconsultants.com
Phone: 3174369145

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and Federal Transit Administration (FTA)

Programmatic Biological Opinion/Conference Opinion for Transportation Projects in the Range of the Indiana Bat, Northern Long-Eared Bat, and Tricolored Bat

Appendix B: Project Submittal Form

Updated December 2024

The use of the Assisted Determination Key in the U.S. Fish and Wildlife Service (Service) Information for Planning and Conservation (IPaC) System is strongly recommended for submitting project-level information to the Service for use of the range-wide programmatic consultation covering actions that may affect the Indiana bat, northern long-eared bat (NLEB), or tricolored bat (TCB). However, if not using the assisted determination key, transportation agencies must provide this submittal form (or a comparable Service approved form) with project-level information to the Service. The completed form should be submitted to the appropriate Service Field Office prior to project commencement. For more information, see the Standard Operating Procedure for Site Specific Project(s) Submission in the User's Guide (Section 3).

By submitting this form, the transportation agency ensures that each component of the proposed project(s) adheres to the criteria and conditions of the 2024 range-wide programmatic biological opinion (PBO). Upon submittal of this form, the appropriate Service Field Office may review the project-specific information provided and request additional information. For projects that may affect but are not likely to adversely affect (NLAA) the Indiana bat, NLEB, or TCB, if the applying transportation agency is not contacted by the Service with any questions or concerns within 14 calendar days of form submittal, it may proceed under the range-wide programmatic consultation and assume concurrence of the NLAA determination made by the Service in the PBO. For projects that may affect and are likely to adversely affect (LAA) the Indiana bat, NLEB, or TCB, the appropriate Service Field Office will respond[1] within 30 calendar days of receiving a complete project-level submission, which includes, but may not be limited to this completed form.

1. Date: (2/6/2025

2. Lead agency: Federal Highway Administration (FHWA)
   *This refers to the **Federal** governmental lead action agency initiating consultation; select **FHWA, FRA, FTA, or FHWA/FRA Program Assignment State or Categorical Exclusion Assignment State** as appropriate.*

[1] Service Field Offices should use the LAA verification letter template for projects that may affect, and are likely to adversely affect the Indiana bat, NLEB, or TCB.

3. Requesting agency: Federal Highway Administration (FHWA)/Indiana Department of Transportation (INDOT)

This refers to the transportation agency completing the form (it may or may not be the same as the Lead Agency).

- Name: Shawn Slaymon
- Title: Project Environmental Specialist
- Phone: (317)436-9145
- Email: s.slaymon@gaiconsultants.com

4. Project code:[2] 2025-0006296

5. Project name(s): Des 2101694 O'Brien Street Road Reconstruction

6. Project description: Click or tap here to enter text.

City of Seymour, with federal funding, is proposing a road reconstruction project on located on O'Brien Street, from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue. Specifically, this project is located in Sections 17 & 20 of Township 6 North, Range 6 East, as shown on the Seymour USGS 7.5 Minute Topographic Map. Des No. 2101694 extends from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue. O'Brien Street is classified as an Urban Minor Arterial roadway that runs north/south through the project area and consists of two travel lanes. The proposed project will include a roadway reconstruction with a combined curb and gutter on O'Brien Street. The scope of work for the project will also include constructing a new multi-use path along the west side of the street and providing improved storm sewers. In addition, it is anticipated that all intersecting public roads, alleys, and drive approaches will be reconstructed to the extent necessary to provide adequate radii and tie into the new O'Brien Street edge of the pavement. The Maintenance of Traffic (MOT) for this project will include a full detour.

Tree clearing acreage accumulates to 0.019 acres. All tree clearing will take place within 100' of the roadway. Dominant species to be removed include Silver Maple (Acer saccharinum), Black Locust (Robinia pseudoacacia) and Hackberry (Celtcis occidentalis). Trees will be removed during inactive season.

Seven structures (pipes) are within the project area. Based on consultation with INDOT Seymour District, August 30, 2023, a review of the U.S. Fish and Wildlife Service (USFWS) database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. Temporary lighting may be required during construction. No new permanent lighting will be required as part of the project. The project is planned to begin in April 2026 and be completed by August 2027.

7. Project location (county, state): Jackson County, Indiana

If not delineated in IPaC, attach shape files.

8. For species **other than** Indiana bat, NLEB, and TCB (from IPaC official species list):

☒ No effect – project(s) are inside the species range, but no suitable habitat (see additional information attached).

☐ May affect – see additional information provided for those species (see attached or forthcoming).

[2] Available through IPaC System Official Species List: https://ipac.ecosphere.fws.gov/

Please confirm and identify how each component of the proposed project(s) adheres to the criteria of the PBO by completing the following (see User Guide Section 2.0):

NO EFFECT

9. For Indiana bat/NLEB/TCB, if applicable, select your no effect determination:

    ☐ No effect – project(s) are outside the species' range.

    ☐ No effect – project(s) are inside the species range with no suitable habitat[3] within the project action area[4]; project(s) must also be greater than 0.5 miles from any hibernaculum.

    ☐ No effect – project(s) do not cause any stressors[5] to the covered bat species, such as those that do not involve ground disturbance, vibrations, noise above background levels (including general traffic), temporary or new/additional permanent lighting, tree removal/trimming, nor bridge, culvert, and structure activities.

    ☐ No effect – project(s) includes percussive activities in suitable habitat (not related to tree removal and/or bridge, culvert, or structure work) that involve noise/vibration above existing background levels and are conducted greater than 0.5 miles (0.8 km) of a hibernaculum during the inactive season.

    ☐ No effect – project(s) includes the removal, replacement, or alteration of bridge, culvert, or structure that does not meet the minimum culvert dimensions (see the Service's current survey guidance).

Proceed with this form to identify how other components of the proposed project adhere to the criteria of the PBO.

MAY AFFECT, NOT LIKELY TO ADVERSELY EFFECT – W/O AMMS

10. For Indiana bat/NLEB/TCB, if applicable, select your may affect, NLAA determination (without implementation of AMMs):

    ☐ NLAA – project(s) are inside the species range and within suitable bat habitat, but have **negative** bat presence/absence (P/A) surveys; must also

[3] Refer to the Service's Range-wide Bat Survey Guidelines at https://www.fws.gov/library/collections/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

[4] 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." Further clarification is provided by the national consultation FAQs at: https://www.fws.gov/glossary/action-area.

[5] Examples of activities that **do not cause stressors** may include striping roadways, unlighted road signage, railroad crossing signals, signal lighting, minor road repair such as asphalt fill of potholes, among others.

be greater than 0.5 miles from any hibernaculum.

☐ NLAA – project(s) include percussive activities within suitable habitat (not related to tree removal and/or bridge, culvert, structure work) that cause noise/vibration above existing background levels; and are conducted greater than 0.5 miles (0.8 km) of a hibernaculum; no further than 100 ft (30.5 m) of the road/rail surface during the pup season; and not carried out between December 15 and February 15 in Zone 1 of the NLEB and TCB YR active ranges.

☐ NLAA – project(s) includes the removal, replacement, or alteration of bridges, culverts, or structures with no signs of bat use [e.g., bats, guano], and does not impact suitable habitat within the project action area.

Proceed with this form to identify how other components of the proposed project adhere to the criteria of the PBO.

MAY EFFECT, NOT LIKELY TO ADVERSELY AFFECT – WITH AMMs

11. For Indiana bat/NLEB/TCB, if applicable, document your may affect, NLAA determination **(with implementation of AMMs)** by completing the following section; use #13 to document AMMs):

a. Tree Removal/Trimming Activities

☒ NLAA – project(s) includes the removal/trimming of trees outside documented habitat[6] within 100 ft (30.5m) from the road/rail surface during the inactive season; and all applicable lighting minimization measures will be implemented.

b. Bridge/Culvert/Structure Activities

Projects Proposed work: Existing pipe structures and proposed work are on final page. Not all structures required inspection due to enclosed elements/stormwater grates.

Timing of work: Full Project Timeline: 4/15/2026 - 8/31/2027
Tree removal will take place during the inactive season.

☐ NLAA – project(s) includes the removal, replacement, or alteration of bridges, culverts, or structures with a large number of bats (>5) observed or assuming bat use when conducted during the inactive season, so long as no hibernating bats are using the bridge, culvert, or structure.

[6] See glossary in Appendix A for definition of documented habitat.

☐ NLAA – project(s) includes the removal, replacement, or alteration of bridges, culverts, or structures with a large number of bats (>5) observed or assuming bat use when conducted during the active season, so long as the covered bats species are **not likely to be disturbed/killed** and suitable roosting habitat is still available within the bridge, culvert, or structure.

☐ NLAA – project(s) includes the removal, replacement, or alteration of bridges, culverts, or structures with a small number of bats (≤5) observed when conducted during the inactive season, so long as no hibernating bats are using the bridge, culvert, or structure.

☐ NLAA – project(s) includes the removal, replacement, or alteration of bridges, culverts, or structures with a small number of bats (≤5) observed when conducted during the active season, so long as the covered bats species are **not likely to be disturbed/killed**.

c. Lighting

☒ Verify that all applicable lighting minimization measures will be implemented.

Proceed with this form to identify how other components of the proposed project adhere to the criteria of the PBO.

MAY AFFECT, LIKELY TO ADVERSELY AFFECT

12. For Indiana bat/NLEB/TCB, if applicable, document your may affect, LAA determination **(with implementation of AMMs)** by completing the following section (use #13 to document AMMs):

a. Tree Removal/Trimming Activities

Tree Removal/Trimming Activities in the Hibernating Range of the Indiana bat, NLEB, and TCB.

☐ LAA – project(s) includes the removal/trimming of trees **outside documented habitat** for the Indiana bat or NLEB or TCB within 100 ft (30.5m) from the road/rail surface during the pup season; all cleared/trimmed trees must be <9 in DBH.

☐ LAA – project(s) includes the removal/trimming of trees **outside documented habitat** for the Indiana bat or NLEB or TCB during the active season; excluding the pup season.

☐ LAA – project(s) includes the removal/trimming of trees **outside documented habitat** for the Indiana bat or NLEB or TCB beyond 100 ft (30.5m) from the road/rail surface during the inactive season.

☐ LAA – project(s) includes the removal/trimming of trees **within documented habitat** for the Indiana bat or NLEB or TCB during the inactive season.

☐ LAA – project(s) includes the removal/trimming of trees **within documented habitat** for the Indiana bat or NLEB or TCB during the active season; excluding the pup season.

Tree Removal/Trimming Activities in the **YR Active Ranges** of the NLEB and TCB.

- ☐ LAA – project(s) includes the removal/trimming of trees **outside documented habitat** for the NLEB or TCB within 100 ft (30.5m) from the road/rail surface during the pup season; all cleared/trimmed trees must be <9 in DBH.
- ☐ LAA – project(s) includes the removal/trimming of trees **outside documented habitat** for the NLEB or TCB anytime, excluding the pup season and Dec 15 – Feb 15*.
- ☐ LAA – project(s) includes the removal/trimming of trees **within documented habitat** for the NLEB or TCB anytime, excluding the pup season and Dec 15 – Feb 15*.

*For the YR active ranges of the NLEB and TCB, winter tree clearing restrictions from Dec. 15 – Feb. 15 do not apply in areas where the mean minimum temperature is above 40º F throughout the winter months (depicted as Zone 2 in Figure 9 of the PBO):

- ☐ Number of acres of trees 0-100 feet of existing road/rail surface proposed for removal/trimming: Click or tap here to enter text.
- ☐ Number of acres of trees 100-300 feet from edge of existing road/rail surface proposed for removal/trimming. Click or tap here to enter text.
- ☐ Number of acres of trees beyond 300 feet from edge of existing road/rail surface proposed for removal/trimming. Click or tap here to enter text.
- ☐ Verify that all tree removal/trimming occurs greater than 0.5 mile from any hibernaculum
- ☐ Verify trees removed/trimmed outside documented habitat for the Indiana bat or NLEB or TCB within 100 feet of the road/rail surface during the pup season are <9 in DBH,
- ☐ Verify no tree removal/trimming outside documented habitat for the Indiana bat, NLEB, or TCB beyond 100 feet of the road/rail surface during the pup season,
- ☐ Verify no tree removal/trimming of documented habitat for the Indiana bat, NLEB, or TCB during the pup season,
- ☐ Verify no tree removal/trimming of suitable habitat for the NLEB and/or TCB in Zone 1 of their YR active ranges between December 15 – February 15.

b. Bridge/Culvert/Structure Activities

Projects Proposed work: Click or tap here to enter text.

Timing of work: Click or tap here to enter text.

Date of Bridge/Culvert/Structure Assessment (if completed): Click or tap here to enter text.

☐ Verify a small number of bats were observed (≤5).

☐ LAA – project(s) includes the removal, replacement, or alteration of bridges, culverts, or structures with a small number of bats (≤5) observed when conducted during the active season and the covered bats species are **likely to be disturbed/killed**.

c. Lighting

☐ Verify that all applicable lighting minimization measures will be implemented.

13. For Indiana bat/NLEB/TCB, if applicable to the action type, the following AMMs[7] will be implemented:

☒ General AMM 1 (required for all projects)

☒ Tree Removal AMM 1 (required for all projects)

☒ Tree Removal AMM 2 (required for all projects)

☒ Tree Removal AMM 3 (required for NLAA)

☐ Tree Removal AMM 4 (required for LAA)

☐ Tree Removal AMM 5 (required for LAA)

☐ Tree Removal AMM 6 (required for LAA)

☐ Tree Removal AMM 7 (required for LAA)

☐ Bridge/Culvert/Structure AMM 1a (required for NLAA)

☐ Bridge/Culvert/Structure AMM 1b (required for NLAA)

☐ Bridge/Culvert/Structure AMM 2 (required for NLAA)

☐ Bridge/Culvert/Structure AMM 3a (required for NLAA)

☐ Bridge/Culvert/Structure AMM 3b (required for NLAA)

☐ Bridge/Culvert/Structure AMM 4 (required for NLAA)

☐ Bridge/Culvert/Structure AMM 5 (required for all projects)

☐ Bridge/Culvert/Structure AMM 6 (required for NLAA)

☒ Lighting AMM 1 (required for all projects during the active season)

☐ Lighting AMM 2 (required for all projects)

[7] See AMMs (Appendix C) for more information on AMMs.

☐ Hibernacula AMM 1 (required for all projects)

14. If applicable, compensatory mitigation measures will also be required to offset adverse effects to the Indiana bat and/or NLEB. Select what type of program will be used to mitigate for the Indiana bat and/or NLEB:

☐ In-Lieu Fee Program, The Conservation Fund

☐ State, Regional, Recovery Unit-Specific In-Lieu Fee Program:

Program Name: Click or tap here to enter text.

☐ Conservation Bank:

Bank Name: Click or tap here to enter text.

Location: Click or tap here to enter text.

☐ Local Conservation Site:

Site(s) Name: Click or tap here to enter text.

Location: Click or tap here to enter text.

Description: Click or tap here to enter text.

EXISTING SMALL STRUCTURES									
Ex. Str. No.	Station	Offset	Side	Size	Length	Shape	Type	Notes	
1	33+65	NA	Cross	24"	27.7'	Circular	CMP*	enclosed system outfall	No inspection required
2	33+65	28'	Rt	24"	110'	Circular	CMP*	enclosed system pipe	No inspection required
3	45+70	31.6'	Rt	15"	79.3'	Circular	CMP*	driveway culvert	No inspection required
4	55+22	28.2'	Rt	15"	19.9'	Circular	CMP*	driveway culvert	No inspection required
5	59+36	NA	Cross	15"	30.1'	Circular	PVC*	inlet and outfall pipe	No inspection required
6	60+72	NA	Cross	15"	32.3'	Circular	PVC*	inlet and outfall pipe	No inspection required
7	66+00	NA	Cross	24"	35.7'	Circular	CMP*	cross culvert	No inspection required

*Corrugated Metal Pipe (CMP) *Polyvinyl chloride (PVC)

Str. No. 1: This structure will be maintained but will be extended to the west to outfall outside of the new pedestrian path. This structure outfalls west from an enclosed system from the east. The existing inflow will be unaffected by this project.

Str. No. 2: This structure is the next structure upstream of Str. No. 1. This structure will be maintained and the existing inflow will be unaffected by this project.

Str. No. 3: This structure will be maintained and the existing inflow will be reduced as some of the upstream watershed will be caught by the new curb & gutter.

