FHWA-Indiana Environmental Document

CATEGORICAL EXCLUSION / ENVIRONMENTAL ASSESSMENT FORM

GENERAL PROJECT INFORMATION

Road No./County:	State Road (SR) 227/ Wayne County
Designation Number(s):	2200507
Project Description/Termini:	SR 227 Small Structures Improvement Project/ From approximately 4.60 miles north of SR 121 to approximately 7.86 miles north of SR 121

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 (EA) – Required Signatories: INDOT ESD and FHWA
	Additional Investigation (AI) – The proposed action included a design change from the original approved environmental document. Required Signatories must include the appropriate environmental approval authority

Approval

INDOT DE Signature and Date

INDOT ESD Signature and Date

FHWA Signature and Date

Release for Public Involvement

RB 3/5/2026
INDOT DE Initials and Date

N/A
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: Sarah Everhart (Lead) and Macy Trotter
American Structurepoint, Inc.

County Wayne Route SR 227 Des. No. 2200507

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 Survey letters were mailed to potentially affected property owners near the project area on April 5, 2024 and March 13, 2025 notifying them about the project and that individuals responsible for land surveying and field activities may be seen in the area. A sample copy of the Notice of Survey letters is included in Appendix G, G-1 to G-2.

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 and/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.

At this time, there is no substantial public controversy concerning impacts to the community or to natural resources.

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

Sponsor of the Project: INDOT INDOT District: Greenfield

Local Name of the Facility: SR 227

Funding Source (*mark all that apply*): Federal [X] State [X] Local [ ] 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 need for the project is evidenced by the deteriorating condition of the small structures and insufficient drainage conditions along this stretch of SR 227. Please refer to the American Structurepoint Small Structures Summary Table in Appendix I, I-2 for specific deficiencies and condition ratings of each small structure. A condition rating score of 9 indicates excellent condition and a score of 0 indicates failed condition on the INDOT Culvert Conditions Rating Scale.

Purpose: The purpose of this project is to address noted deficiencies of the small structures, restore the barrel condition ratings to at least a 7 (good) out of 9 (excellent), and to address inadequate drainage along the roadway.

County Wayne Route SR 227 Des. No. 2200507

PROJECT DESCRIPTION (PREFERRED ALTERNATIVE):

County: Wayne Municipality: N/A

Limits of Proposed Work: From approximately 4.60 miles north of SR 121 to approximately 7.86 miles north of SR 121

Total Work Length: 3.24 Mile(s) Total Work Area: 3.788 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.

The INDOT Greenfield District and the Federal Highway Administration (FHWA) intend to proceed with the SR 227 Small Structures Improvement project.

Location

The project is located along SR 227, approximately 4.60 miles north of SR 121 to approximately 7.86 miles north of SR 121 near Whitewater, Wayne County, Indiana. Specifically, the project is located in Sections 1, 2, 11, and 12, Township 14 North, Range 1 West and Sections 25, 26, 35, and 36, Township 15 North, and Range 1 West of the Whitewater United States Geological Survey (USGS) 7.5 Minute Topographic Quadrangle in Wayne and Franklin Townships, Wayne County, Indiana. The State Location Map, USGS Topographic Map, 2022 Aerial Photography Maps, and project area photographs can be referenced in Appendix B, B-1 to B-15.

Existing Conditions

This section of SR 227 is functionally classified as a *State Collector* and has a posted speed limit of 45 miles per hour (mph). The existing typical roadway section of SR 227 consists of two 10-foot-wide travel lanes (one northbound and one southbound) with 1-foot-wide shoulders. Approximately 4-foot-wide sidewalks are present along both sides of SR 227, north of Whitewater Road and adjacent to CV 227-089-21.20 (Appendix B, B- 39). Land use in the vicinity of the project area is primarily agricultural and residential. Drainage is conveyed through existing open roadside ditches and small structures throughout the project corridor. There are nineteen existing small structures along this section of SR 227 that are deteriorating, as noted in the *Purpose and Need* section above. Please refer to the American Structurepoint Small Structure Summary Table (Appendix I, I-2) for a list of structure number, existing type, existing size, and deficiencies of each existing small structure. The existing apparent right-of-way (ROW) along SR 227 varies from 25 to 35 feet from the centerline of the roadway. Ground level photographs of existing conditions within the project area are included in Appendix B, B-11 to B-15.

Preferred Alternative

The current project consists of the replacement of nineteen small structures and ditch work along this section of SR 227. Six small structures will be replaced in-kind and the remaining small structures will be replaced with larger diameter structures. Small structure end sections and headwalls will be replaced or installed as needed. Linear grading will occur to tie in existing roadside ditches along SR 227. Additionally, riprap will be placed at small structure ends for scour protection. Please refer to the Small Structure Summary Table in the appendix (Appendix I, I-2) for additional information. Approximately 3.526 acres of permanent ROW and approximately 0.052 acre of temporary ROW will be required for this project.

Maintenance of Traffic (MOT)

The MOT for the project will require phased construction, partially closing sections of SR 227 during small structure work. A detour will route traffic around the closures utilizing Interstate 70 (I-70), United States Route 27 (US 27), and US 36. Sidewalk closures and pedestrian detours will occur north of Whitewater Road during the replacement of CV 227-089-21.20. Access to all properties within and adjacent to the project limits will be maintained throughout construction. For additional details, see the *Maintenance of Traffic during Construction* section of this document and Appendix B, B-20 to B-22.

Logical Termini/Independent Utility
The termini of the project were selected to provide independent utility and fulfill the purpose and need of this project. The preferred alternative's termini represent the minimum limits needed to tie in the project with the existing roadway while meeting the purpose of the project. Therefore, the project's limits are logical termini. This project has independent utility as it does not create the need for additional work and does not rely on any other project to meet the need. Therefore, it is a single and complete project.

Purpose and Need Fulfillment
The preferred alternative described above meets the purpose and need for the project as it will address noted deficiencies of the small structures, restore the barrel condition ratings to at least a 7 (good) out of 9 (excellent), and to address inadequate drainage along the roadway.

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.

Do Nothing Alternative
The Do Nothing Alternative leaves the small structures and drainage conditions, including roadside ditches, as they currently exist. While this alternative would eliminate cost and any environmental impacts, it would not meet the purpose and need of the project which is to address noted deficiencies of the structures, restore the barrel condition ratings to at least a 7 (good) out of 9 (excellent), and to address inadequate drainage along the roadway. Therefore, this alternative was dismissed from further consideration.

The No Build Alternative is not feasible, prudent or practicable because (*Mark all that apply*):

It would not correct existing capacity deficiencies;	
It would not correct existing safety hazards;	
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: SR 227
Functional Classification: State Collector
Current ADT: 1,566 VPD (2027) Design Year ADT: 1,867 VPD (2047)
Design Hour Volume (DHV): 187 Truck Percentage (%): 7
Designed Speed (mph): 45 Legal Speed (mph): 45

	Existing		Proposed	
Number of Lanes:	2		2	
Type of Lanes:	Travel		Travel	
Pavement Width:	20'8" to 24'7"	ft.	20'8" to 24'7"	ft.
Shoulder Width:	1.0'	ft.	1.0'	ft.
Median Width:	N/A	ft.	N/A	ft.
Sidewalk Width:	N/A	ft.	N/A	ft.

Setting:		Urban		Suburban	X Rural
Topography:		Level	X	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): See Summary Table (Appendix I, I-2) Sufficiency Rating: N/A
(Rating, Source of Information)

	Existing		Proposed	
Bridge/Structure Type:	See Summary Table (Appendix I, I-2)		See Summary Table (Appendix I, I-2)	
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.

The project involves the replacement of nineteen existing corrugated metal pipe (CMP) and polyethylene (PE) small structures along SR 227. Six small structures will be replaced in-kind and the remaining small structures will be replaced with larger diameter structures. The American Structurepoint Small Structure Summary Table (Appendix I, I-2) summarizes the existing and proposed replacements. No work will occur to any other structures within the project limits. (Appendix B, B-23 to B-39)

All existing small structures are not eligible for listing in the National Register of Historic Places (NRHP).

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 MOT for the project will require phased construction partially closing sections of SR 227 during small structure work. Phased closures will begin at the southern terminus of the project area and move north along the roadway. A detour will route traffic around the closures utilizing I-70, US 27, and US 36. This detour is approximately 3.24 miles long and will be in place for 8 months during the construction period between summer 2027 and fall 2029. A pedestrian detour and sidewalk closure will be in place during the CV 227-089-21.20 culvert replacement. Only one sidewalk along SR 227 will be closed at a time. Temporary pavement markings and signage will be added to direct pedestrian traffic across SR 227, around the construction zone, and back across SR 227 to avoid the sidewalk closure. Access to all properties will be maintained (Appendix B, B-20 to B-22).

The closures/lane restrictions will pose a temporary inconvenience to traveling motorists (including school buses and emergency services); however, no significant delays are anticipated, and all inconveniences and delays will cease upon project completion.

ESTIMATED PROJECT COST AND SCHEDULE:

Engineering: $ 1,432,036 (2024) Right-of-Way: $ 140,400 (2026) Construction: $ 2,678,364 (2027)

Anticipated Start Date of Construction: Summer 2027

RIGHT OF WAY:

Land Use Impacts	Amount (acres) Permanent	Temporary
Residential	1.158	0.043
Commercial	N/A	N/A
Agricultural	0.026	N/A
Forest	0.106	0.009
Wetlands	N/A	N/A
Other: (re-acquisition)	2.236	N/A
Other:	N/A	N/A
TOTAL	3.526	0.052

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

The existing ROW extends approximately 25 to 35 feet from the centerline of the SR 227 roadway. The existing ROW consists of maintained grass and agricultural fields. The project requires approximately 3.526 acres of permanent ROW, of which 1.290 acres will be new permanent ROW and 2.236 acres will be reacquisition of the apparent existing ROW. The acquired ROW consists of residential, agricultural and forested land. Approximately 0.052 acre of temporary ROW will be required for site access. No relocations are required.

If the scope of work or permanent or temporary ROW amounts change, the INDOT Environmental Services Division (ESD) and the INDOT Greenfield 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 were sent on October 28, 2025 and January 28, 2026 (Appendix C, C-1 to C-4).

Agency	Date Sent	Date Response Received	Appendix
Central Wayne County Commissioner	October 28, 2025	No response received	N/A
Eastern Indiana Regional Planning Commission	October 28, 2025	No response received	N/A

Agency	Date Sent	Date Response Received	Appendix
Eastern Wayne County Commissioner	October 28, 2025	No response received	N/A
Eighth Coast Guard District	October 28, 2025	No response received	N/A
Federal Highway Administration	October 28, 2025	No response received	N/A
Indiana Department of Environmental Management (IDEM)	October 28, 2025	January 27, 2026	Appendix C, C-15
Indiana American Water	January 28, 2026	February 2, 2026	Appendix C, C-16 to C-17
Indiana Department of Natural Resources, Division of Fish and Wildlife (IDNR-DFW)	October 28, 2025	October 31, 2025	Appendix C, C- 8 to C-12
Indiana Geological and Water Survey (IGWS)	October 28, 2025 (Online Submission)	October 28, 2025 (Autogenerated Response)	Appendix C, C-5 to C-7
INDOT Environmental Policy Office	October 28, 2025	No response received	N/A
INDOT Greenfield District	October 28, 2025	No response received	N/A
Local Floodplain Administrator	October 28, 2025	No response received	N/A
US Department of Housing And Urban Development	October 28, 2025	No response received	N/A
US Fish and Wildlife Service (USFWS)	October 28, 2025	No response received	N/A
US Natural Resource Conservation Service (NRCS)	October 28, 2025	December 3, 2025	Appendix C, C-13 to C-14
United States Army Corps of Engineers – Louisville District (USACE)	October 28, 2025	No response received	N/A
Wayne County Emergency Management Agency (EMA)	October 28, 2025	No response received	N/A
Wayne County Highway Department	October 28, 2025	No response received	N/A
Wayne County Sheriff	October 28, 2025	No response received	N/A
Wayne County Soil and Water Conservation	October 28, 2025	No response received	N/A
Wayne County Surveyor	October 28, 2025	No response received	N/A
Western Wayne County Commissioner	October 28, 2025	No response received	N/A
Mayor of Richmond	October 28, 2025	No response received	N/A
Richmond Community Schools	October 28, 2025	No response received	N/A

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

SECTION B – ECOLOGICAL RESOURCES:

	Presence	Impacts	
		Yes	No
Streams, Rivers, Watercourses & Other Jurisdictional Features	X	X	
Federal Wild and Scenic Rivers			
State Natural, Scenic or Recreational Rivers			
Nationwide Rivers Inventory (NRI) listed			
Outstanding Rivers List for Indiana			
Navigable Waterways			

Total stream(s) in project area: 237 Linear feet Total impacted stream(s): 163 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 US, appendix reference)
Unnamed Tributary (UNT) 1 to Whitewater River	EPH	93	63	-Area 14, approximately 0.25 mile south of Wallace Road -Ephemeral, non-jurisdictional -Appendix F, F-43
UNT 2 to Whitewater River	EPH	144	100	-Area 12, approximately 0.76 mile south of Wallace Road -Ephemeral, non-jurisdictional -Appendix F, F-41

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.

Based on the desktop review, the 2022 aerial map of the project area, and the Red Flag Investigation (RFI) report (Appendix E, E-1 to E-15) there are one hundred streams, rivers, watercourse or other jurisdictional features within the 0.5-mile search radius. There are nine streams, rivers, watercourse, or other jurisdictional features within or adjacent to the project areas. That number was updated to two streams by the site visit on October 17, 2024 by American Structurepoint, Inc.

A *Wetland Delineation and Waters Report* was approved by INDOT Ecology, Waterway Permitting, and Stormwater Office on June 13, 2025. Please refer to Appendix F, F-1 to F-72 for the *Wetland Delineation Report and Waters Report*. It was determined that UNT 1 and 2 to Whitewater River are ephemeral and therefore anticipated to be considered non-jurisdictional. However INDOT is requesting that the USACE take jurisdiction over these resources. The USACE makes all final determinations regarding jurisdiction.

UNT 1 to Whitewater River is an ephemeral stream that flows east through CV 227-089-19.99 for approximately 93 linear feet before exiting Area 14. The ordinary high water mark (OHWM) was measured at 2.3 feet wide by 0.9 feet deep. UNT 1 to Whitewater River would be considered poor quality due to recent channelization and low sinuosity. UNT 1 will be considered an unregulated resource, however, INDOT is requesting that the USACE take jurisdiction over this resource. It is anticipated that approximately 63 linear feet of permanent impacts will occur to UNT 1 to Whitewater River due to the replacement of CV 227-089-19.99 and the placement of riprap for scour protection. It is anticipated that approximately 17 linear feet of temporary impacts will occur to UNT 1 to Whitewater River due to dewatering and site access.

UNT 2 to Whitewater River is an ephemeral stream that flows east through CV 227-089-19.48 for approximately 144 linear feet before exiting Area 12. The OHWM was measured at 6.7 feet wide by 0.7 feet deep. UNT 2 to Whitewater River would be considered an average quality stream based on substrate quality and moderate amount of instream cover. UNT 2 would be considered an unregulated resource, however INDOT is requesting that the USACE take jurisdiction over this resource. It is anticipated that approximately 100 linear feet of permanent impacts will occur to UNT 2 to Whitewater River due to the replacement of CV 227-089-19.48, placement of riprap for scour protection, and the relocation of the stream. It is anticipated that approximately

19 linear feet of temporary impacts will occur to UNT 2 to Whitewater River due to dewatering and site access.

A cumulative total of 163 linear feet of permanent and 36 linear feet of temporary stream impacts are anticipated to occur. Avoidance and minimization of environmental impacts have been incorporated into design to the maximum extent practical. However, total avoidance of impacts to waterway resources is not possible while still meeting the project's purpose and need. No mitigation is anticipated but will be determined during the permitting process.

IDNR-DFW responded on November 7, 2025 with standard recommendations regarding erosion and sediment control measures.

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

Open Water Feature(s)	**Presence**	**Impacts** Yes	**Impacts** 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.

Based on the desktop review, the 2022 aerial map of the project area, and the RFI report (Appendix E, E-1 to E-15) there are seventeen open water features within the 0.5-mile search radius. There are no open water features within or adjacent to the project areas, which was confirmed by the site visit on October 17, 2025 by American Structurepoint Inc. Therefore, no impacts are expected.

A *Wetland Delineation and Waters Report* was approved by INDOT Ecology, Waterway Permitting, and Stormwater Office on June 13, 2025. Please refer to Appendix F, F-1 to F-72 for the *Wetland Delineation and Waters Report*. It was determined that no open water features are present within or adjacent to the project areas. The USACE makes all final determinations regarding jurisdiction.

	Presence	**Impacts** Yes	**Impacts** No
Wetlands	X	X	

Total wetland area: 0.160 Acre(s) Total wetland area impacted: 0.070 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 US, appendix reference)
Wetland 1	PEM1Ax	0.002	0.002	-Area 10, approximately 0.41 mile north of Inke Road -Waters of the State -Appendix F, F-39
Wetland 2	PEM1A	0.065	0.017	-Area 10, approximately 0.39 mile north of Inke Road -Waters of the U.S. -Appendix F, F-39
Wetland 3	PEM1A	0.054	0.024	-Area 19, approximately 0.51mile south of Whitewater Road -Waters of the U.S. -Appendix F, F-48
Wetland 4	PEM1A	0.039	0.027	-Area 19, approximately 0.49 mile south of Whitewater Road -Waters of the State -Appendix F, F-48

Wetlands (*Mark all that apply*)	**Documentation**	**ESD Approval Dates**
Wetland Determination		
Wetland Delineation	X	June 13, 2025
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	
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.

Based on the desktop review, the 2022 aerial map of the project area, and the RFI report (Appendix E, E-1 to E-15) there are forty-six wetlands within the 0.5-mile search radius. There are two wetlands within or adjacent to the project area. That number was updated to four wetlands by the site visit on October 17, 2024 by American Structurepoint Inc.

A *Wetland Delineation and Waters Report* was approved by INDOT Ecology, Waterway Permitting, and Stormwater Office on June 13, 2025. Please refer to Appendix F, F-1 to F-72 for the *Wetland Delineation and Waters Report*. It was determined that Wetlands 2 and 3 are anticipated to be jurisdictional waters of the U.S. Wetlands 1 and 4 are anticipated to be jurisdictional waters of the State, however, INDOT Ecology, Waterway Permitting, and Stormwater Office is requesting that USACE take jurisdiction of these features. The USACE makes all final determinations regarding jurisdiction.

Wetland 1 is an emergent wetland located in the northwest portion of Area 10, approximately 0.41 mile north of Inke Road. Wetland 1 is 0.002 acre and extends west beyond the investigated area. Wetland 1 is associated with the roadside ditch and exhibits dominant hydrophytic vegetation confined to the ditchline. Wetland 1 also experiences continual disturbance due to mowing and therefore, it is considered poor quality. It is anticipated that approximately 0.002 acre of permanent impacts will occur to Wetland 1 due to the replacement of CV 227-089-19.10 within Area 10. It is anticipated that approximately 0.0004 acre of temporary impacts will occur to Wetland 1 due to site access.

Wetland 2 is an emergent wetland located in the southeast portion of Area 10, approximately 0.39 mile north of Inke Road. Wetland 2 is 0.065 acre and extends east beyond the investigated area. Wetland 2 is associated with roadside drainage and experiences continual disturbance due to mowing. Therefore, Wetland 2 is considered poor quality. It is anticipated that approximately 0.017 acre of permanent impacts will occur to Wetland 2 due to the replacement of CV 227-089-19.10 within Area 10. It is anticipated that approximately 0.017 acre of temporary impacts will occur to Wetland 2 due to site access.

Wetland 3 is an emergent wetland located in the southeast portion of Area 19, approximately 0.51 mile south of Whitewater Road. Wetland 3 is 0.054 acre and extends east beyond the investigated area. Wetland 3 is associated with roadside drainage and experiences continual disturbance due to mowing. Therefore, Wetland 3 is considered poor quality. It is anticipated approximately 0.024 acre of permanent impacts will occur to Wetland 3 due to the replacement of CV 227-089-20.61 within Area 19. It is anticipated that approximately 0.017 acre of temporary impacts will occur to Wetland 3 due to site access.

Wetland 4 is an emergent wetland located in the southwest portion of Area 19, approximately 0.49 mile south of Whitewater Road. Wetland 4 is 0.039 acre and extends west beyond the investigated area. Wetland 4 is associated with roadside drainage and experiences continual disturbance due to mowing. Therefore, Wetland 4 is considered poor quality. It is anticipated approximately 0.027 acre of permanent impacts will occur to Wetland 4 due to the replacement of CV 227-089-20.61 within Area 19. It is anticipated that approximately 0.008 acre of temporary impacts will occur to Wetland 4 due to site access.

A cumulative total of 0.070 acre of permanent and 0.043 acre of temporary wetland impacts are anticipated to occur. Avoidance and minimization of environmental impacts have been incorporated into design to the maximum extent practical. However, total avoidance of impacts to waterway resources is not possible while still meeting the project's purpose and need. No mitigation is anticipated but will be determined during the permitting process.

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

	Presence	Impacts Yes	Impacts NO
Terrestrial Habitat	X	X	

Total terrestrial habitat in project area: 4.610 Acre(s) Total tree clearing: 0.172 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.

Based on a desktop review, a site visit on October 17, 2024 by American Structurepoint, Inc., the 2022 aerial map of the project areas (Appendix B, B-6 to B-10), there is grassy ROW, forested areas, and agricultural fields within and surrounding the project areas. Dominant tree species include Eastern Redbud (*Cercis canadensis*), Slippery Elm (*Ulmus rubra),* Northern Catalpa (*Catalpa speciosa*), and White Mulberry (*Morus alba*).

The project will impact a total of 2.866 acres of terrestrial habitat due to the replacement of the small structures, grading and placement of riprap for scour protection. Of the approximately 2.866 acre of terrestrial habitat impact, approximately 0.172 acre will be tree clearing. Tree removal will occur during bat inactive season (between October 1st and March 31st). USFWS mitigation for tree clearing is not anticipated as tree clearing will occur within 100 feet of the existing roadway. Implementation of standard INDOT specifications for re-vegetation of disturbed areas will promote re-establishment of similar ground cover in areas temporarily impacted by construction equipment access. Mitigation for disturbance of terrestrial habitat is not anticipated.

IDNR-DFW responded on November 7, 2025 with standard recommendations regarding tree clearing during bat roosting season and revegetating disturbed soils.

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)		X
Section 7 formal consultation Biological Assessment (BA) 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, E-1 to E-15), completed by American Structurepoint, Inc., on May 7, 2025. the IDNR Wayne County Endangered, Threatened and Rare (ETR) Species List has been checked. According to the IDNR-DFW early coordination response letter dated November 7, 2025 (Appendix C, C-11 to C-12), the Natural Heritage Program's Database has been checked and the state endangered Northern Harrier (*Circus hudsonius*) and Upland Sandpiper (*Bartramia*

longicauda) have been documented within 0.5-mile of the project area. IDNR does not expect negative impacts to these species due to this project. An INDOT 0.5-mile bat review occurred on March 19, 2025 and did not indicate the presence of endangered bat species within the half mile of this project area.

Project information was submitted through the USFWS's Information for Planning and Consultation (IPaC) portal, and an official species list was generated (Appendix C, C-18 to C-25). The project is within range of the federally endangered Indiana bat (*Myotis sodalis).* Two additional species were generated in the IPaC species list other than the Indiana bat. Refer to the paragraph below.

The project qualifies for the *Range-wide Programmatic Informal Consultation for the Indiana bat and northern long-eared bat (NLEB), and the Tricolored Bat (TCB),* dated December 2024, between FHWA, Federal Railroad Administration (FRA), Federal Transit Administration (FTA), and USFWS. All nineteen culverts are smaller than 36-inches and therefore do not require inspection reports. An effect determination key was completed on August 21, 2025 and based on the responses provided, the project was found to "May Effect – Not Likely to Adversely Affect" the Indiana bat and/or the NLEB (Appendix C, C-26 to C-37). INDOT reviewed and verified the effect finding on August 21, 2025 and requested USFWS's review of the finding. No response was received from USFWS within the 14-day review period; therefore, it was concluded they concur with the finding. The Avoidance and Minimization Measures (AMMs) for the project include General AMM 1, Lighting AMM 1, and Tree Trimming AMMs 1-3. The AMMs are included as firm commitments in the *Environmental Commitments* section of this document.

The official species list generated from IPaC indicated two other species present within the project area including the whooping crane (*Grus americana*; experimental population, non-essential) and the monarch butterfly (*Danaus plexippus*; proposed threatened). At this time, no additional coordination is required with USFWS for federally proposed or experimental species as there is no critical habitat.

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): N/A

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)

Based on a desktop review and the Indiana Karst Region map, the project is located outside 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, B-2 to B-5) and the RFI report (Appendix E, E-1 to E-15) there are no karst features identified within or adjacent to the project area. In the early coordination response received on October 28, 2025, the IGWS did not indicate that karst features exist in the project area (Appendix C, C-5 to C-7). The response indicated the floodway and moderate liquefaction potential as geological hazards, high potential for bedrock resources and low potential for sand and gravel resources. The response also indicated abandoned industrial mineral quarries and active industrial mineral sites near the project area. No active mineral site are located within the project area. These features will not be affected as excavation will occur to a maximum depth of eleven feet. Response from IGWS has been communicated to the designer on October 29, 2025. No impacts are expected.

SECTION C – OTHER RESOURCES

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

	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

The project is located in Wayne 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/Environmental Protection Agency (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

The IDEM Wellhead Proximity Determinator website (https: //www.in.gov/idem/cleanwater/pages/wellhead) was accessed on October 15, 2025 by American Structurepoint, Inc. This project is located within a Source Water Area. Early coordination was sent to IDEM on October 28, 2025. In an early coordination response dated January 27, 2026, IDEM stated the project is located within Indiana American Water – Richmond's Source Water Assessment (SWA) Area (Appendix C, C-15). An inquiry, along with a copy of the early coordination letter was sent to Indiana American Water on January 28, 2026 and a response was received on February 2, 2026. Indiana American Water confirmed the project is located within Richmond's SWA Area and provided recommendations that included overnight storage, construction debris, and fertilizer, pesticide, or herbicide applications. These features will not be affected because the project will ensure best management practices (BMPs) are followed. The Indiana American Water recommendations have been added as firm commitments in the *Environmental Commitments* section of this document. Therefore, no impacts are expected.

Water Wells

The IDNR Water Well Record Database website (https://www.in.gov/dnr/water/3595.htm) was accessed on October 15, 2025 by American Structurepoint, Inc. Fourteen wells, seven unconsolidated wells and seven boreholes drilled to bedrock, are located along SR 227. These wells are adjacent to SR 227 but not directly within the project limits. Therefore, no impacts are expected. Should it be determined during the ROW phase that these wells will be affected, a cost to cure will likely be included in the appraisal to restore the wells.

Urban Area Boundary

Based on a desktop review of the IDEM MS4s Boundaries Map for Indiana website (https://www.in.gov/idem/stormwater/municipal-separate-storm-sewer-systems-ms4/) by American Structurepoint, Inc. on October 16, 2025, this project is not located in an Urban Area Boundary. No impacts are expected.

Public Water System

Based on a desktop review, a site visit on October 17, 2024, by American Structurepoint, Inc., and the 2022 aerial map of the project area (Appendix B, B-6 to B-10), no public water systems were identified. Therefore, no impacts are expected.

Floodplains	Presence	Impacts Yes	Impacts 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.

The IDNR Indiana Floodway Information Portal website (http://dnrmaps.dnr.in.gov/appsphp/ fdms/) was accessed on October 16, 2025 by American Structurepoint, Inc. This project is not located in a regulatory floodplain as determined from approved IDNR floodplain maps (Appendix F, F-26 to F-27). 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	Impacts No
Agricultural Lands	X	X	
Prime Farmland (per NRCS)	X	X	

Total Points (from Section VII of CPA-106/AD-1006*) **122**

**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.

Based on a desktop review, a site visit on October 17, 2024 by American Structurepoint Inc. and the 2022 aerial map of the project area (Appendix B, B-6 to B-10), the project will convert 0.001 acre of farmland as defined by the Farmland Protection Policy Act. An early coordination letter was sent on October 28, 2025 to NRCS. Coordination with NRCS resulted in a score of 122 on the *AD 1006 Form.* 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-9	February 2, 2026	☐

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**	**February 2, 2026**	
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.

On February 2, 2026 the INDOT Cultural Resource Office (CRO) determined that this project falls within the guidelines of Category B, Type 9 under the Minor Projects Programmatic Agreement (MPPA), (Appendix D, D-1 to D-10). Category B, Type 9 covers installation, replacement, repair, lining or extension of culverts and other drainage structures that meet the listed conditions.

A *Phase Ia Archaeological Records Check and Field Reconnaissance* was prepared by Weintraut and Associates, Inc. (W&A) who meet the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61. The report identified two potential archaeological resources within the survey area. Neither site appears to meet the eligibility threshold necessary for their listing in the Indiana Register of Historic Sites and Structures (IRHSS) and/or the NRHP. Therefore, no further archaeological investigations are necessary.

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.

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 2022 aerial map of the project area (Appendix B, B-6 to B-10), the MPPA documentation, and the RFI report (Appendix E, E-1 to E-15) there are no potential 4(f) resources located within the 0.5-mile search radius. According to additional research and by the site visit on October 17, 2024 by American Structurepoint, Inc., 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.

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 conversion of lands purchased with LWCF monies to a non-recreation use.

A review of 6(f) properties on the INDOT ESD website revealed a total of three properties in Wayne County (Appendix I, I-1). 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 (TP)?		
Is a hot spot analysis required (CO/PM)?		

Location in STIP: STIP Fiscal Year 2026-2030

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 TP and TIP. Describe if a hot spot analysis is required and the MSAT Level.

This project is included in the Fiscal Year (FY) 2026-2030 Statewide Transportation Improvement Program (STIP) (Appendix H, H-1 to H-3).

This project is located in Wayne County, which is currently in attainment for all criteria pollutants according to the US EPA Nonattainment Areas for Criteria Pollutants (Green Book) website (https://www.epa.gov/green-book). Therefore, the conformity procedures of 40 CFR Part 93 do not apply.

This project is of a type qualifying as a categorical exclusion (Group 1) under 23 CFR 771.117(c), or exempt under the Clean Air Act conformity rule under 40 CFR 93.126, and as such, a Mobile Source Air Toxics analysis is not required.

SECTION 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: N/A

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.

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 project will have temporary negative socioeconomic impacts on the community including temporary inconveniences commonly associated with construction such as noise, fugitive dust, increased travel delay, and utility disruptions. However, these impacts are temporary and will cease upon completion of the project.

Permanent socioeconomic effects are not expected. The project is not anticipated to negatively affect community cohesion. Transportation within the community and access to community resources will not be affected. Minimal impacts are anticipated to the local tax base, property value, and community events.

According to a review of the Whitewater Indiana Visitors Bureau website (https://discoverwhiteriver.com/events), there are no scheduled events, fairs, or festivals occurring during the proposed construction period. To date, no events are listed for Fall of 2027. However, if an event occurs during the construction period, accommodations will be made to maintain access to local special events and/or festivals.

The project takes place along a roadway managed by INDOT. The project is a federal-aid project and therefore all improvements to

the infrastructure must conform to the ADA. During the phased sidewalk closure, at least one sidewalk will be maintained in operable working condition and readily accessible to and usable by persons with disabilities at all times. Therefore, the pedestrian MOT and project will comply with INDOT's 2021 ADA Transition Plan (https://www.in.gov/indot/files/21-ADA-Transition-Plan.pdf).

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.

Based on a desktop review, the 2022 aerial map of the project area (Appendix B, B-6 to B-10), and the RFI report (Appendix E, E-1 to E-15), there are two public facilities within the 0.5-mile search radius. There are no public facilities within or adjacent to the project area, which was confirmed by the site visit on October 17, 2025, by American Structurepoint, Inc. 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. This firm commitment is included in the *Environmental Commitments* of this document.

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

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

Due to the issuance of recent federal 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 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): May 7, 2025

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.

Based on a review of GIS and available public records, the RFI was completed on May 7, 2025 by American Structurepoint Inc., and INDOT Site Assessment and Management (SAM) provided their concurrence on May 7, 2025 (Appendix E, E-1 to E-15). One Leaking Underground Storage Tank (LUST) site, one National Pollutant Discharge Elimination System (NPDES) facility, and three NPDES Pipe Locations 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 (IP)		
Other		
IN Department of Environmental Management (401/Rule 5)		
Nationwide Permit (NWP)	X	
Regional General Permit (RGP)		
Individual Permit (IP)		
Isolated Wetlands		
Rule 5	X	Construction Stormwater General Permit
Other		
IN Department of Natural Resources		
Construction in a Floodway		
Navigable Waterway Permit		
Other		
Mitigation Required		
US 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."

Due to wetland and stream impacts, an IDEM 401 NWP, a USACE 404 NWP, and a Construction Stormwater General Permit are anticipated for impacts to waters of the U.S. Compensatory mitigation is not likely to be required for the stream and wetland impacts. The project area is not located within an IDNR floodway; therefore, no CIF permit is required.

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 ESD and the INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT Greenfield 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 work in a wetland area within right-of-way or in borrow/waste areas is prohibited unless specifically allowed in the U.S. Army Corps of Engineers permit. (INDOT ESD)
4) General AMM 1: Ensure all operators, employees, and contractors working in areas of Indiana bat, NLEB, or TCB suitable habitat are aware of all Transportation Agency environmental commitments, including all applicable AMMs. (USFWS)
5) Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
6) Tree Trimming AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to the extent practicable to avoid tree removal/trimming in excess of what is required to implement the project safely. (USFWS)
7) Tree Trimming AMM 2: Ensure tree removal/trimming 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 removal/trimming to ensure contractors stay within clearing limits). (USFWS)
8) Tree Trimming AMM 3: Ensure tree removal/trimming is limited to the inactive season, occurs within 100 ft of the road/rail surface, and is outside of documented habitat for the Indiana bat, NLEB, and TCB. (USFWS)
9) Overnight storage of large equipment is discouraged, but when unavoidable precautions should be taken to prevent the release of any petroleum products. Precautions should include daily inspection of equipment, security measures to protect equipment, and a spill response plan. (Indiana American Water)
10) Dumpsters for construction debris are permitted so long as they are not used for hazardous waste disposal. (Indiana American Water)
11) Fertilizer, pesticide, or herbicide applications are allowed so long as the label is followed to prevent contamination of the watershed. (Indiana American Water)
12) Prior to commencement of construction, provide a list of chemicals to be used and/or stored at the job site. (Indiana American Water)
13) Maintain contingency plan for chemical spills. (Indiana American Water)
14) Chemicals should be properly labeled and stored in secondary containment capable of holding 110% of the volume. (Indiana American Water)
15) Perform weekly inspections of chemical tanks and containment structures. (Indiana American Water)
16) In the event of any chemical spills or leaks, immediately notify the Water Quality Supervisor – Chris Daniel (317-885-2420). (Indiana American Water)

For Consideration:

1) 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 cracks, crevices, or cavities) from April 1 through September 30. (IDNR-DFW)

Table of Contents for Appendix Items

	Page
Appendix A: INDOT Supporting Documents	**A**
Threshold Chart	A-1
Appendix B: Graphics	**B**
Project Location- State Location Map	B-1
Project Location- USGS Topographic Map (Whitewater, IN Quadrangle)	B-2 to B-5
Project Location- 2022 Aerial Photography	B-6 to B-10
Project Photographs	B-11 to B-15
Project Plans	B-16 to B-45
Appendix C: Early Coordination	**C**
Sample Early Coordination Request Letter – October 28, 2025	C-1 to C-4
Indiana Geological and Water Survey – October 28, 2025	C-5 to C-7
Indiana Department of Natural Resource Division of Fish and Wildlife (IDNR-DFW) – November 4, 2025 and November 7, 2025	C-8 to C-12
US Natural Resource Conservation Service (NRCS) – December 3, 2025	C-13 to C-14
Indiana Department of Environmental Management (IDEM) Groundwater Division – January 27, 2026	C-15
Indiana American Water Company – February 2, 2026	C-16 to C-17
US Fish and Wildlife Service (USFWS) Official Species List – July 21, 2025	C-18 to C-25
USFWS Concurrence Verification Letter – August 21, 2025	C-26 to C-37
Appendix D: Section 106 of the NHPA	**D**
Minor Projects Programmatic Agreement Determination – February 2, 2026	D-1 to D-7
Phase Ia Archaeological Field Reconnaissance – September 15, 2025	D-8 to D-9
Appendix E: Red Flag and Hazardous Materials	**E**
Red Flag Investigation – May 7, 2025	E-1 to E-15
Appendix F: Water Resources	**F**
Wetland Delineation and Waters Report – June 13, 2025	F-1 to F-72
Appendix G: Public Involvement	**G**
Notice of Survey – April 5, 2024 and March 13, 2025	G-1 to G-2
Appendix H: Air Quality	**H**
Pages from the 2026-2030 *INDOT Rural Project Listing STIP*	H-1 to H-3
Appendix I: Additional Information	**I**
Listing of All 6(f) Properties in Wayne County	I-1
American Structurepoint Small Structures Summary Table	I-2

Appendix A: INDOT Supporting Documents

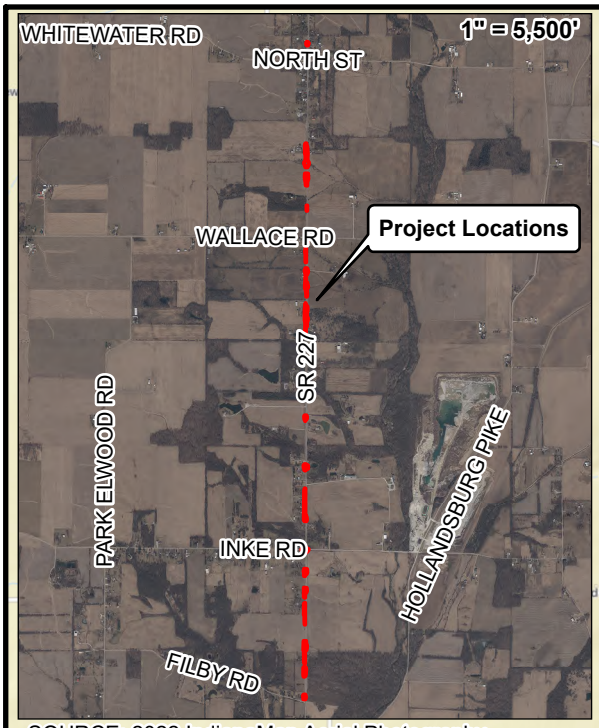
Categorical Exclusion Level Thresholds

	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.

Note: Environmental Justice is no longer applicable

Appendix B: Graphics



SOURCE: 2022 IndianaMap Aerial Photography

CV 227-089-21.20

CV 227-089-20.61

CV 227-089-20.53

Ditching Area 4

CV 227-089-20.23

Ditching Area 3

CV 227-089-20.07 and CV 227-089-19.99

CV 227-089-19.88 and CV 227-089-19.83

CV 227-089-19.48

CV 227-089-19.34

CV 227-089-19.10

CV 227-089-18.84

CV 227-089-18.69

CV 227-089-18.58

CV 227-089-18.49

Ditching Area 2

CV 227-089-18.21

Ditching Area 1

CV 227-089-18.11 and CV 227-089-18.08

CV 227-089-17.97



Source: ESRI Street Map North America

0 1,000 2,000 4,000 Feet

AMERICAN STRUCTUREPOINT INC.

Figure 1: State Location Map

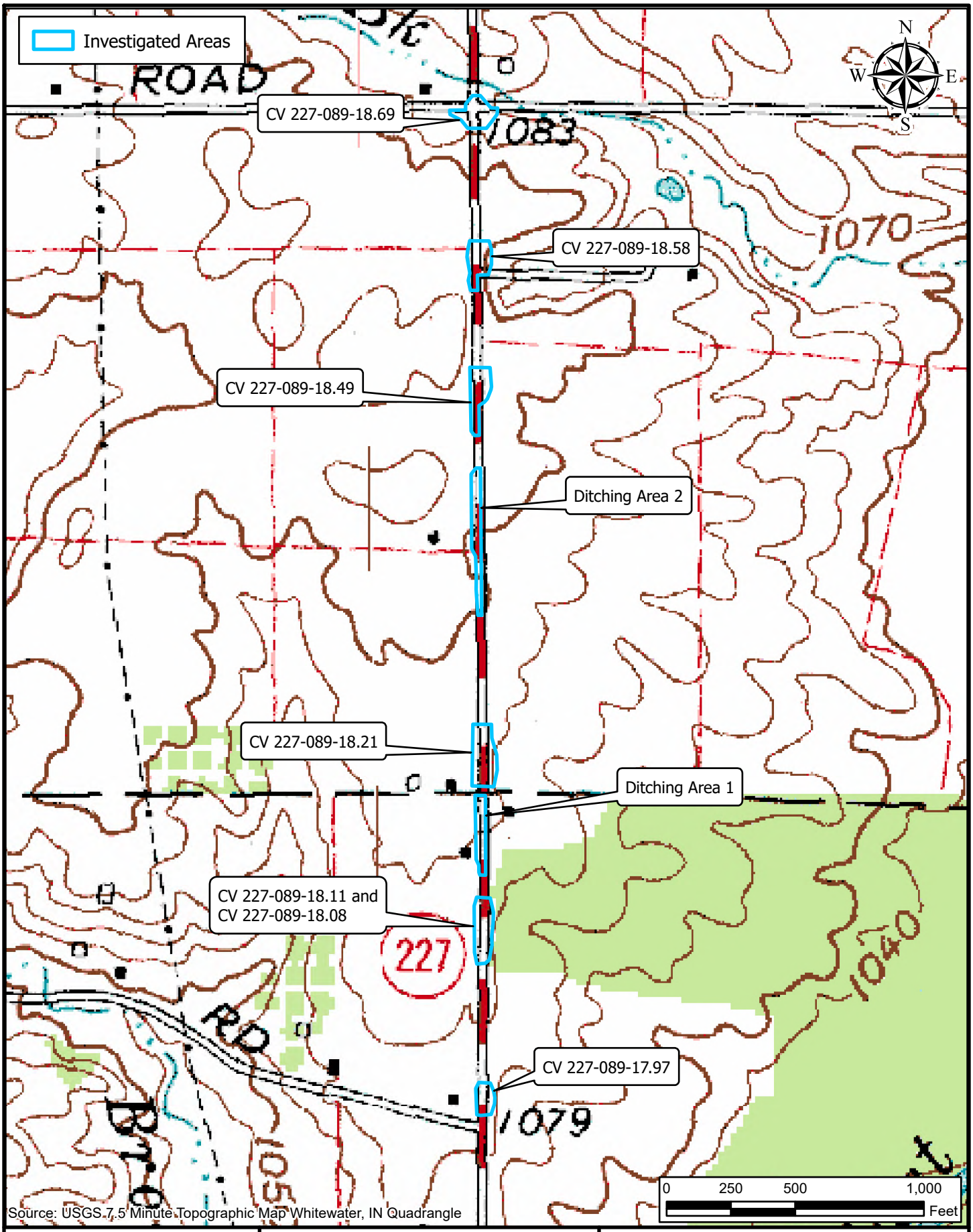
INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Improvements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

Appendix B
B - 1

Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:10/21/2025 User:mtrotter



Source: USGS 7.5 Minute Topographic Map Whitewater, IN Quadrangle

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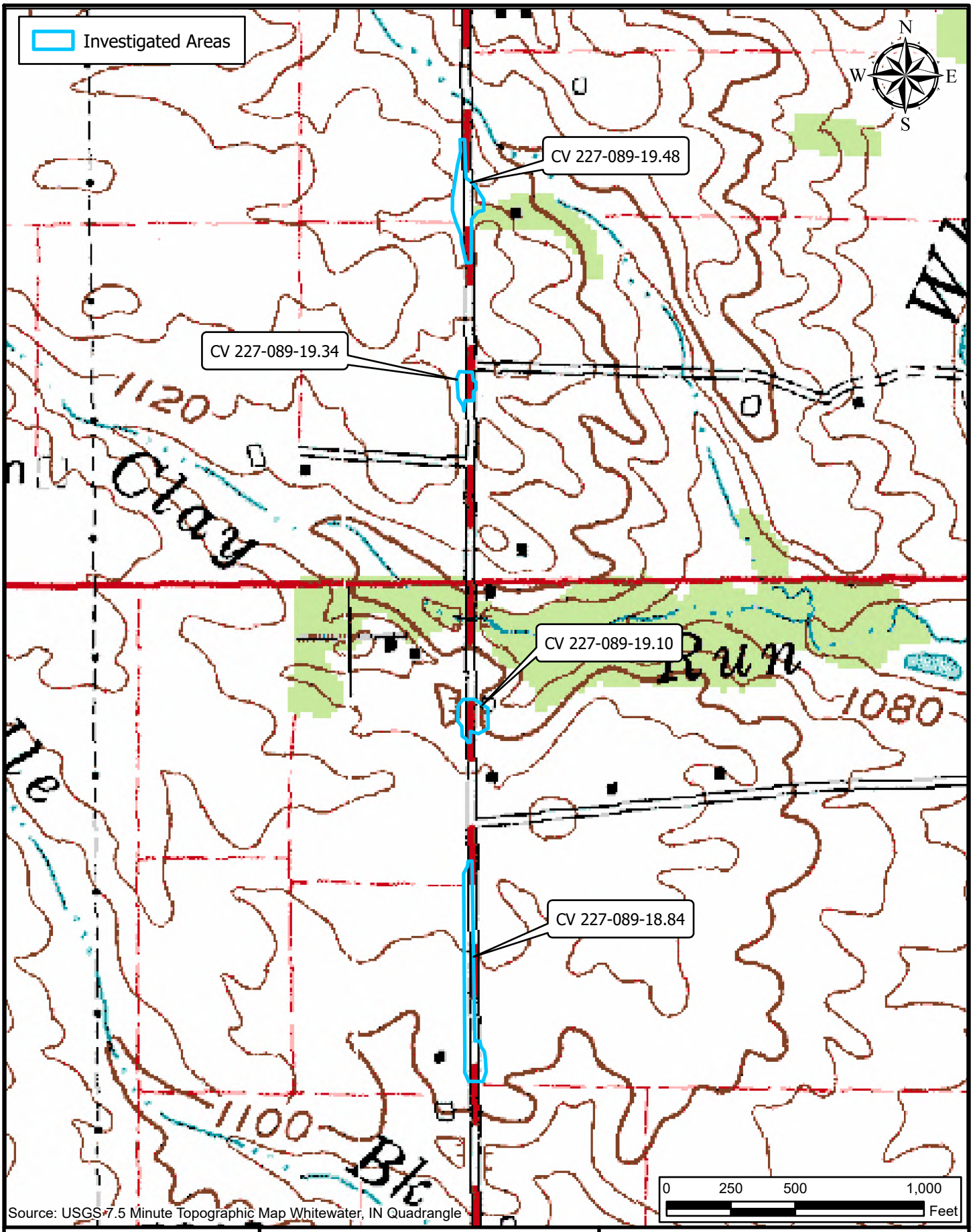
AMERICAN STRUCTUREPOINT INC.

Figure 2: USGS Topographic Map
Map 1 of 4

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Improvements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



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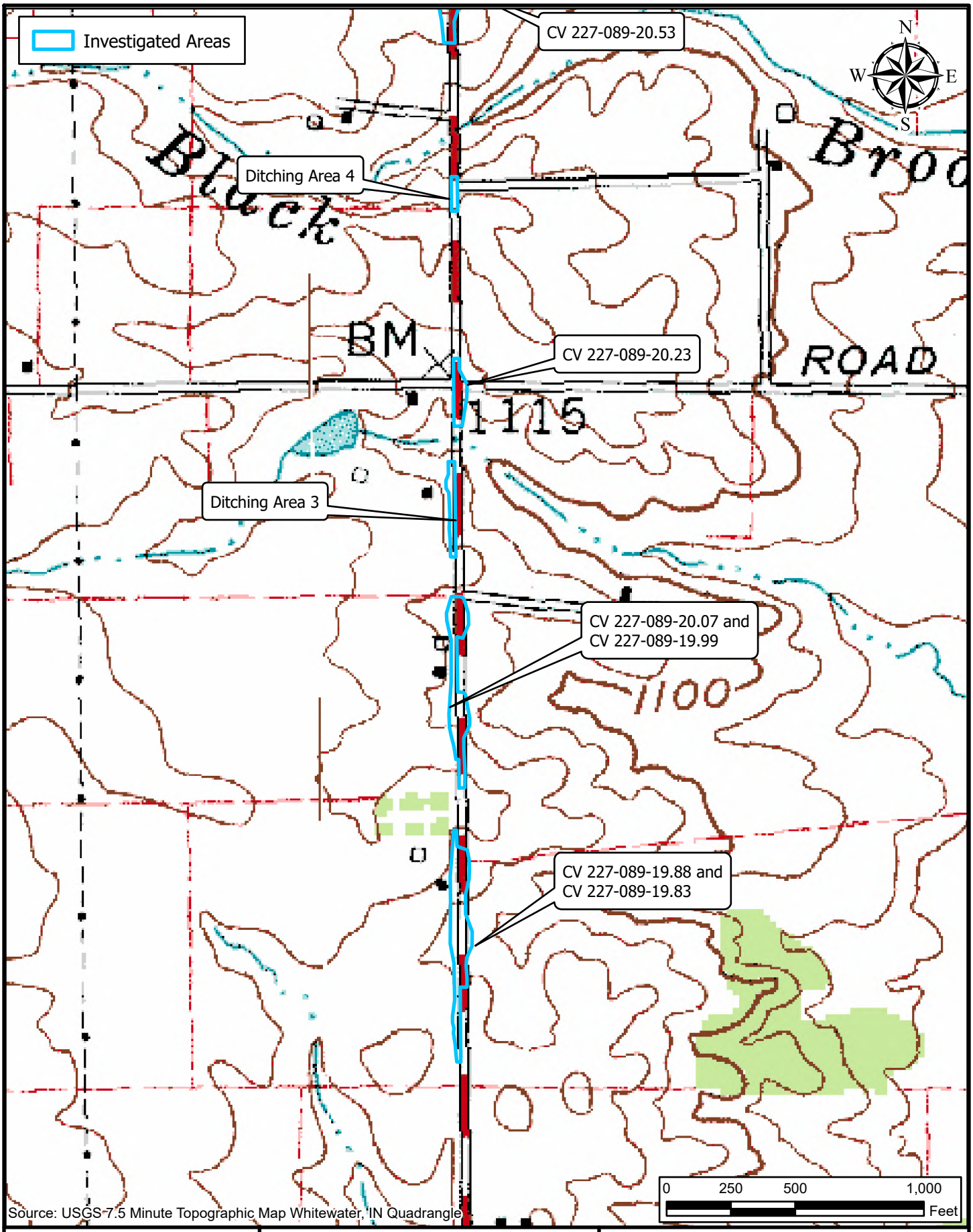
AMERICAN STRUCTUREPOINT INC.

Figure 2: USGS Topographic Map
Map 2 of 4

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Improvements Project
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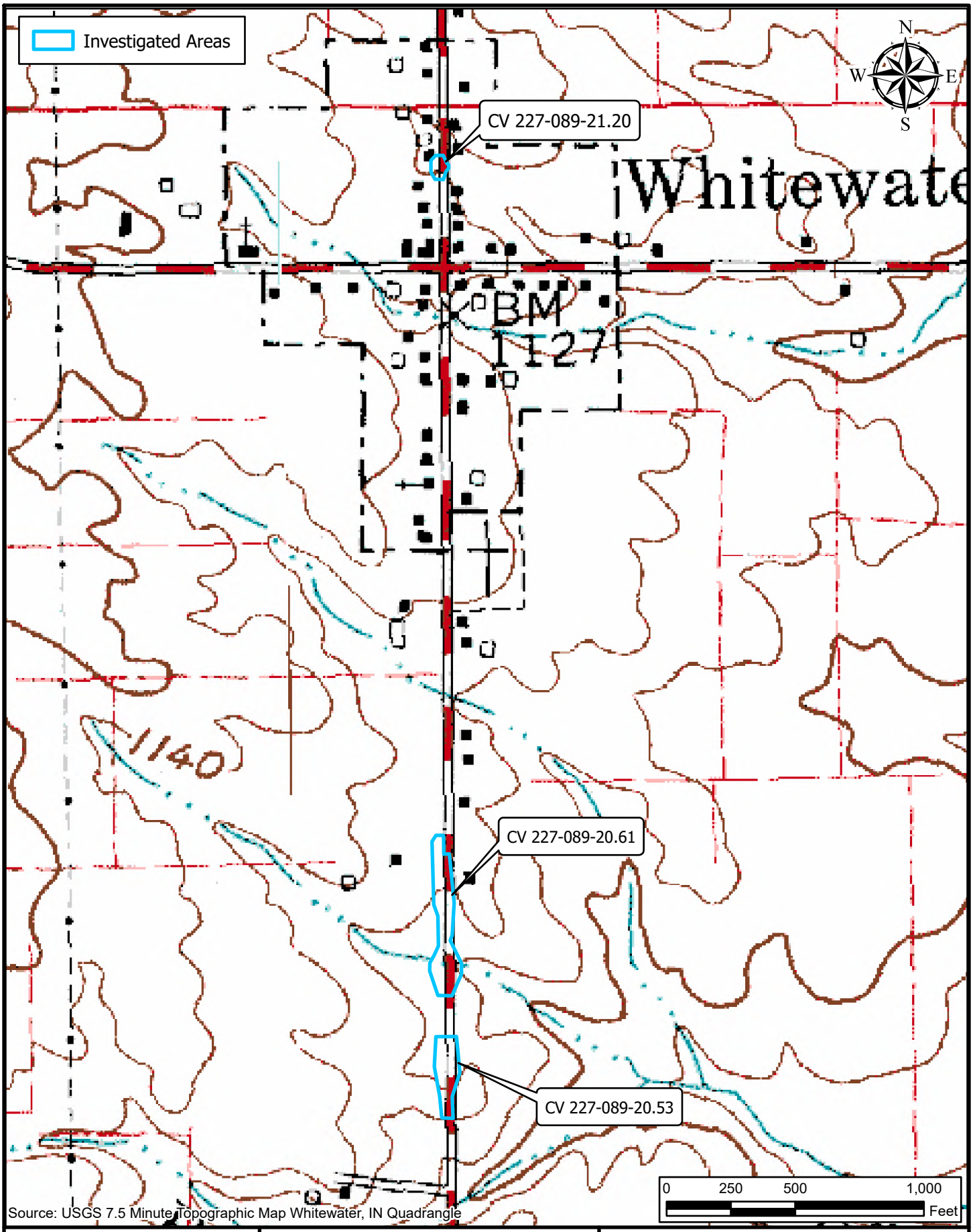
AMERICAN STRUCTUREPOINT INC.

Figure 2: USGS Topographic Map
Map 3 of 4

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Improvements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



Source: USGS 7.5 Minute Topographic Map Whitewater, IN Quadrangle

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AMERICAN STRUCTUREPOINT INC.

Figure 2: USGS Topographic Map
Map 4 of 4

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

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2022 IndianaMap Aerial Photography
Map 1 of 5

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Improvements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
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2022 IndianaMap Aerial Photography
Map 2 of 5

INDOT Greenfield District
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2022 IndianaMap Aerial Photography
Map 3 of 5

INDOT Greenfield District
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2022 IndianaMap Aerial Photography
Map 4 of 5

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Improvements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana
Date: 10/24/2024



Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:10/20/2025 User:mtrotter

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2022 IndianaMap Aerial Photography
Map 5 of 5

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Improvements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



Photo 1. Looking east at the inlet of CV 227-089-17.97. Animal path is present indicating small animals may use the culvert to pass underneath SR 227.



Photo 2. Looking northwest at the outlet of CV 227-089-18.08. Dominant vegetation is *Bromus inermis* and *Schedonorus arundinaceus.*



Photo 3. Looking north within Area 3. Dominant vegetation is *Schedonorus arundinaceus.*



Photo 4. Looking southeast at the inlet of CLV-37483



Photo 5. Looking south from the northern boundary of Area 5.



Photo 6. Looking west at the outlet of CV 227-089-18.49. Dominant vegetation is *Schedonorus arundinaceus* and *Cichorium intybus*.



Photo 7. Looking west at the outlet of CV 227-089-18.58. Dominant vegetation is *Schedonorus arundinaceus.*



Photo 8. Looking west at the inlet of CV 227-089-18.69, which conveys drainage from RSD 3 to RSD 4.



Photo 9. Looking northwest at the outlet of CV 227-089-18.84.



Photo 10. Looking east at the inlet of CV 227-089-19.10.



Photo 11. Looking east at the inlet of CV 227-089-19.34.



Photo 12. Looking west at the outlet of CV 227-089-19.48, which carries UNT 2 to Whitewater River east underneath SR 227.



Photo 13. Looking east at the inlet of CV 227-089-19.88.



Photo 14. Looking east at the inlet of CV 227-089-19.99 which conveys UNT 1 o Whitewater River under SR 227.



Photo 15. Looking south at grassy ROW and residential lawns from the northern boundary of the investigated area.



Photo 16. Looking north at partially buried inlet of CV 227-089-20.23.



Photo 17. Looking south within the investigated area. Dominant vegetation is *Schedonorus arundinaceus* and *Trifolium repens*.



Photo 18. Looking east at the inlet of CV 227-089-20.53.



Photo 19. Looking southwest at the outlet of CV 227-089-20.61.



Photo 20. Looking south at paved sidewalks, driveways and maintained lawns within the investigated area.