Str. No. 4: This structure will be replaced in-kind with a same-size longer pipe to extend under the widened driveway.

Str. No. 5: This inlet will be replaced in kind with a new outfall to the new enclosed storm sewer. The existing outfall pipe will be removed.

Str. No. 6: This inlet will be replaced in kind with a new outfall to the new enclosed storm sewer. The existing outfall pipe will be removed.

Str. No. 7: This culvert will be maintained but will be extended west to clear the new sidewalk. The existing inflow will be reduced as some of the upstream watershed will be caught by the new curb & gutter.

Shawn C. Slaymon

From: Carleton, Erin <ECarleton@indot.IN.gov>
Sent: Thursday, February 13, 2025 8:06 AM
To: Shawn C. Slaymon
Cc: Schwering, Taylor
Subject: FW: [EXTERNAL] Des 2101694 Biological Opinion IPaC Form

Erin Carleton
Environmental Manager 2
Indiana Department of Transportation
Seymour District
Phone: 812-524-3988
Email: ecarleton@indot.in.gov
Find us on social media!

From: McWilliams, Robin <robin_mcwilliams@fws.gov>
Sent: Wednesday, February 12, 2025 11:40 AM
To: Carleton, Erin <ECarleton@indot.IN.gov>
Cc: Schwering, Taylor <TSchwering@indot.IN.gov>
Subject: Re: [EXTERNAL] Des 2101694 Biological Opinion IPaC Form

Hi Erin,

I pulled up the map and based on the area and lack of habitat, I think you could get to a NE on the gray bat. The area does not contain any caves for hibernating or maternity use (gray bats do not use trees) and there does not appear to be any real foraging habitat (streams/riparian areas).

Robin

Robin McWilliams Munson
Fish and Wildlife Biologist/Transportation Liaison
U.S. Fish and Wildlife Service
Indiana Ecological Services Field Office
620 South Walker Street
Bloomington, IN 47403
Robin_McWilliams@fws.gov

***NEW* 812-902-1752**

Mon-Tues 8:30-4:30p
Wed-Thurs 8:30-4:30p Telework

From: McWilliams, Robin <robin_mcwilliams@fws.gov>
Sent: Wednesday, February 12, 2025 11:27 AM
To: Carleton, Erin <ECarleton@indot.IN.gov>
Cc: Schwering, Taylor <TSchwering@indot.IN.gov>
Subject: Re: [EXTERNAL] Des 2101694 Biological Opinion IPaC Form

Oh, sorry. I meant to provide concurrence for the gray bat in my email. I'll send a follow up. I can't keep all of these straight!

Robin

Robin McWilliams Munson
Fish and Wildlife Biologist/Transportation Liaison
U.S. Fish and Wildlife Service
Indiana Ecological Services Field Office
620 South Walker Street
Bloomington, IN 47403
Robin_McWilliams@fws.gov
***NEW* 812-902-1752**

Mon-Tues 8:30-4:30p
Wed-Thurs 8:30-4:30p Telework

From: Carleton, Erin <ECarleton@indot.IN.gov>
Sent: Wednesday, February 12, 2025 10:31 AM
To: McWilliams, Robin <robin_mcwilliams@fws.gov>
Cc: Schwering, Taylor <TSchwering@indot.IN.gov>
Subject: RE: [EXTERNAL] Des 2101694 Biological Opinion IPaC Form

Hi Robin,
Thanks so much for getting back to me so fast!
I had a quick question. Because the biological opinion form differs from the old IPaC regarding other species (No Effect includes no suitable habitat now, May Affect has more information), do you think the consultant should prepare a standard informal letter, because the gray bat range? I'm just asking cause the AMMs would be the same as the other endangered bats. We anticipate a MA-NLAA for this since no gray bats were present in the 0.5 mile bat database check.

Let me know your thoughts.

Erin Carleton
Environmental Manager 2
Indiana Department of Transportation
Seymour District
Phone: 812-524-3988
Email: ecarleton@indot.in.gov
Find us on social media!

From: McWilliams, Robin <robin_mcwilliams@fws.gov>
Sent: Wednesday, February 12, 2025 9:59 AM
To: Carleton, Erin <ECarleton@indot.IN.gov>
Cc: Schwering, Taylor <TSchwering@indot.IN.gov>; Dye, David <DDYE@indot.IN.gov>
Subject: Re: [EXTERNAL] Des 2101694 Biological Opinion IPaC Form

Dear Erin,

I have reviewed the information you provided and have no additional questions or concerns. Per the language in the submittal form, you may proceed under the range-wide programmatic consultation.

Sincerely,
Robin

Robin McWilliams Munson
Fish and Wildlife Biologist/Transportation Liaison
U.S. Fish and Wildlife Service
Indiana Ecological Services Field Office
620 South Walker Street
Bloomington, IN 47403
Robin_McWilliams@fws.gov
***NEW* 812-902-1752**

Mon-Tues 8:30-4:30p
Wed-Thurs 8:30-4:30p Telework

From: Carleton, Erin <ECarleton@indot.IN.gov>
Sent: Wednesday, February 12, 2025 9:24 AM
To: McWilliams, Robin <robin_mcwilliams@fws.gov>
Cc: Schwering, Taylor <TSchwering@indot.IN.gov>; Dye, David <DDYE@indot.IN.gov>
Subject: [EXTERNAL] Des 2101694 Biological Opinion IPaC Form

Hi Robin,

We received this Programmatic Biological Opinion/ Conference Opinion Project Submittal Form for Transportation Projects in the Range of the Indiana bat, northern long-eared bat, and gray bat for Des 2101694. INDOT concurs with the NLAA finding with General AMM 1, Lighting AMM 1, Tree Removal AMM 1-3. “May Affect” has been selected for other species, as there is tree removal and within the range of the gray bat. The species list, and project description have been uploaded to the IPaC. We are submitting this to USFWS for your review. If you need any more information, feel free to reach out.

Please let us know within 14 calendar days if you have any questions or concerns.

Thank you!

Erin Carleton
Environmental Manager 2
Indiana Department of Transportation
Seymour District
Phone: 812-524-3988
Email: ecarleton@indot.in.gov
Find us on social media!

Appendix D

Section 106 Consultation

SECTION 1

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

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

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

Original Submission Date: January 8, 2025 **Amended Submission Date*:**

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

Submitted By (Provide Name and Firm/Organization):

Amy Coombs, PhD
ASC Group, Inc.
9376 Castlegate Drive
Indianapolis, Indiana 46256
317.915.9300
acoombs@ascgroup.net

Project Designation Number: 2101694

Route Number: O'Brien Street

Feature crossed (if applicable): N/A

City/Township: Seymour/Jackson Township **County:** Jackson County

Project Description:

This project is located on O'Brien Street, from the Burkhart Boulevard South Bypass roundabout to Village Circle Avenue. O'Brien Street is classified as an Urban - Minor Arterial roadway that runs north-south through the project area and is approximately 20 feet wide consisting of two travel lanes. The roadway is bordered by grass and drained by open ditches. No pedestrian facilities exist within the project area. Land use in the project corridor is predominantly residential but also includes agricultural, commercial, and industrial buildings.

The proposed project will include a roadway reconstruction with a combined curb and gutter on O'Brien Street. The scope of work for the project will also include constructing a new multi-use path along the west side of the street and providing improved storm sewers. In addition, it is anticipated that all intersecting public roads, alleys, and drive approaches will be reconstructed to the extent necessary to provide adequate radii and tie into the new O'Brien Street edge of pavement.

The need for this project is that, currently, no sidewalks exist along this segment of O'Brien Street. No drainage features exist within the existing roadway, and water collects at the side of the road and either infiltrates or ponds. The condition of the pavement was rated as a 6 on the Pavement Surface Evaluation and Rating (PASER) scale in 2018 and no improvements have been made since that time. The pavement was constructed in the 1930s and is near the end of the service life and maintenance cycle. Structural failing is observed with longitudinal cracking and rutting evident throughout pavement sections that were not resurfaced in 2017 or 2018. The purpose of this project is to improve pedestrian mobility to and from residential, commercial, and school facilities. The project also aims to improve the roadway condition and drainage and to lengthen its service life.

The alignment of O'Brien Street will shift in certain locations to the west to better accommodate the curb and gutter improvements. The north section of this project will utilize 11-foot (ft) wide travel lanes while the southern portion will utilize 12-ft wide travel lanes. The 10-ft wide multi-use path, that is separated from the back of curb by a 5-ft wide buffer, will connect to the existing path at the Burkhart Boulevard South Bypass roundabout and continue north to Park Drive. The multi-use path will transition to a 6-ft wide sidewalk connected to the back of the curb at Park Drive and will continue north to Village Circle Avenue.

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

- Combined curb and gutter improvements on O'Brien Street along both sides of the road from the Burkhart Boulevard South Bypass roundabout to Village Circle Avenue.
- A 10-ft wide multi-use path along the west side of the road; separated from the back of curb by a 5-ft wide buffer connecting an existing path at the Burkhart Boulevard South Bypass roundabout to Park Drive.
- Multi-use path transitions to a 6-ft wide sidewalk at Park Drive; connects to the back of the curb and runs north to Village Circle Avenue.

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

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

☐ **Yes** ☐ **No**

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

☐ **Yes** ☐ **No**

Inventory Page #_____

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

☒ **Yes** ☐ **No**

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

☒ **Permanent** ☒ **Temporary** ☐ **Reacquisition**

If applicable, identify right-of-way acquisition locations in text below and in attached mapping. Please specify how much (both temporary and permanent) and indicate what activities are included in the proposed right-of-way:
Permanent right-of-way will total 5.62 acres and temporary right-of-way will total 0.32 acre. Activities in the right-of-way will include road construction and grading.

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

☒ **Yes** ☐ **No**

Archaeology (check one):

☐ **All proposed activities are presumed to occur in previously disturbed soils.***
**INDOT-CRO will notify you if project area includes undisturbed soils and requires an archaeological reconnaissance.*

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

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

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

B-1. Replacement, repair, or installation of curbs, curb ramps, or sidewalks, including when such projects are associated with roadway work such as surface replacement, reconstruction, rehabilitation, or resurfacing projects, including overlays, shoulder treatments, pavement repair, seal coating, pavement grinding, and pavement marking, under the following conditions ***[BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied]***:

Condition A (Archaeological Resources)

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

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

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

Condition B (Above-Ground Resources)

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

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

ii. Work occurs adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource under one of the two additional conditions listed below *(EITHER Condition a OR Condition b must be met and field work and documentation must be completed as described below)*:

   a. No unusual features, including but not limited to historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and historic brick or stone retaining walls are present in the project area adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *OR*

   b. Unusual features, including but not limited to historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and historic brick or stone retaining walls are present in the project area adjacent to or within a National Register-listed or National Register-eligible individual above-ground resource or district and ANY ONE of the conditions *(1, 2, or 3)* listed below must be fulfilled:

      1. Unusual features described above will not be impacted by the project. Firm commitments regarding the avoidance of these features must be listed in the MPPA determination form and the NEPA document and must be entered into the INDOT Project Commitments Database. These projects will also be flagged for quality assurance reviews by INDOT Cultural Resources Office during/after project construction.

      2. Unusual features described above have been determined not to contribute to the significance of the historic resource by INDOT Cultural Resources Office in consultation with the SHPO based

on an analysis and justification prepared by their staff or review of such information from other qualified professional historians.

3. Impacts to unusual features described above have been determined by INDOT Cultural Resources Office to be so minimal that they do not diminish any of the characteristics that contribute to the significance of the historic resource, based on an analysis and justification prepared by their staff or review of such information from other qualified professional historians.

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

Condition A (Archaeological Resources)

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

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

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

Condition B (Above-Ground Resources)

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

B-8. Construction of pedestrian facilities including trails, multi-use paths, greenways, and associated minor activities defined below, under the following conditions ***[BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied]***:

Condition A (Archaeological Resources):

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

i. Work occurs within areas previously disturbed by vertical and horizontal construction activities, including existing roadway, sidewalk, or rail bed, and is not on, within or adjacent to a National Register listed or eligible site; *OR*

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

Condition B (Above-Ground Resources):

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

Activities associated with this category include the following:

- Pavement surface installation, replacement, rehabilitation, resurfacing, and reconstruction work, including widening, laying down of crushed stone or gravel, shoulder treatments, pavement repair, seal coating, pavement grinding, pavement marking, etc.;

- Installation of new signals, signage, and other traffic control devices;
- Installation of new safety appurtenances such as guardrails and barriers;
- Installation of plant materials and hardscape landscaping elements, including, but not limited to bike racks, benches, trash cans, lighting, and other amenities;
- Trail heads and parking lots; and
- Installation of pipes, culverts, and pedestrian bridges.

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

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

Part II: Completed by INDOT-CRO

Information reviewed (please check all that apply):

General project location map ☒ USGS map ☒ Aerial photographs ☒ Soil survey data ☒

General project area photos ☒ Archaeology Reports ☒ Historic Property Reports ☐

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

Bridge inspection information/iTAMS ☐ Historic Bridge Inventory Database ☐

SHAARD ☒ SHAARD GIS ☐ Streetview Imagery ☒ County GIS Data/Property Cards ☒

Other (please specify): Minor Projects PA Determination Form for Des. Nos. 1902762 & 1902764 (M. Kennedy & P.J. Korzeniewski, 9/8/2022);

Deryck, Sean and Kaylee Ellrod
2025 *Phase Ia Archaeological Reconnaissance Survey for the O'Brien Street Pavement Rehabilitation, From the Burkhart Boulevard South Bypass Roundabout to Village Circle Avenue, in the City of Seymour, Jackson County, Indiana (INDOT Des. No. 2101694).* Archaeological report prepared by ASC Group for GAI Consultants, Indianapolis. Document on file at INDOT-CRO.

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

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

Additional Comments:

<u>Above-ground Resources</u>

An INDOT-Cultural Resources Office (CRO) historian who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 first performed a desktop review, checking the Indiana Register of Historic Sites and Structures (State Register) and National Register of Historic Places (National Register) lists for

Jackson County. No listed resources are present within 0.25 of the project area, a distance that would serve as an adequate area of potential effects (APE) given the scope of the project and the surrounding terrain.

The *Jackson County Interim Report* (1988; Jackson Township; Seymour Scattered Sites) of the Indiana Historic Sites and Structures Inventory (IHSSI) was also consulted. The National Register & IHSSI information is available in the Indiana State Historic Architectural and Archaeological Research Database (SHAARD) and the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM). The SHAARD information was checked against the Interim Report hard copy maps. No IHSSI resources are recorded within 500 feet of the project.

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

Land surrounding the project area changes from a suburban residential area with single family homes and a large mobile home park present in the northern portion to a more rural area with scattered single-family homes and farmsteads and industrial/warehouse buildings present in the southern portion of the project. The topography is primarily flat. Given that the road work and multi-use path/sidewalk installation will only be a visual change at ground level, only those properties within 500 feet of the project area are considered adjacent to the project for the purposes of this determination.

Properties within 500 feet of the project area date from the early twentieth century to the twenty-first century with the majority dating to the mid- and late twentieth century. Two residential developments were constructed after 1976 and will not be 50 years old or older by project letting in 2026. Many of the individual houses have experienced alterations such as large additions and replacement windows and siding. The mid-twentieth century houses within 500 feet of the project do not appear to meet the “Residential Planning and Development in Indiana, 1940-1973” requirements to be individually eligible to the National Register. Additionally, the mobile home park (c. 1969) does not appear to meet the requirements to be considered a historic district; the mobile homes do not all appear to date to the same era and some have experienced alterations, impacting their integrity and any ability to convey significance. Based on a review of online aerial imagery, street-view photography, and the Jackson County GIS website, there is no evidence that any of the properties adjacent to the project retain the material integrity or possess the cultural significance to be considered potentially eligible to the National Register for the purposes of this determination.

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

Archaeological Resources

An INDOT-CRO archaeologist who meets the Secretary of the Interior’s Professional Qualification Standards as per 36 CFR Part 61 reviewed the Phase Ia field reconnaissance report completed for the project by ASC Group (Deryck and Ellrod 2025) on behalf of GAI Consultants. No archaeological sites were previously recorded within or adjacent to the project area.

A 76-acre survey area was investigated via a combination of shovel probing and visual inspection of obviously disturbed areas. Two historic artifact scatters were recorded as a result of this reconnaissance. Sites 12J760 and 12J761 lack information potential that would contribute to their potential eligibility for listing in the National Register of Historic Places or the Indiana Register of Historic Sites and Structures. Since the site boundaries may extend beyond the surveyed area, an assessment cannot be made. No additional investigation is recommended for

the surveyed portions of the sites (Deryck and Ellrod 2025). It is our opinion that the report is acceptable, and we concur with the evaluations and recommendations made by ASC Group (Deryck and Ellrod 2025).

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

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

INDOT-CRO staff reviewer(s): Kelyn Alexander and Dawn Alexander

INDOT Approval Date: Aug 8, 2025

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

Photograph 1. Facing southeast towards the north end of the project area on South Park Drive.

Photograph 2. Facing south at the north end of the project area boundary on South O'Brien Street and South Park Drive.

Photograph 3. Facing north at the north end of the project area boundary on South O'Brien Street and South Park Drive.

Photograph 4. Facing southwest towards 1300 South O'Brien Street.

Photograph 5. Facing the west side of Polley Building Supply at 1335 South O'Brien Street.

Photograph 6. Facing south at South O'Brien Street and East Freeman Avenue inside the project area.

Photograph 7. Facing north at South O'Brien Street and East Freeman Avenue inside the project area.

Photograph 8. Facing west at South O'Brien Street and East Freeman Avenue towards the houses on East Freeman Avenue.

Photograph 9. Facing northwest at South O'Brien Street and East Freeman Avenue towards 533 East Freeman Avenue.

Photograph 10. Facing southwest at South O'Brien Street and East Freeman Avenue towards 530 East Freeman Avenue.

Photograph 11. Facing northwest towards 1410 South O'Brien Street.

Photograph 12. Facing west towards 3999 South O'Brien Street.

Photograph 13. Facing east towards 3992 South O'Brien Street.

Photograph 14. Facing south, looking towards the south end of the project area on South O'Brien Street.

Photograph 15. Facing north, looking away from the south end of the project area on South O'Brien Street.

Photograph 16. Facing north at the roundabout that intersects South O'Brien Street and Burkhart Boulevard South Bypass at the south end of the project area.

Phase Ia Archaeological Reconnaissance Survey for the O'Brien Street Pavement Rehabilitation, From the Burkhart Boulevard South Bypass Roundabout to Village Circle Avenue, in the City of Seymour, Jackson County, Indiana (INDOT Des. No. 2101694)

By

Sean Deryck, MA, and
Kaylee Ellrod, MS, RPA

Submitted By:
Andrea Crider, MA, RPA
Principal Investigator Archaeologist
ASC Group, Inc.
9376 Castlegate Drive
Indianapolis, Indiana 46256
317.915.9300
acrider@ascgroup.net

Submitted To:
Scott Hornsby
GAI Consultants
201 North Illinois Street, Suite 1700
Indianapolis, Indiana 46204
317.570.6800

Lead Agency: City of Seymour, Indiana

August 5, 2025

Andrea D. Crider, MA, RPA, Principal Investigator

ASC GROUP, INC.
CULTURAL • ENVIRONMENTAL • HAZARDOUS
EVALUATION & CONSULTING

MANAGEMENT SUMMARY

ASC Group, Inc., under contract with GAI Consultants, has completed a Phase Ia Archaeological Reconnaissance Survey report for the proposed O'Brien Street Pavement Rehabilitation Project, in the City of Seymour, Jackson County, Indiana (Indiana Department of Transportation [INDOT] Des. No. 2101694). The project is located south of Seymour, Indiana in Sections 20 and 29, Township 6 North, Range 6 East, as shown on the 1994 Seymour, Indiana quadrangle (United States Geological Survey [USGS] 7.5' topographic map). The survey area for this project is at O'Brien Street between the Burkhart Boulevard South Bypass Roundabout and Village Circle Avenue. This project is receiving funding from the Federal Highway Administration and is subject to a Section 106 review.

The need of this project is that, currently, no sidewalks exist along this segment of O'Brien Street. No drainage features exist within the existing roadway, and water collects at the side of the road and either infiltrates or ponds. The condition of the pavement was rated as a 6 on the Pavement Surface Evaluation and Rating (PASER) scale in 2018 and no improvements have been made since that time. The pavement was constructed in the 1930s and is near the end of the service life and maintenance cycle. Structural failing is observed with longitudinal cracking and rutting evident throughout pavement sections that were not resurfaced in 2017 or 2018. The purpose of this project is to improve pedestrian mobility to and from residential, commercial, and school facilities. The project also aims to improve the roadway condition and drainage and to lengthen its service life. The survey area for this project encompasses 3.08 hectares (7.6 acres).

The archaeological survey utilized a combination of visual inspection and shovel probes to examine the survey area. The survey area for this project is mostly within agricultural fields but also includes portions of existing right-of-way and properties around the road intersections. The survey corridor spans from the Burkhart Boulevard South Bypass Roundabout to Village Circle Avenue. The agricultural fields within the survey area have been impacted by agricultural activities such as plowing, but are relatively intact. The portions of the survey area around the intersections have been disturbed by road construction, drainage ditches, and utilities.

The archaeological fieldwork was conducted in accordance with the *Indiana Cultural Resources Manual* (INDOT 2024) and the Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology (IDNR, DHPA) [2022] archaeology guidelines. Fieldwork was also in accordance with the Indiana Historic Preservation Act (312 IAC 21 and 312 IAC 22), and pursuant to Section 106 of the National Historic Preservation Act (16 U.S.C. Section 470) and regulations found at 36 CFR Part 800. All personnel conducting fieldwork meet professional qualifications.

The Phase Ia archaeological records check and reconnaissance survey resulted in the documentation of two new sites: 12J760 and 12J761. The first site, 12J760 is an historic scatter, likely related to a since-demolished structure of indeterminate date. Site 12J761 may represent an older, disturbed, nineteenth century occupation. None of the sites are fully delineated due to the confines of the survey area and roadway. All sites were discovered in agricultural fields, and have maintained integrity, with no evidence of post-depositional intrusion. The portions of both sites recorded within the survey area are unlikely to contribute to the eligibility of the site for inclusion on the National Register of Historic Places or Indiana Register of Historic Sites and Structures. No

further assessment is recommended for the portions of either site within the survey area. If the proposed project plans should change, then further archaeological survey may be warranted.

In the unlikely event that archaeological deposits or human remains are encountered during the construction phase of the project, all work must cease within 30.5 m (100 ft) and archaeologists from the IDNR, DHPA and the INDOT-Cultural Resources Office must be notified.

CONCLUSIONS AND RECOMMENDATIONS

ASC, under contract with GAI Consultants, has completed a Phase Ia Archaeological Reconnaissance Survey report for the proposed O'Brien Street Pavement Rehabilitation Project, Seymour, Jackson County, Indiana (INDOT Des. No. 2101694). Two new archaeological sites were recorded, 12J760 and 12J761. Both sites have a mix of historic materials, indeterminate artifacts, and potential modern inclusions.

In establishing recommendations for determining the eligibility for inclusion of these sites on the IRHSS and NRHP, each site's significance and integrity must be addressed. There are seven aspects of integrity (location, design, setting, materials, workmanship, feeling, and association) that are used to judge how well the site conveys its significance (Andrus 1997). Typically for archaeological sites the aspects of location, design, materials, and association are most relevant in assessing the sites ability to convey their significance; for archaeological sites this will usually be important information about its historic context (Criterion D). The criteria are as follows:

> **Criterion A**: Associated with events that have made a significant contribution to the broad patterns of our history (typically contains ruins or extant buildings/structures with associated archaeological deposits which are "needed to convey, illustrate, or help interpret the historical event or pattern").
>
> **Criterion B**: Associated with the lives of persons significant in our past (archaeological deposits are "needed to convey, illustrate, or interpret a historic property that is strongly associated with the career or life of an important person").
>
> **Criterion C**: Embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction (archaeological deposits are "needed to convey, illustrate, or interpret an historic property containing strongly associated architectural or related attributes that reflect a particular pattern, style, or type").
>
> **Criterion D**: Have yielded, or may be likely to yield, information important in prehistory or history (Little et al. 2000).

As 12J760 and 12J761 have not been fully delineated due to survey boundaries, neither site can be assessed for eligibility for inclusion in the NRHP or IHSS. However, the portions of 12J760 and 12J761 that lie within the current survey boundary have been affected to some degree by agricultural and construction activities. Based on the evidence recovered from each site, including the composition of the various artifact assemblages and the depositional contexts from which they were recovered, it is ASC's opinion that the portions of these sites within the survey

area are not likely to contain either intact or significant archaeological data. As such, no further assessment is recommended for the portions of these sites within the survey area. If the project plans should change, then further archaeological survey may be warranted.

In the unlikely event that archaeological deposits or human remains are encountered during the construction phase of the project, all work must cease within 30.5 m (100 ft) and archaeologists from the IDNR, DHPA and the INDOT-Cultural Resources Office must be notified.

Appendix E

Red Flag and Hazardous Materials

Date: January 5, 2024

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: Shawn Slaymon
GAI Consultants, Inc.
9998 Crosspoint Blvd, Suite 110
Indianapolis, IN 46256
s.slaymon@gaiconsultants.com

Re: RED FLAG INVESTIGATION
DES # 2101694, Local Project
Roadway Reconstruction
O'Brien Street, from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue
Jackson County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: This project is located on O'Brien Street, from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue. Specifically, this project is located in Sections 17 & 20 of Township 6 North, Range 6 East, as shown on the Seymour USGS 7.5 Minute Topographic Map. Des No. 2101694 extends from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue. O'Brien Street is classified as an Urban Minor Arterial roadway that runs north/south through the project area and consists of two travel lanes. The proposed project will include a roadway reconstruction with a combined curb and gutter on O'Brien Street. The scope of work for the project will also include constructing a new multi-use path along the west side of the street, providing improved storm sewers, and installing lighting. In addition, it is anticipated that all intersecting public roads, alleys, and drive approaches will be reconstructed to the extent necessary to provide adequate radii and tie into the new O'Brien Street edge of the pavement.

Bridge Work Included in Project: Yes ☐ No ☒ Structure #(s) _____

If this is a bridge project, is the bridge Historical? Yes ☐ No ☐ , Select ☐ Non-Select ☐
(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

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

Proposed right of way: Temporary ☒ # Acres _0.20_, Permanent ☒ # Acres _1.60_, Not Applicable ☐

Type and proposed depth of excavation: Excavation will occur with this project for the installation and reconstruction of the multi-use path and curbs and the storm sewer system. The depth of excavation is not anticipated to exceed 6 feet.

Maintenance of traffic (MOT): This project's maintenance of traffic has not yet been determined but is anticipated to include the closure of O'Brien Street from Burkart Boulevard Bypass to Village Circle Avenue with an official detour. Residents will detour to nearby local streets to park.

Work in waterway: Yes ☐ No ☒ Below ordinary high water mark: Yes ☐ No ☒
State Project: ☐ LPA: ☒
Any other factors influencing recommendations: N/A

INFRASTRUCTURE TABLE AND SUMMARY

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

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

Explanation:

Religious Facilities: One (1) religious facility is located within the 0.5 mile search radius. The nearest facility, Zion Lutheran Church, is located 0.17 mile west of the project area. No impact is expected.

Airports: Although not located within the 0.5 mile search radius, one (1) public-use airport is located within 3.8 miles (20,000) feet of the project area. The public-use airport, Freeman Municipal Airport, is located approximately 0.51 mile southwest of the project area; therefore, early coordination with INDOT Aviation will occur.

Recreational Facilities: One (1) recreational facility is located within the 0.5 mile search radius. The facility, Gaiser Park, is located 0.31 mile west of the project area. No impact is expected.

Pipelines: One (1) pipeline segment is located within the 0.5 mile search radius. The pipeline segment, natural gas, owned by Indiana Gas Co. Inc., is adjacent on the east and north sides of the project area. Coordination with Indiana Gas Company Inc will occur.

Railroads: Two (2) railroads are located within the 0.5 mile search radius. Two (2) railroad segments, Louisville and Indiana RR, crosses the project area. Coordination with Louisville and Indiana RR 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	**N/A**	Canal Routes - Historic	**N/A**
Karst Springs	**N/A**	NWI - Wetlands	**N/A**
Canal Structures – Historic	**N/A**	Lakes	**N/A**
NPS NRI Listed	**N/A**	Floodplain - DFIRM	**N/A**
NWI-Lines	**1**	Cave Entrance Density	**N/A**
IDEM 303d Listed Streams and Lakes (Impaired)	**2**	Sinkhole Areas	**N/A**

Rivers and Streams	**4**	Sinking-Stream Basins	**N/A**

Explanation:

NWI-Lines: Two (2) NWI-Line segment is located within the 0.5 mile search radius. The NWI-Line segment is located approximately 0.12 mile east of the project area. No impact is expected.

IDEM 303d Listed Rivers and Streams: Two (2) IDEM 303d listed streams are located within the 0.5 mile search radius. The stream is located approximately 0.47 mile southeast of the project area. No impact is expected.

Rivers and Streams: Four (4) stream segments are located within the 0.5 mile search radius. The nearest stream Segment, Grassy Fork, is located approximately 0.34 mile west of the project area. No impact is expected.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

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

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

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Superfund	**N/A**	Manufactured Gas Plant Sites	**N/A**
RCRA Generator/ TSD	**N/A**	Open Dump Waste Sites	**N/A**
RCRA Corrective Action Sites	**N/A**	Restricted Waste Sites	**N/A**
State Cleanup Sites	**N/A**	Waste Transfer Stations	**N/A**
Septage Waste Sites	**N/A**	Tire Waste Sites	**N/A**
Underground Storage Tank (UST) Sites	**3***	Confined Feeding Operations (CFO)	**N/A**
Voluntary Remediation Program	**N/A**	Brownfields	**N/A**
Construction Demolition Waste	**N/A**	Institutional Controls	**N/A**
Solid Waste Landfill	**N/A**	NPDES Facilities	**5**
Infectious/Medical Waste Sites	**N/A**	NPDES Pipe Locations	**3**
Leaking Underground Storage (LUST) Sites	**N/A**	Notice of Contamination Sites	**N/A**

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

Explanation:

Underground Storage Tank (UST) Sites*: Three (3) UST sites, two (2) mapped and one (1) unmapped, are located within the 0.5 mile search radius. Village Green Mobile Home Park, 833 South O'Brien Street, and AI ID# 31532, is located 0.14 mile north of the project area. The UST Closure Report dated October 28, 1999, documents that the site contained one (1) 10,000 gallon storage tank that was used to store fuel oil until the late 1970s, when its use was discontinued. The UST was removed from the property on October 14, 1999, and no petroleum contamination was identified in the soil samples. No impact is expected.

NPDES Facilities: Five (5) NPDES facilities are located within the 0.5 mile search radius. The facility, Silgan Plastic Corporation, Permit # INRA05072, 3779 N 850 East, is located adjacent to the east side of the project. The permit was terminated on 11/14/2021. No impact is expected.

NPDES Pipe Locations: Three (3) NPDES Pipe Locations are located within the 0.5 mile search radius. Two (2) pipe locations are associated with Silgan Plastics Corporation are mapped under the same icon on GIS located within the property adjacent to the project. Silgan Plastics Corporation, NPDES Permit # IN0001864, 3779 North Country Road 850 East, discharged to Grassy Fork. The permit was terminated on April 3, 2020. No impact is expected.

ECOLOGICAL INFORMATION SUMMARY

The Jackson County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities can be found at https://www.in.gov/dnr/naturepreserve/files/np_jackson.pdf. A preliminary review of the Indiana Natural Heritage Database by INDOT ESD did not indicate the presence of ETR species within the 0.5 mile search radius. Coordination with USFWS and IDNR will occur.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects".

RECOMMENDATIONS SECTION

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

INFRASTRUCTURE:
Airports: Freeman Municipal Airport, a public-use airport, is located 0.51 mile west of the project area. Coordination with INDOT Aviation will occur.
Railroads: Two (2) railroad segments, CSX RR and Louisville and Indiana RR, cross the project area. Coordination with CSX RR and Louisville and Indiana RR will occur.
Pipelines: One (1) pipeline segment, Indiana Gas Co. Inc., is adjacent on the east and north sides of the project area. Coordination with Indiana Gas Company Inc will occur.