PROJECT	DESIGNATION
2200507	2200507
CONTRACT	BRIDGE FILE
R-44589	N/A

CULVERT ASSETS				
STR. NO.	CULVERT ASSET ID		WORK TYPE	STATION
101	CLV-37461	CV 227-089-17.97	REPLACEMENT	268+24.00
102	CLV-37471	CV 227-089-18.08	REPLACEMENT	274+18.00
103	CLV-37477	CV 227-089-18.11	REPLACEMENT	275+45.00
104	CLV-37483	CV 227-089-18.21	REPLACEMENT	281+21.00
105	CLV-37487	CV 227-089-18.49	REPLACEMENT	295+90.50
106	CLV-37493	CV 227-089-18.58	REPLACEMENT	300+88.50
107	CLV-37497	CV 227-089-18.69	REPLACEMENT	306+55.00
108	CLV-37503	CV 227-089-18.84	REPLACEMENT	314+56.00
109	CLV-37505	CV 227-089-19.10	REPLACEMENT	328+21.00
110	CLV-37525	CV 227-089-19.34	REPLACEMENT	340+98.50
111	CLV-1128	CV 227-089-19.48	REPLACEMENT	348+04.50
112	CLV-37549	CV 227-089-19.83	REPLACEMENT	366+57.50
113	CLV-37553	CV 227-089-19.88	REPLACEMENT	369+26.00
114	CLV-1129	CV 227-089-19.99	REPLACEMENT	374+98.00
115	CLV-37571	CV 227-089-20.07	REPLACEMENT	379+03.50
116	CLV-37595	CV 227-089-20.53	REPLACEMENT	403+36.00
117	CLV-37599	CV 227-089-20.61	REPLACEMENT	407+21.50
118	CLV-45614	CV 227-089-21.20	REPLACEMENT	438+36.30
119	CLV-37579	CV 227-089-20.23	REPLACEMENT	100+20.00 "B"

XXX Depicts Structure Location on Map

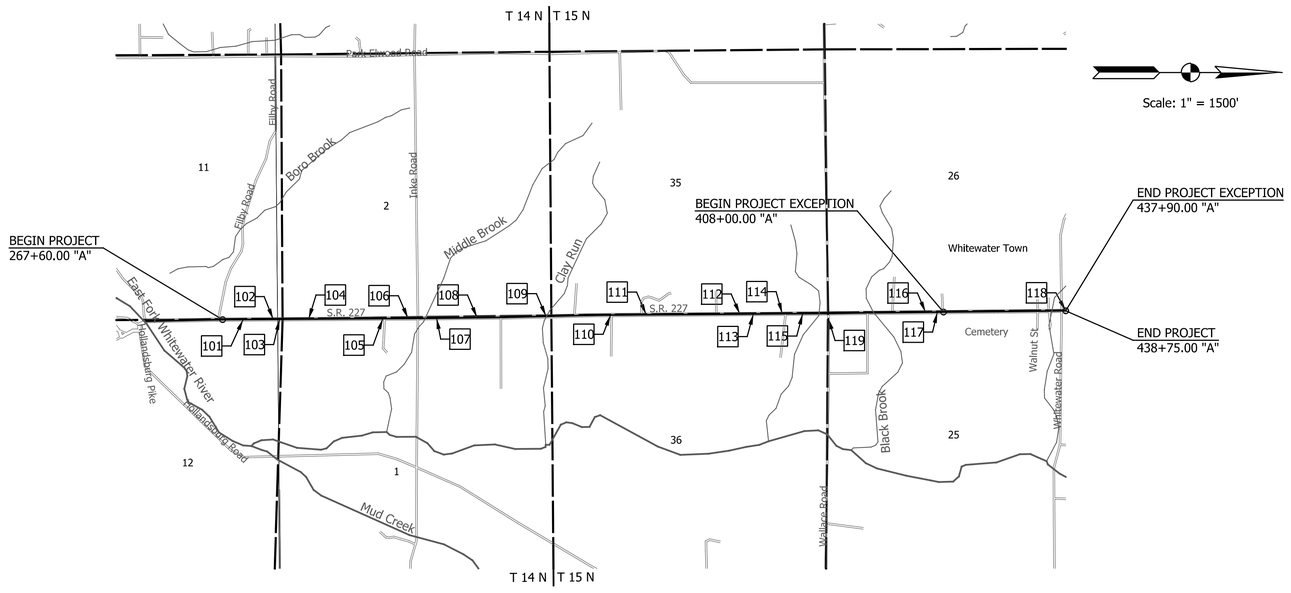
INDIANA DEPARTMENT OF TRANSPORTATION

ROAD PLANS

ROUTE: S.R. 227 FROM: RP 17+95 TO: RP 21+20

PROJECT NO. 2200507 P.E.
2200507 R/W
2200507 CONST.

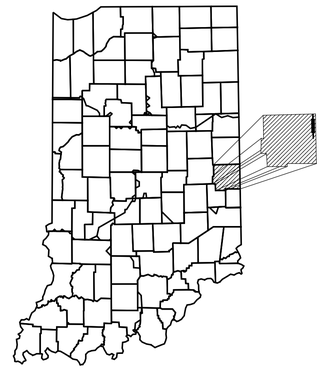
Project Description: Small Structure Replacements and Ditch Grading on SR 227 from 4.60 mi N of SR 121 to 7.86 mi N of SR 121, Within Sections 11 & 12 and Sections 1 & 2 in Township 14 N, Range 1 W, Wayne Township, and Within Sections 35 & 36 and Sections 24 & 25, Township 15 N, Range 1 W, Wayne County, Indiana.



WAYNE COUNTY

TRAFFIC DATA		S.R. 227	
A.A.D.T.	(PROJ. 2027)	1,566	V.P.D.
A.A.D.T.	(PROJ. 2047)	1,867	V.P.D.
D.H.V	(PROJ. 2047)	187	V.P.H.
DIRECTIONAL DISTRIBUTION		53	%
TRUCKS		7 %	A.A.D.T.
		5 %	D.H.V.

DESIGN DATA	
DESIGN SPEED	45 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	STATE COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	ROLLING
ACCESS CONTROL	NONE



PROJECT LOCATION SHOWN BY

LATITUDE: 39° 55' 28" N LONGITUDE: 84° 49' 53" W

HUC NUMBER: 05080003070030, 05080003070040

Gross Length: 3.24 MI.

Net Length: 2.67 MI.

Maximum Grade: Exist (6.3) %

NOTES TO REVIEWER				
STAGE ONE REVIEW	7/12/2024			
CONFORMANCE WITH LEVEL 1/LEVEL 2 CRITERIA	In Accordance with Design Memo 23-12 & IDM 40-8.03 Item 1, No changes have been made to existing substandard features for Standalone Small Structure Replacements; no Level One or Level Two Exceptions are required for these Plans.			
PRACTICAL DESIGN AND COST SAVINGS	Ditch Grading has been limited to locations of Small Structure Replacements and areas that do not meet required Capacities. All Culverts have been analyzed for Replace-In-Kind per Design Memo 23-13 where feasible. All Culverts are proposed to be replaced per coordination with the District Asset Engineer.			
QC/QA OF PLANS	ORIGINATED:	MCC	DATE:	07/03/2024
	CHECKED:	LAM	DATE:	07/08/2024
	BACKCHECKED:	JMS	DATE:	07/10/2024
	CORRECTED:	MCC	DATE:	07/11/2024
	VERIFIED:	JPS	DATE:	07/12/2024
FOR QUESTIONS DURING REVIEW:	Jamie Stetzel, PE		PROJECT MANAGER	
	317-547-5580		OFFICE PHONE	
	jstetzel@structurepoint.com		EMAIL	

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

AMERICAN STRUCTUREPOINT INC.
9025 RIVER ROAD, SUITE 200
INDIANAPOLIS, IN 46240
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com

PLANS PREPARED BY: American Structurepoint, Inc. (317) 547-5580 PHONE NUMBER

CERTIFIED BY: _____ DATE

APPROVED FOR LETTING: _____ INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE	
N/A	
DESIGNATION	
2200507	

SURVEY BOOK	SHEETS		
N/A	1	of	73
CONTRACT	PROJECT		
R-44589	2200507		

UTILITIES

ELECTRIC
Duke - Distribution
100 S. Mill Creek Road
Noblesville, IN 46062
(317) 776-5341
Contact: Cindy Rowland

Whitewater Valley REMC
101 Brownsville Avenue
Liberty, IN 47353
(765) 223-2061
Contact: Brooke Reiboldt

COMMUNICATIONS
Frontier
8001 W Jefferson Blvd
Fort Wayne, IN 46804
(260) 416-9053
Contact: Chris McAbee

Spectrum/Charter
3760 Interchange Rd
Columbus, OH 43204
(614) 254-4378
Contact: Mike Harvey

NLBC
6369 E Dublin Pike
New Lisbon, IN 47366
(940) 224-7929
Contact: Si Clark

Comcast
720 Taylor St
Fort Wayne, IN 46802
(260) 410-3504
Contact: Doug Fishburn

GAS
Panhandle Eastern Pipe Line
8910 Purdue Rd. Ste. 300
Indianapolis, IN 46268
(317) 879-3039
Contact: Nathan Cloud

811 Know what's below. Call before you dig.
INDIANA UNDERGROUND
1-800-382-5544 OR CALL 811
24 HOURS A DAY 7 DAYS A WEEK

GENERAL NOTES

**	All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified
	The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.
	The paper relocation will be cross sectioned by the Engineer before construction.
	Existing asphalt pavement located outside the construction limits, between Sta. _____ and Sta. _____, shall be removed as directed.
	The quantity of peat excavation shown on the plans has been estimated on the basis of theoretical cross sections by using treatment of existing fills, treatment by removal, or treatment by displacement, where each treatment applies.
	All limited access right-of-way (L.A. R/W) is to be fenced with chain link type fence (CLTF) or farm field type fence (FFTF) where specified in the plans.
	Contractor shall verify existing flowline elevations to set the appropriate sump depth.

** REPRESENTS GENERAL NOTES REQUIRED

INDEX

SHEET NO.	DRAWING INDEX
1	TITLE
2	INDEX & GENERAL NOTES
3 - 4	TYPICAL CROSS SECTIONS
5 - 8	PLAT NO. 1
9 - 12	GEOMETRIC TIE-UPS
13 - 15	TRAFFIC MAINTENENACE DETAILS
16 - 32	PLAN AND PROFILE
33 - 37	GENERAL PLAN DETAILS
38	GRADING PLAN
39	MISCELLANEOUS DETAILS
40	MISCELLANEOUS TABLES
41	APPROACH TABLE
42	STRUCTURE DATA TABLE
43 - 73	CROSS SECTIONS

REVISIONS

SHEET NO.	DATE	REVISED

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

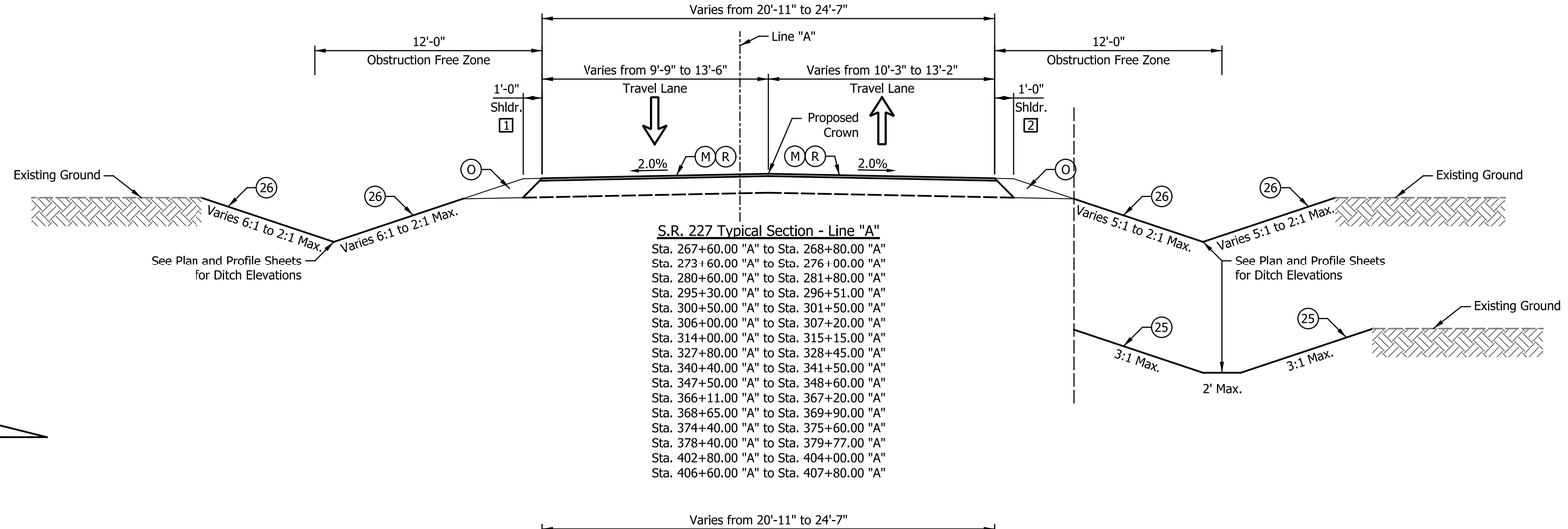
INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX AND GENERAL NOTES

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	2200507
SURVEY BOOK	SHEETS
N/A	2 of 73
CONTRACT	PROJECT
R-44589	2200507

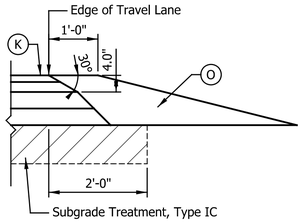
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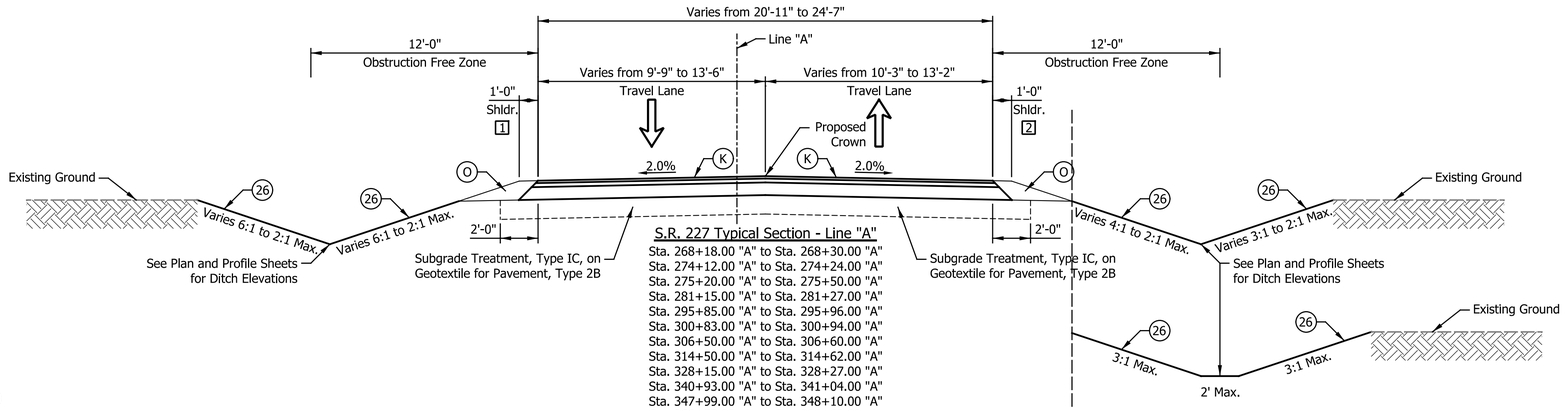


S.R. 227 Typical Section - Line "A"

Sta. 267+60.00 "A" to Sta. 268+80.00 "A"
Sta. 273+60.00 "A" to Sta. 276+00.00 "A"
Sta. 280+60.00 "A" to Sta. 281+80.00 "A"
Sta. 295+30.00 "A" to Sta. 296+51.00 "A"
Sta. 300+50.00 "A" to Sta. 301+50.00 "A"
Sta. 306+00.00 "A" to Sta. 307+20.00 "A"
Sta. 314+00.00 "A" to Sta. 315+15.00 "A"
Sta. 327+80.00 "A" to Sta. 328+45.00 "A"
Sta. 340+40.00 "A" to Sta. 341+50.00 "A"
Sta. 347+50.00 "A" to Sta. 348+60.00 "A"
Sta. 366+11.00 "A" to Sta. 367+20.00 "A"
Sta. 368+65.00 "A" to Sta. 369+90.00 "A"
Sta. 374+40.00 "A" to Sta. 375+60.00 "A"
Sta. 378+40.00 "A" to Sta. 379+77.00 "A"
Sta. 402+80.00 "A" to Sta. 404+00.00 "A"
Sta. 406+60.00 "A" to Sta. 407+80.00 "A"

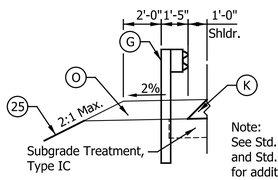


HMA Shoulder Safety Edge Detail
(Not to Scale, Reverse as Necessary)



S.R. 227 Typical Section - Line "A"

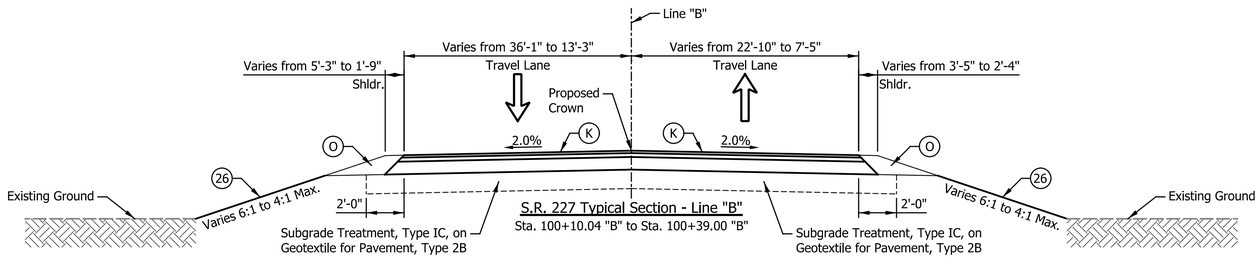
Sta. 268+18.00 "A" to Sta. 268+30.00 "A"
Sta. 274+12.00 "A" to Sta. 274+24.00 "A"
Sta. 275+20.00 "A" to Sta. 275+50.00 "A"
Sta. 281+15.00 "A" to Sta. 281+27.00 "A"
Sta. 295+85.00 "A" to Sta. 295+96.00 "A"
Sta. 300+83.00 "A" to Sta. 300+94.00 "A"
Sta. 306+50.00 "A" to Sta. 306+60.00 "A"
Sta. 314+50.00 "A" to Sta. 314+62.00 "A"
Sta. 328+15.00 "A" to Sta. 328+27.00 "A"
Sta. 340+93.00 "A" to Sta. 341+04.00 "A"
Sta. 347+99.00 "A" to Sta. 348+10.00 "A"
Sta. 366+52.00 "A" to Sta. 366+63.00 "A"
Sta. 369+20.00 "A" to Sta. 369+32.00 "A"
Sta. 374+92.00 "A" to Sta. 375+04.00 "A"
Sta. 378+98.00 "A" to Sta. 379+09.00 "A"
Sta. 403+30.00 "A" to Sta. 403+42.00 "A"
Sta. 407+14.00 "A" to Sta. 407+29.00 "A"



Note:
See Std. Dwg. E 601-GRET
and Std. Dwg. E 601-MGSA
for additional information.

MGS W-Beam Guardrail Detail
(Reverse as Necessary)

Sta. 346+28.25 "A" Rt. to Sta. 348+78.25 "A" Rt.
Sta. 346+99.50 "A" Lt. to Sta. 349+37.00 "A" Lt.
Sta. 373+41.75 "A" Rt. to Sta. 375+66.75 "A" Rt.
Sta. 374+10.50 "A" Lt. to Sta. 376+48.00 "A" Lt.



S.R. 227 Typical Section - Line "B"

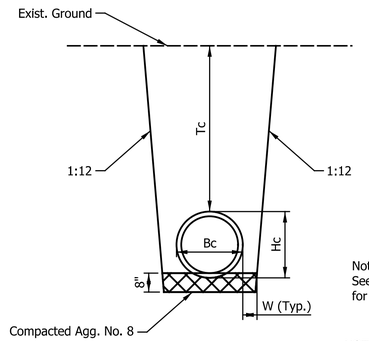
Sta. 100+10.04 "B" to Sta. 100+39.00 "B"

LEGEND

- (F) Sidewalk, Concrete, 4 in.
- (G) Guardrail, MGS W-Beam, 6 ft. 3 in. Spacing
- (K) Full Depth HMA Pavement consisting of
  165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5mm, on
  275 lbs/sys QC/QA-HMA, 3, 58H, Intermediate, 19.0 mm, on
  880 lbs/sys QC/QA-HMA, 3, 58H, Base, 25.0 mm, on
  Subgrade Treatment, Type IC on Geotextile for Pavement, Type 2B
- (M) Milling, Asphalt, 1.5 in.
- (O) Compacted Aggregate, No. 53, Variable Depth
- (R) HMA Resurfacing consisting of
  165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5mm
- (25) Seed Mixture, R
- (26) Sodding

[1] Varies 1'-3" to 1'-0" from Sta. 267+60.00 to Sta. 268+80.00 "A"
Equals 1'-0" from Sta. 273+60.00 to Sta 276+00.00 "A"
Equals 1'-0" from Sta. 280+60.00 "A" to Sta. 281+80.00 "A"
Equals 1'-0" from Sta. 295+30.00 "A" to Sta. 296+24.26 "A"
Equals 1'-0" from Sta. 296+45.57 "A" to Sta. 296+50.00 "A"
Equals 1'-0" from Sta. 300+50.00 "A" to Sta. 301+50.00 "A"
Varies 3'-0" to 1'-5" from Sta. 306+00.00 to Sta. 306+65.67 "A"
Equals 0'-0" from Sta. 306+65.67 "A" to Sta. 306+86.17 "A"
Varies 1'-10" to 3'-2" from Sta. 306+87.17 to Sta. 307+20.00 "A"
Equals 1'-0" from Sta. 314+00.00 "A" to Sta. 315+15.00 "A"
Equals 1'-1" from Sta. 327+80.00 "A" to Sta. 328+45.00 "A"
Equals 1'-0" from Sta. 340+40.00 "A" to Sta. 341+50.00 "A"
Varies 1'-6" to 5'-6" from Sta. 346+49.50 to Sta. 346+89.50 "A"
Equals 5'-6" from Sta. 346+89.50 "A" to Sta. 347+49.50 "A"
Varies 5'-6" to 4'-5" from Sta. 347+49.50 to Sta. 347+54.92 "A"
Equals 4'-5" from Sta. 347+54.92 "A" to Sta. 348+81.58 "A"
Varies 4'-5" to 5'-6" from Sta. 348+81.58 to Sta. 348+87.00 "A"
Equals 5'-6" from Sta. 348+87.00 "A" to Sta. 349+46.00 "A"
Equals 1'-0" from Sta. 366+11.00 "A" to Sta. 367+20.00 "A"
Equals 0'-0" from Sta. 368+65.00 "A" to Sta. 369+09.15 "A"
Varies 0'-0" to 1'-8" from Sta. 369+09.15 to Sta. 369+14.00 "A"
Equals 1'-8" from Sta. 369+14.00 "A" to Sta. 369+90.00 "A"
Varies 2'-6" to 5'-6" from Sta. 373+65.50 to Sta. 374+00.50 "A"
Equals 5'-6" from Sta. 374+00.50 "A" to Sta. 374+60.50 "A"
Varies 5'-6" to 4'-5" from Sta. 374+60.50 to Sta. 374+65.92 "A"
Equals 4'-5" from Sta. 374+65.92 "A" to Sta. 375+92.58 "A"
Varies 4'-5" to 5'-6" from Sta. 375+92.58 to Sta. 375+98.00 "A"
Equals 5'-6" from Sta. 375+98.00 "A" to Sta. 376+58.00 "A"
Varies 5'-6" to 1'-6" from Sta. 376+58.00 to Sta. 376+98.00 "A"
Equals 1'-2" from Sta. 378+40.00 "A" to Sta. 379+77.00 "A"
Equals 1'-3" from Sta. 402+80.00 "A" to Sta. 404+00.00 "A"

[2] Varies 2'-4" to 1'-0" from Sta. 267+60.00 to Sta. 268+80.00 "A"
Varies 1'-0" to 1'-6" from Sta. 273+60.00 to Sta. 276+00.00 "A"
Equals 1'-9" from Sta. 280+60.00 "A" to Sta. 281+80.00 "A"
Varies 1'-10" to 2'-1" from Sta. 295+30.00 to Sta. 296+51.00 "A"
Equals 1'-8" from Sta. 300+50.00 "A" to Sta. 301+50.00 "A"
Varies 1'-7" to 2'-2" from Sta. 306+00.00 to Sta. 306+64.17 "A"
Equals 0'-0" from Sta. 306+64.17 "A" to Sta. 306+85.17 "A"
Varies 1'-10" to 5'-2" from Sta. 306+85.17 to Sta. 307+20.00 "A"
Equals 1'-7" from Sta. 314+00.00 "A" to Sta. 315+15.00 "A"
Equals 2'-1" from Sta. 327+80.00 "A" to Sta. 328+45.00 "A"
Varies 1'-7" to 2'-3" from Sta. 340+40.00 to Sta. 341+50.00 "A"
Varies 1'-3" to 5'-6" from Sta. 345+75.75 to Sta. 346+18.25 "A"
Equals 5'-6" from Sta. 346+18.25 "A" to Sta. 346+78.25 "A"
Varies 5'-6" to 4'-5" from Sta. 346+78.25 to Sta. 346+83.67 "A"
Equals 4'-5" from Sta. 346+83.67 "A" to Sta. 348+22.83 "A"
Varies 4'-5" to 5'-6" from Sta. 348+22.83 to Sta. 348+28.25 "A"
Equals 5'-6" from Sta. 348+28.25 "A" to Sta. 348+89.50 "A"
Varies 3'-0" to 1'-9" from Sta. 366+11.00 to Sta. 367+20.00 "A"
Varies 2'-4" to 1'-8" from Sta. 368+65.00 to Sta. 368+89.75 "A"
Equals 1'-8" from Sta. 368+89.75 "A" to Sta. 369+90.00 "A"
Varies 2'-0" to 5'-6" from Sta. 372+91.75 to Sta. 373+31.75 "A"
Equals 5'-6" from Sta. 373+31.75 "A" to Sta. 373+91.75 "A"
Varies 5'-6" to 4'-5" from Sta. 373+91.75 to Sta. 373+97.17 "A"
Equals 4'-5" from Sta. 373+97.17 "A" to Sta. 375+11.33 "A"
Varies 4'-5" to 5'-6" from Sta. 375+11.33 to Sta. 375+16.75 "A"
Equals 5'-6" from Sta. 375+16.75 "A" to Sta. 375+76.75 "A"
Varies 5'-6" to 2'-0" from Sta. 375+76.75 to Sta. 376+11.75 "A"
Equals 1'-2" from Sta. 378+40.00 "A" to Sta. 379+32.50 "A"
Varies 0'-0" to 3'-6" from Sta. 379+32.50 to Sta. 379+77.00 "A"
Varies 1'-5" to 2'-11" from Sta. 402+80.00 to Sta. 404+00.00 "A"
Equals 1'-5" from Sta. 406+60.00 "A" to Sta. 407+80.00 "A"



Typical Trench Detail
(Not to Scale)

Note:
See Std. Dwg. E 715-BKFL-03
for additional information

NOTES:
Hc = Overall rise
Bc = Overall span
Tc = Trench Cover
W = 0.3 Bc or 9", which ever is greater

DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: LAM

CHECKED: MRO CHECKED: JPS

INDIANA
DEPARTMENT OF TRANSPORTATION

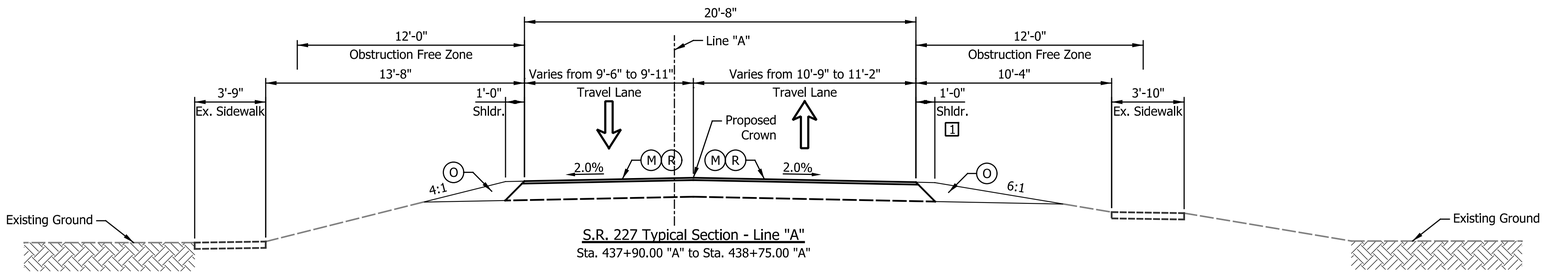
TYPICAL CROSS SECTIONS
S.R. 227

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	2200507
SURVEY BOOK	SHEETS
N/A	3 of 73
CONTRACT	PROJECT
R-44589	2200507

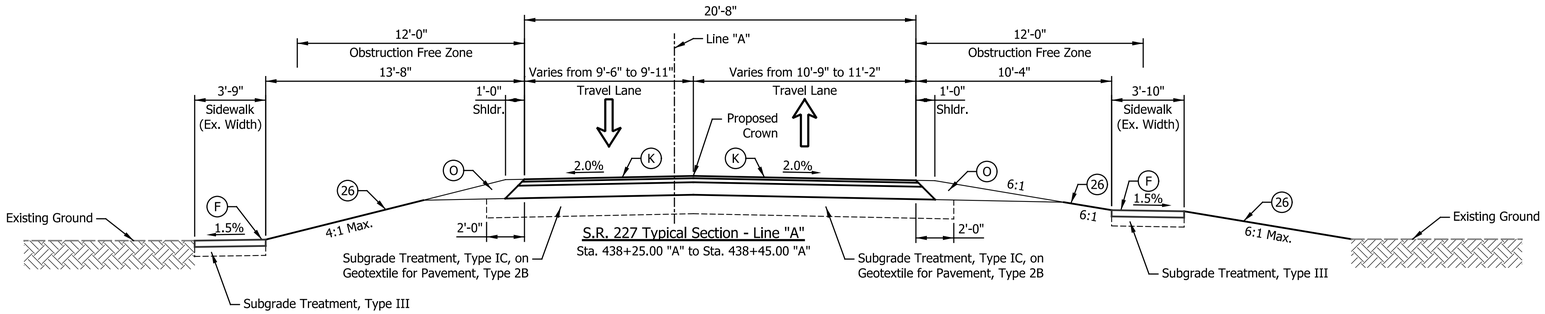
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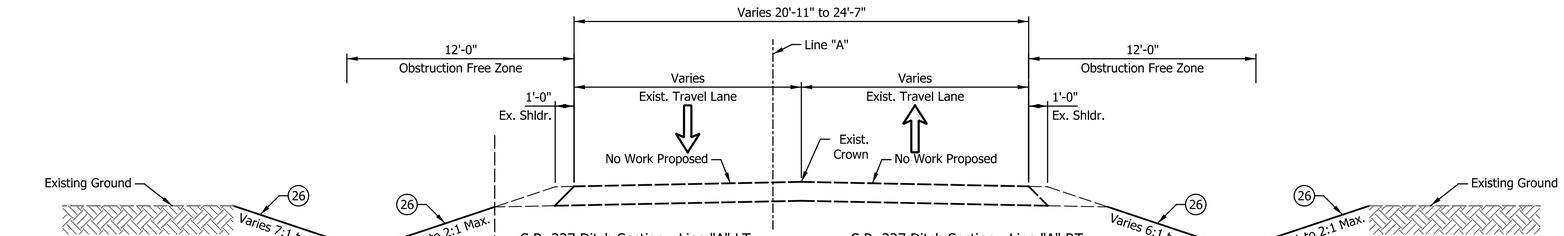
[1] Equals 0'-0" from Sta. 437+90.00 "A" to Sta. 438+14.86 "A"
Varies 0'-0" to 1'-0" from Sta. 438+14.86 to Sta. 438+17.00 "A"