WATER RESOURCES: N/A

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

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

INDOT ESD concurrence: Shelby O'Neal Digitally signed by Shelby O'Neal Date: 2024.01.05 10:45:18 -05'00' (Signature)

Prepared by:

Shawn Slaymon
Project Environmental Specialist
GAI Consultants, Inc.

Graphics:

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

SITE LOCATION: YES

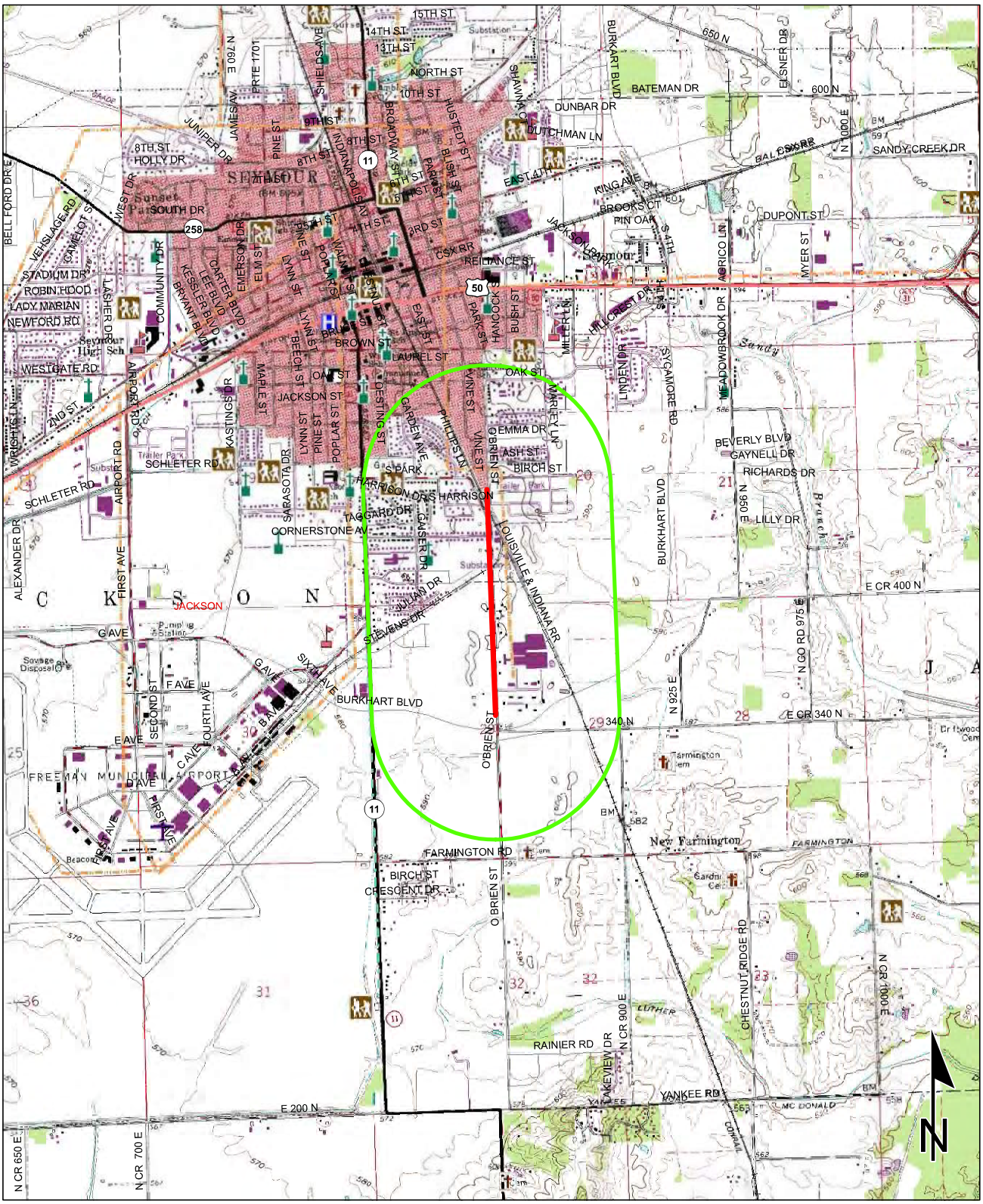
INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: YES

Red Flag Investigation - Site Location
O'Brien Street, from Burkhart Blvd Roundabout to Village Circle Avenue
Des. No. 2101694, Road Reconstruction
Jackson County, Indiana



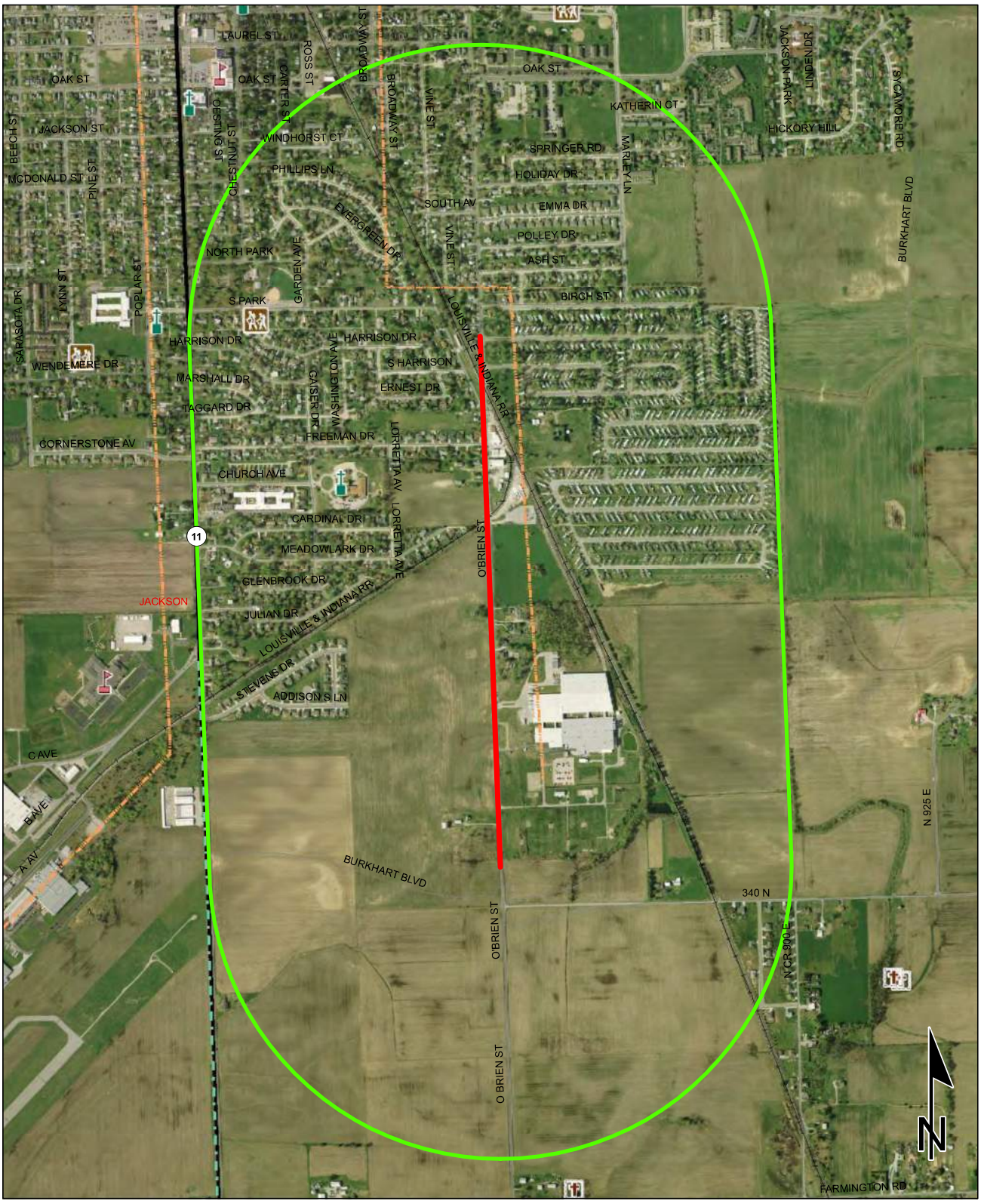
Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

0.5 0.25 0 0.5 Miles

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

SEYMOUR QUADRANGLE
INDIANA
7.5 MINUTE SERIES
(TOPOGRAPHIC)

Red Flag Investigation - Infrastructure
O'Brien Street, from Burkhart Blvd Roundabout to Village Circle Avenue
Des. No. 2101694, Road Reconstruction
Jackson County, Indiana



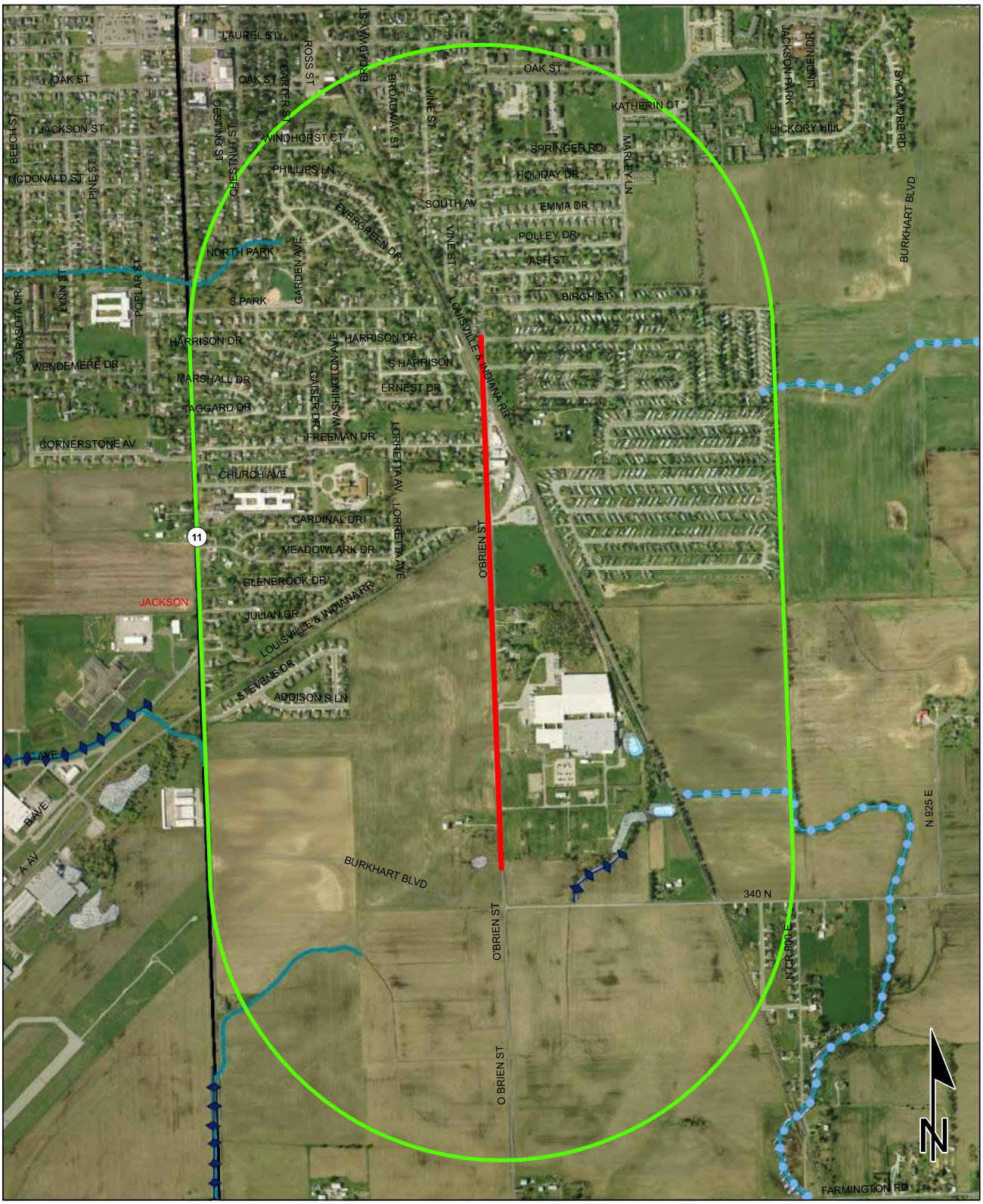
0.2 0.1 0 0.2 Miles

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

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

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

Red Flag Investigation - Water Resources
O'Brien Street, from Burkhart Blvd Roundabout to Village Circle Avenue
Des. No. 2101694, Road Reconstruction
Jackson County, Indiana



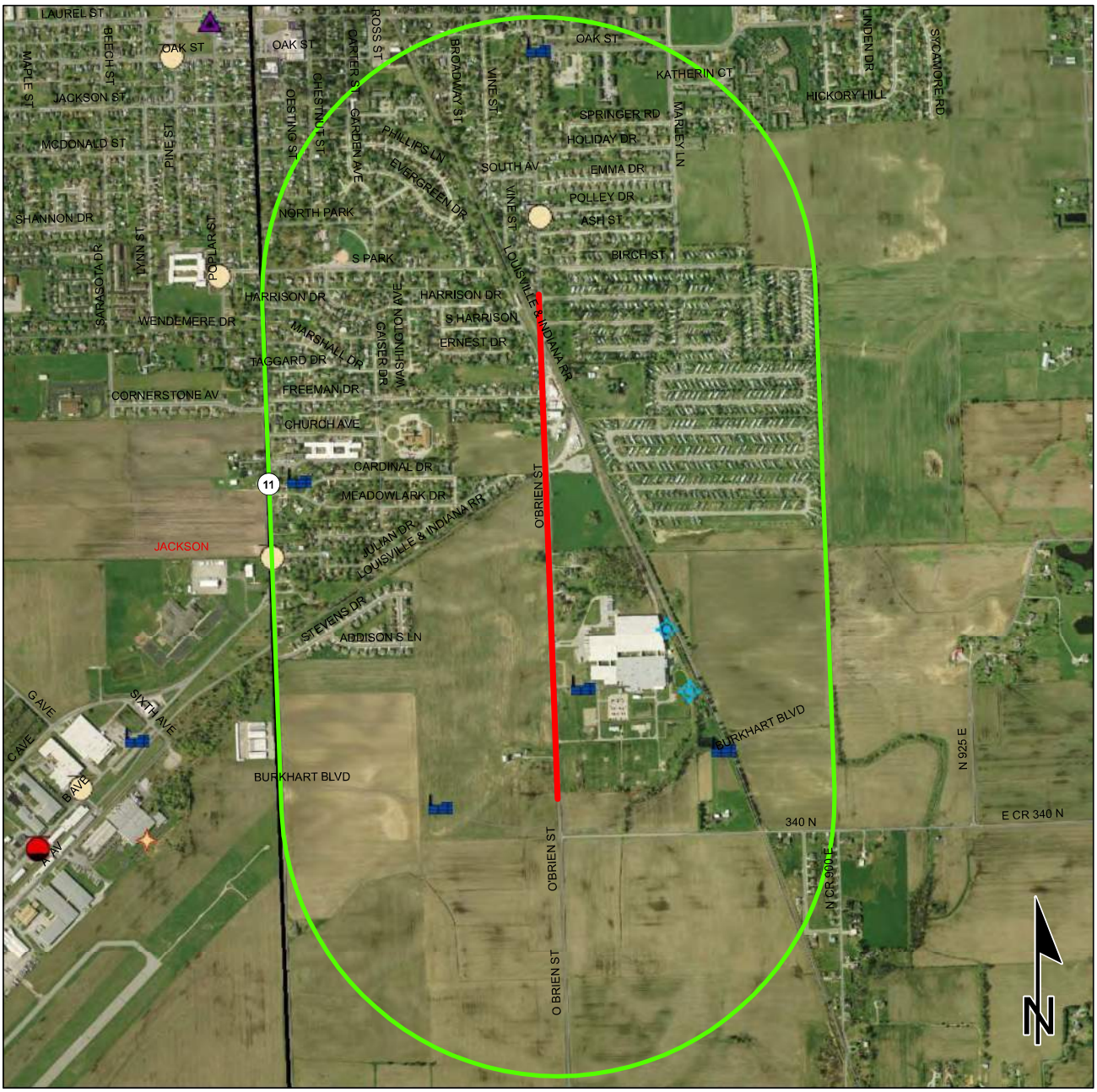
0.2 0.1 0 0.2 Miles

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

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

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

Red Flag Investigation - Hazardous Material Concerns
O'Brien Street, from Burkhart Blvd Roundabout to Village Circle Avenue
Des. No. 2101694, Road Reconstruction
Jackson County, Indiana



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

0.25 0.125 0 0.25 Miles

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

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

Appendix F

Water Resources

Item	Appendix Page
Waters of the United States Report	F1 to F36

Waters of the U.S. Determination

O'Brien Street Phase 1
from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue
Roadway Reconstruction
City of Seymour
Jackson County, Indiana

Des No. 2101694

Site Investigation: September 4, 2024

November 2024

Author:

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Prepared for: City of Seymour
301 North Chestnut Street
Seymour, Indiana 47274

Introduction

The City of Seymour and Federal Highway Administration (FHWA) intend to proceed with road reconstruction project located in Seymour, Jackson County, Indiana. (Figure 1). Specifically, this project is located:

- On O'Brien Street from Burkhart Boulevard Bypass Roundabout to Village Circle Avenue
- In Section 20 & 29, Township 6 North, Range 6 East, as shown on the Seymour United States Geological Surgery (USGS) 7.5 Minute Topographic Maps (Figures 2 & 3)
- Coordinates: 38.94039, -85.88069

The project scope intends to improve O'Brien Street by reconstructing the pavement and adding new sidewalks, cub and gutter, and drainage infrastructure. The purpose of this project is to improve pavement conditions, improve pedestrian mobility, and improve stormwater drainage.