S.R. 227 Typical Section - Line "A"
Sta. 437+90.00 "A" to Sta. 438+75.00 "A"



S.R. 227 Typical Section - Line "A"
Sta. 438+25.00 "A" to Sta. 438+45.00 "A"



S.R. 227 Ditch Section - Line "A" LT

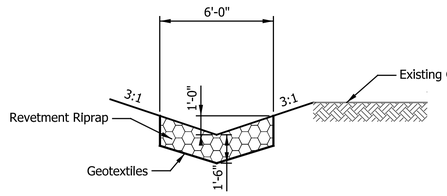
Sta. 273+52.85 "A" to Sta. 273+60.00 "A"
Sta. 278+50.00 "A" to Sta. 279+89.00 "A"
Sta. 280+52.84 "A" to Sta. 280+60.00 "A"
Sta. 281+80.00 "A" to Sta. 282+68.00 "A"
Sta. 300+11.00 "A" to Sta. 300+50.00 "A"
Sta. 340+00.00 "A" to Sta. 340+40.00 "A"
Sta. 366+00.00 "A" to Sta. 366+11.00 "A"
Sta. 369+90.00 "A" to Sta. 370+50.00 "A"
Sta. 375+60.00 "A" to Sta. 377+00.00 "A"
Sta. 387+00.00 "A" to Sta. 387+58.00 "A"
Sta. 388+22.66 "A" to Sta. 389+00.00 "A"
Sta. 402+50.00 "A" to Sta. 402+80.00 "A"
Sta. 404+00.00 "A" to Sta. 404+22.00 "A"
Sta. 406+50.00 "A" to Sta. 406+60.00 "A"
Sta. 407+80.00 "A" to Sta. 408+00.00 "A"

S.R. 227 Ditch Section - Line "A" RT

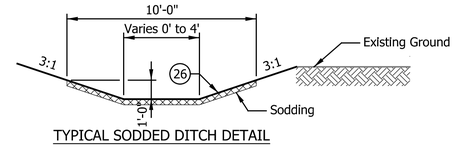
Sta. 315+15.00 "A" to Sta. 315+50.00 "A"
Sta. 364+65.00 "A" to Sta. 366+11.00 "A"
Sta. 401+50.00 "A" to Sta. 402+80.00 "A"

LEGEND

- (F) Sidewalk, Concrete, 4 in.
- (G) Guardrail, MGS W-Beam, 6 ft. 3 in. Spacing
- (K) Full Depth HMA Pavement consisting of
  165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5mm, on
  275 lbs/sys QC/QA-HMA, 3, 58H, Intermediate, 19.0 mm, on
  880 lbs/sys QC/QA-HMA, 3, 58H, Base, 25.0 mm, on
  Subgrade Treatment, Type IC on Geotextile for Pavement, Type 2B
- (M) Milling, Asphalt, 1.5 in.
- (O) Compacted Aggregate, No. 53, Variable Depth
- (R) HMA Resurfacing consisting of
  165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5mm
- (25) Seed Mixture, R
- (26) Sodding



TYPICAL RIPRAP DITCH DETAIL



TYPICAL SODDED DITCH DETAIL

NOTES:
The areas beyond the limits of ditch sodding and riprap will be seeded.

Equals 2' from Sta. 275+00.00 to 275+45.00
Varies 0' to 4' from Sta. 278+50.00 "A" to Sta. 279+88.89
Equals 0' at all other locations where a ditch is present
Ditches will be sodded where slope is >1% and <5%

DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: LAM

CHECKED: MRO CHECKED: JPS

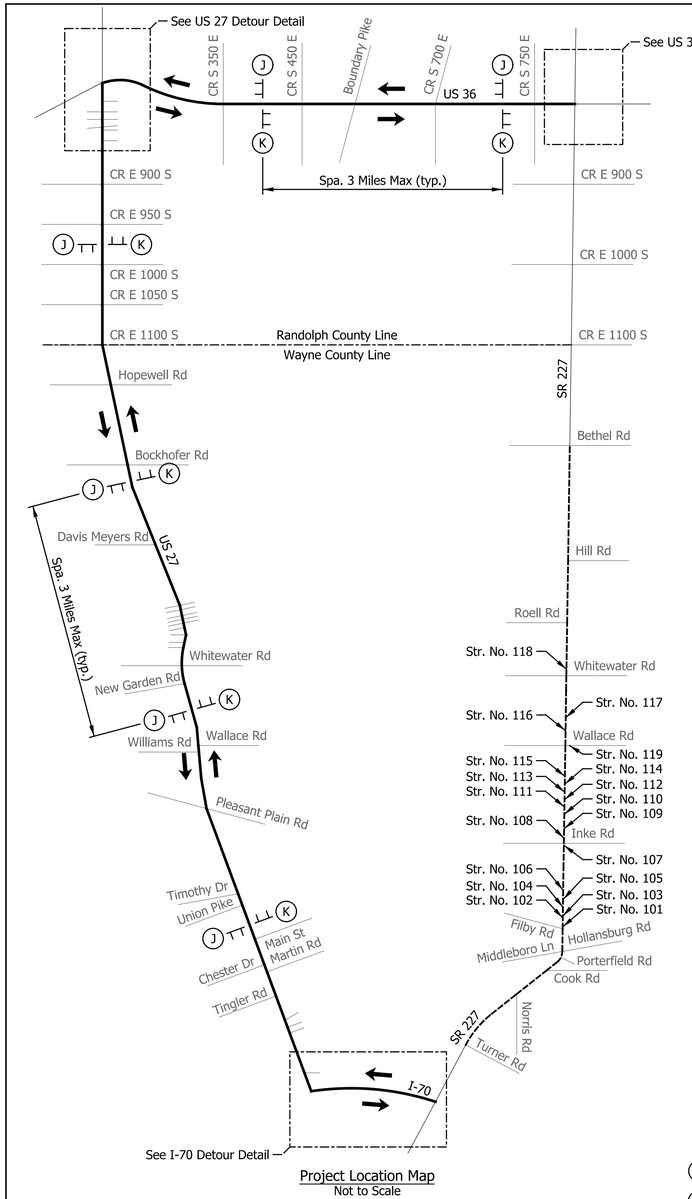
INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
S.R. 227

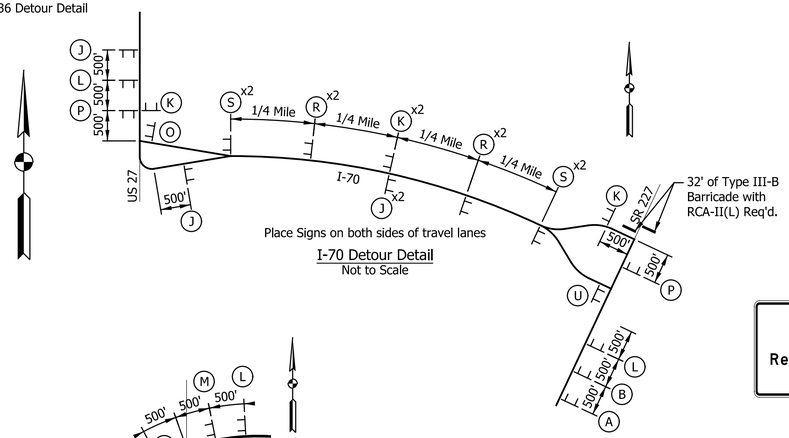
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1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	2200507
SURVEY BOOK	SHEETS
N/A	4 of 73
CONTRACT	PROJECT
R-44589	2200507

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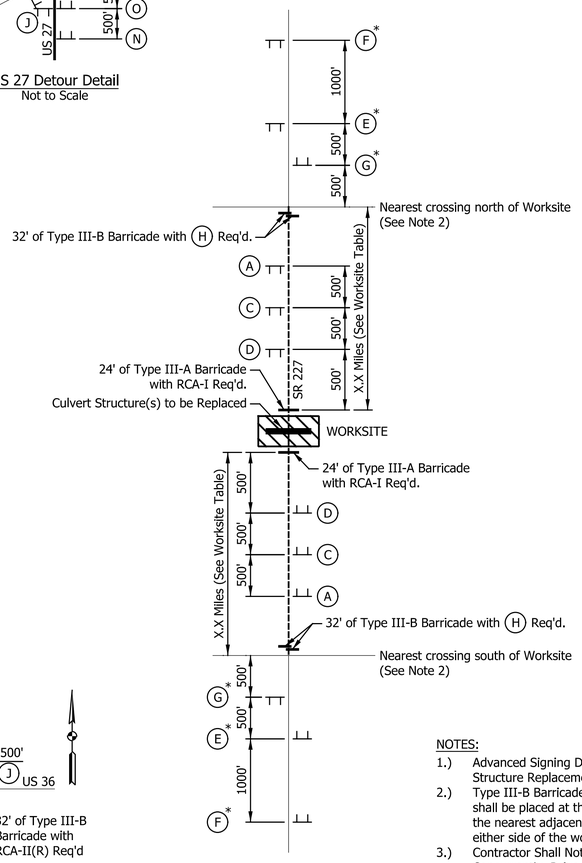


Project Location Map
Not to Scale

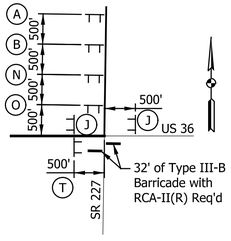


I-70 Detour Detail
Not to Scale

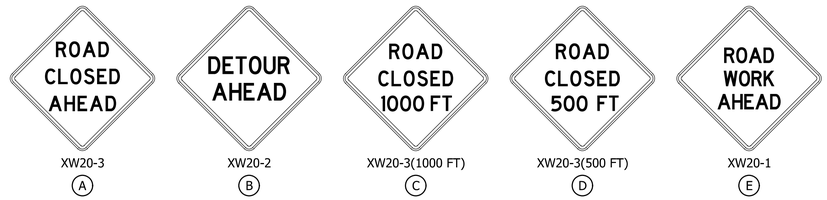
US 27 Detour Detail
Not to Scale

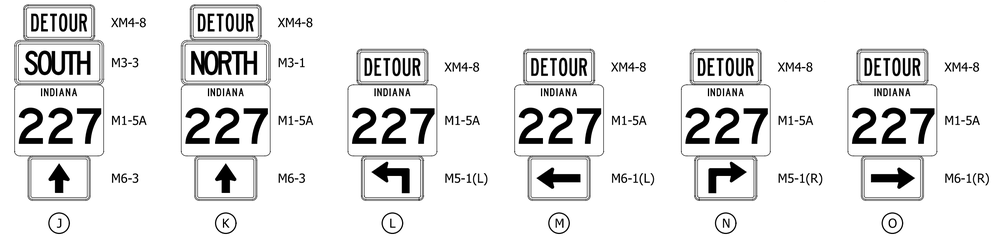


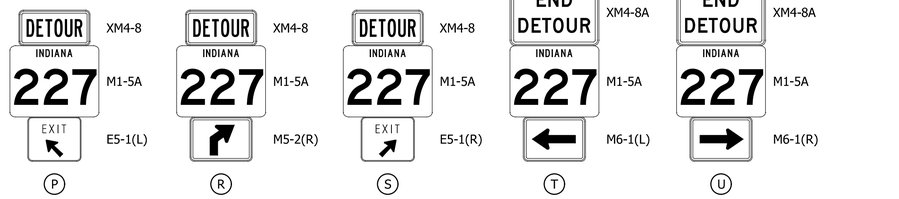
Advanced Signing Detail
Not to Scale



US 36 Detour Detail
Not to Scale







LEGEND

- Construction Area
- Direction of Traffic
- Type III-A Barricade
- Type III-B Barricade
- Roadway Closed
- Construction Sign or DRMA

QUANTITY SUMMARY - ROADWAY DETOUR ROUTE		
Detour Route Marker Assembly	47	Each
Construction Sign, Type A	16	Each
Construction Sign, Type B	2	Each
Type III-A Barricade	48	Lft.
Type III-B Barricade	128	Lft.
Road Closure Sign Assembly	4	Each

NOTES:

1.) Advanced Signing Detail Applicable for all Small Structure Replacements within Project Limits.
2.) Type III-B Barricades and appropriate signage shall be placed at the intersection of SR 227 and the nearest adjacent roadway crossings for either side of the worksite.
3.) Contractor Shall Not Work on Adjacent Worksites Concurrently. Drive Access Shall be Maintained Throughout All Phases and Duration of Construction.

* Signs shall be placed upon reopening of roadway while construction activities are still occuring.

WORKSITE DETAILS

WORKSITE	STR. NUMBER(S)	NEAREST SOUTHERN CROSSING	MILES	NEAREST NORTHERN CROSSING	MILES
1	101, 102, 103	Filby Road	0.1	Inke Road	0.6
2	104	Filby Road	0.3	Inke Road	0.5
3	105	Filby Road	0.6	Inke Road	0.2
4	106	Filby Road	0.7	Inke Road	0.1
5	107	Filby Road	0.8	Inke Road	0.0
6	108	Inke Road	0.2	Wallace Road	1.4
7	109	Inke Road	0.4	Wallace Road	1.2
8	110	Inke Road	0.7	Wallace Road	0.9
9	111	Inke Road	0.8	Wallace Road	0.8
10	112, 113	Inke Road	1.2	Wallace Road	0.4
11	114	Inke Road	1.3	Wallace Road	0.3
12	115	Inke Road	1.4	Wallace Road	0.2
13	119	Inke Road (West)	0.0	Hollansburg Richmond Road (East)	1.1
14	116, 117	Wallace Road	0.3	Whitewater Road	0.5
15	118	Whitewater Road	0.0	Roell Road	0.7

DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

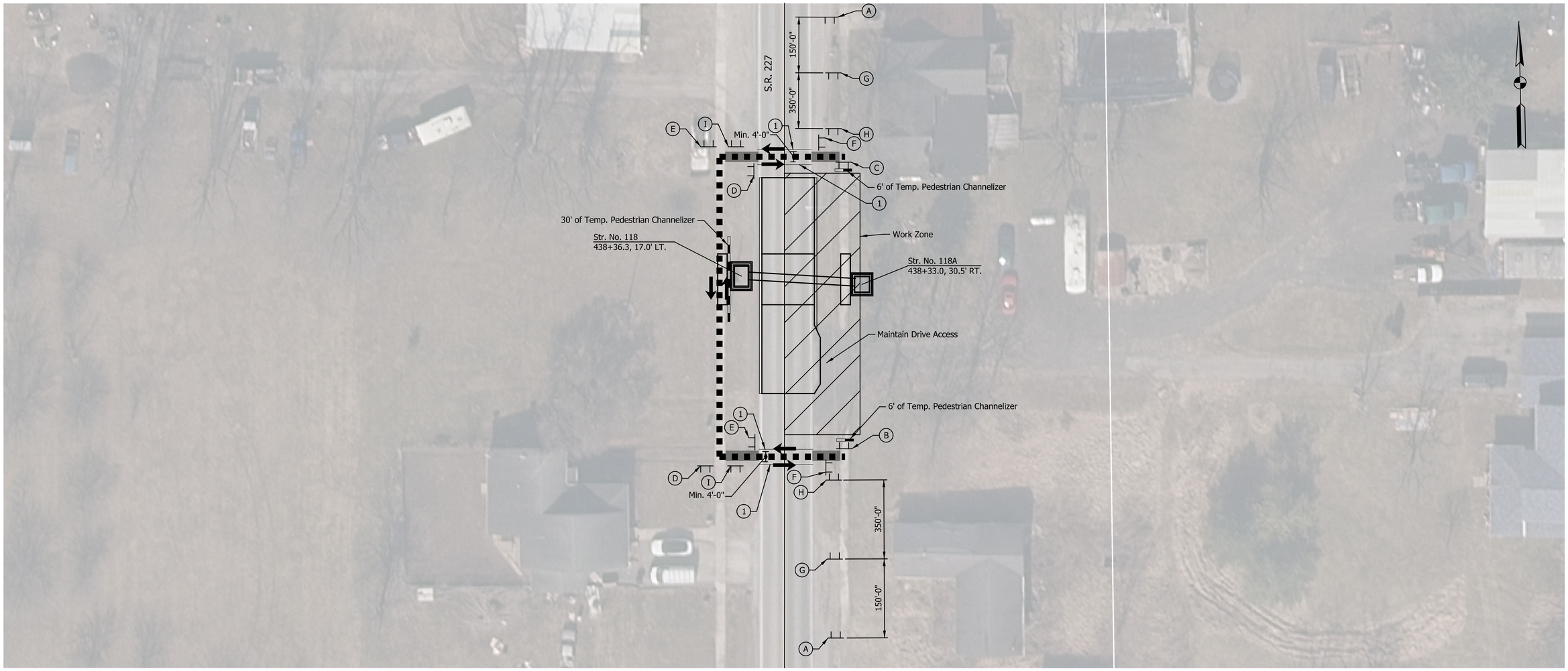
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
DETOUR ROUTE

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	2200507
SURVEY BOOK	SHEETS
N/A	13 of 73
CONTRACT	PROJECT
R-44589	2200507

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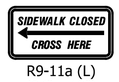


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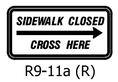
- Direction of Traffic
- Detour Route
- Construction Area
- Construction Sign
- Temporary Aggregate for Curb Ramp
- Temporary Pedestrian Channelizer Vehicle Redirection Not Required
- (1) Temporary Pavement Marking, Removable, White, 6"



XW20-1
(48" x 48")
(A)



R9-11a (L)
(24" x 12")
(B)



R9-11a (R)
(24" x 12")
(C)



M4-9b (L)
(30" x 24")
(D)



M4-9b (R)
(30" x 24")
(E)



M4-8a (R)
(30" x 24")
(F)



W11-2
(30" x 30")
W16-9P
(24" x 12")
(G)


W16-7P (L or R)
(24" x 12")
(H)



R9-8
(24" x 12")
(I)

QUANTITY SUMMARY - PEDESTRIAN DETOUR FOR CULVERT CONSTRUCTION EAST OF SR 227		
Construction Sign, Type A	2	Each
Construction Sign, Type B	18	Each
Temp. Pvmt. Mrk., Removable, White, 6 in.	84	Lft.
Temporary Pedestrian Channelizer	42	Lft.
Temporary Aggregate Ramps	2.44	Ton

Notes:
1. Contractor shall maintain Temporary Access to all Driveways during Construction.
2. Contractor shall maintain Pedestrian Access through Construction and Construct the Culvert in pieces that allow this.

DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

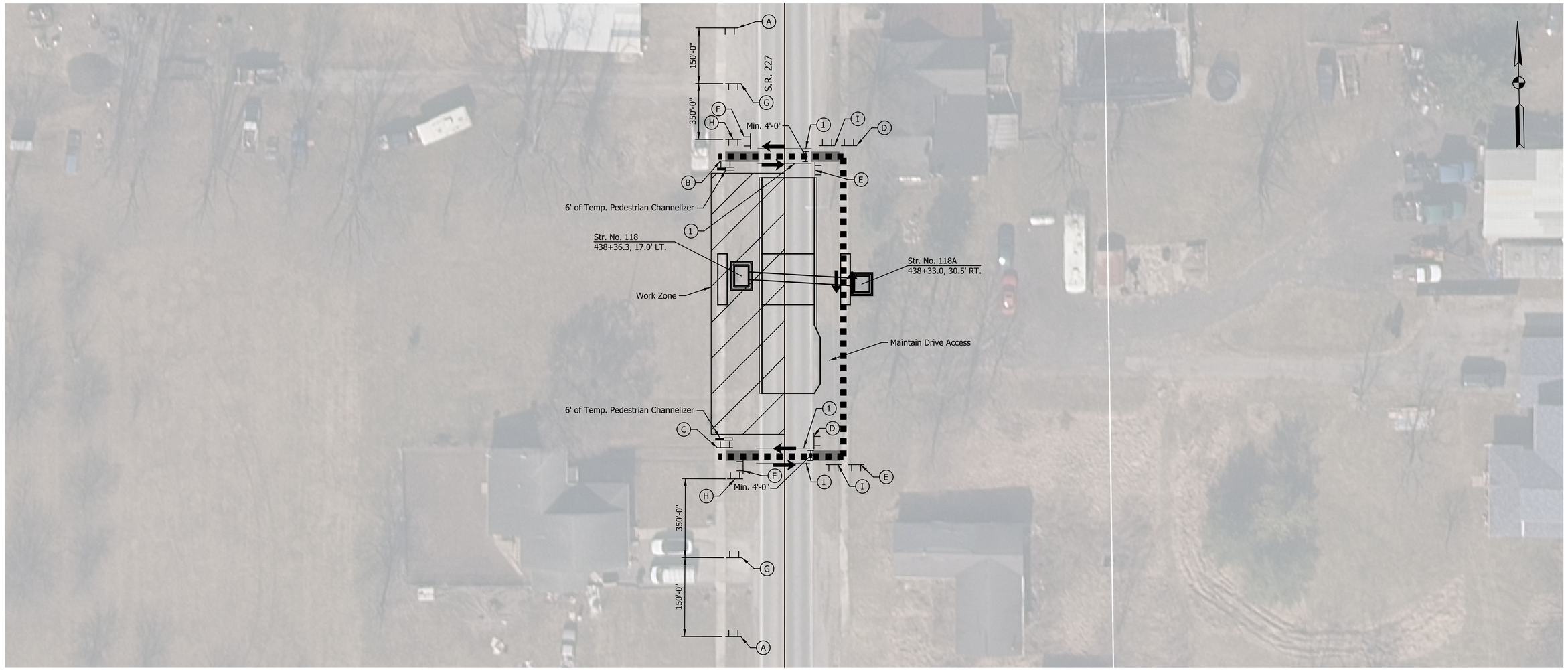
DESIGNED: MRO DRAWN: MRO

CHECKED: LAM CHECKED: LAM

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PEDESTRIAN DETOUR ROUTE PHASE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2200507
SURVEY BOOK	SHEETS
N/A	14 of 73
CONTRACT	PROJECT
R-44589	2200507

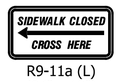


LEGEND

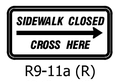
- Direction of Traffic
- Detour Route
- Construction Area
- Construction Sign
- Temporary Aggregate for Curb Ramp
- Temporary Pedestrian Channelizer Vehicle Redirection Not Required
- (1) Temporary Pavement Marking, Removable, White, 6"



XW20-1
(48" x 48")
(A)



R9-11a (L)
(24" x 12")
(B)



R9-11a (R)
(24" x 12")
(C)



M4-9b (L)
(30" x 24")
(D)



M4-9b (R)
(30" x 24")
(E)



M4-8a (R)
(30" x 24")
(F)



W11-2
(30" x 30")

W16-9P
(24" x 12")
(G)



W16-7P (L or R)
(24" x 12")
(H)



R9-8
(24" x 12")
(I)

QUANTITY SUMMARY - PEDESTRIAN DETOUR FOR CULVERT CONSTRUCTION WEST OF SR 227

Construction Sign, Type A	2	Each
Construction Sign, Type B	18	Each
Temp. Pvmt. Mrk., Removable, White, 6 in.	84	Lft.
Temporary Pedestrian Channelizer	12	Lft.
Temporary Aggregate Ramps	2.44	Ton

Notes:
1. Contractor shall maintain Temporary Access to all Driveways during Construction.
2. Contractor shall maintain Pedestrian Access through Construction and Construct the Culvert in pieces that allow this.

DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: MRO DRAWN: MRO

CHECKED: LAM CHECKED: LAM

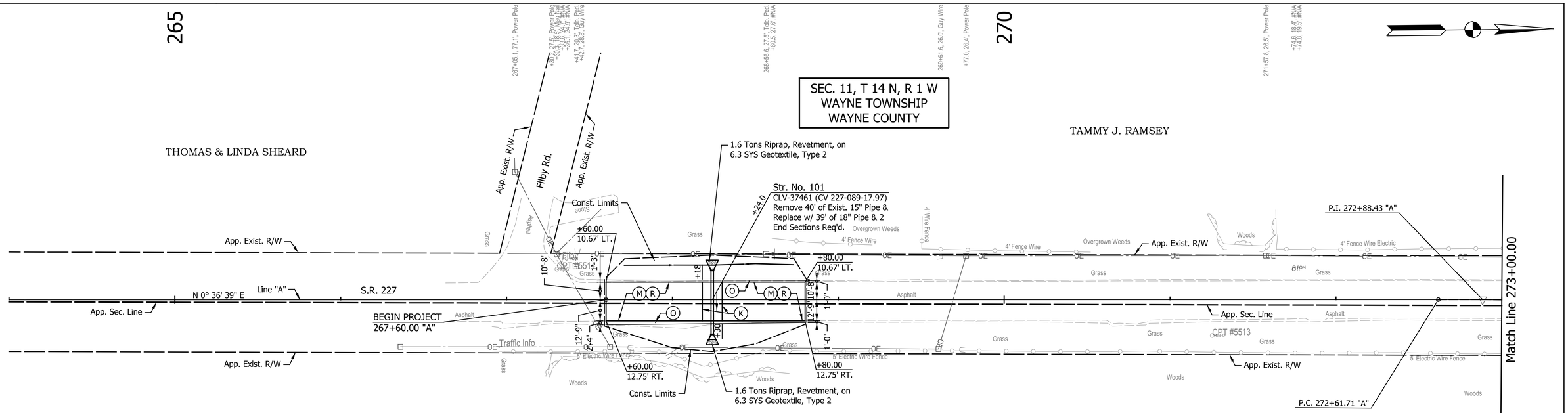
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PEDESTRIAN DETOUR ROUTE PHASE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2200507
SURVEY BOOK	SHEETS
N/A	15 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Pref.dfcfg
Indiana_Shade.tbl

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LEGEND

- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

CURVE DATA
P.I. = 272+88.43
D = 0° 36' 44.62" (RT)
T = 26.72'
L = 53.44'
R = 5,000.00'
E = 0.07'
S.E. = Exist.

NOTES:
All R/W Described from Line "A" Except as Shown.

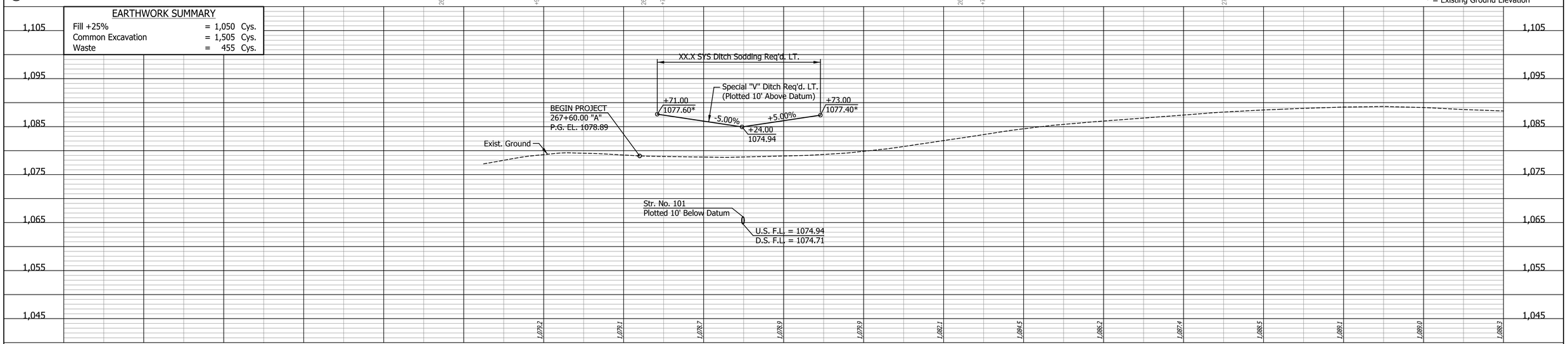
Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation

EARTHWORK SUMMARY

Fill +25%	= 1,050 Cys.
Common Excavation	= 1,505 Cys.
Waste	= 455 Cys.



DATE	REVISION

NOTE TO REVIEWER:
Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC
CHECKED: JPS CHECKED: JPS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	16 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-ehf.dftcfg
Indiana_Shade.tbl

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SEC. 11, T 14 N, R 1 W
WAYNE TOWNSHIP
WAYNE COUNTY

SEC. 12, T 14 N, R 1 W
WAYNE TOWNSHIP
WAYNE COUNTY

SEC. 02, T 14 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

SEC. 01, T 14 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

TAMMY J. RAMSEY

HILLER FARMS LLC

DAVID. L. & CHERYL M. AMOS

JEFFERY A. INGERMANN

LANCE CHRISTIAN ALEXANDER

MARK W. ALEXANDER

CURVE DATA
P.I. = 278+37.12
D = 0° 31' 22.37" (LT)
T = 22.82'
L = 45.63'
R = 5,000.00'
E = 0.05'
S.E. = Exist.

Match Line Sta. 273+00.00

Match Line Sta. 282+00.00

P.T. 273+15.15 "A"

+60.00 11.75' LT.

+60.00 11.67' RT.

App. Sec. Line

Const. Limits

1.1 Tons Riprap, Revetment, on 5.2 SYS Geotextile, Type 2

1.6 Tons Riprap, Revetment, on 6.3 SYS Geotextile, Type 2

S.R. 227

TRM #556

Overgrown Weeds

4' Fence Wire Electric

5' Electric Wire Fence

Woods

Grass

Asphalt

Str. No. 102
CLV-37471 (CV 227-089-18.08)
Remove 38' of Exist. 15" Pipe &
Replace w/ 39' of 15" Pipe & 2
End Sections Req'd.

Str. No. 103
CLV-37477 (CV 227-089-18.11)
Remove 41' of Exist. 15" Pipe &
Replace w/ 39' of 18" Pipe & 2
End Sections Req'd.

Str. No. 200
150' of 15" Pipe & 2
End Sections Req'd.

Class II Drive Req'd.
W = 19'

+10.27 30.00' LT.
+10.64 21.09' LT.
+P.C. 30'
+27.67 30.00' LT.
+27.86 21.78' LT.
+P.T. 30'
P.T. 278+59.94 "A"
+68.00 16.00' LT.
+92 30'

2 Story Frame
Conc. Porch
Planter
45 Mph

Line "A"
N 1° 13' 24" E
N 0° 42' 01" E

+88.57 12.00' LT.
+88.57 11.00' LT.
+37.90 12.00' LT.
+37.90 11.00' LT.
+05.00 18.00' LT.
+06.09 15.17' LT.

CPT #5512

P.C. 278+14.31 "A"

P.I. 278+37.12 "A"

App. P.L.

App. Sec. Line & P.L.

App. Exist. R/W

Const. Limits

+00.00 11.75' LT.
+00.00 11.67' RT.

5.0 Tons Riprap, Revetment, on 13.2 SYS Geotextile, Type 2

5.8 Tons Riprap, Class 1, on 14.6 SYS Geotextile, Type 2

Harvested Corn Field

Woods

Str. No. 104
CLV-37483 (CV 227-089-18.21)
Remove 41' of Exist. 24" Pipe &
Replace w/ 41' of 30" Pipe & 2
End Sections Req'd.

+80.00 11.83' LT.
+80.00 12.75' RT.

LEGEND

(F) Sidewalk, Concrete 4 in.
(G) Guardrail, MGS W-Beam
(G1) Guardrail End Treatment, Type OS
(K) Full Depth HMA Pavement (See Typical Sections)
(M) Milling, Asphalt, 1.5 in.
(M1) Milling, Approach
(D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
(D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
(O) Compacted Aggregate, No. 53
(R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
(25) Seed Mixture, R
(26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation

XX.X SYS Ditch Sodding Req'd. LT.

XX.X TONS Revetment Riprap on XX.X SYS Geotextile for Riprap, Type X

Special "V" Ditch Req'd. LT. (Plotted 10' Above Datum)

Special Grade 2' Bottom Ditch Req'd. RT.

Special Grade 4' Bottom Ditch Req'd. LT. (Plotted 10' Above Datum)

Exist. Ground

Str. No. 102 Plotted 10' Below Datum
U.S. F.L. = 1084.51
D.S. F.L. = 1084.10

Str. No. 103 Plotted 10' Below Datum
U.S. F.L. = 1085.37
D.S. F.L. = 1084.98

Str. No. 200 Plotted 10' Above Datum

Str. No. 104 Plotted 10' Below Datum
U.S. F.L. = 1093.05
D.S. F.L. = 1092.65

DATE	REVISION

NOTE TO REVIEWER:
Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC
CHECKED: JPS CHECKED: JPS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	17 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Prof.dfn:Fg
Indiana_Shade.tbl

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285

290

SEC. 02, T 14 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

LANCE CHRISTIAN ALEXANDER

ELLEN A. DUNNING

282+91.6, 30.2', Tree

289+24.8, 30.1', Tree

+81.6, 30.1', Post
+87.1, 29.0', Guy Wire
+89.1, 29.0', Power Pole
+90.3, 23.3', Mailbox

App. P.I.

Match Line Sta. 282+00.00

Match Line Sta. 291+00.00

+00
40'

Const. Limits

R/W

+50
31'

App. Exist. R/W

Harvested Corn Field

Grass

Woods

Grass

Harvested Corn Field

App. Exist. R/W

12" Twin

Grass

Harvested Corn Field

Grass

Stone

Line

App. Exist. R/W

Grass

Const. Limits

App. Sec. Line

S.R. 227

Asphalt

Line "A"

N 0° 42' 01" E

Asphalt

App. Sec. Line

Asphalt

Asphalt

Grass

CPT #5511

Grass

TBM #555

OE

No Passing Zone

Grass

Grass

Grass

Grass

App. Exist. R/W

App. Exist. R/W

Harvested Corn Field

Harvested Corn Field

MARK W. ALEXANDER

SEC. 01, T 14 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

282+13.2, 29.0', Temp. Bnchmrks
+33.7, 29.0', Power Pole
+33.7, 29.0', Rebar Found

284+09.0, 28.8', Power Pole

285+21.1, 25.5', #N/A

286+30.9, 29.1', Power Pole

288+46.5, 29.3', Power Pole

289+79.2, 30.1', Power Pole

LEGEND

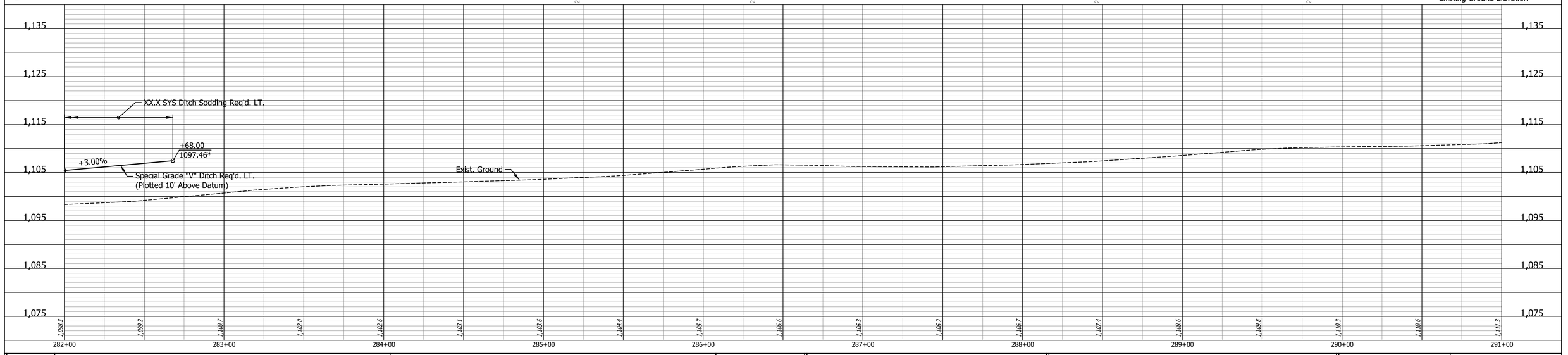
- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation



DATE	REVISION

NOTE TO REVIEWER:
Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

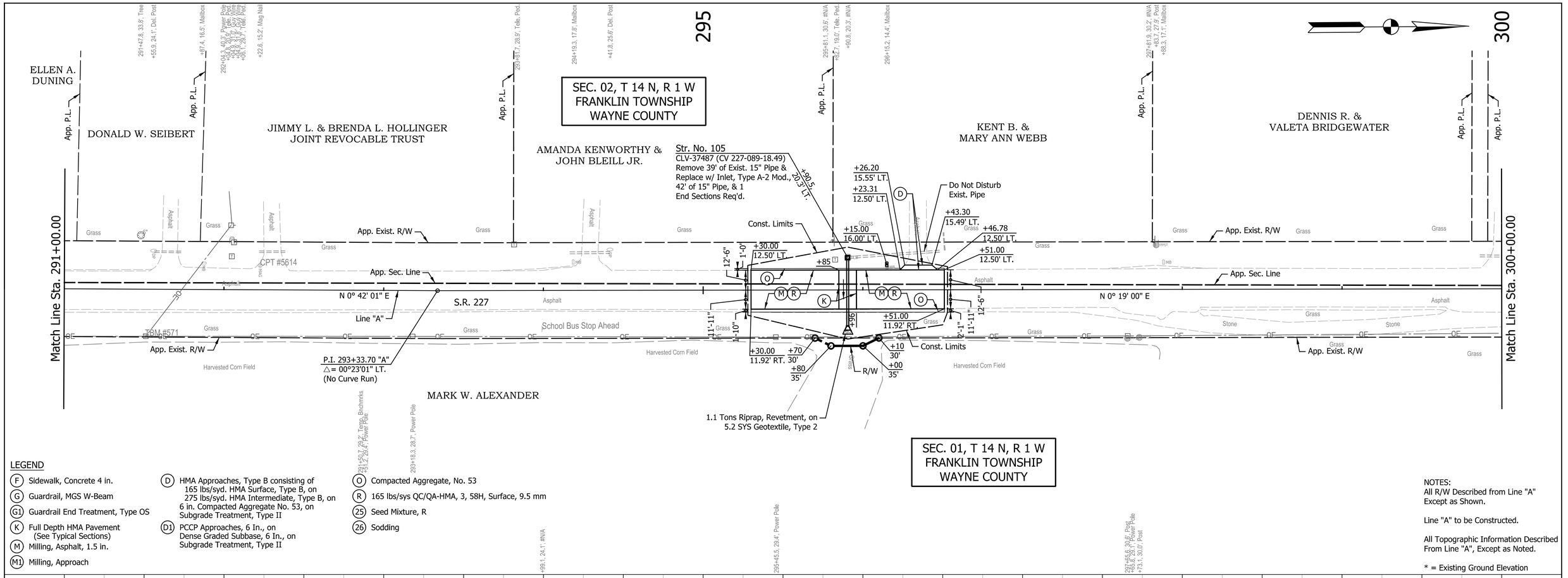
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	18 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Prof.dfcfg
Indiana_Shade.tbl

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LEGEND

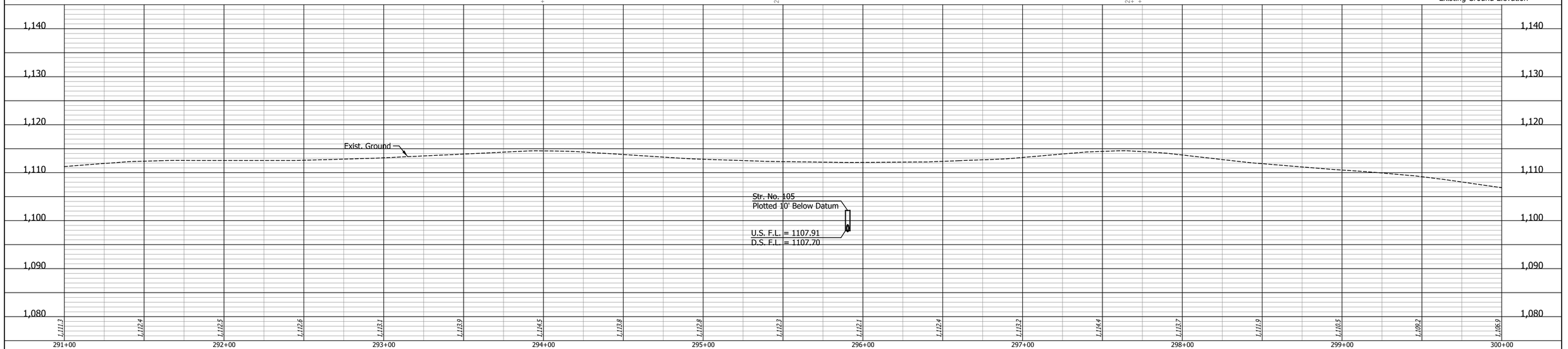
- (F) Sidewalk, Concrete 4 in.
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- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
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Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation



DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

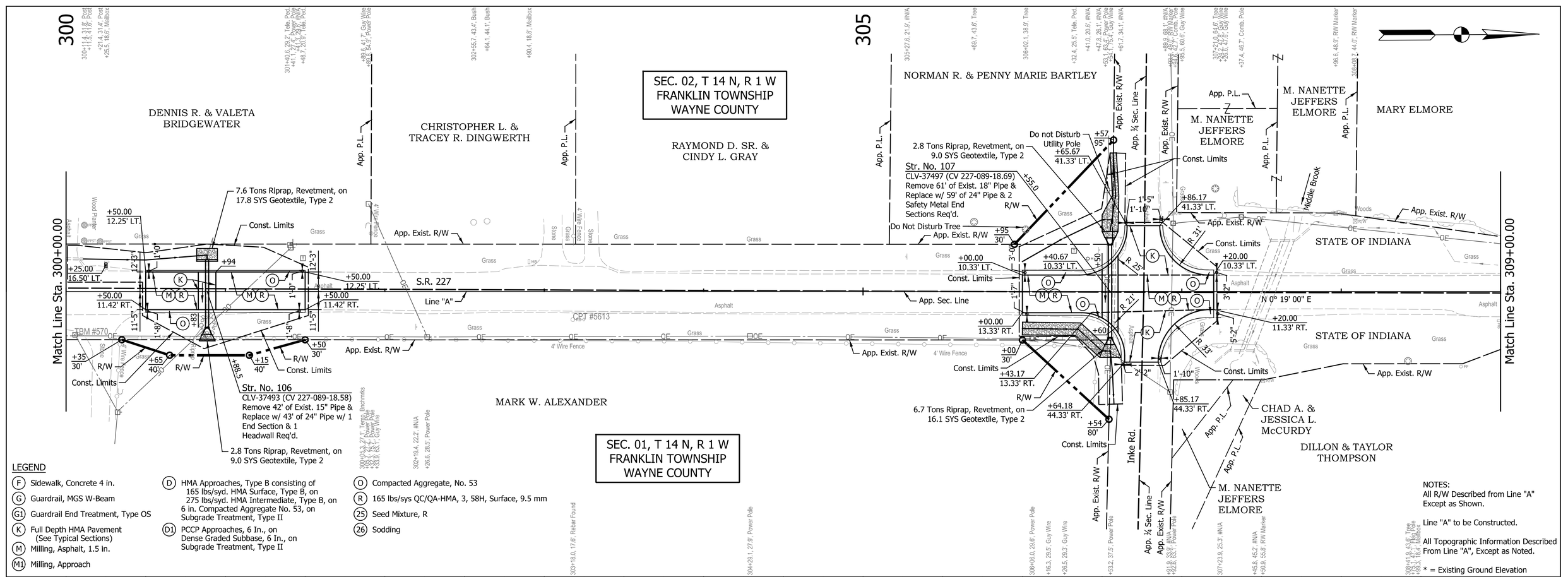
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	19 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Pdf.plt/cfg
Indiana_Shade.tbl

bdyer 4/11/2025 10:05:38 AM P:\2023\00938\D. Drawings\202300938.0001.RD.PP.05.dgn



LEGEND

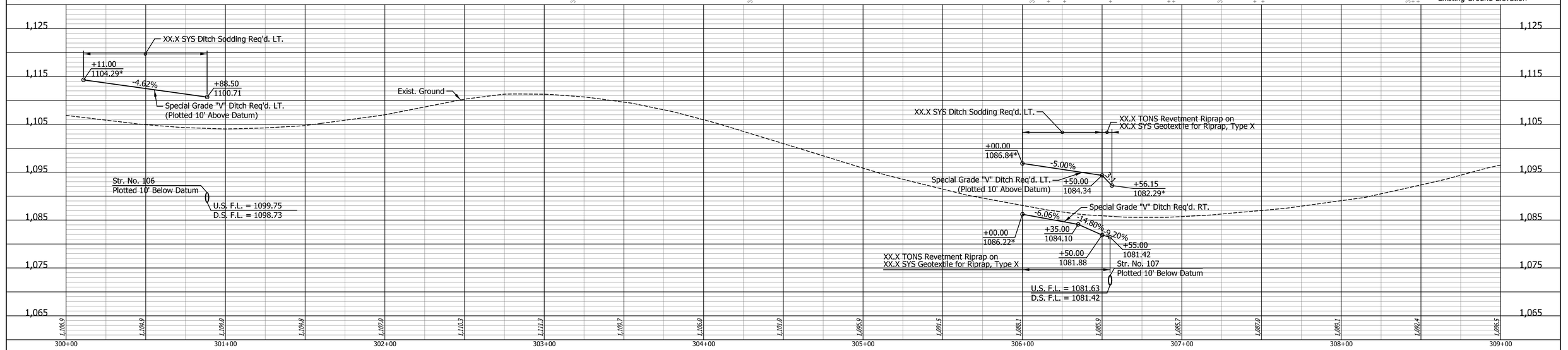
- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation



DATE	REVISION

NOTE TO REVIEWER:
Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC
CHECKED: JPS CHECKED: JPS

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	20 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-ref.dftcfg
Indiana_Shade.tbl

bdyer 4/11/2025 10:05:39 AM P:\2023\00938\D. Drawings\202300938.0001.RD.PP.06.dgn

SEC. 02, T 14 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

SEC. 01, T 14 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

Match Line Sta. 309+00.00

Match Line Sta. 318+00.00

MARY ELMORE

BAKER'S ACRES FARMS LTD.

ASHLEY LAKES

DENNIS R. & VALETA BRIDGEWATER

DILLON & TAYLOR THOMPSON

CHAD A. & JESSICA L. McCURDY

SONYA MATHEWS, ALEXIS BEECHLER & JOSHUA MATHEWS

BAKER'S ACRES FARMS LTD.

S.R. 227

Line "A"

N 0° 19' 00" E

App. Exist. R/W

App. Sec. Line

App. P.L.

Str. No. 108
CLV-37503 (CV 227-089-18.84)
Remove 32' of Exist. 15" Pipe & Replace w/ 37' of 24" Pipe & 2 End Sections Req'd.

2.8 Tons Riprap, Revetment, on 9.0 SYS Geotextile, Type 2

CPT #5612

Intersection Ahead And Speedlimit

Const. Limits

R/W

Harvested Corn Field

LEGEND

- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation

XX.X SYS Ditch Sodding Req'd. LT.

Special Grade "V" Ditch Req'd. LT. (Plotted 10' Above Datum)

-4.91%

+4.79%

Special Grade "V" Ditch Req'd. RT.

+2.98%

XX.X SYS Ditch Sodding Req'd. RT.

Exist. Ground

Str. No. 108
Plotted 10' Below Datum

U.S. F.L. = 1100.97
D.S. F.L. = 1100.86

DATE	REVISION

NOTE TO REVIEWER:
Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	21 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-ehtf.dftcfg
Indiana_Shade.tbl

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NO WORK ON THIS SHEET

320

325

SEC. 02, T 14 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

SEC. 01, T 14 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

DENNIS R. & VALETA BRIDGEWATER

RICHARD DUANE & SANDY MARIE MARTIN

VAL JAY JENNINGS & JUDY ROBERTS SLATTERY

BRANDON LAVEY

PHILLIP E. & VIRGINIA ANN STARBUCK

JOSEPH L. & ELIZABETH N. CARR

BAKER'S ACRES FARMS LTD.

JASON A. & DENISE L. BAKER

DWAIN R. & PAMELA S. FULTON

BRANDON FULTON

318+92.0, 27.6', Tree

320+86.1, 34.9', #N/A
+88.3, 31.4', Tree
+92.1, 33.0', Power Pole
+94.3, 31.5', Tele. Ped.
+97.4, 32.2', Stump

322+15.3, 29.7', Stump
+21.3, 30.0', Tele. Ped.
+19.2, 34.8', Power Pole

324+66.9, 55.6', Power Pole
+67.1, 34.1', Tele. Ped.
+67.9, 55.2', Tele. Ped.

326+06.7, 34.0', #N/A
+07.2, 34.1', Tele. Ped.
+07.4, 34.1', Tele. Ped.
+07.8, 30.9', Guy Wire

Match Line Sta. 318+00.00

Match Line Sta. 327+00.00

App. Exist. R/W

App. Sec. Line

S.R. 227

Line "A"

N 0° 19' 00" E

N 0° 30' 10" E

CPT #5611

45 Mph

RM #508

P.I. 321+97.00 "A"
△= 00°11'10" RT.
(No Curve Run)

App. P.L.

Grass

Asphalt

Stone

Gravel

Fence

Harvested Corn Field

OE

318+58.8, 32.4', Power Pole
319+85.0, 16.0', Mailbox

320+81.1, 32.3', Temp. Benchmrks
+81.3, 32.4', Power Pole

321+81.5, 16.3', Mailbox

322+45.8, 33.6', Power Pole

323+02.8, 24.8', #N/A

323+36.6, 25.6', Mailbox
+38.3, 26.8', Mailbox
+38.5, 27.8', Mailbox

324+85.8, 36.1', #N/A
+90.1, 17.0', Mag. Nail
+91.1, 17.0', Mag. Nail

324+23.9, 19.0', Mailbox
+27.1, 18.8', Mailbox

+69.5, 34.0', Power Pole

+95.6, 19.1', Mailbox
+99.4, 47.4', Tree

325+84.5, 34.5', Stump

326+08.1, 32.1', Power Pole

LEGEND

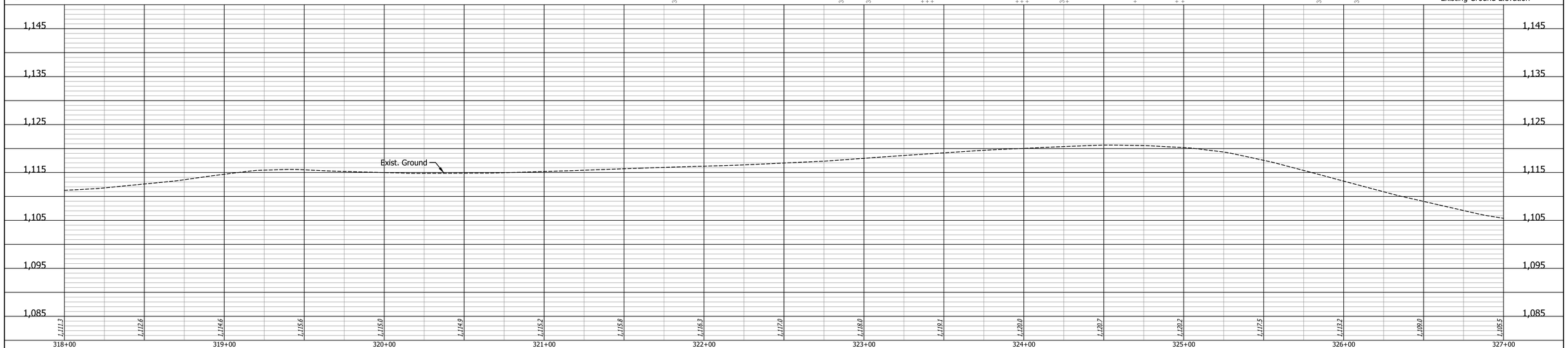
- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation



DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS


INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	22 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Prof.dfcfg
Indiana_Shade.tbl

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LEGEND


- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation



DATE	REVISION

NOTE TO REVIEWER: Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL ______ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC
CHECKED: JPS CHECKED: JPS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	23 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Pdf.pltcfg Indiana_Shade.tbl

bdyer 4/11/2025 10:05:41 AM P:\2023\00938\D. Drawings\202300938.0001.RD.PP.09.dgn

340

345

SEC. 35, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

BRENDA TOM

JACK D. BALES

STEVEN D. & DEANNA L. KUHN

HUGH E. UNGER III

STEVEN D. & DEANNA L. KUHN

Match Line Sta. 336+00.00

Match Line Sta. 345+00.00

App. P.I.

App. Exist. R/W

App. Sec. Line

N 0° 51' 19" E

S.R. 227

Line "A"

CPT #5510

CPT #5609

TBM #554

Str. No. 110
CLV-37525 (CV 227-089-19.34)
Remove 32' of Exist. 30" Pipe &
Replace w/ 38' of 30" Pipe & 2
End Sections Req'd.

4.4 Tons Riprap, Revetment, on
12.1 SYS Geotextile, Type 2

Const. Limits
+40.00
10.00' LT.

Const. Limits
+50.00
10.00' LT.

P.I. 341+54.01 "A"
△ = 00°29'23" LT.
(No Curve Runs)

+40.00
11.58' RT.

+50.00
11.58' RT.

Const. Limits

App. Exist. R/W

Note:
Invert of Str. shall not be lower
than existing downstream pipe.

N 0° 21' 56" E

SEC. 36, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

LEGEND

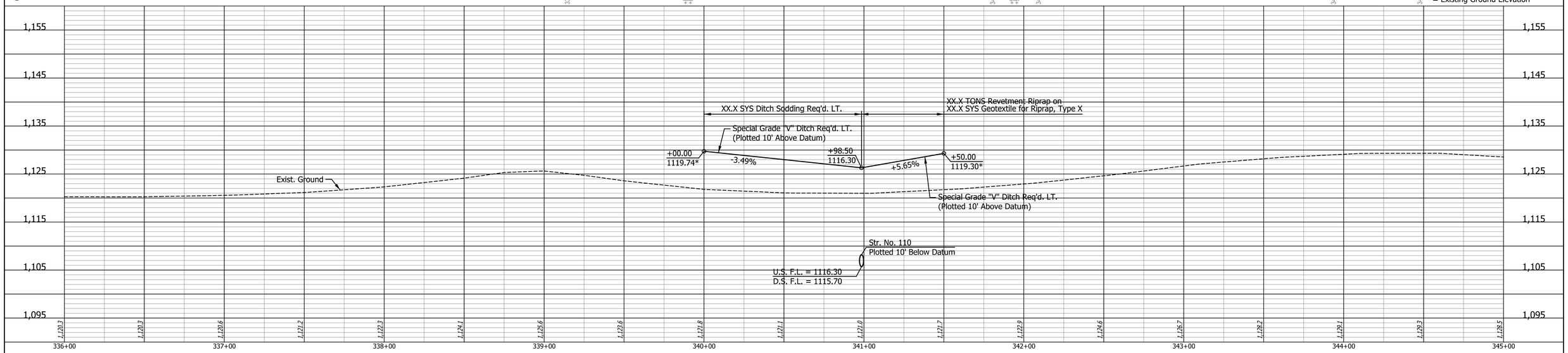
- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation



DATE	REVISION

NOTE TO REVIEWER:
Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	24 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy+Pnf dftCfg
Indiana_Shade.tbl

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345

350

SEC. 35, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

JACK D. BALES

DOMINIC & KATIE De LUCIO

STEVEN D. & DEANNA L. KUHN

GUISEPPE C. & ALLISON R. SHOEMAKER

Str. No. 111
CLV-1128 (CV 227-089-19.48)
Remove 59' of Exist. 30" Pipe &
Replace w/ 59' of 36" Pipe w/ Headwalls
& Wingwalls Req'd. Lt. & Rt.

Match Line Sta. 345+00.00

Match Line Sta. 354+00.00

S.R. 227

N 0° 21' 56" E

N 0° 37' 25" E

Line "A"

P.I. 345+68.39 "A"
△= 00°15'29" RT.
(No Curve Run)

18.1 Tons Riprap, Revetment, on
36.9 SYS Geotextile, Type 2

36.1 Tons Riprap, Class 2, on
50.7 SYS Geotextile, Type 2

Temp. R/W for Grading

Const. Limits

App. Exist. R/W

App. Exist. Sec. Line & P.L.

App. Sec. Line

App. P.L.

Black And Yellow Barrier

Black and Yellow Caution

Woods

Grass

Asphalt

Stone

4" Wire Fence

Fence Down Here

DSM #366

LEGEND

(F) Sidewalk, Concrete 4 in.
(G) Guardrail, MGS W-Beam
(G1) Guardrail End Treatment, Type OS
(K) Full Depth HMA Pavement (See Typical Sections)
(M) Milling, Asphalt, 1.5 in.
(M1) Milling, Approach
(D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
(D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
(O) Compacted Aggregate, No. 53
(R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
(25) Seed Mixture, R
(26) Sodding

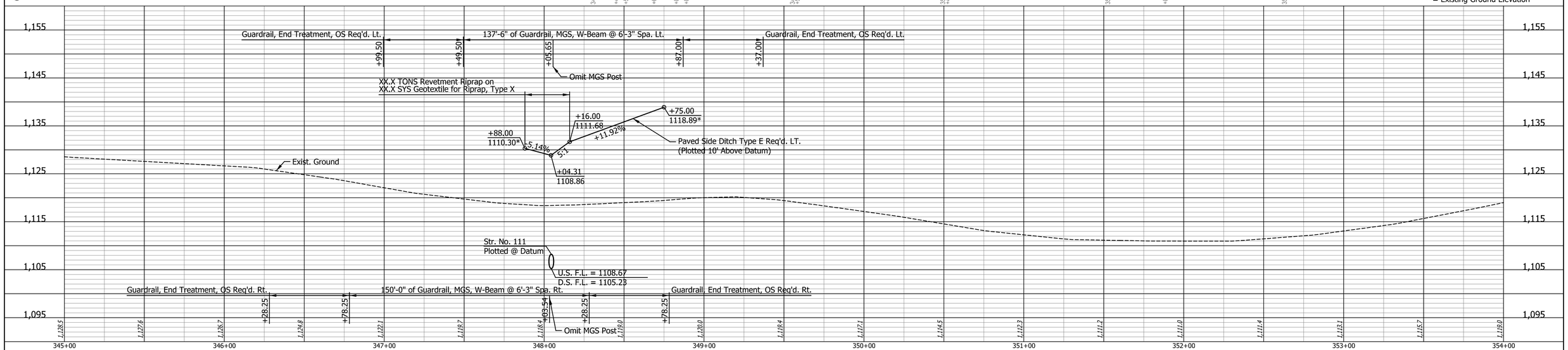
SEC. 36, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

NOTES:
All R/W Described from Line "A"
Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described
From Line "A", Except as Noted.