Methods

Wetland delineations were conducted in accordance with the 1987 United States Army Corps of Engineers (USACE) *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0)* (USACE, 2012). Wetlands were classified using the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al., 1979). Classification of the indicator status of vegetation is based on *The National Wetland Plant List:* 2016 wetland ratings (Lichvar et al. 2016).

Desktop Review

The investigated area topography has relatively flat with man-made elevation changes due to prior roadway construction. (Figures 2 & 3). The investigated area is within the Scottsburg Lowland physiographic region of the Southern Hills and Lowlands (Indiana Geological Survey, 2000). Land use in the vicinity of the investigated area is a combination of residential, commercial, and agricultural.

National Wetland Inventory (NWI)

The United States Fish and Wildlife Service (USFWS) NWI Wetlands Mapper was reviewed for potential wetland locations. One NWI wetland is mapped adjacent to the investigated area (NWI Map, Figure 5). The wetland is classified as a PEM1A, Palustrine Emergent Wetland Persistent Temporary Flooded. The wetland is located to the southwest and just outside the proposed project area.

National Hydrography Dataset (NHD)

NHD represents the water drainage network surface water component on the USGS topographic maps. One NHD flowline is located within the investigated area. The NHD line listed is a pipeline located in the northern portion of the investigated area (NHD Map, Figure 5).

Watersheds

The investigated area is located within the Heddy Run-East Fork White River and Mutton Creek watershed, which is identified by the 12-digit hydrologic unit code (HUC12) 051202060502 and 051202070704 (Figure 9).

Natural Resources Conservation Service (NRCS) Soil Survey

The NRCS Soil Survey of Jackson County identified ten soil series within the investigated area, Table 1. Two soils are listed as hydric soils. (Figure 7)

Table 1. NRCS Soil Survey Area of Interest Results

Map Unit Name (Map Symbol)	NRCS Flooding Frequency/Hydrology	NRCS Drainage Class	Hydric Status
Ayrshire fine sandy loam, sandy substratum, 0 to 2 percent slopes (AzoA)	No ponding, no flooding	Somewhat poorly drained	Non-Hydric
Bloomfield-Alvin complex, 1 to 6 percent slopes (BkeB)	No ponding, no flooding	Somewhat excessively drained	Non-Hydric
Bloomfield-Alvin complex, 6 to 15 percent slopes, eroded (BkeC2)	No ponding, no flooding	Somewhat excessively drained	Non-Hydric
Bobtown loamy fine sand, 0 to 3 percent slopes (BnjA)	No ponding, no flooding	Moderately well drained	Non-Hydric
Lyles fine sandy loam, 0 to 1 percent slopes (LvlA)	Frequent ponding, no flooding	Poorly drained	Hydric
Udorthents-Aquents complex (UcvA)	No ponding, no flooding	Well drained	Non-Hydric
Urban land-Bobtown complex, 0 to 3 percent slopes (UegA)	No ponding, no flooding	N/A	Non-Hydric
Urban land-Ayrshire, sandy substratum, complex, 0 to 2 percent slopes (UezA)	No ponding, no flooding	N/A	Predominantly Non-Hydric
Urban land-Bloomfield-Alvin complex, 1 to 6 percent slopes (UfaB)	No ponding, no flooding	N/A	Non-Hydric
Urban land-Lyles complex, 0 to 1 percent slopes (UlfA)	Frequent ponding, no flooding	N/A	Partially Hydric

Floodway

The investigated area is not located within an Indiana Department of Natural Resources (IDNR) Approximated Floodway according to the IDNR Floodplain map. (Figure 8)

Field Reconnaissance

A field visit to inspect the investigated area for aquatic resources was conducted by GAI Consultants, on September 4, 2024. The survey footprint extended along O'Brien Street from 275' north of the Burkart Boulevard Roundabout, proceeding north to the double railroad crossing. Most of the

investigated area extended 40' east and west of O'Brien Street centerline. At the northern portion near the double railroad tracks the investigated area expanded to 160' wide. At the southern portion near Burkhart Boulevard Roundabout, the investigated area expanded to 100' wide.

One wetland was identified within the investigated area. No streams were identified within the investigated area. Six roadside ditches were identified within the investigated area (Water Resources, Figure 10 Overall). The description of the wetland and upland data collected is represented in Table 2.

Waterbodies

The investigated area was inspected for the presence of streams. Recommendations on the jurisdictional status of water resources within the investigated area were made based on guidance from the USACE Jurisdictional Determination Form Instructional Guidebook (2007).

The documented NHD line showed connectivity to another jurisdictional feature. No stream was identified where the NHD line was documented. No Ordinary High-Water Mark (OHWM) was observed within the investigated area.

Wetlands

The USACE 1987 Wetland Delineation Manual and the 2012 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0) were used to determine whether wetlands were present within the survey area. Wetland/Non-wetland determinations were made using guidance and techniques provided by the Delineation Manual and Regional Supplement, including vegetation (*National Wetland Plant List*, Lichvar et al, 2016), hydrology, and soil characteristics. Sample points were taken in areas where potential wetland hydrology and/or hydrophytic vegetation were observed. The soils observed at each sample point location were compared to the hydric soil indicators presented in the Field Indicators of Hydric Soils in the United States.

One wetland feature that met all three of the USACE wetland criteria was observed within the investigated area. A detailed description of the features is discussed below. A wetland and two upland determination forms from the site investigation are located in the attachments and represent the data point taken to characterize the geographic feature found within the site.

Data Point (DP1)/Wetland A

Data Point 1 (DP1) was taken as a wetland data point on the west side of O'Brien Street in the southern portion of the investigated area. DP1 was taken as a delineation point. DP1 is located near the edge of the right-of-way in an area with limited maintenance activities. In the herb stratum, the dominant species was Narrowleaf Cattail (*Typha angustifolia*, OBL) with Tall Goldenrod (*Solidago altissima*, FACU) with broadleaf cattail (*Typha latifolia,* OBL) and White Boneset (*Eupatorium serotinum*, FAC) as other species observed. DP1 did meet the Hydrophytic Vegetation criteria with a Prevalence Index of 2.63. DP1 did meet the hydric soil criterion with a Hydric Soil Indicator of S1 Sandy Mucky Mineral. DP1 met at least 1 wetland hydrology indicator with B9 Water-Stained Leaves. In meeting all three of the USACE wetland criteria, DP1 was determined to be within a wetland. The wetland was delineated to be 0.04 acre in size within the expected project area. Wetland A drains to Roadside Ditch 1 that flows south outside the investigated area and continues along the roadway heading east. Wetland A eventually drains into UNT 3 to Luther McDonald Ditch to the southeast via roadside ditches along O'Brien Street and Burkart Boulevard. This wetland is likely to be considered a Waters of the United States due to its connectivity to UNT 3 to Luther McDonald Ditch.

Data Point 2/Upland

Data Point 2 (DP2) was taken as an upland data point on the north side of Wetland A. DP2 was taken as a delineation point. DP2 is located near the edge of the right-of-way in an area with limited maintenance activities. In the herb stratum, the dominant species was Rice Cutgrass (*Leersia oryzoides*, UPL). Dudley's Rush (*Juncus dudleyi*, FACW) and Torrey's Rush (*Juncus torreyi*, FACW)

were both observed as the next prominent species as both had 10% coverage but did not meet dominant species status. DP2 did not meet the Hydrophytic Vegetation criteria due to a 3.90 Prevalence Index score. DP2 failed to meet the hydric soil criterion and did not register any Hydric Soil Indicators. DP2 failed to meet any Primary Wetland Hydrology Indicators but did meet the Crayfish Burrows (C8) Secondary Indicator. In not meeting any of the USACE wetland criteria, DP2 was determined not to be within a wetland.

Data Point 3/Upland

Data Point 3 (DP2) was taken as an upland data point on the south side of Wetland A. DP3 was taken as a delineation point. DP3is located near the edge of the right-of-way in an area with limited maintenance activities. In the herb stratum, the dominant species were Rough Cocklebur (*Xanthium strumarium*, FAC) and Rice Cutgrass (*Leersia oryzoides*, UPL). DP3 did not meet the Hydrophytic Vegetation criteria due to a 3.24 Prevalence Index score. DP3 did meet hydric soil criterion. DP3 registered 3 Hydric Soil Indicators with Stratified Layers (A5), Stripper Matrix (S6) and Dark Surface (S7). DP3 failed to meet any Primary or Secondary Wetland Hydrology Indicators. In only meeting one USACE wetland criteria, DP3 was determined not to be within a wetland.

Roadside Ditches and Other Drainages

Six roadside ditches (RSD) were discovered during the investigation.

RSD 1 starts east of the investigated area along the east side of O'Brien Street. RSD runs near the industrial property drive entrance and continues south along O'Brien Street while following the recently constructed roundabout to the east. The topography, due to the roadway and adjacent property, has the ditch direct water from north to south and collects water along the east side of the roadway. A small drainage pipe connects Wetland A to outfall into the RSD closer to the roundabout and into the ditch line. RSD consists of typical lawn grasses with the primary species being tall fescue (*Festuca arundinacea*) and Perennial Ryegrass (*Lolium perenne*). There is no defined OHWM. RSD outlets to UNT 3 to Luther McDonald Ditch.

RSD 2 starts approximately 830' south of the southern railroad tracks on the east side of O'Brien Street within the investigated area. RSD 2 runs from south to north due to the topography and grading. Due to herbicide treatments, RSD 2 shows signs of maintenance activities with dead vegetation. RSD vegetation was hard to identify due to herbicide treatments. Adjacent vegetation to the treated area includes tall fescue (*Festuca arundinacea*), goldenrod (*Solidago* sp.), foxtail (*Setaria* sp.) and small silver maple (*Acer saccharinum*) sprouts. A small metal corrugated pipe connected the RSD 2 to RSD 3 is located at the northern end where RSD 2 ends (photo 26.) No OHWM was discovered within the RSD.

RSD 3 starts roughly 900' south of the southern railroad tracks within the investigated area on the west side of O'Brien Street. RSD 3 runs from south to north due to the topography and grading. RSD 3 is adjacent to an agricultural field that had soybeans (*Glycine max*) at the time of investigation. RSD 3 shows some signs of maintenance activities or overspray from adjacent agricultural field work. RSD 3 vegetation includes tall fescue (*Festuca arundinacea*), foxtail (*Setaria* sp.), silver maple (*Acer saccharinum*) sprouts, Poison Ivy (*Toxicodendron radicans*) and Biennial Beeblossom (*Oenothera gaura*). A small 10' corrugated metal drive pipe is located with the RSD towards the northern portion near the railroad tracks. A small corrugated metal pipe connects RSD 2 to RSD 3 just north of the drive pipe. RSD 3 turns west when it approaches the railroad tracks and follows the railroad tracks to the west. No define OHWM was discovered within the RSD.

RSD 4 starts just north of the southern railroad tracks within the investigated area on the east side of O'Brien Street. RSD 4 is approximately 335' in length and runs from south to north with an industrial company to the east. Sedimentation runoff from the adjacent property and railroad tracks helped define

RSD 4. Primary vegetation consists of tall fescue (*Festuca arundinacea*) and Perennial Ryegrass (*Lolium perenne*). No OHWM was discovered with the RSD.

RSD 5 is located just north of South Park Drive on the northern portion of the investigated area. RSD 5 starts from an outlet pipe. RSD5 continues past the investigation area to the west and the ditch line flattens to a shallow swale. The flow of the ditch line is from the southeast and runs north west. The sedimentation from RSD 4 help determined flow into RSD 5 is connected through an underground stormwater system that connect the RSDs together. Primary vegetation within RSD 5 consists of tall fescue (*Festuca arundinacea*) and Perennial Ryegrass (*Lolium perenne*). No OHWM was discovered with the RSD.

RSD 6 is located north of the northern railroad tracks within the investigated area. RSD 6 is a ditch line that runs along the full length of the railroad tracks and extends beyond the investigated area. RSD 6 was lined with gravel and sedimentation buildup. Vegetation was limited within the ditch line however tall fescue (*Festuca arundinacea*) and Perennial Ryegrass (*Lolium perenne*) were adjacent when observed. No OHWM was discovered in RSD 6.

There is no OHWM for any of the RSD. RSD 1 has connectivity to UNT 3 to Luther McDonald Ditch, a jurisdictional waters. None of the RSD are considered as a Waters of the U.S. (Figure 10)

Open Water

No open water such as lakes or ponds was observed in the investigated area.

Wildlife Observations

No wildlife was observed within the investigated area. No aquatic wildlife was observed within the roadside ditches.

Conclusions

One wetland was identified within the investigated area. Wetland A is located on the west side of O'Brien Street in the southern portion of the investigated area. Wetland A is a 0.04 acre wetland that is located in the southwestern portion of the investigated area. Wetland A is classified as a PEM1A wetland. Wetland A was likely formed due to its geomorphic position in a slight depressional area that collects from agricultural fields and roadway runoff. Wetland A showed a connection via roadside ditch as a significant nexus to UNT 3 to Luther McDonald Ditch, a Waters of the US. Wetland A is considered a jurisdictional stream.

Multiple RSDs were found within the investigated area. No unusual circumstances were identified during the investigation. One RSD, RSD 1, was observed in the investigation area and showed a connection to a Waters of the US. No other RSDs showed a connection to a Waters of the US.

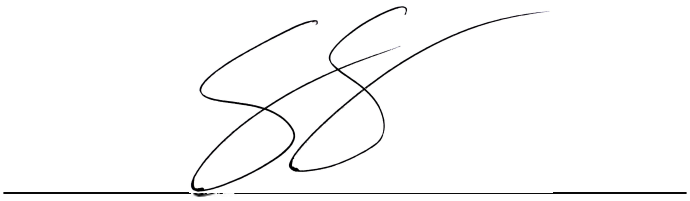
Every effort should be taken to avoid and minimize impacts on the wetlands and streams. If impacts are necessary, then mitigation may be required. The final determination of jurisdictional waters is ultimately made by USACE. This report is our best judgment based on the guidelines set forth by USACE.