* = Existing Ground Elevation



DATE	REVISION

NOTE TO REVIEWER:
Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	25 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Pdf.plt.cfg
Indiana_Shade.tbl

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355

360

SEC. 35, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

NO WORK ON
THIS SHEET

DOMINIC & KATIE De LUCIO

MARK SEAL

Match Line Sta. 354+00.00

Match Line Sta. 363+00.00

P.I. 356+93.12 "A"
△= 00°12'10" RT.
(No Curve Run)

App. ¼ Sec. Line & P.L.

App. P.L.

App. Exist. R/W

S.R. 227

Line "A"

App. Sec. Line

N 0° 37' 25" E

N 0° 49' 35" E

CPT #5608

CPT #5607

SPM #565

Woods

Grass

Asphalt

Weeds

Woods And Brush

Field

Stone

4 Wire Fence

Plantar

CAROL A. NECESSARY

JOSEPH L. &
KRISTY A. BUTLER

DAVID E. &
PENNY D. SNIDER

ERIC E.
ERVIN

SEC. 36, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

LEGEND

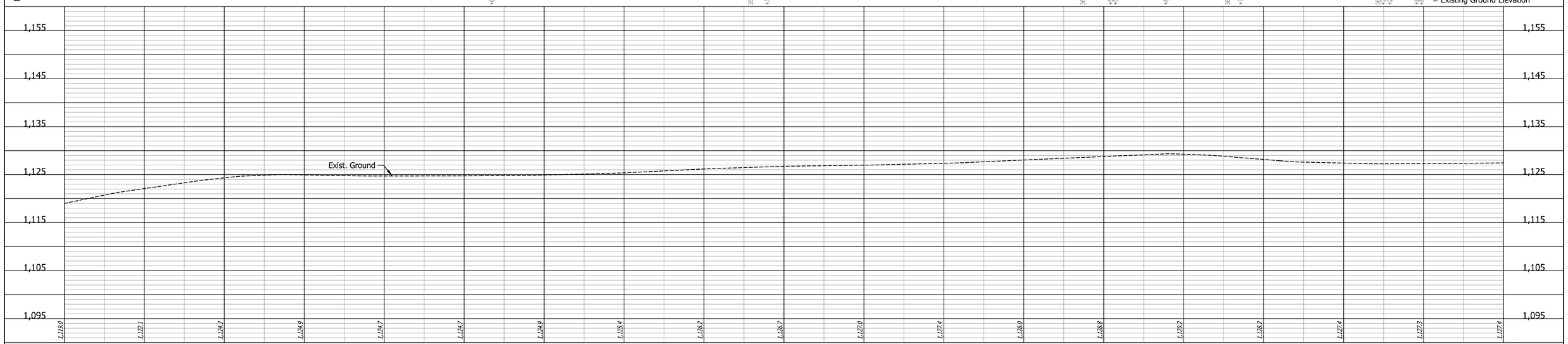
- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A"
Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described
From Line "A", Except as Noted.

* = Existing Ground Elevation



DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

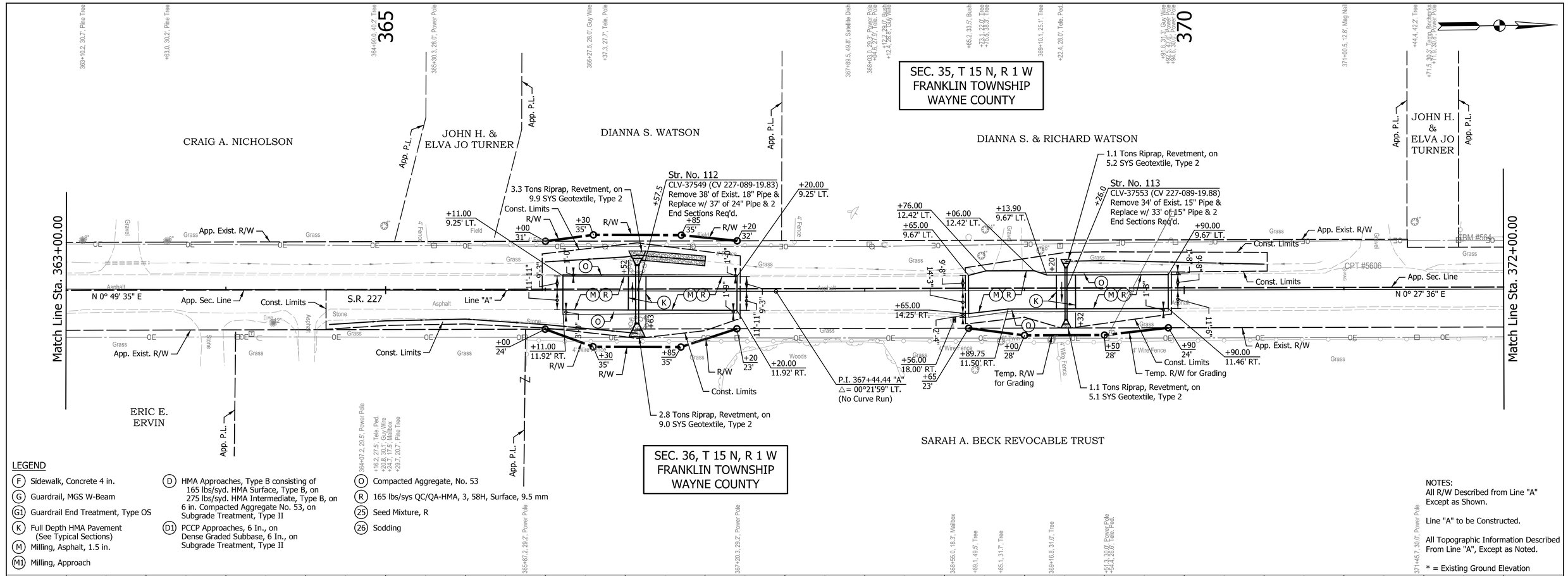
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	26 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-ehf.dfcfg
Indiana_Shade.tbl

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LEGEND

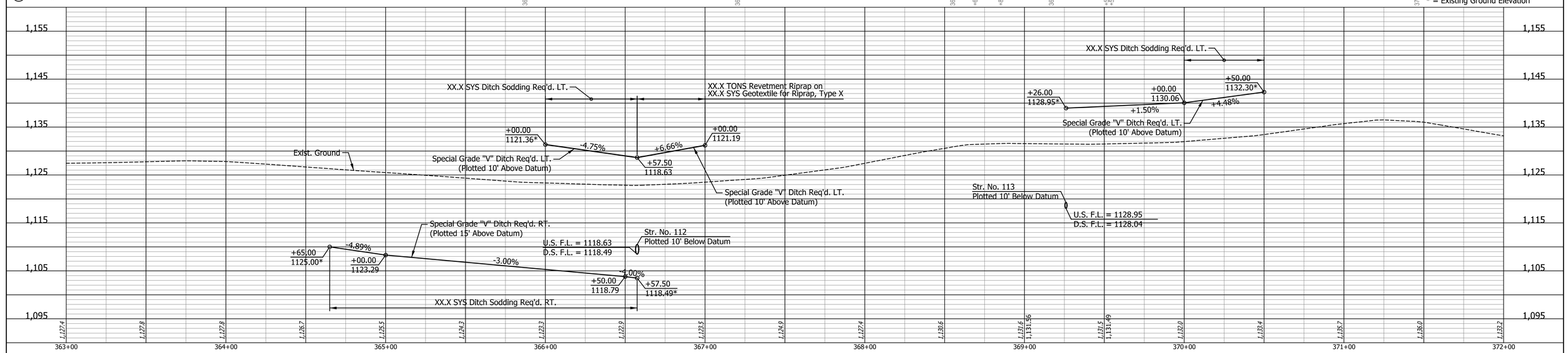
- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
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- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation



DATE	REVISION

NOTE TO REVIEWER:
Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	27 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-ref.dftcfg
Indiana_Shade.tbl

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SEC. 35, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

SEC. 36, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

SARAH A. BECK REVOCABLE TRUST

SARAH A. BECK REVOCABLE TRUST

Match Line Sta. 372+00.00

Match Line Sta. 381+00.00

Temp. R/W for Grading
13.0 Tons Riprap, Revetment, on 29.5 SYS Geotextile, Type 1A

Str. No. 114
CLV-1129 (CV 227-089-19.99)
Remove 43' of Exist. 18" Pipe & Replace w/ 42' of 30" Pipe w/ Headwalls & Wingwalls Req'd. Lt. & Rt.

Temp. R/W

App. Exist. R/W

Const. Limits

App. Sec. Line

S.R. 227

N 0° 27' 36" E

Line "A"

Temp. R/W for Grading
23.8 Tons Riprap, Class 1, on 41.5 SYS Geotextile, Type 1A

Str. No. 115
CLV-37571 (CV 227-089-20.07)
Remove 37' of Exist. 18" Pipe & Replace w/ 40' of 30" Pipe & 2 End Sections Req'd.

4.4 Tons Riprap, Revetment, on 12.1 SYS Geotextile, Type 2

App. P.I.

Caution Underground Cable

Mod. Class II Drive
W = 23.7'

5.8 Tons Riprap, Class 1, on 14.6 SYS Geotextile, Type 2

Intersection

LEGEND

- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation

Guardrail, End Treatment, OS Req'd. Lt.
137'-6" of Guardrail, MGS, W-Beam @ 6'-3" Spa. Lt.
Guardrail, End Treatment, OS Req'd. Lt.
Omit MGS Post
XX.X SYS Ditch Sodding Req'd. LT.
Exist. Ground
+98.00 1115.23*
+50.00 1117.67
+4.69
+1.97%
+50.00 1119.64
+2.94%
+00.00 1121.11*
Special Grade "V" Ditch Req'd. LT. (Plotted 10' Above Datum)
XX.X TONS Revetment Riprap on XX.X SYS Geotextile for Riprap, Type X
+50.00 1119.14*
-6.99%
+03.50 1115.40
+7.61%
+50.00 1118.94*
Special Grade "V" Ditch Req'd. LT. (Plotted 10' Above Datum)
Special Grade "V" Ditch Req'd. LT. (Plotted 10' Above Datum)
Guardrail, End Treatment, OS Req'd. Rt.
125'-0" of Guardrail, MGS, W-Beam @ 6'-3" Spa. Rt.
Guardrail, End Treatment, OS Req'd. Rt.
Str. No. 114
Plotted 10' Below Datum
Omit MGS Post
U.S. F.L. = 1114.00
D.S. F.L. = 1111.35
Str. No. 115
Plotted 10' Below Datum
U.S. F.L. = 1115.40
D.S. F.L. = 1114.65

DATE	REVISION

NOTE TO REVIEWER:
Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

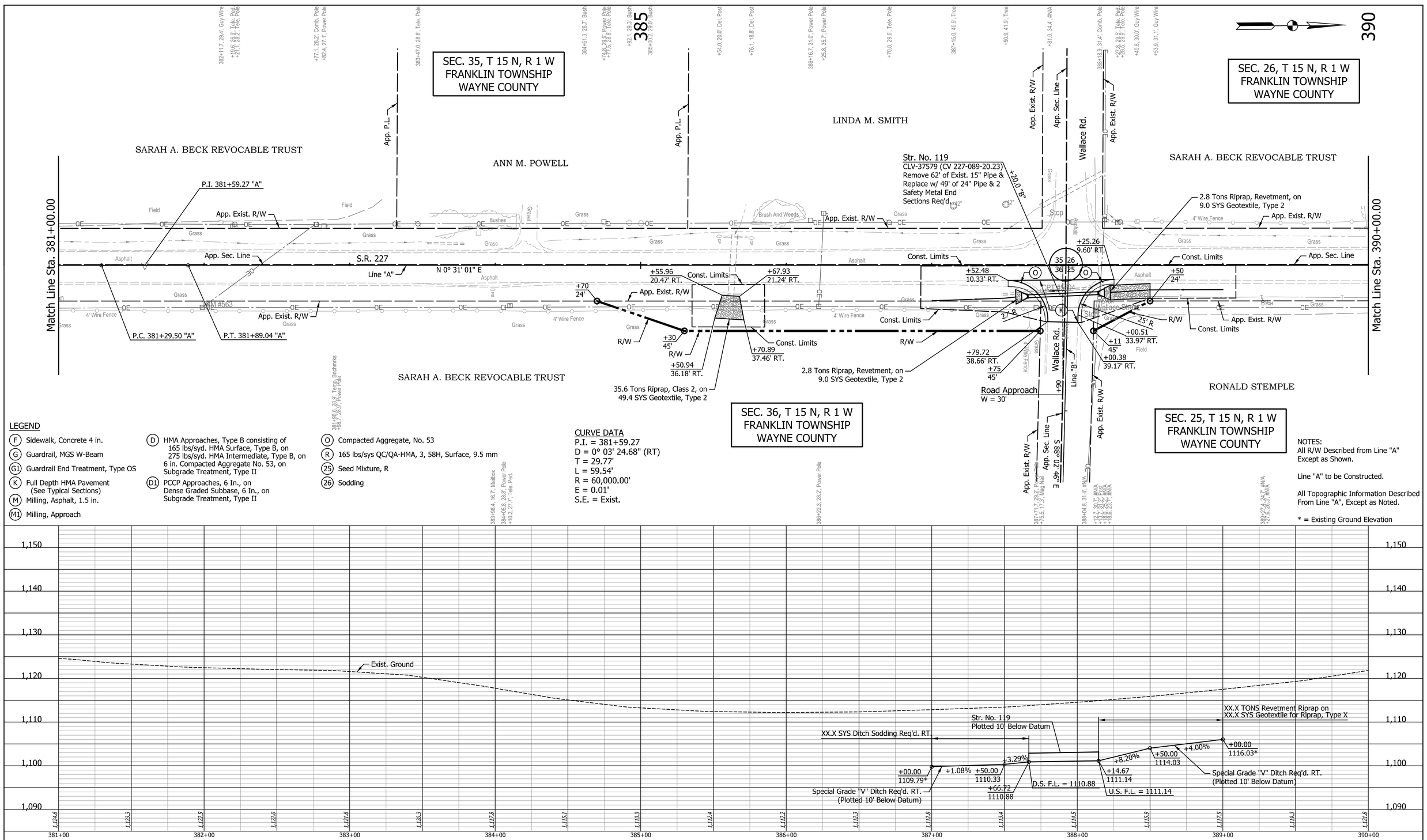
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INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	28 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Prof.dfcfg
Indiana_Shade.tbl
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LEGEND

- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
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- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

CURVE DATA
P.I. = 381+59.27
D = 0° 03' 24.68" (RT)
T = 29.77'
L = 59.54'
R = 60,000.00'
E = 0.01'
S.E. = Exist.

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation

DATE	REVISION

NOTE TO REVIEWER:
Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC
CHECKED: JPS CHECKED: JPS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	29 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-dhf.dfcfg
Indiana_Shade.tbl

bdyer 4/11/2025 10:05:45 AM P:\2023\00938\D. Drawings\202300938.0001.RD.PP.15.dgn

NO WORK ON THIS SHEET

SEC. 26, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

SEC. 25, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

390

395

App. P.L.

Match Line Sta. 390+00.00

Match Line Sta. 399+00.00

SARAH A. BECK REVOCABLE TRUST

DAVID J. COOPER

RONALD STEMPLE

Woods
4' Wire Fence
Field
Grass
App. Exist. R/W
App. Sec. Line
S.R. 227
Line "A"
N 0° 31' 01" E
Asphalt
Intersection Ahead
CPT #5603
TBM #562
OE
Stone
Conc.
Gravel
4' Patina
Black Brook

393+49.6, 22.2', RNA
396+78.8, 25.9', Guy Wire
+80.3, 28.1', Tele. Pole
388+16.2, 27.8', Tele. Pole
+26.1, 27.4', Guy Wire
+48.0, 28.1', Guy Wire
+51.4, 26.4', Power Pole
+82.5, 28.2', Tele. Pole
+83.0, 28.0', Tele. Pole
390+89.0, 28.7', Power Pole
393+11.5, 29.2', Temp. Bnchmrks
+12.1, 30.7', Power Pole
+51.6, 22.1', Rebar Found
395+25.5, 30.2', Power Pole
+45.9, 113.6', Power Pole
397+27.9, 30.2', Power Pole
398+36.2, 18.5', Mailbox
+64.2, 28.3', Power Pole
+65.4, 25.9', Tele. Ped.

LEGEND

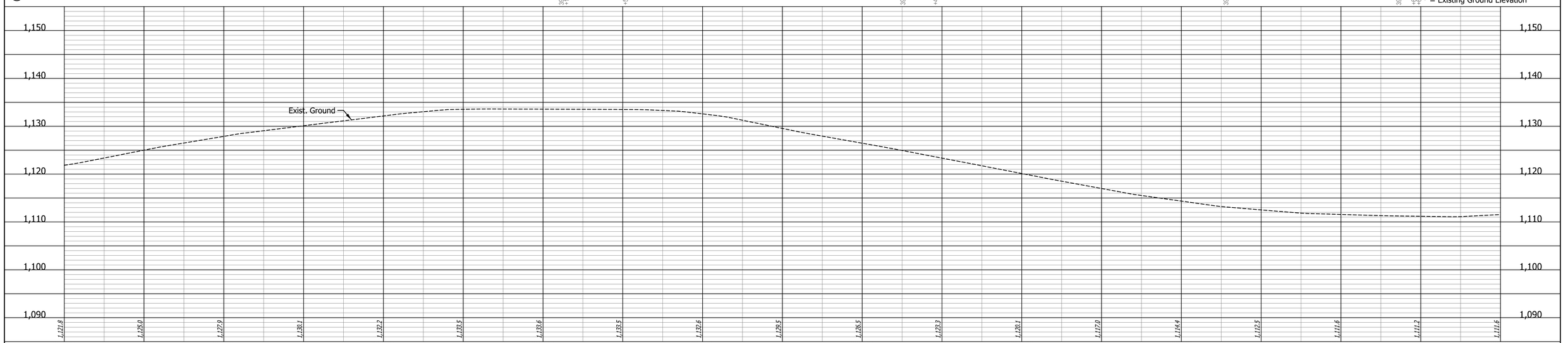
- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation



DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

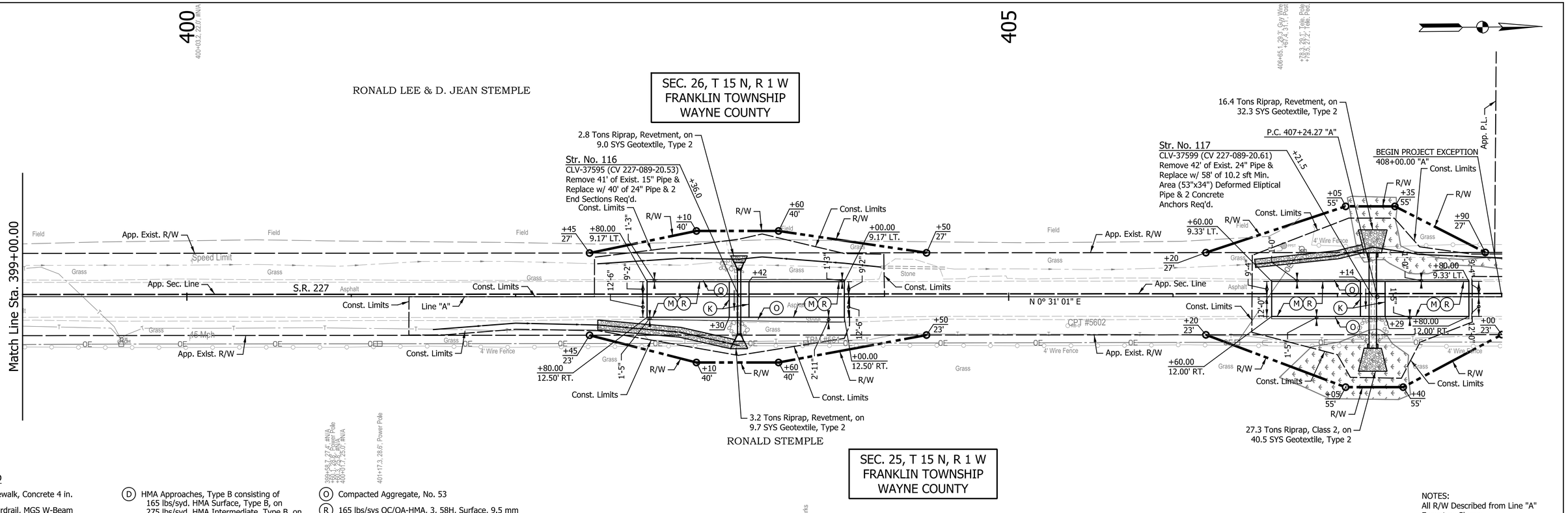
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	30 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-ref.dfcfg
Indiana_Shade.tbl

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LEGEND

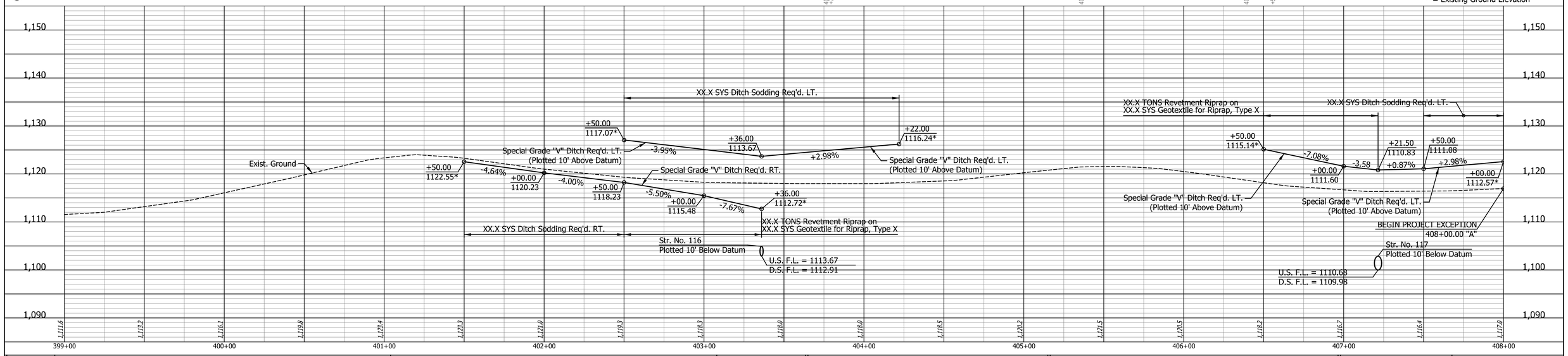
- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation



DATE	REVISION

NOTE TO REVIEWER:
Permanent Erosion Control Ditch Riprap and Sodding Callouts to be finalized prior to Stage 3 Review per IDM 14-2.01(13).

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	31 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Pdf.plt/cfg
Indiana_Shade.tbl

bdyer 4/11/2025 10:05:46 AM P:\2023\00938\D. Drawings\202300938.0001.RD.PP.17.dgn

435

440

435-53.54, 21.37', Combination Pole,

436+09.20, 21.01', Combination Pole,

437+59.84, 20.09', Temporary Benchmarks,

WILLIAM E. & DEBRA S. BAILEY

Whitewater Road

WILLIAM E. & DEBRA S. BAILEY

DEAN R. MILLS

DYLAN M. PERKINS

DEAN R. & KIM MILLS

EDGAR L. & ELLEN J. CROUCH

SEC. 26, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

SEC. 23, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

LOT 7

LOT 6

LOT 5

LOT 4

Alley

App. P.L.

App. Exist. R/W

App. Sec. Line

S.R. 227

Line "A"

N 1° 10' 37" E

END PROJECT EXCEPTION
437+90.00 "A"

END PROJECT
438+75.00 "A"

Str. No. 118
CLV-45614 (CV 227-089-21.20)
Remove 45' of Exist. 36" Pipe &
Replace w/ Manhole, Type E Mod. &
42' of 36" Pipe Req'd.

+36.2, 17.00' LT.

Temp. R/W for Sidewalk

Const. Limits

+90.00
8.92' LT.

+75.00
8.92' LT.

+90.00
11.75' RT.

+93.75
14.08' RT.

+12.00
14.08' RT.

+17.00
11.75' RT.

+75.00
11.75' RT.

+33.0
30.50' RT.

Str. No. 118A
Manhole, Type F Mod.,
Reconnect w/ Exist.
Pipes Downstream

LOT 15

WHITEWATER CHRISTIAN CHURCH

DEAN R. MILLS
LOT 16

LOT 17

PATTY O'DONNELL

LOT 18

LOT 19

ALLAN J. & ANGELA M. KENNEDY

KEVIN L. BARNES

LOUIS C. HUBBLE

BONNIE J. SMITH

SEC. 25, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

SEC. 24, T 15 N, R 1 W
FRANKLIN TOWNSHIP
WAYNE COUNTY

+42.84, 30.88', Sign,
+43.36, 19.61', Combination Pole,
+44.42, 29.30', Mailbox,
+55.94, 28.62', Electric Meter Box,

LEGEND

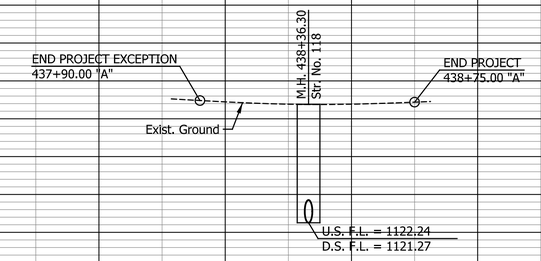
- (F) Sidewalk, Concrete 4 in.
- (G) Guardrail, MGS W-Beam
- (G1) Guardrail End Treatment, Type OS
- (K) Full Depth HMA Pavement (See Typical Sections)
- (M) Milling, Asphalt, 1.5 in.
- (M1) Milling, Approach
- (D) HMA Approaches, Type B consisting of 165 lbs/syd. HMA Surface, Type B, on 275 lbs/syd. HMA Intermediate, Type B, on 6 in. Compacted Aggregate No. 53, on Subgrade Treatment, Type II
- (D1) PCCP Approaches, 6 In., on Dense Graded Subbase, 6 In., on Subgrade Treatment, Type II
- (O) Compacted Aggregate, No. 53
- (R) 165 lbs/sys QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (25) Seed Mixture, R
- (26) Sodding

NOTES:
All R/W Described from Line "A" Except as Shown.

Line "A" to be Constructed.

All Topographic Information Described From Line "A", Except as Noted.

* = Existing Ground Elevation



1,155 1,145 1,135 1,125 1,115 1,105

1137.6 1137.2 1126.9 1137.3

433+00 434+00 435+00 436+00 437+00 438+00 439+00 440+00 441+00 442+00

DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

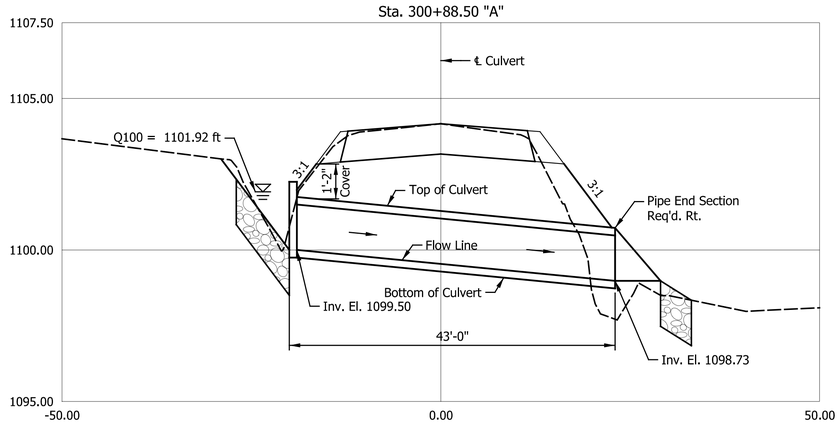
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "A"

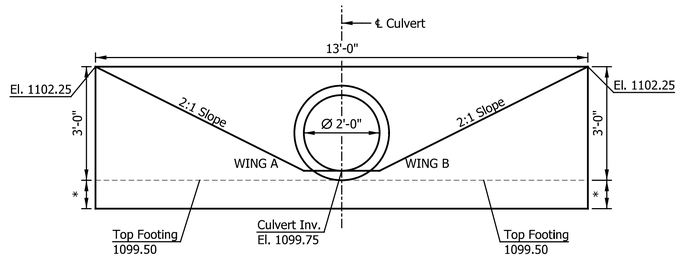
HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	2200507
SURVEY BOOK	SHEETS
N/A	32 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Prof.dfnCfg
Indiana_Shade.tbl

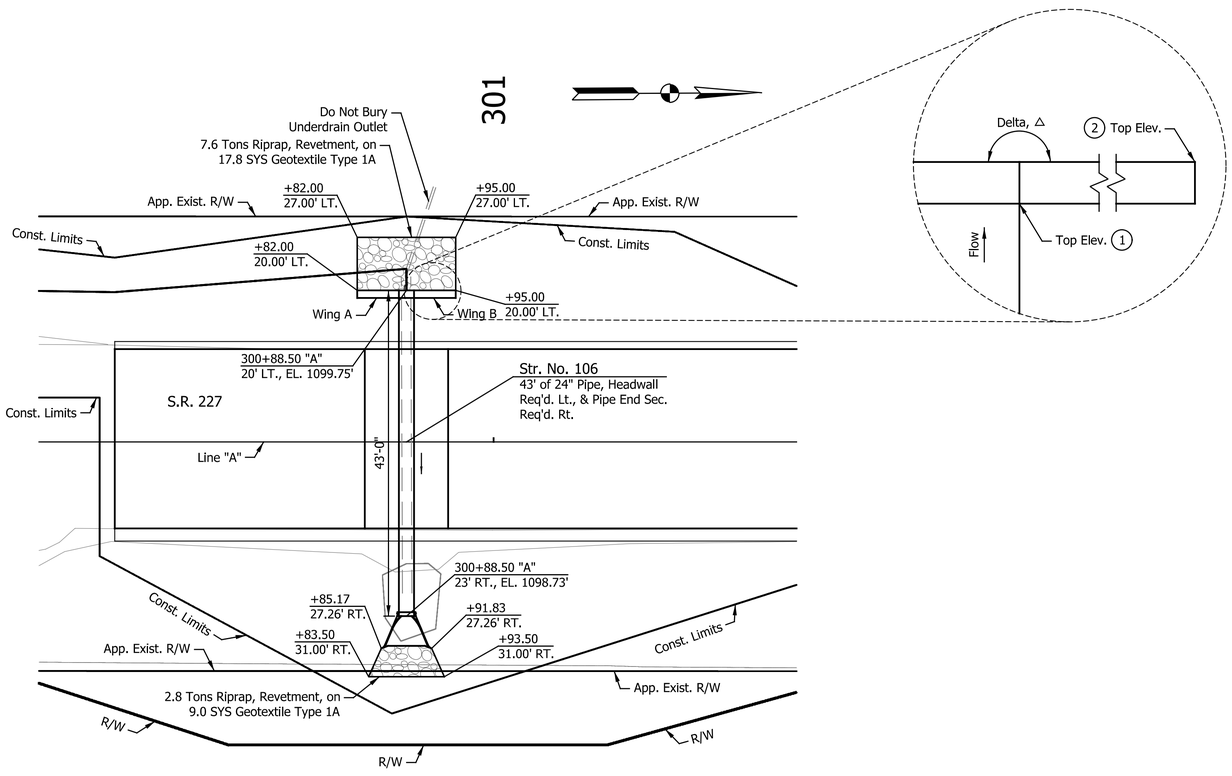
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ROADWAY CROSS SECTION
SCALE: 1"=20' Horitz.; 1"=5' Vert.