Acknowledgment

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

Table 2: Wetland Summary Table

Wetland ID	Type	Acreage	Quality	Photo IDs	Associated Structure ID	Likely WOTUS?	Data Point ID	Lat/Long	Dominant Vegetation	Hydric Soil Indicators	Hydrology Indicators	Within Wetland	Notes
Wetland A	PEM1A	0.04	Class 1	1-6	N/A	Yes	DP-1	38.933889, -85.880556	*Typha angustifolia, Panicum capillare, Xantium oreintale, Setaria italica*	S1	B9, C8	Yes	

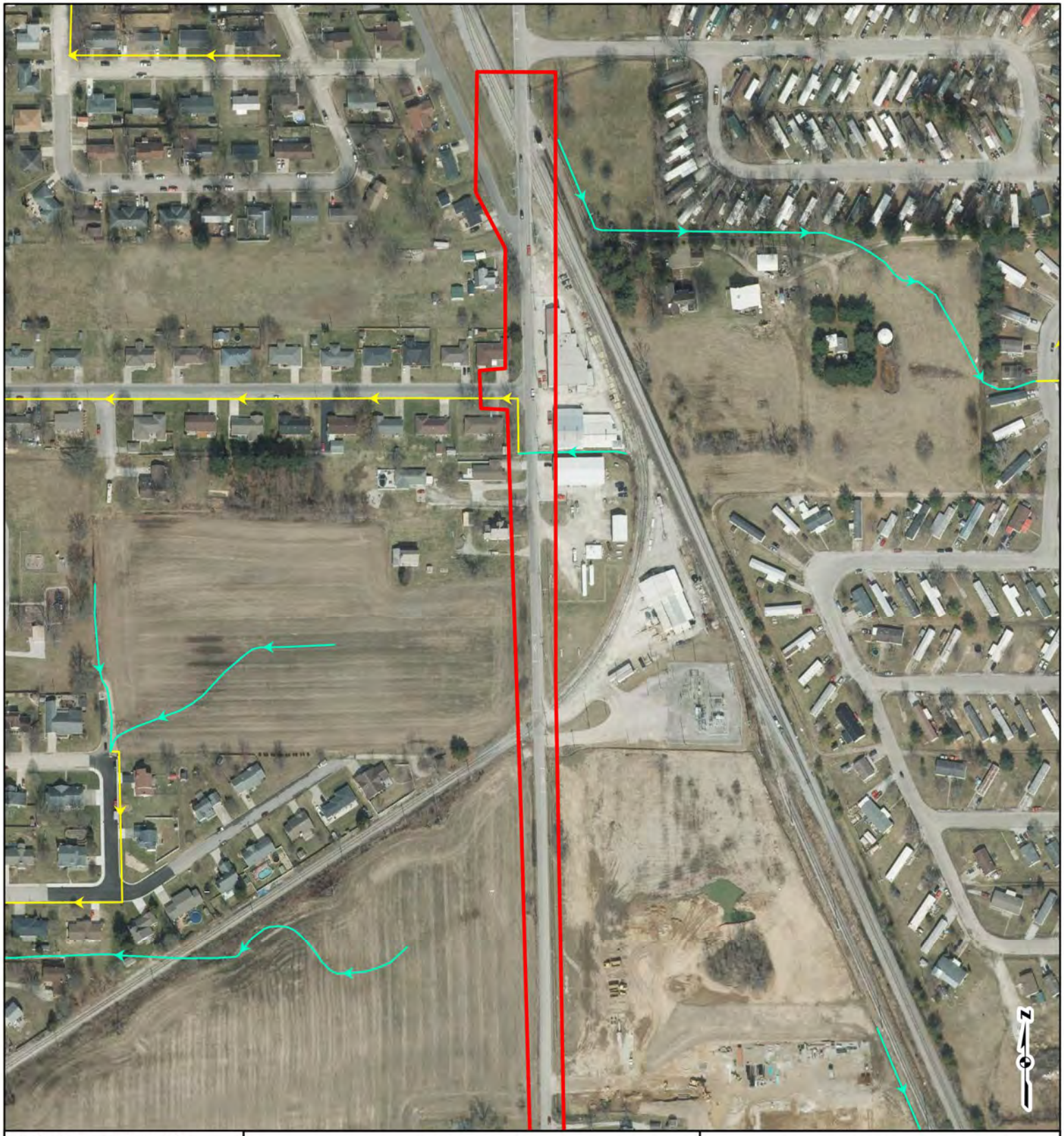


Shawn C. Slaymon, CISEC MS4CECI
Project Environmental Specialist

Attachments:

~~Figure 1- Project Location Map~~
~~Figure 2- Topographic Map~~
~~Figure 3- Topographic Map Zoo~~med In
~~Figure 4- Aerial Map~~
Figure 5- NWI Map & NHD Map
Figure 6- StreamStats Report
Figure 7- NRCS Soil Map
Figure 8- IDNR Floodplain Map
Figure 9- HUC12 Watershed Map
Figure 10- Water Resources Map
Figure 11- Photo Location Map
~~Figure 12- Site Photos~~
Figure 13- Wetland Determination Forms

removed to avoid duplication in document



PROJECT LOCATION

JACKSON COUNTY, INDIANA

LEGEND

- Investigation Area
- 0 - 5,000
- Pipeline

0 200 400 700 Feet

NWI & NHD MAP 1
FIGURE 5

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 12/6/2024
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 12/2024; COUNTY BOUNDARY ESRI 2010
null

gai consultants

PROJECT LOCATION

JACKSON COUNTY, INDIANA

LEGEND

- Investigation Area
- 0 - 5,000
- Pipeline
- Freshwater Emergent Wetland
- Freshwater Forested/ Shrub Wetland

0 200 400 700 Feet

N

NWI & NHD MAP 2
FIGURE 5

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 12/6/2024
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 12/2024; COUNTY BOUNDARY ESRI 2010;
null

gai consultants

U.S. Fish and Wildlife Service
National Wetlands Inventory

DES# 2101694 O'Brien Street Figure 5

January 30, 2025

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

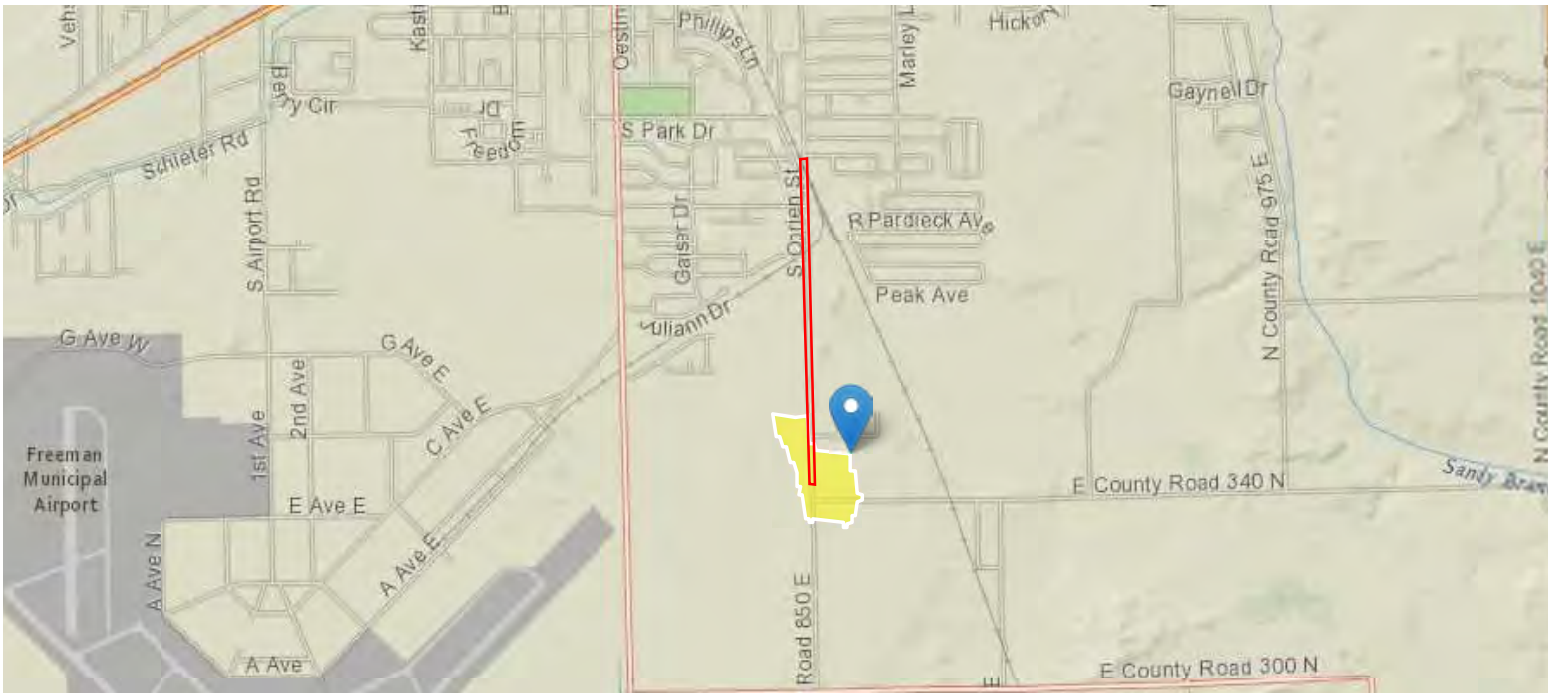
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

O'Brien Street - StreamStats Report

STREAMSTATS REPORT
FIGURE 6

Region ID: IN
Workspace ID: IN20250203180040989000
Clicked Point (Latitude, Longitude): 38.93393, -85.87860
Time: 2025-02-03 13:01:15 -0500



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.037	square miles

Application Version: 4.26.0
StreamStats Services Version: 1.2.22
NSS Services Version: 2.2.1

NRCS SOILS MAP
FIGURE 7

Custom Soil Resource Report
Map—Hydric Rating by Map Unit

Map Scale: 1:7,830 if printed on A portrait (8.5" x 11") sheet.

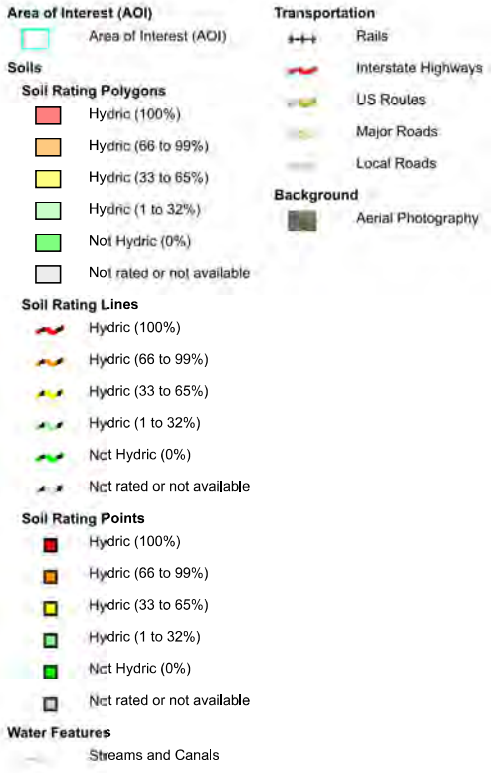
N

Meters
0 100 200 400 600

Feet
0 350 700 1400 2100

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Jackson County, Indiana
Survey Area Data: Version 30, Aug 27, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 15, 2022—Jul 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AzoA	Ayrshire fine sandy loam, sandy substratum, 0 to 2 percent slopes	5	1.6	19.0%
BkeB	Bloomfield-Alvin complex, 1 to 6 percent slopes	0	0.6	7.5%
BkeC2	Bloomfield-Alvin complex, 6 to 15 percent slopes, eroded	0	0.6	7.7%
BnjA	Bobtown loamy fine sand, 0 to 3 percent slopes	0	0.1	1.2%
LvlA	Lyles fine sandy loam, 0 to 1 percent slopes	95	1.1	13.5%
UcvA	Udorthents-Aquents complex	5	0.0	0.2%
UegA	Urban land-Bobtown complex, 0 to 3 percent slopes	0	0.2	2.7%
UezA	Urban land-Ayrshire, sandy substratum, complex, 0 to 2 percent slopes	2	1.7	20.0%
UfaB	Urban land-Bloomfield-Alvin complex, 1 to 6 percent slopes	0	0.0	0.1%
UlfA	Urban land-Lyles complex, 0 to 1 percent slopes	43	2.3	28.1%
Totals for Area of Interest			**8.3**	**100.0%**

Rating Options—Hydric Rating by Map Unit

Aggregation Method: Percent Present

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

Drainage Class

"Drainage class (natural)" refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized-excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

Custom Soil Resource Report
Map—Drainage Class

Map Scale: 1:7,830 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 100 200 400 600

Feet: 0 350 700 1400 2100

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Soil Rating Lines
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Soil Rating Points
- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well drained
- Somewhat poorly drained
- Poorly drained
- Very poorly drained
- Subaqueous
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Jackson County, Indiana
Survey Area Data: Version 30, Aug 27, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 15, 2022—Jul 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Drainage Class

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
AzoA	Ayrshire fine sandy loam, sandy substratum, 0 to 2 percent slopes	Somewhat poorly drained	1.6	19.0%
BkeB	Bloomfield-Alvin complex, 1 to 6 percent slopes	Somewhat excessively drained	0.6	7.5%
BkeC2	Bloomfield-Alvin complex, 6 to 15 percent slopes, eroded	Somewhat excessively drained	0.6	7.7%
BnjA	Bobtown loamy fine sand, 0 to 3 percent slopes	Moderately well drained	0.1	1.2%
LvlA	Lyles fine sandy loam, 0 to 1 percent slopes	Poorly drained	1.1	13.5%
UcvA	Udorthents-Aquents complex	Well drained	0.0	0.2%
UegA	Urban land-Bobtown complex, 0 to 3 percent slopes		0.2	2.7%
UezA	Urban land-Ayrshire, sandy substratum, complex, 0 to 2 percent slopes		1.7	20.0%
UfaB	Urban land-Bloomfield-Alvin complex, 1 to 6 percent slopes		0.0	0.1%
UlfA	Urban land-Lyles complex, 0 to 1 percent slopes		2.3	28.1%
Totals for Area of Interest			**8.3**	**100.0%**

Rating Options—Drainage Class

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

DNR Indiana Department of Natural Resources

Floodplain Analysis & Regulatory Assessment (FARA)

Point of Interest
Base Flood Elevation Point
POI
1.0
FEMA Zone AE Floodway; FEMA Administrative Floodway
FEMA Zone AE
Additional Floodplain Area; DNR .2 Percent Flood Hazard
Not Mapped
FPA Jurisdictions

RGB
Red: Band_1
Green: Band_2
Blue: Band_3

Long: **-85.8808203579373**
Lat: **38.933322391931256**

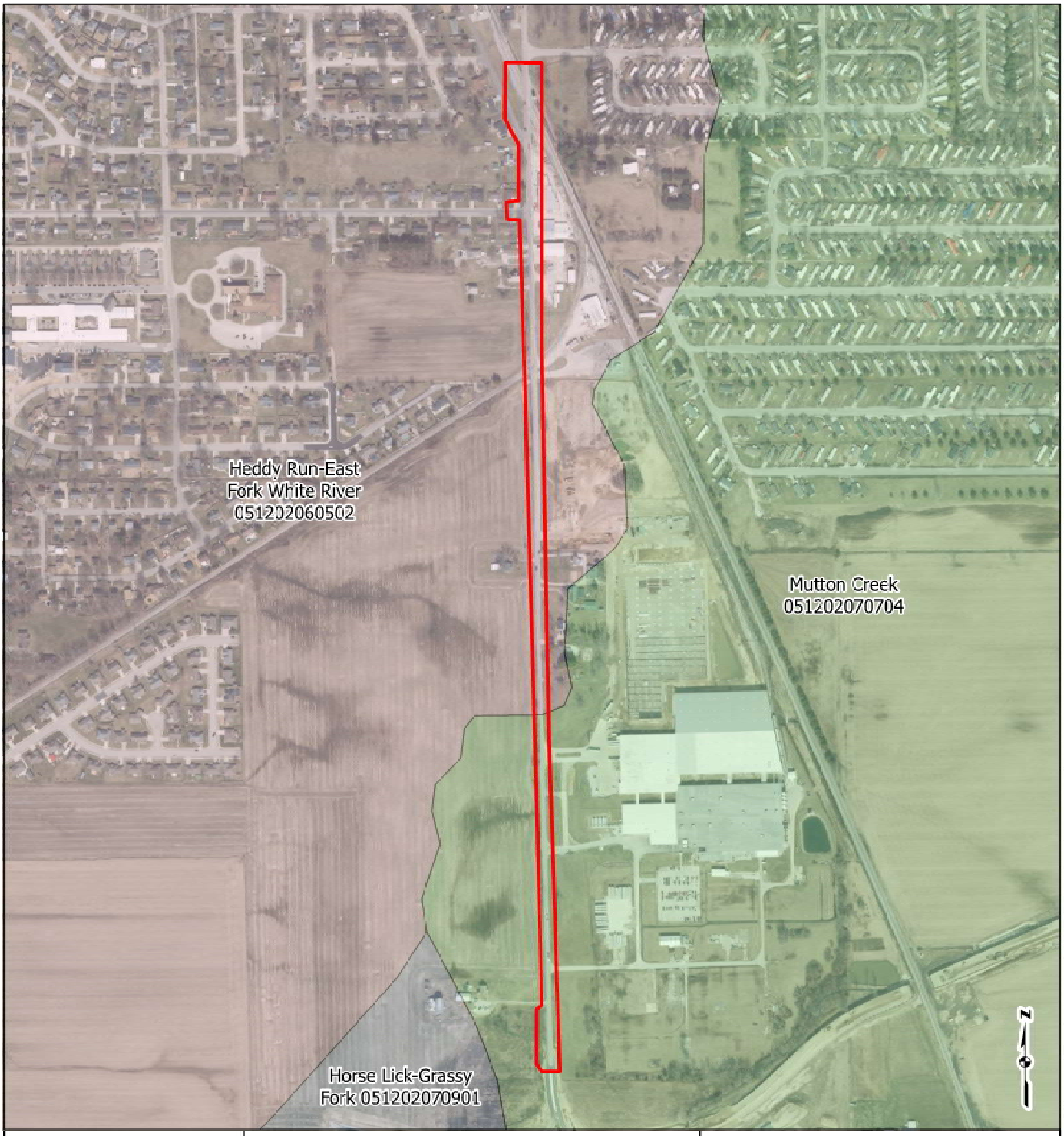
The information provided below is based on the point of interest shown in the map above.