F.F. WINGWALL NO. 106U
SCALE: 1"=5' Horitz.; 1"=5' Vert.



WINGWALL TABLE					
WING	① TOP ELEV	② TOP ELEV	DELTA, △	LENGTH, "L"	AREA (SFT)
A	1102.25	1102.25	180°	4'-4"	81.3
B	1102.25	1102.25	180°	4'-4"	81.3

NOTE TO REVIEWER:
Headwall/Wingwall Reinforcement Details and Soil Parameters will be incorporated prior to Stage 3 Review following Final Geotechnical Report.

DATE	REVISION

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC
CHECKED: JPS CHECKED: JPS

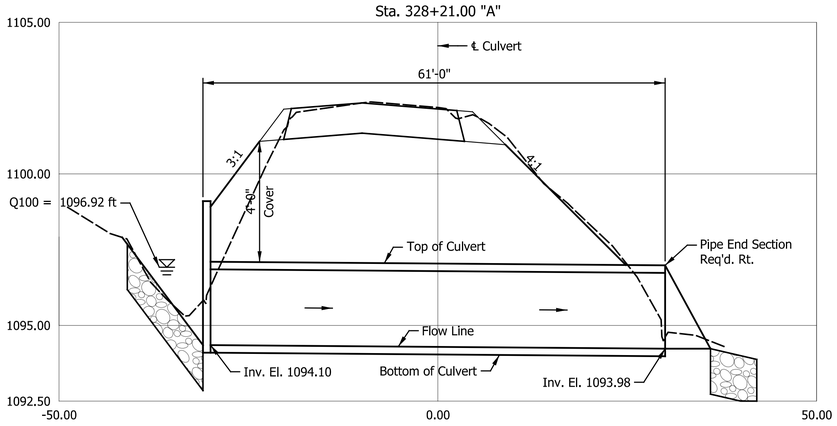
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN DETAILS
STR. NO. 106 - STA. 300+88.5 "A"

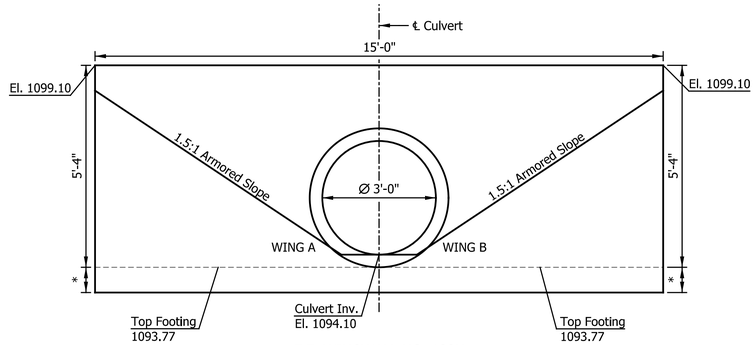
HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2200507
SURVEY BOOK	SHEETS
N/A	33 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Pdf.plt.cfg
Indiana_Shade.tbl

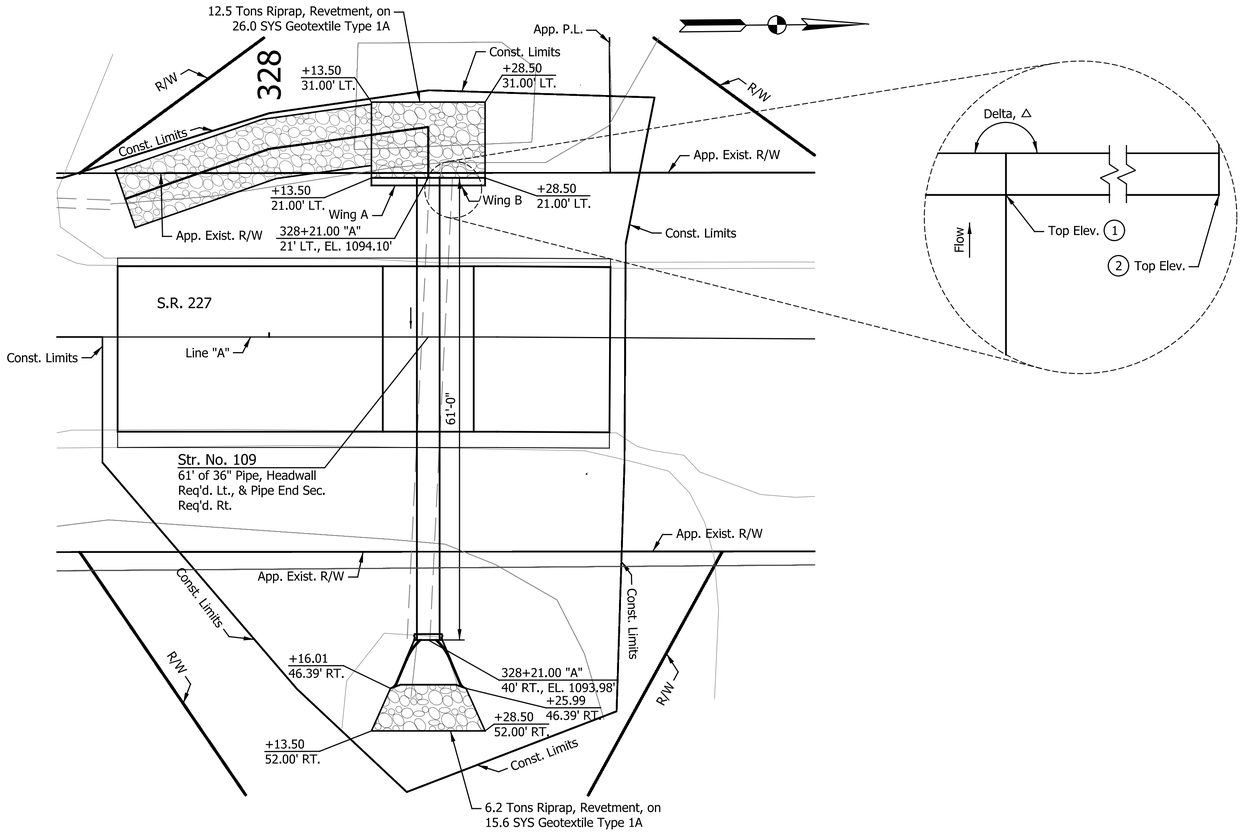
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ROADWAY CROSS SECTION
SCALE: 1"=20' Horitz.; 1"=5' Vert.



F.F. WINGWALL NO. 109U
SCALE: 1"=5' Horitz.; 1"=5' Vert.



WINGWALL TABLE					
WING	① TOP ELEV	② TOP ELEV	DELTA, △	LENGTH, "L"	AREA (SFT)
A	1099.10	1099.10	180°	5'-0"	150.0
B	1099.10	1099.10	180°	5'-0"	150.0

NOTE TO REVIEWER:
Headwall/Wingwall Reinforcement Details and Soil Parameters will be incorporated prior to Stage 3 Review following Final Geotechnical Report.

DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

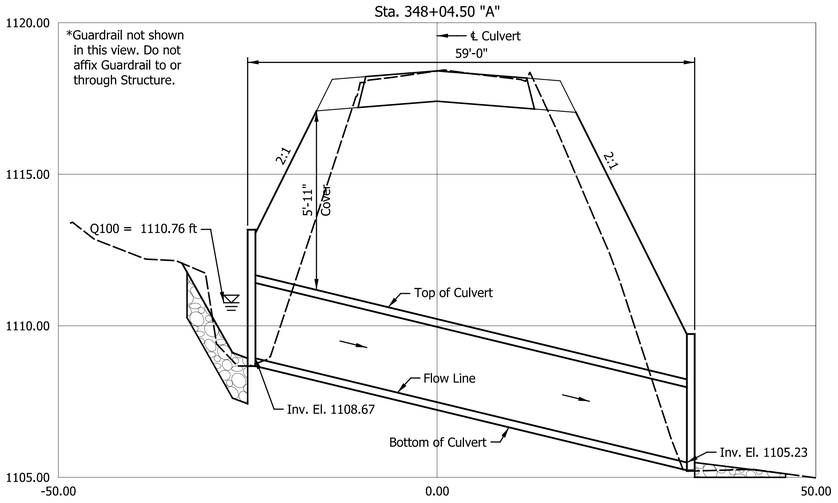
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN DETAILS
STR. NO. 109 - STA. 328+21.0 "A"

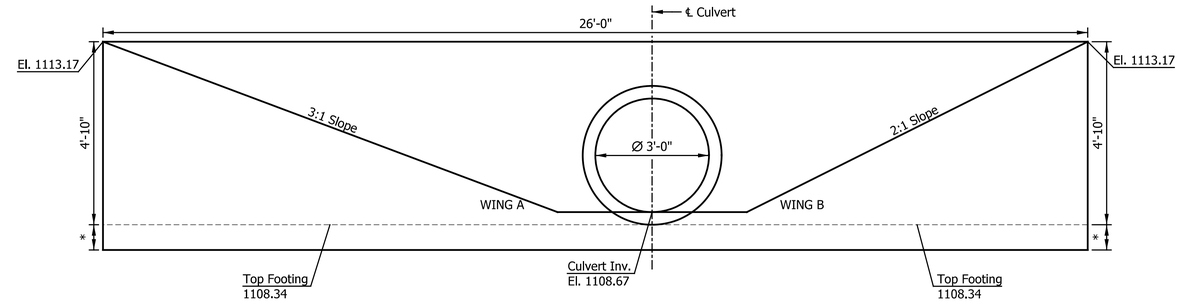
HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2200507
SURVEY BOOK	SHEETS
N/A	34 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Pdf.dfcfg
Indiana_Shade.tbl

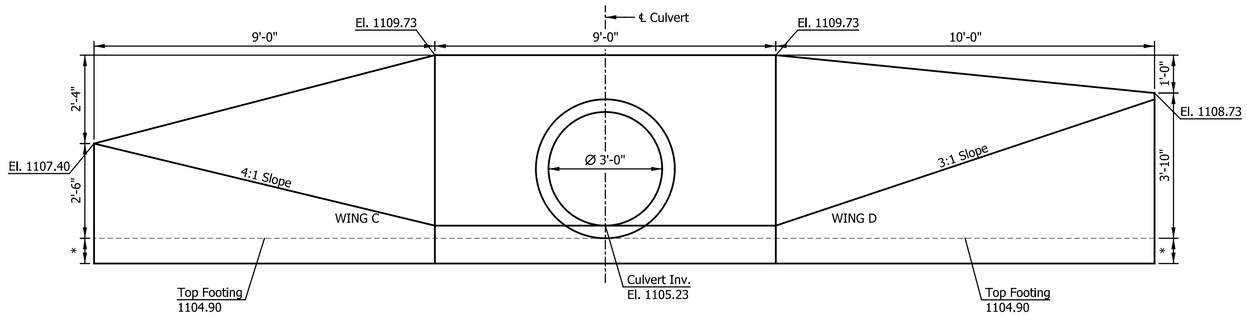
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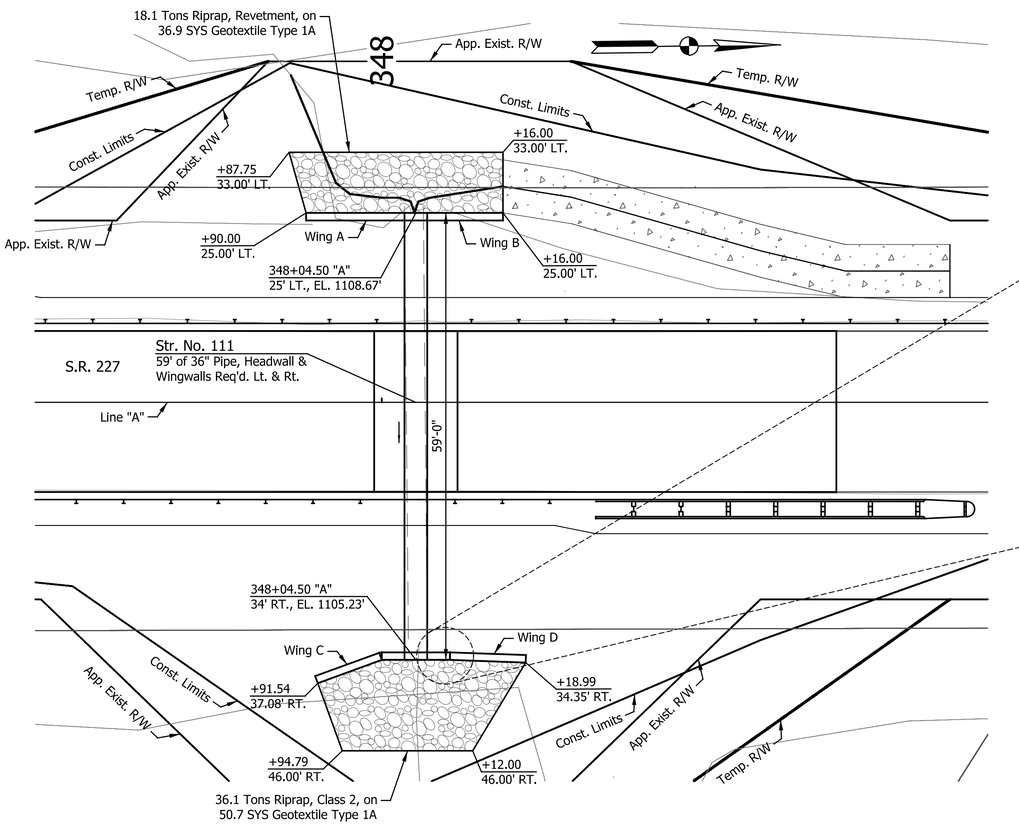
ROADWAY CROSS SECTION
SCALE: 1"=20' Horitz.; 1"=5' Vert.

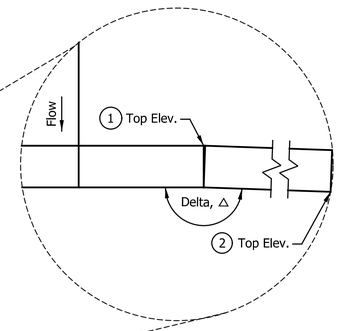


F.F. WINGWALL NO. 111U
SCALE: 1"=5' Horitz.; 1"=5' Vert.



F.F. WINGWALL NO. 111D
SCALE: 1"=5' Horitz.; 1"=5' Vert.





WINGWALL TABLE					
WING	① TOP ELEV	② TOP ELEV	DELTA, △	LENGTH, "L"	AREA (SFT)
A	1113.17	1113.17	180°	12'-0"	330.0
B	1113.17	1113.17	180°	9'-0"	247.5
C	1109.73	1107.40	160°	9'-0"	195.0
D	1109.73	1108.73	178°	10'-0"	250.0

NOTE TO REVIEWER:
Headwall/Wingwall Reinforcement Details and Soil Parameters will be incorporated prior to Stage 3 Review following Final Geotechnical Report.

DATE	REVISION

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC
CHECKED: JPS CHECKED: JPS

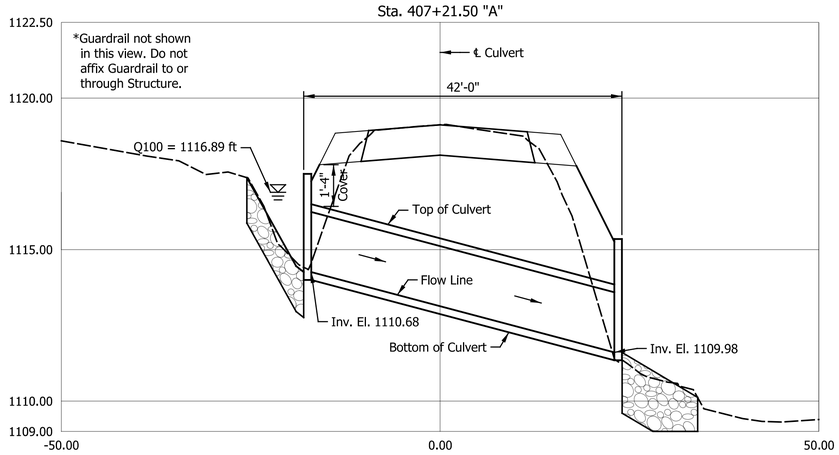
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN DETAILS
STR. NO. 111 - STA. 348+04.5 "A"

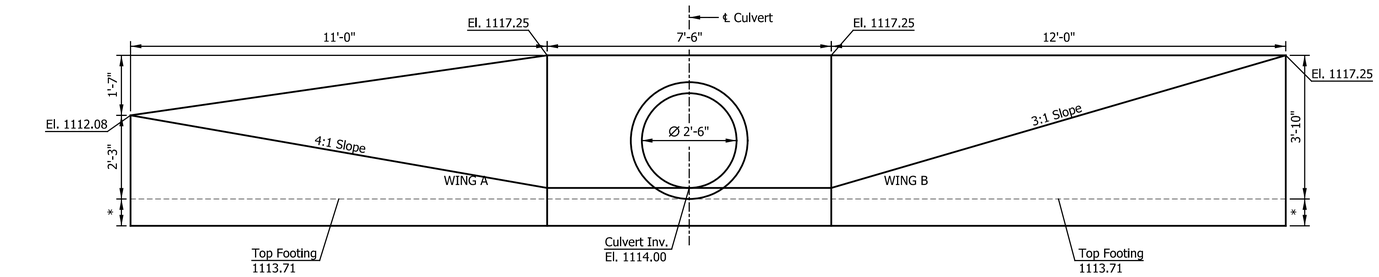
HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2200507
SURVEY BOOK	SHEETS
N/A	35 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Rdf_dtl.cfg
Indiana_Shade.tbl

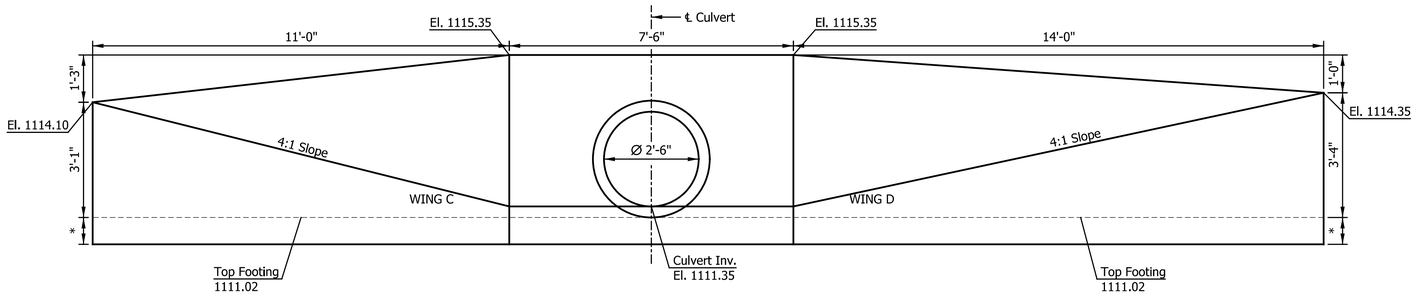
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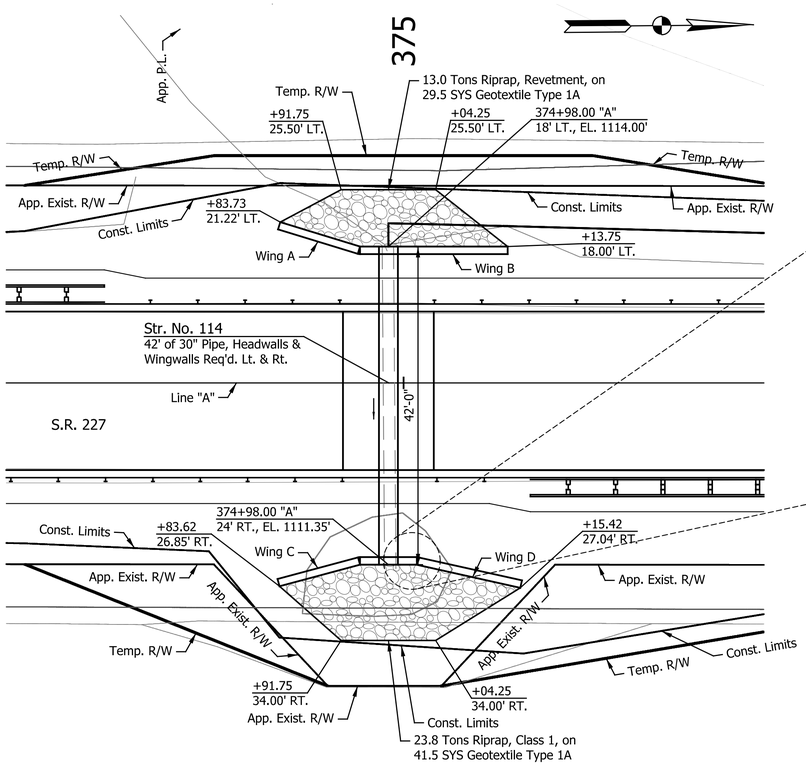
ROADWAY CROSS SECTION
SCALE: 1"=20' Horitz.; 1"=5' Vert.

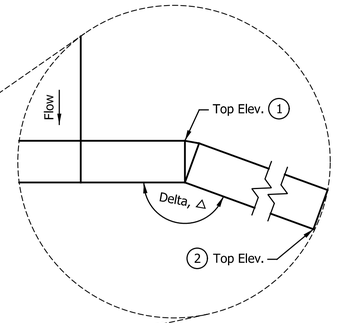


F.F. WINGWALL NO. 114U
SCALE: 1"=5' Horitz.; 1"=5' Vert.



F.F. WINGWALL NO. 114D
SCALE: 1"=5' Horitz.; 1"=5' Vert.





WINGWALL TABLE					
WING	① TOP ELEV	② TOP ELEV	DELTA, △	LENGTH, "L"	AREA (SFT)
A	1117.25	1112.08	163°	11'-0"	204.0
B	1117.25	1117.25	180°	12'-0"	270.0
C	1115.35	1114.10	165°	11'-0"	240.6
D	1115.35	1114.35	167°	14-0"	315.0

NOTE TO REVIEWER:
Headwall/Wingwall Reinforcement Details and Soil Parameters will be incorporated prior to Stage 3 Review following Final Geotechnical Report.

DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

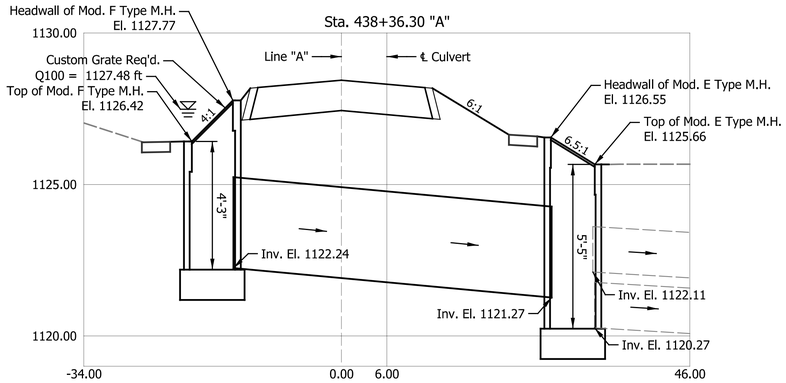
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN DETAILS
STR. NO. 114 - STA. 407+21.5 "A"

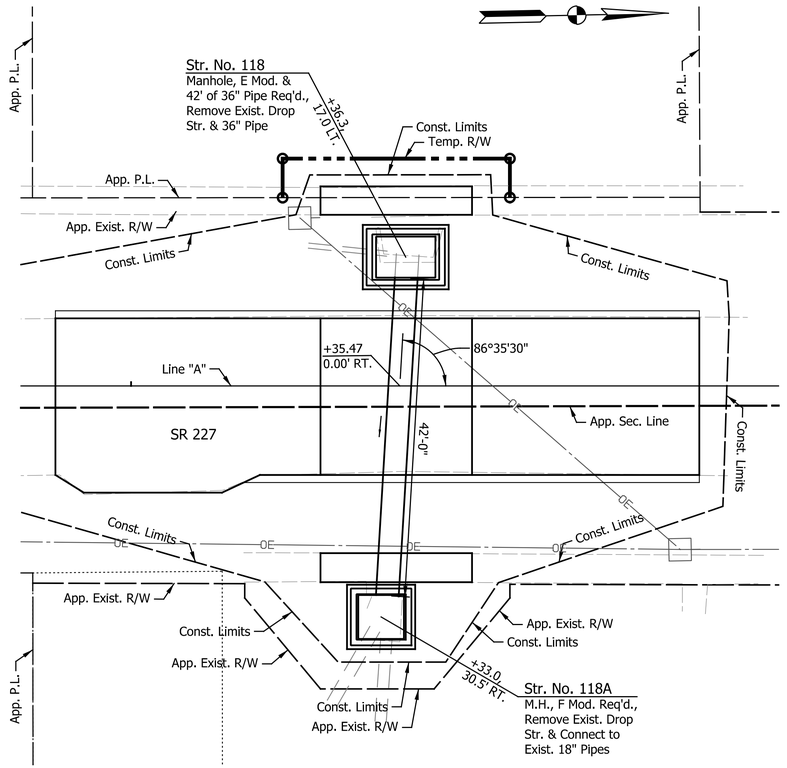
HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2200507
SURVEY BOOK	SHEETS
N/A	36 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-Pdf.dfcfg
Indiana_Shade.tbl

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ROADWAY CROSS SECTION
SCALE: 1"=20' Horitz.; 1"=5' Vert.



HYDRAULIC DATA TABLE			
ITEM	UNIT	EXISTING STRUCTURE	PROPOSED STRUCTURE
DRAINAGE AREA	ACRE	25.6	25.6
Q BACKWATER (100-YR)	FT	0.62	0.60
Q DISCHARGE (100-YR)	CFS	41.9	41.9
Q ELEVATION (100-YR)	FT	1127.50	1127.48
Q VELOCITY (25-YR)	FT/S	5.52	5.52

NOTE TO REVIEWER:
Headwall/Wingwall Reinforcement Details and Soil Parameters will be incorporated prior to Stage 3 Review following Final Geotechnical Report.

DATE	REVISION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN DETAILS
STR. NO. 118/118A - STA. 438+36.3 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2200507

SURVEY BOOK	SHEETS
N/A	37 of 73
CONTRACT	PROJECT
R-44589	2200507

Indy-rhlf.ctb
Indiana_Shade.tbl

bdyer 4/11/2025 10:05:53 AM P:\2023\00938\D. Drawings\202300938.0001.RD.GP.05.dgn

306

307

387

388

Str. No. 107
CLV-37497
59' of 24" Pipe & 2
Safety Metal End
Sections Req'd.

Str. No. 119
CLV-37579 (CV 227-089-20.23)
49' of 24" Pipe & 2
Safety Metal End
Sections Req'd.