County: **Jackson**
Stream Name: **Luther Mcdonald Ditch**
Approximate Ground Elevation: **593.4 feet (NAVD88)**
Base Flood Elevation: **576.3 Feet (NAVD88)**
Drainage Area: **Not Available**

Best Available Flood Hazard Zone: **Not Mapped**
National Flood Hazard Zone: **Not Mapped**
Is a Flood Control Act permit from the DNR needed for this location? **See following pages**
Is a local floodplain permit needed for this location? **Contact your local Floodplain Administrator-**
Floodplain Administrator: **Conner Barnette, Building Commissioner**
Community Jurisdiction: **Jackson County, County proper**
Phone: **(812) 358-6109**
Email: **cbarnette@jacksoncounty.in.gov**
US Army Corps of Engineers District: **Louisville**

IDNR FLOODPLAIN MAP
FIGURE 8

Date Generated: 2/3/2025



PROJECT LOCATION

JACKSON
COUNTY,
INDIANA

LEGEND

- Investigation Area
- 051202060502,Heddy Run-East Fork White River
- 051202070704,Mutton Creek
- 051202070901,Horse Lick-Grassy Fork

0 400 800 2,000 Feet

HUC 12 WATERSHED MAP
FIGURE 9

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 12/6/2024
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 12/2024. COUNTY BOUNDARY,ESRI,2010.
null

gai consultants

PROJECT LOCATION

JACKSON COUNTY, INDIANA

LEGEND

- Investigation Area
- Wetland A
- Wetland DP
- Upland DP

0 30 50 100 Feet

WATER RESOURCES
FIGURE 10 WETLAND

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 12/6/2024
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 12/2024. COUNTY BOUNDARY,ESRI,2010.
null

gai consultants.

PROJECT LOCATION

JACKSON COUNTY, INDIANA

LEGEND

Investigation Area

Wetland A

Roadside Ditch

0 400 800 2,000 Feet

WATER RESOURCES
FIGURE 10 OVERALL

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 1/31/2025

CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 01/2025. COUNTY BOUNDARY,ESRI,2010.

null

gai consultants

PROJECT LOCATION

JACKSON COUNTY, INDIANA

LEGEND

Investigation Area

1 Photo Location Marker

0 60 120 240 360 Feet

PHOTO LOCATION MAP
FIGURE 4

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 12/11/2024
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 12/2024. COUNTY BOUNDARY,ESRI,2010.

gai consultants.

PROJECT LOCATION

JACKSON COUNTY, INDIANA

LEGEND

Investigation Area

1 Photo Location Marker

0 60 120 240 360 Feet

PHOTO LOCATION MAP
FIGURE 11

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 12/11/2024
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 12/2024. COUNTY BOUNDARY,ESRI,2010.

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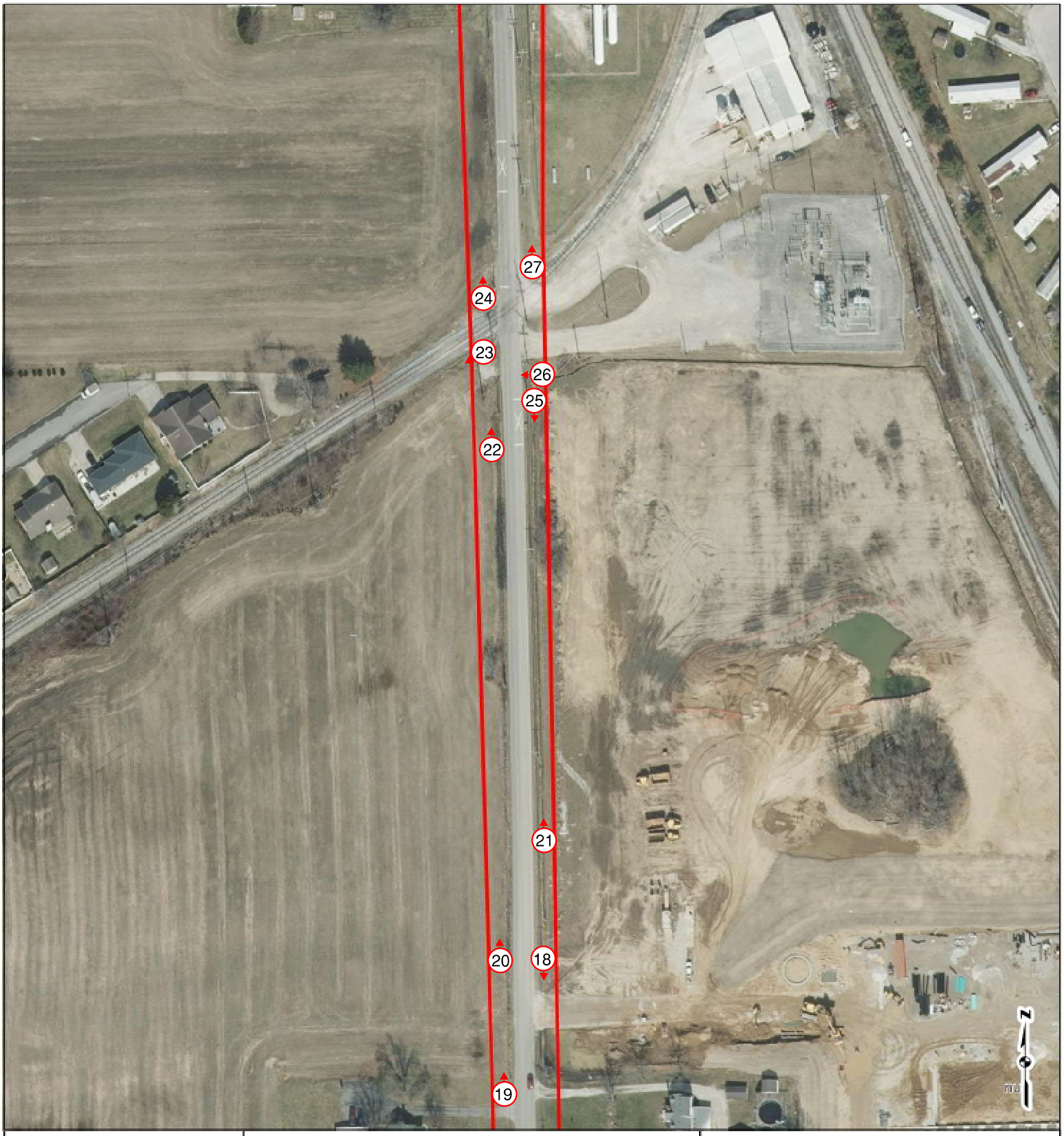

PROJECT LOCATION

JACKSON COUNTY, INDIANA

LEGEND

Investigation Area

1 Photo Location Marker

0 60 120 240 360 Feet

PHOTO LOCATION MAP
FIGURE 11

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 12/11/2024
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 12/2024. COUNTY BOUNDARY,ESRI,2010.

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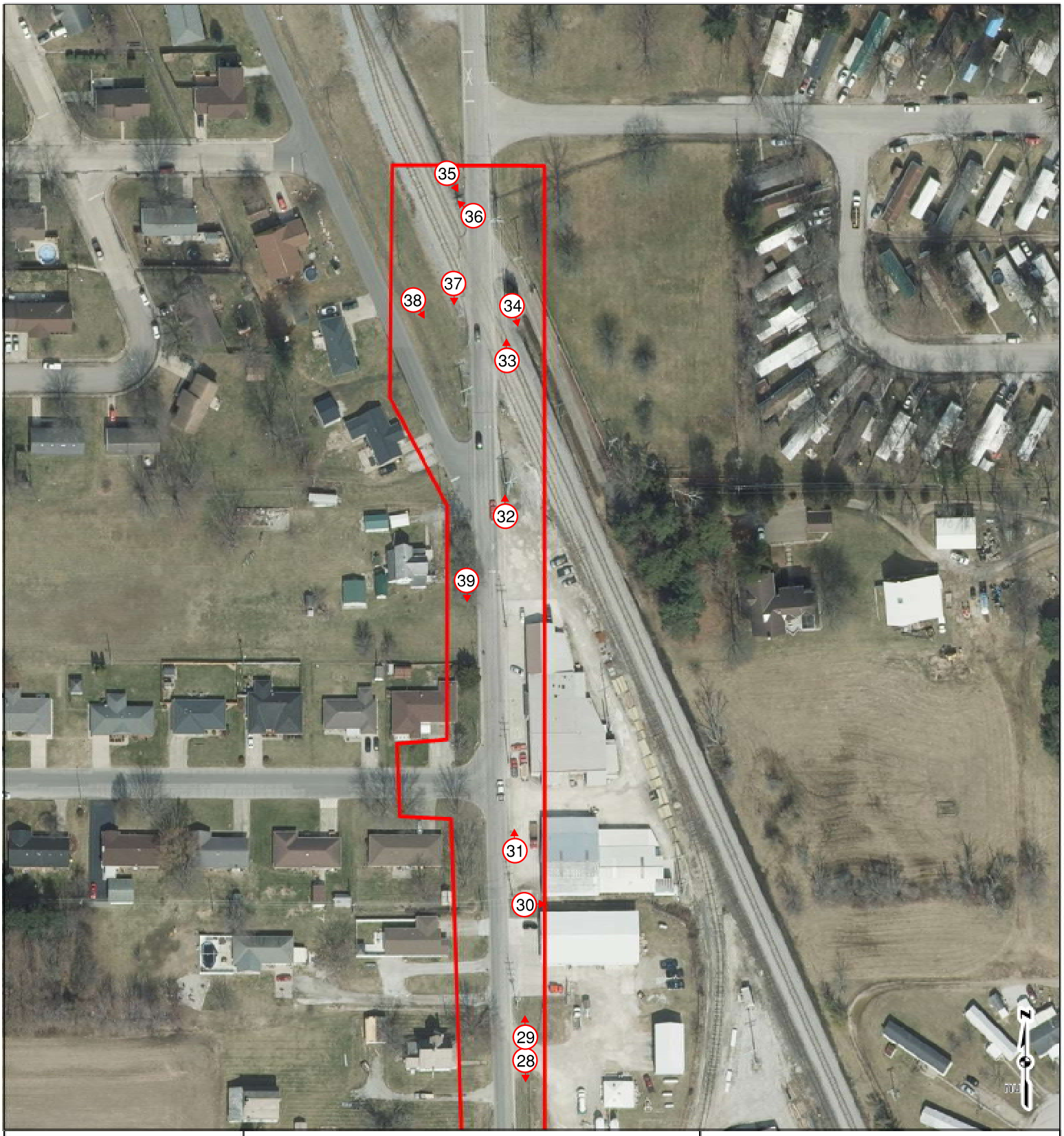

PROJECT LOCATION

JACKSON COUNTY, INDIANA

LEGEND

Investigation Area

1 Photo Location Marker

0 60 120 240 360 Feet

PHOTO LOCATION MAP
FIGURE 11

O'Brien Street
Road Reconstruction
DES #2101694

DRAWN BY: SCS DATE: 12/11/2024
CHECKED: BE APPROVED: KP

REFERENCE: WORLD IMAGERY, ESRI, ACCESSED 12/2024. COUNTY BOUNDARY,ESRI,2010.

gai consultants

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Midwest Region
See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: DES# 2101694 O'Brien Street City/County: Jackson Sampling Date: 9/4/2024
Applicant/Owner: City of Seymour State: IN Sampling Point: DP1
Investigator(s): Shawn Slaymon Section, Township, Range: 20 & 29, T6N, R6E
Landform (hillside, terrace, etc.): flatland Local relief (concave, convex, none): none
Slope (%): 0 Lat: 38.933889 Long: -85.880556 Datum: NAD83
Soil Map Unit Name: Lyles fine sandy loam NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation____, Soil____, or Hydrology____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation____, Soil____, or Hydrology____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes X No ____
Hydric Soil Present? Yes X No ____
Wetland Hydrology Present? Yes X No ____

Is the Sampled Area within a Wetland? **Yes** X **No** ____

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
Herb Stratum (Plot size: 5)			
1. *Typha angustifolia*	40	Yes	OBL
2. *Panicum capillare*	15	Yes	FAC
3. *Xantium oreintale*	15	Yes	UPL
4. *Setaria italica*	15	Yes	FACU
5. *Juncus torreyi*	5	No	FACW
6. *Ambrosia artemisiifolia*	5	No	FACU
7.			
8.			
9.			
10.			
	95 =Total Cover		
Woody Vine Stratum (Plot size: 15)			
1.			
2.			
	=Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	40	x 1 =	40
FACW species	5	x 2 =	10
FAC species	15	x 3 =	45
FACU species	20	x 4 =	80
UPL species	15	x 5 =	75
Column Totals:	95 (A)		250 (B)

Prevalence Index = B/A = 2.63

Hydrophytic Vegetation Indicators:

____ 1 - Rapid Test for Hydrophytic Vegetation
____ 2 - Dominance Test is >50%
X 3 - Prevalence Index is ≤3.0[1]
____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** x **No** ____

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

SOIL

Sampling Point: DP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-9	7.5R 4/1	100					Mucky Sand	
9-19	7.5YR 4/1	95	5YR 4/6	5	D		Sandy	
			5YR 5/1	5	D			

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- X Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Iron-Manganese Masses (F12)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- X Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___

Water Table Present? Yes ___ No ___ Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No ___ Depth (inches): ___

Wetland Hydrology Present? **Yes** X **No** ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Midwest Region
See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: DES# 2101694 O'Brien Street City/County: Jackson Sampling Date: 9/4/2024
Applicant/Owner: City of Seymour State: IN Sampling Point: DP2
Investigator(s): Shawn Slaymon Section, Township, Range: 20 & 29, T6N, R6E
Landform (hillside, terrace, etc.): flatland Local relief (concave, convex, none): none
Slope (%): 0 Lat: 38.9340164 Long: -85.8806056 Datum: NAD83
Soil Map Unit Name: Lyles fine sandy loam NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation____, Soil____, or Hydrology____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation____, Soil____, or Hydrology____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes ____ No X
Hydric Soil Present? Yes ____ No X
Wetland Hydrology Present? Yes ____ No X

Is the Sampled Area within a Wetland? **Yes** ____ **No** X

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
Herb Stratum (Plot size: 5)			
1. *Typha angustifolia*	5	No	OBL
2. *Juncus dudleyi*	10	No	FACW
3. *Leersia oryzoides*	70	Yes	UPL
4. *Carex frankii*	5	No	OBL
5. *Juncus torreyi*	10	No	FACW
6. *Solidago gigantea*	5	No	FACW
7.			
8.			
9.			
10.			
	105 =Total Cover		
Woody Vine Stratum (Plot size: 15)			
1.			
2.			
	=Total Cover		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 1 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	10	x 1 =	10
FACW species	25	x 2 =	50
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	70	x 5 =	350
Column Totals:	105 (A)		410 (B)
Prevalence Index = B/A =			3.90

Hydrophytic Vegetation Indicators:
___ 1 - Rapid Test for Hydrophytic Vegetation
___ 2 - Dominance Test is >50%
___ 3 - Prevalence Index is ≤3.0[1]
___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

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

SOIL

Sampling Point: DP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	5YR 4/1	100					Sandy	dry & crumbly
12-18	5YR 4/1	75	5YR 4/4	25	RM	M	Sandy	

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

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Iron-Manganese Masses (F12)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** X

Remarks:

The presence of a reduced matrix within 12 inches of the soil surface indicates that this soil is hydric based on the hydric soil definition: ”a soil that formed under conditions of saturation, flooding or ponding long enough during the growing season to develop anaerobic conditions in the upper part”.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- X Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ____ Depth (inches): ____

Water Table Present? Yes ____ No ____ Depth (inches): ____

Saturation Present? (includes capillary fringe) Yes ____ No ____ Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Midwest Region
See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: DES# 2101694 O'Brien Street City/County: Jackson Sampling Date: 9/4/2024
Applicant/Owner: City of Seymour State: IN Sampling Point: DP3
Investigator(s): Shawn Slaymon Section, Township, Range: 20 & 29, T6N, R6E
Landform (hillside, terrace, etc.): flatland Local relief (concave, convex, none): none
Slope (%): 0 Lat: 38.9337743 Long: -85.8806956 Datum: NAD83
Soil Map Unit Name: Lyles fine sandy loam NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation____, Soil____, or Hydrology____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation____, Soil____, or Hydrology____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes ____ No X
Hydric Soil Present? Yes X No ____
Wetland Hydrology Present? Yes ____ No X

Is the Sampled Area within a Wetland? **Yes** ____ **No** X

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
	=Total Cover		
Herb Stratum (Plot size: 5)			
1. *Xanthium strumarium*	50	Yes	FAC
2. *Juncus torreyi*	15	No	FACW
3. *Leersia oryzoides*	30	Yes	UPL
4. *Typha latifolia*	10	No	OBL
5.			
6.			
7.			
8.			
9.			
10.			
	105 =Total Cover		
Woody Vine Stratum (Plot size: 15)			
1.			
2.			
	=Total Cover		

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 2 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	10	x 1 =	10
FACW species	15	x 2 =	30
FAC species	50	x 3 =	150
FACU species	0	x 4 =	0
UPL species	30	x 5 =	150
Column Totals:	105 (A)		340 (B)

Prevalence Index = B/A = 3.24

Hydrophytic Vegetation Indicators:
___ 1 - Rapid Test for Hydrophytic Vegetation
___ 2 - Dominance Test is >50%
___ 3 - Prevalence Index is ≤3.0[1]
___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

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

Hydrophytic Vegetation Present? **Yes** ____ **No** X

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

SOIL

Sampling Point: DP3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 3/1	95	10YR 4/2	5	RM	M	Sandy	
6-18	10YR 4/1	60	10YR 5/6	25	RM	M	Sandy	

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

Hydric Soil Indicators:

___ Histosol (A1)
___ Histic Epipedon (A2)
___ Black Histic (A3)
___ Hydrogen Sulfide (A4)
_X_ Stratified Layers (A5)
___ 2 cm Muck (A10)
___ Depleted Below Dark Surface (A11)
___ Thick Dark Surface (A12)
___ Sandy Mucky Mineral (S1)
___ 5 cm Mucky Peat or Peat (S3)
___ Sandy Gleyed Matrix (S4)
___ Sandy Redox (S5)
_X_ Stripped Matrix (S6)
_X_ Dark Surface (S7)
___ Loamy Mucky Mineral (F1)
___ Loamy Gleyed Matrix (F2)
___ Depleted Matrix (F3)
___ Redox Dark Surface (F6)
___ Depleted Dark Surface (F7)
___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

___ Iron-Manganese Masses (F12)
___ Red Parent Material (F21)
___ Very Shallow Dark Surface (F22)
___ Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? **Yes** _X_ **No** ___

Remarks:
The presence of a reduced matrix within 12 inches of the soil surface indicates that this soil is hydric based on the hydric soil definition: ”a soil that formed under conditions of saturation, flooding or ponding long enough during the growing season to develop anaerobic conditions in the upper part”.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1)
___ Sediment Deposits (B2)
___ Drift Deposits (B3)
___ Algal Mat or Crust (B4)
___ Iron Deposits (B5)
___ Inundation Visible on Aerial Imagery (B7)
___ Sparsely Vegetated Concave Surface (B8)
___ Water-Stained Leaves (B9)
___ Aquatic Fauna (B13)
___ True Aquatic Plants (B14)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres on Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Gauge or Well Data (D9)
___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

___ Surface Soil Cracks (B6)
___ Drainage Patterns (B10)
___ Dry-Season Water Table (C2)
___ Crayfish Burrows (C8)
___ Saturation Visible on Aerial Imagery (C9)
___ Stunted or Stressed Plants (D1)
___ Geomorphic Position (D2)
___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ___ No ___ Depth (inches): ___
Water Table Present? Yes ___ No ___ Depth (inches): ___
Saturation Present? Yes ___ No ___ Depth (inches): ___
(includes capillary fringe)

Wetland Hydrology Present? **Yes** ___ **No** _X_

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: 2/1/2025

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Shawn Slaymon, 201 N. Illinois Street, Ste 1700, Indianapolis, IN 46204

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: IN County/parish/borough: Jackson City: Seymour

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

Lat.: 38.938812 Long.: -85.880736

Universal Transverse Mercator: 16S

Name of nearest waterbody: UNT 3 to Luther McDonald Ditch

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

☐ Office (Desk) Determination. Date:

☐ Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
Wetland A	38.9339504	-85.8805856	0.04 acres	wetland	Section 404

1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.

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

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

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

- [x] Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
  Map: Location Map Figure 1, Topographic Map F2 & F3, Aerial Map Figure 4.
- [x] Data sheets prepared/submitted by or on behalf of the PJD requestor.
  - [ ] Office concurs with data sheets/delineation report.
  - [ ] Office does not concur with data sheets/delineation report. Rationale: _____.
- [ ] Data sheets prepared by the Corps: _____.
- [ ] Corps navigable waters' study: _____.
- [x] U.S. Geological Survey Hydrologic Atlas: NHD Flowline Map F5 map 1 & 2, HUC12 Watershed Map F9.
  - [x] USGS NHD data.
  - [x] USGS 8 and 12 digit HUC maps.
- [x] U.S. Geological Survey map(s). Cite scale & quad name: Seymour 7.5 min Topographic Map, Scale 1'=3000', F2-3.
- [x] Natural Resources Conservation Service Soil Survey. Citation: Jackson County, IN F7.
- [x] National wetlands inventory map(s). Cite name: USFWS NWI Map Figure 5.
- [ ] State/local wetland inventory map(s): _____.
- [ ] FEMA/FIRM maps: _____.
- [x] 100-year Floodplain Elevation is: 576.3.(National Geodetic Vertical Datum of 1929)
- [x] Photographs: [ ] Aerial (Name & Date): _____.
  or [x] Other (Name & Date): 9/4/2024, A24-43.
- [ ] Previous determination(s). File no. and date of response letter: _____.
- [x] Other information (please specify): USGS Stream Stats Figure 6.

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

_____	Shawn C. Slaymon Digitally signed by Shawn C. Slaymon DN: E=S.Slaymon@gaiconsultants.com, CN=Shawn C. Slaymon Reason: I am the author of this document Date: 2025.02.03 17:20:15-05'00'
Signature and date of Regulatory staff member completing PJD	Signature and date of person requesting PJD (REQUIRED, unless obtaining the signature is impracticable)[1]

[1] 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.

Appendix G

Public Involvement

GAI Indiana offices located in:
Fishers, Fort Wayne, Indianapolis, and Vevay

January 1, 2024

GAI Project No. R220413.00
DES # 2101694

RE: O'Brien Street Roadway Rehabilitation Phase 1
Jackson County, Indiana

Notice of Entry for Survey
Beginning January 4, 2024

Dear Property Owner:

Our information indicates that you own or occupy property located near the above proposed transportation project. Representatives of GAI Consultants, Inc., or other consultants, will be conducting field and environmental surveys in the future. It may be necessary for them to enter onto your property to complete this work. This is permitted under Indiana Code § 8-23-7-26. Anyone performing this type of work has been instructed to identify himself or herself to you, if you are available, before they enter your property. If you no longer own this property or it is currently occupied by someone else, please provide us the name of the new owner or occupant and their contact information so we can contact them regarding the survey.

The field survey(s) may include but is/are not limited to topographic survey including the mapping of locations of features such as trees, buildings, fences and drives, and obtaining ground elevations and geotechnical investigation. The environmental survey(s) may include but is/are not limited to archaeological investigations (which may involve the survey, testing, or excavation of identified archaeological sites), identification and mapping of wetlands and waterways, taking photographs of the area (which may include infrastructure, roads, residential properties, and commercial properties), a historical review of the properties within the vicinity of the proposed project area, evaluation of land use for completion of environmental documentation and various other environmental studies. The information we obtain from such surveys and studies is necessary for the proper planning and design of this project.

It is our sincere desire to cause you as little inconvenience as possible during these surveys. If problems arise, please contact me at B.Craig@gaiconsultants.com or 812.226.0951. However, please keep in mind that ***no specific information regarding this project is available at this time.*** Thank you in advance for your cooperation.

Sincerely,
GAI Consultants, Inc.

Brian Craig

Brian Craig, PE
Project Manager

BC/vrh

Appendix H

Air Quality

Item	Appendix Page
STIP	H1 to H2

Indiana Department of Transportation (INDOT)

State Preservation and Local Initiated Projects FY 2024 - 2028

SPONSOR	CONTRACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	DISTRICT	MILES	FEDERAL CATEGORY	Total Cost of Project*	PROGRAM	PHASE	FEDERAL	MATCH	2024	2025	2026	2027	2028
Comments:Include DES 2001989, 2001995, 2002016																	
Indiana Department of Transportation	43414 / 2001805	Init.	I 65	Small Structures & Drains Construction	Seymour	9.3	NHPP	$3,113,520.00	Bridge ROW	RW	$18,000.00	$2,000.00	$20,000.00				
									Bridge Construction	CN	$1,615,500.00	$179,500.00	$10,000.00	$1,785,000.00			
Performance Measure Impacted: Safety																	
Location: 2 locations on I-65 in Jackson County																	
Comments:Include DES 2001805, 2201590, 2201591																	
Indiana Department of Transportation	43414 / 2001934	Init.	I 65	Small Structure Pipe Lining	Seymour	0	NHPP	$3,113,520.00	Bridge ROW	RW	$13,500.00	$1,500.00	$15,000.00				
									Bridge Construction	CN	$683,100.00	$75,900.00		$759,000.00			
Performance Measure Impacted: Safety																	
Location: I-65/CR 1240 E over UNT Lewis Branch, 1.26 mile N of SR 250.																	
Comments:Include DES 2001934																	
Indiana Department of Transportation	43733 / 2100742	Init.	US 50	Bridge Deck Overlay	Seymour	0	NHPP	$6,431,000.00	Bridge ROW	RW	$32,000.00	$8,000.00	$40,000.00				
									Bridge Construction	CN	$5,112,800.00	$1,278,200.00			$6,391,000.00		
Performance Measure Impacted: Bridge Condition																	
Location: over E FK WHITE RIVER OVFL, 01.30 E SR 135																	
Comments:Include DES 2100733, 2100741, 2100742, 2100827, 2100839, 2101073																	
Indiana Department of Transportation	43784 / 2100870	Init.	SR 39	Bridge Painting	Seymour	0	STBG	$353,000.00	Bridge Construction	CN	$216,000.00	$54,000.00	$270,000.00				
Performance Measure Impacted: Bridge Condition																	
Location: SR 39 bridge over Grassy Fork, 3.73 miles N of SR 256																	
Comments:Include DES 2100870																	
Indiana Department of Transportation	44237 / 2200189	Init.	VA VARI	ADA Sidewalk Ramp Construction	Seymour	0	STBG	$587,000.00	Safety Construction	CN	$349,600.00	$87,400.00	$437,000.00				
Performance Measure Impacted: Safety																	
Location: Various locations on US 50 in Seymour District																	
Comments:Include DES 2200189																	
Seymour	44298 / 2101694	Init.	ST 2887	New Road Construction	Seymour	.92	STBG	$5,104,000.00	Group III Program	RW	$173,000.00	$0.00			$173,000.00		
									Group III Program	CN	$3,493,000.00	$0.00				$3,493,000.00	
									Local Funds	CN	$0.00	$873,000.00				$873,000.00	

Report Created:8/28/2023 1:35:16PM

*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.

Indiana Department of Transportation (INDOT)

State Preservation and Local Initiated Projects FY 2024 - 2028

SPONSOR	CONTRACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	DISTRICT	MILES	FEDERAL CATEGORY	Total Cost of Project*	PROGRAM	PHASE	FEDERAL	MATCH	2024	2025	2026	2027	2028
Seymour	44298 / 2101694	Init.	ST 2887	New Road Construction	Seymour	.92	STBG	$5,104,000.00	Local Funds	RW	$0.00	$43,000.00			$43,000.00		
Performance Measure Impacted: Pavement Condition																	
Location: Obrien Street between the New Burkart Bypass Southern Roundabout and Village Circle Avenue																	
Comments:Include DES 2101694																	
Indiana Department of Transportation	44415 / 2200876	Init.	SR 258	Superstructure Repair and Rehabilitation	Seymour	0	STBG	$406,000.00	Bridge Construction	CN	$168,000.00	$42,000.00	$210,000.00				
Performance Measure Impacted: Safety																	
Location: Over White Creek, 5.51 miles E of SR 58																	
Comments:Include DES 2200876																	
Indiana Department of Transportation	44416 / 2200864	Init.	SR 39	Bridge Painting	Seymour	0	STBG	$317,000.00	Bridge Construction	CN	$176,000.00	$44,000.00	$220,000.00				
Performance Measure Impacted: Bridge Condition																	
Location: Over Smart Ditch, 1.31 miles N of SR 256																	
Comments:Include DES 2200864																	
Indiana Department of Transportation	44417 / 2200872	Init.	SR 58	Substructure Repair And Rehabilitation	Seymour	0	STBG	$386,000.00	Bridge Construction	CN	$224,000.00	$56,000.00	$280,000.00				
Performance Measure Impacted: Safety																	
Location: Over Bee Creek, 2.80 miles W of SR 135																	
Comments:Include DES 2200872																	
Indiana Department of Transportation	44466 / 2200670	Init.	US 50	Bridge Deck Overlay	Seymour	0	NHPP	$1,109,000.00	Bridge Construction	CN	$687,200.00	$171,800.00				$859,000.00	
									Bridge Consulting	PE	$200,000.00	$50,000.00	$250,000.00				
Performance Measure Impacted: Bridge Condition																	
Location: over Von Fange Ditch, 0.82 mile W of SR 11																	
Comments:Include DES 2200670																	
Indiana Department of Transportation	44467 / 2200575	Init.	SR 235	Small Structure Replacement	Seymour	0	STBG	$1,473,684.00	Bridge Consulting	PE	$280,000.00	$70,000.00	$350,000.00				
									Bridge Construction	CN	$675,200.00	$168,800.00				$844,000.00	
									Bridge ROW	RW	$16,000.00	$4,000.00		$20,000.00			
Performance Measure Impacted: Bridge Condition																	
Location: Over UNT to East Fork White River, 3.05 miles N of SR 135																	
Comments:Include DES 2200575, 2200580																	
Indiana Department of Transportation	44469 / 2200611	Init.	I 65	Small Structure Replacement	Seymour	0	NHPP	$1,152,000.00	Bridge ROW	RW	$9,000.00	$1,000.00		$10,000.00			

Report Created:8/28/2023 1:35:16PM

*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 Studies

Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated April 2025)

ProjectNumber	SubProjectCode	County	Property
1800171	1800171BB	Jackson	Starve Hollow
1800230	1800230	Jackson	Jackson-Washington State Forest and Starve Hollow
1800305	1800305C	Jackson	Starve Hollow State Recreation Area
1800327	1800327J	Jackson	Starve Hollow State Recreation Area
1800363	1800363EE	Jackson	Starve Hollow State Recreation Area
1800447	1800447	Jackson	Starve Hollow State Recreation Area

*Park names may have changed. If acquisition of publically owned land or impacts to publically owned land is anticipated, coordination with Indiana State Parks, Community Grants & Trails Section, should occur.