100+00

Line "A"

Line "B"

R/W

Grass

Asphalt

Field

4' Wire Fence

With Utility Drop

6" Cluster

42"

OE

DATE	REVISION

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: LAM DRAWN: MCC

CHECKED: JPS CHECKED: JPS

INDIANA
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
N/A	2200507

SURVEY BOOK	SHEETS		
N/A	38	of	73
CONTRACT	PROJECT		
R-44589	2200507		

Indy-Pref.dfnCfg
Indiana_Shade.tbl

bdyer 4/11/2025 10:05:58 AM P:\2023\00938\D. Drawings\202300938.0001.RD.DS.01.dgn

Appendix C: Early Coordination

INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758
Indianapolis, Indiana 46204

PHONE: (855) 463-6848

Mike Braun, Governor
Lyndsay Quist, Commissioner

October 28, 2025

Sample Early Coordination Letter

Mrs. Kari Carmany-George
Federal Highway Administration
Federal Office Building Room 254
575 North Pennsylvania Street
Indianapolis, Indiana 46204

Re: Des. No. 2200507
State Road (SR) 227 Small Structures Improvement Project
SR 227, From 4.60 Miles North of SR 121 to 7.86 Miles North of SR 121
Near Richmond, Wayne County, Indiana

Dear Mrs. Carmany-George:

The Indiana Department of Transportation (INDOT) and Federal Highway Administration (FHWA) intend to proceed with the SR 227 Small Structures Improvement Project (Des. No. 2200507) in Wayne County, Indiana. This letter is part of the early coordination phase of the environmental review process. American Structurepoint, Inc., on behalf of INDOT Greenfield District is requesting comments from your area of expertise regarding any possible environmental effects associated with this project. **Please use the above designation number and description in your reply.** We will incorporate your comments into a study of the project's environmental impacts.

The proposed project area is located along SR 227 near Richmond, Wayne and Franklin Townships, Wayne County, Indiana. More specifically, the project is located in Sections 1, 2, 11, 12, 25, 26, 25, and 36, Townships 14 and 15 North, and Range 1 West on the United States Geological Survey (USGS) 7.5 Whitewater Indiana topographic quadrangle. The proposed project limits extend from approximately 4.60 miles north of SR 121 to 7.86 miles north of SR 121. This section of SR 227 is functionally classified as a *major collector* and has a posted speed limit of 45 miles per hour (mph). The existing typical roadway section of SR 227 consists of two 10-foot-wide travel lanes (one northbound and one southbound) with no shoulders. Drainage is conveyed through existing open roadside ditches and small structures throughout the project corridor. The existing apparent right-of-way along SR 227 varies from 25 to 35 feet from the centerline of the roadway.

The need for the project is evidenced by the deteriorating conditions of the small structures and drainage conditions along this stretch of SR 227. The purpose of this project is to address noted deficiencies of the culverts, improve the culverts barrel condition ratings to at least a 7 (good) out of 9 (excellent), and to address the inadequate drainage along the roadway. The following table indicates the location, structure number, size, condition rating, and deficiencies of existing culverts to be improved along SR 227.

Structure Number South to North	Location	Type	Diameter (inches)	Condition Rating	Deficiencies
CV 227-089-17.97	0.02 mile north of Filby Road	CMP	15	5 (Fair)	Rusted, Section Loss
CV 227-089-18.08	0.14 mile north of Filby Road	CMP	15	3 (Poor)	Rusted, Section Loss
CV 227-089-18.11	0.16 mile north of Filby Road	CMP	15	3 (Poor)	Rusted, Section Loss
CV 227-089-18.21	0.26 mile north of Filby Road	CMP	24	3 (Poor)	Rusted, Section Loss, Filled with asphalt
CV 227-089-18.49	0.21 mile south of Inke Road	CMP	15	1 (Failing)	Unable to inspect, full of debris
CV 227-089-18.58	0.11 mile south of Inke Road	CMP	15	6.5 (Satisfactory)	N/A
CV 227-089-18.69	At the intersection of SR 227 and Inke Road	CMP	18	6.5 (Satisfactory)	N/A
CV 227-089-18.84	0.15 mile north of Inke Road	CMP	15	6.5 (Satisfactory)	N/A
CV 227-089-19.10	0.41 mile north of Inke Road	CMP	36	7 (Good)	N/A
CV 227-089-19.34	0.65 mile north of Inke Road	CMP	30	5 (Fair)	Rusted, Section Loss
CV 227-089-19.48	0.76 mile south of Wallace Road	CMP	30	4 (Poor)	Rusted, Section Loss, Sinkhole in Embankment
CV 227-089-19.83	0.41 mile south of Wallace Road	CMP	18	5 (Fair)	N/A
CV 227-089-19.88	0.36 mile south of Wallace Road	CMP	15	7 (Good)	N/A
CV 227-089-19.99	0.25 mile south of Wallace Road	CMP	18	4 (Poor)	Rusted, Section Loss
CV 227-089-20.07	0.17 mile south of Wallace Road	CMP	15	5 (Fair)	N/A
CV 227-089-20.23	At the intersection of SR 227 and Wallace Road	CMP	15	6.5 (Satisfactory)	N/A
CV 227-089-20.53	0.29 mile north of Wallace Road	CMP	15	7 (Good)	N/A
CV 227-089-20.61	0.36 mile north of Wallace Road	CMP	24	7 (Good)	N/A
CV 227-089-21.20	0.08 mile north of Whitewater Road	CMP	36	3 (Poor)	N/A

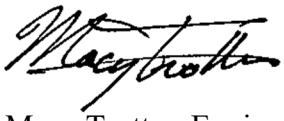
The current proposed project consists of the replacement of 19 small structures and ditch work along this section of SR 227. It is anticipated that the proposed project would require the acquisition of greater than 0.50 acre of additional permanent right-of-way. No relocations are anticipated as a result of the proposed project. Maintenance

of traffic for the project would include a detour route utilizing I-70, US 27, and US 36. Construction is anticipated to begin Spring 2027.

Land use in the vicinity of the project is primarily agricultural and residential. A wetland delineation and waters investigation was performed on October 17, 2024 to identify ecological resources that may be present. Four wetlands (Wetlands 1-4) and two streams (Unnamed Tributary [UNT] 1 to Whitewater River and UNT 2 to Whitewater River) were identified within the project area. Coordination for the Indiana bat and northern long-eared bat will be completed using the US Fish and Wildlife Service (USFWS) Information for Planning and Consulting (IPaC) system, and the results of the IPaC determination will be reviewed by the USFWS. The project area will be evaluated in regard to archaeological and historic resources for Section 106 compliance. The result of any cultural resource evaluations/investigations will be forwarded to the State Historic Preservation Officer for review and concurrence as required.

American Structurepoint, Inc., on behalf of INDOT Greenfield District, is requesting comments regarding any possible environmental effects associated with this project. Please provide your responses **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 Macy Trotter, American Structurepoint, Inc. by phone at (317) 547-5580 or e-mail at mtrotter@structurepoint.com, or Nathan Riggs, INDOT Greenfield District Project Manager at (317) 467-3986 or e-mail at nriggs@indot.in.gov. Thank you in advance for your input.

Sincerely,



Macy Trotter, Environmental Specialist, American Structurepoint, Inc.
Consultant soliciting comments on behalf of INDOT Greenfield District

Enclosures

- State Location Map
- USGS Topographic Map – Whitewater Quadrangle
- 2022 Aerial Photography and Photo Location Map
- General Project Photos

Duplicate mapping has been removed to reduce file size and can be found in Appendix B

Distribution List

- Central Wayne County Commissioner
- Eastern Indiana Regional Planning Commission
- Eastern Wayne County Commissioner
- Eighth Coast Guard District
- Federal Highway Administration
- IDNR, Division of Fish and Wildlife
- Indiana Geological and Water Survey
- INDOT Environmental Policy Office
- INDOT, Greenfield District
- Local Floodplain Administrator
- Mayor of Richmond
- Richmond Community Schools

Distribution List Continued

US Department of Housing and Urban Development
US Fish and Wildlife Service (USFWS)
US Natural Resources Conservation Service
USACE – Louisville District
Wayne County EMA
Wayne County Highway Department
Wayne County Sheriff
Wayne County Soil and Water Conservation
Wayne County Surveyor
Western Wayne County Commissioner
Indiana Department of Environmental Management - Not listed however coordination occurred on October 28, 2025

Coordination initiated with Indiana American Water on January 28, 2025

Organization and Project Information

Organization Name: American Structurepoint, Inc.

First Name: Macy

Last Name: Trotter

Phone: (317) 547-5580

Email: mtrotter@structurepoint.com

Address Line 1: 9025 River Road, Suite 200

City: Indianapolis

State: IN

Zip: 46240

Customer Id: 2200507

Project Title: SR 227 Small Structures Improvement Project

Project Description: The current proposed project proposes ditch work throughout the SR 227 project corridor and the replacement of 19 small structures.

Environmental Assessment Report

Geological Hazards:

1. Floodway
2. Moderate liquefaction potential

Mineral Resources:

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

Active or abandoned mineral resources extraction sites:

1. Abandoned Industrial Minerals Quarries
2. Active Industrial Minerals Sites (2016) (Industrial Minerals)

Disclaimer:

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

This information was furnished by Indiana Geological Survey

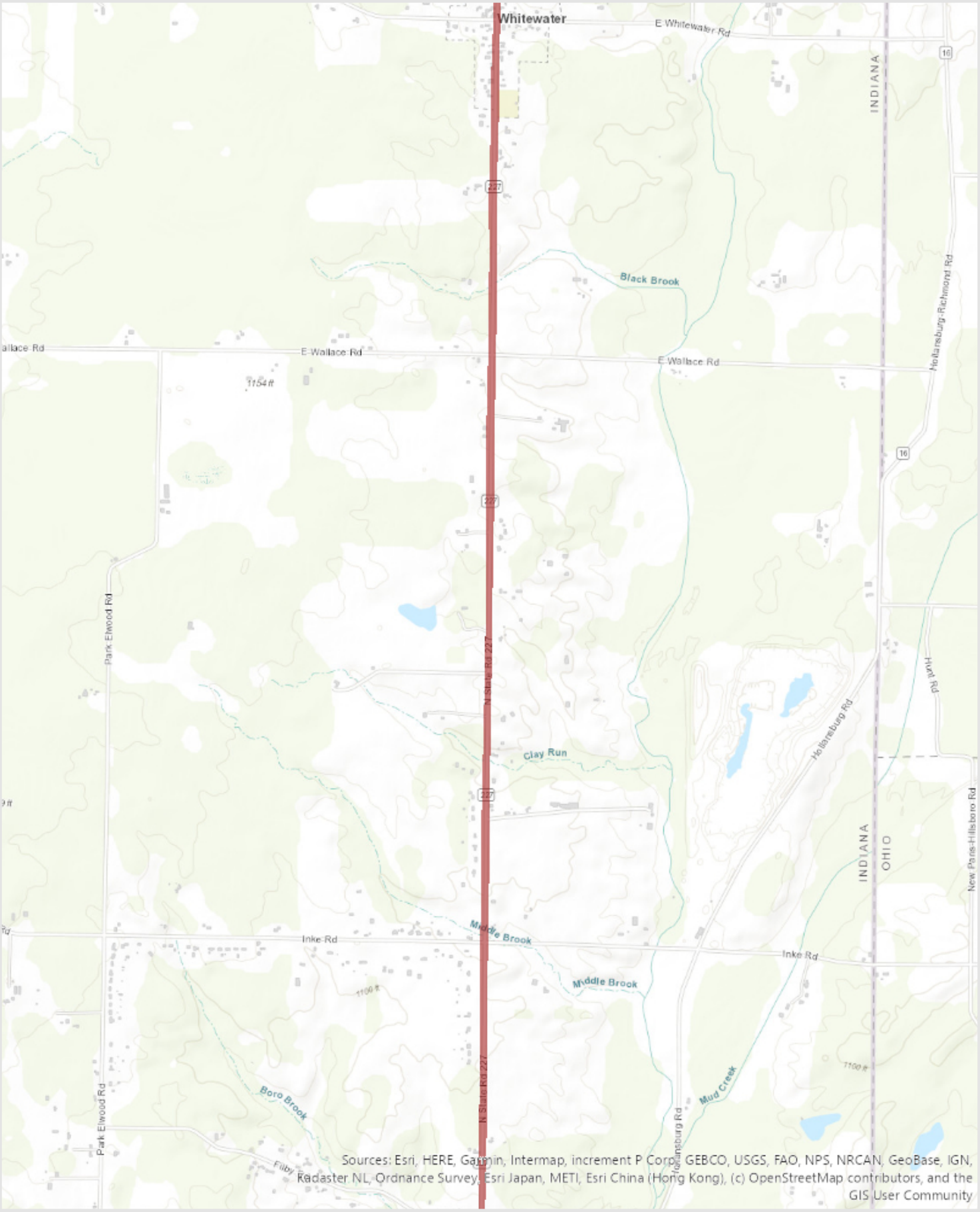
Address: 1001 E. 10th St., Bloomington, IN 47405

Email: IGSEnvir@indiana.edu

Phone: (812) 855-7428

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Metadata:

https://gisdata.in.gov/server/rest/services/Hosted/FIRM_Flood_Hazard_Zones_2023/FeatureServer/info/metadata

https://portal.igs.indiana.edu/arcgis/rest/services/Seismic_Earthquake_Liquefaction_Potential/MapServer/info/metadata/

https://portal.igs.indiana.edu/arcgis/rest/services/Bedrock_Geology/MapServer/info/metadata/

https://portal.igs.indiana.edu/arcgis/rest/services/Industrial_Minerals_SandAndGravel_Resources/MapServer/info/metadata/

https://portal.igs.indiana.edu/arcgis/rest/services/Industrial_Minerals_Quarries_Abandoned/MapServer/info/metadata/

https://portal.igs.indiana.edu/arcgis/rest/services/Industrial_Minerals_Sites_2016/MapServer/info/metadata/

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From: DNR Environmental Review <environmentalreview@dnr.IN.gov>
Sent: Tuesday, November 4, 2025 3:36 PM
To: Trotter, Macy
Cc: Everhart, Sarah
Subject: RE: CLARIFICATION NEEDED: Early Coordination Request - SR 227 Small Structures Improvement Project, Des. No. 2200507

EXTERNAL EMAIL: Do not click any links or open any attachments unless you trust the sender and know the content is safe!

Hi Macy,
Thanks for letting me know. This is enough information at this time, but I'll let you know if we have any further questions.
Thanks!

Kind regards,

Elizabeth Adkins (she/her)
Environmental Program Coordinator
Indiana Department of Natural Resources
Division of Fish, Wildlife, and Nature Preserves: Environmental Unit
(317) 234-2719
EAdkins@dnr.IN.gov
dnr.IN.gov/fish-and-wildlife

From: Trotter, Macy <MTrotter@structurepoint.com>
Sent: Tuesday, November 4, 2025 3:21 PM
To: DNR Environmental Review <environmentalreview@dnr.IN.gov>
Cc: Everhart, Sarah <severhart@structurepoint.com>
Subject: RE: CLARIFICATION NEEDED: Early Coordination Request - SR 227 Small Structures Improvement Project, Des. No. 2200507

EXTERNAL EMAIL: This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Hi Elizabeth,

I wanted to go ahead and get you the KMZ detailing the structure locations. Tree clearing is anticipated; however, it will likely be minimal, with only one or two trees removed at varying structures along the corridor. Additionally, riprap will be placed at most inlets/outlets of the newly replaced structures. I can follow up with our engineers for more specific information to pass along if needed. Please let me know if you have any questions.

Have a nice afternoon!

Macy Trotter
Environmental Specialist
9025 River Road, Suite 200
Indianapolis, IN 46240
OFFICE 317-547-5580 Ex. 2659
EMAIL mtrotter@structurepoint.com

From: DNR Environmental Review <environmentalreview@dnr.IN.gov>
Sent: Friday, October 31, 2025 4:34 PM
To: Trotter, Macy <MTrotter@structurepoint.com>; DNR Environmental Review <environmentalreview@dnr.IN.gov>
Cc: Everhart, Sarah <severhart@structurepoint.com>
Subject: CLARIFICATION NEEDED: Early Coordination Request - SR 227 Small Structures Improvement Project, Des. No. 2200507

EXTERNAL EMAIL: Do not click any links or open any attachments unless you trust the sender and know the content is safe!

Hi Macy,
Will any tree clearing be required at any location for this project? If so, please list how much is expected and at what location. Will any riprap be installed at any site?
Additionally, since this project is so widespread, would it be possible for you to send along a kmz file detailing all structure locations? This would be very helpful for our review.
Thanks!

Kind regards,

Elizabeth Adkins (she/her)
Environmental Program Coordinator
Indiana Department of Natural Resources
Division of Fish, Wildlife, and Nature Preserves: Environmental Unit
(317) 234-2719
EAdkins@dnr.IN.gov
dnr.IN.gov/fish-and-wildlife

From: Trotter, Macy <MTrotter@structurepoint.com>
Sent: Tuesday, October 28, 2025 4:56 PM
To: DNR Environmental Review <environmentalreview@dnr.IN.gov>
Cc: Everhart, Sarah <severhart@structurepoint.com>
Subject: Early Coordination Request - SR 227 Small Structures Improvement Project, Des. No. 2200507

EXTERNAL EMAIL: This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Good afternoon,

Please find attached the Early Coordination Letter prepared for the SR 227 Small Structures Improvement Project (Des. No. 2200507) near Richmond, Wayne County, Indiana. Please review the attached information and supply our office with any comments your office may have regarding the proposed project.

Thank you,

Macy Trotter
Environmental Specialist

9025 River Road, Suite 200
OFFICE 317.547.5580 Ex. 2659
EMAIL mtrotter@structurepoint.com
WEB www.structurepoint.com

AMERICAN STRUCTUREPOINT INC.



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https://protect.checkpoint.com/v2/r01/___https://www.structurepoint.com/___.YzJ1OnN0YXRlb2ZpbmRpYW5hOmM6bzo0YjJhMjQzYzc1MTY4NWYwNWUxNDdkZDJkOTZjN2MxNDo

THIS IS NOT A PERMIT

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

DNR#: ER-27844

Request Received: October 9, 2025

Requestor:
Macy Trotter
American Structurepoint
9025 River Road, Suite 200
Indianapolis, IN 46240

Project:
I-69 bridge (#I69-311-07303 ANB & ASB / NBI 40350 NB & 40360 SB) deck overlay over Washington Center Road, 0.62 miles north of SR 3, Fort Wayne; Des #2200786 & 2200787

County/Site Info: Allen 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 Northern Harrier (Circus hudsonius) and Upland Sandpiper (Bartramia longicauda) have been documented within 0.5 miles of the project area.

The Division of Fish and Wildlife does not expect negative impacts to these species due to this project.

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:

1. Revegetate all bare and disturbed areas that are not currently mowed and maintained with a mixture of grasses (excluding all varieties of tall fescue) and legumes as soon as possible upon completion; turf-type grasses (including low-endophyte, friendly endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in currently mowed areas only.
2. Minimize and contain within the project limits all tree and brush clearing.
3. Do not cut any trees suitable for Indiana Bat or Northern Long-eared Bat roosting (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.
6. Replace each mature tree removed (trees that are 10" diameter-at-breast height/dbh or larger) with 2 native trees of 3-gallon stock or larger.

Contact Staff:
Our agency appreciates this opportunity to be of service. Please contact me at eadkins@dnr.IN.gov or (317) 234-2719 if we can be of further assistance.

Elizabeth Adkins **Date:** November 7, 2025
Elizabeth Adkins
Environmental Program Coordinator
Division of Fish and Wildlife

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

December 3, 2025

Macy Trotter
American Structurepoint
9025 River Road, Suite 200
Indianapolis, Indiana 46240
MTrotter@structurepoint.com

Dear Macy Trotter:

The proposed small structures improvement project (Des. No. 2200507) in Wayne County, Indiana, as referred to in your letter received on October 28, 2025, 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: 2025.12.03 11:00:43 -05'00'

JOHN ALLEN
State Soil Scientist

USDA is an equal opportunity provider, employer, and lender.

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I *(To be completed by Federal Agency)*		Date Of Land Evaluation Request	
Name of Project DES2200507_SR227 Sm Structures		Federal Agency Involved	
Proposed Land Use		County and State Wayne County, Indiana	
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 213 ac
Major Crop(s) Corn	Farmable Land In Govt. Jurisdiction Acres: 236629 % 91	Amount of Farmland As Defined in FPPA Acres: 184746 % 71	
Name of Land Evaluation System Used LESA	Name of State or Local Site Assessment System	Date Land Evaluation Returned by NRCS 12/3/2025	

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	0.38			
B. Total Acres To Be Converted Indirectly	0			
C. Total Acres In Site	0.38			
PART IV *(To be completed by NRCS)* Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	0.38			
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	47			
PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value of Farmland To Be Converted (Scale of 0 to 100 Points)	70			

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)	11			
2. Perimeter In Non-urban Use	(10)	9			
3. Percent Of Site Being Farmed	(20)	0			
4. Protection Provided By State and Local Government	(20)	0			
5. Distance From Urban Built-up Area	(15)	10			
6. Distance To Urban Support Services	(15)	0			
7. Size Of Present Farm Unit Compared To Average	(10)	8			
8. Creation Of Non-farmable Farmland	(10)	0			
9. Availability Of Farm Support Services	(5)	2			
10. On-Farm Investments	(20)	12			
11. Effects Of Conversion On Farm Support Services	(10)	0			
12. Compatibility With Existing Agricultural Use	(10)	0			
TOTAL SITE ASSESSMENT POINTS	160	52	0	0	0
PART VII ***(To be completed by Federal Agency)***					
Relative Value Of Farmland *(From Part V)*	100	70	0	0	0
Total Site Assessment *(From Part VI above or local site assessment)*	160	52	0	0	0
TOTAL POINTS ***(Total of above 2 lines)***	260	122	0	0	0

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

Reason For Selection:

Name of Federal agency representative completing this form: Macy Trotter | Date: 02/23/2026

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

From: Turnbow, Alisha <ATurnbow@idem.IN.gov>
Sent: Tuesday, January 27, 2026 5:05 PM
To: Trotter, Macy
Cc: Everhart, Sarah
Subject: RE: Early Coordination Request - SR 227 Small Structures Improvement Project, Des. No. 2200507

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Hi Macy,

Des No 2200507 is located in Indiana American Water – Richmond's Source Water Assessment (SWA) Area. The contact for Indiana American Water - Richmond is Christina Gosnell she can be reached at christina.gosnell@amwater.com and 317-885-2408.

Specifically, these locations:

- CV 227-089-17.97
- CV 227-089-18.11 and CV 227-089-18.08
- Ditching area 1
- CV 227-089-18.21
- Ditching area 2

Sincerely,

Alisha Turnbow
Geologist 2
Office of Water Quality
Drinking Water Branch, Groundwater Section

(317) 233-9158 • aturnbow@idem.IN.gov

Indiana Department of Environmental Management

IDEM values your feedback.
Please take two minutes and complete this brief survey.

From: Trotter, Macy <MTrotter@structurepoint.com>
Sent: Thursday, January 15, 2026 5:44 PM
To: Turnbow, Alisha <ATurnbow@idem.IN.gov>
Cc: Everhart, Sarah <severhart@structurepoint.com>
Subject: RE: Early Coordination Request - SR 227 Small Structures Improvement Project, Des. No. 2200507

EXTERNAL EMAIL: This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Hi Alisha,

I just wanted to follow up on this as I did not receive a response. According to the source water proximity determination tool, our project is located within a source water area at the southern end of our project area, along SR 227 and near Filby Road. Please let me know if you have any questions.

Thank you!

Macy Trotter
Environmental Specialist
9025 River Road, Suite 200
Indianapolis, IN 46240
OFFICE 317-547-5580 Ex. 2659
EMAIL mtrotter@structurepoint.com

From: Trotter, Macy
Sent: Tuesday, October 28, 2025 5:06 PM
To: 'ATurnbow@idem.IN.gov' <ATurnbow@idem.IN.gov>
Cc: Everhart, Sarah <severhart@structurepoint.com>
Subject: Early Coordination Request - SR 227 Small Structures Improvement Project, Des. No. 2200507

Good afternoon,

Please find attached the Early Coordination Letter prepared for the SR 227 Small Structures Improvement Project (Des. No. 2200507) near Richmond, Wayne County, Indiana. Based on the source water proximity map, the project is located within a source water area near the southern end of the project, between Filby Road and Inke Road. Please review the attached information and supply our office with any comments your office may have regarding the proposed project.

Thank you,

Macy Trotter
Environmental Specialist
9025 River Road, Suite 200
OFFICE 317.547.5580 Ex. 2659
EMAIL mtrotter@structurepoint.com
WEB www.structurepoint.com



AMERICAN STRUCTUREPOINT INC.

INDIANA
AMERICAN WATER

February 2, 2026

Macy Trotter, Environmental Specialist
American Structurepoint, Inc.

Re: Des. No. 2200507, SR227 Small Structures Improvement Project

Dear Macy Trotter,

On behalf of Indiana American Water – Richmond, I have reviewed the project plans and determined that the project is located within the Source Water Assessment (SWA) Area. American Water makes the following requests:

- Overnight storage of large equipment is discouraged, but when unavoidable precautions should be taken to prevent the release of any petroleum products. Precautions should include daily inspection of equipment, security measures to protect equipment, and a spill response plan.
- Dumpsters for construction debris are permitted so long as they are not used for hazardous waste disposal.
- Fertilizer, pesticide, or herbicide applications are allowed so long as the label is followed to prevent contamination of the watershed.
- Portable toilets are permissible.
- Prior to commencement of construction, please provide a list of chemicals to be used and/or stored at the job site.
- Please maintain a contingency plan for chemical spills.
- Chemicals should be properly labeled and stored in secondary containment capable of holding 110% of the volume.
- Perform weekly inspections of chemical tanks and containment structures.
- In the event of any chemical spills or leaks, immediately notify the Water Quality Supervisor – Chris Daniel. Email: chris.daniel@amwater.com
  Phone: 317-885-2420

Sincerely,

Alisha Cornwell

Alisha Cornwell
Program Manager, Source Water Protection

Indiana American Water
153 N. Emerson Ave
Greenwood, IN 46143

Tel:(463)313-2104
alisha.cornwell@amwater.com

United States Department of the Interior

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

In Reply Refer To: 07/21/2025 20:35:30 UTC
Project Code: 2025-0105396
Project Name: SR 227 Small Structures Improvement Project (Des. 2200507)

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 purpose of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.), 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.

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 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 Act.

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 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. You can complete this verification formally or informally or request an updated list by visiting the IPaC website at regular intervals during project planning and implementation.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at Midwest Section 7 Technical Assistance | U.S. Fish & Wildlife Service. This website contains step-by-step instructions to help you determine if your project will have an adverse effect on listed species and to lead you through the Section 7 process.

We appreciate your concern for threatened and endangered species. Federal agencies should

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.**

Other Trust Resources and Activities
Bald and Golden Eagles - Although the bald eagle has been removed from the endangered species list, this species and the golden eagle are protected by the Bald and Golden Eagle Act and the Migratory Bird Treaty Act. It is the responsibility of the project proponent to survey the area for any migratory bird nests. If there is an eagle nest on-site while work is on-going, eagles may be disturbed. We recommend avoiding and minimizing disturbance to eagles whenever practicable. If you cannot avoid eagle disturbance, you may seek a permit. A nest take permit is always required for removal, relocation, or obstruction of an eagle nest. For communication and wind energy projects, please refer to additional guidelines below.

Migratory Birds - The Migratory Bird Treaty Act (MBTA) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Service. The Service has the responsibility under the MBTA to proactively prevent the mortality of migratory birds whenever possible and we encourage implementation of recommendations that minimize potential impacts to migratory birds. Such measures include clearing forested habitat outside the nesting season (generally March 1 to August 31) or conducting nest surveys prior to clearing to avoid injury to eggs or nestlings.

Communication Towers - Construction of new communications towers (including radio, television, cellular, and microwave) creates a potentially significant impact on migratory birds, especially some 350 species of night-migrating birds. However, the Service has developed voluntary guidelines for minimizing impacts.

Transmission Lines - Migratory birds, especially large species with long wingspans, heavy bodies, and poor maneuverability can also collide with power lines. In addition, mortality can occur when birds, particularly hawks, eagles, kites, falcons, and owls, attempt to perch on uninsulated or unguarded power poles. To minimize these risks, please refer to guidelines developed by the Avian Power Line Interaction Committee and the Service. Implementation of these measures is especially important along sections of lines adjacent to wetlands or other areas that support large numbers of raptors and migratory birds.

Wind Energy - To minimize impacts to migratory birds and bats, wind energy projects should follow the Service's Wind Energy Guidelines. In addition, please refer to the Service's Eagle Conservation Plan Guidance, which provides guidance for conserving bald and golden eagles in the course of siting, constructing, and operating wind energy facilities.

Attachment(s):

- Official Species List

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: 2025-0105396

Project Name: SR 227 Small Structures Improvement Project (Des. 2200507)

Project Type: Culvert Repair/Replacement/Maintenance

Project Description: The State Road (SR) 227 Small Structures Improvement Project (Des. No. 2200507) is located along SR 227, from 4.60 miles north of SR 121 to 7.86 miles north of SR 121 in Richmond, Wayne County, Indiana. More specifically, the project is located in Sections 1, 2, 11, 12, 25, 26, 25, and 36, Townships 14 and 15 North, and Range 1 West on the United States Geological Survey (USGS) 7.5 Whitewater Indiana topographic quadrangle.

The proposed project limits extend off pavement at multiple ditching locations and nineteen culverts along this stretch of SR 227. All nineteen culverts are smaller than 36-inches and therefore do not require inspection reports. Please refer to the “Project Location Summary Table” uploaded to the IPaC Project Documents for culvert locations.

The current proposed project proposes ditch work throughout the SR 227 project corridor and the replacement of 19 small structures. It is anticipated that the proposed project would require the acquisition of greater than 0.50 acre of additional permanent right-of-way (ROW). No relocations are anticipated as a result of the proposed project. Maintenance of traffic for the project would include a detour route utilizing I-70, US 27, and US 36. Construction is anticipated to begin in 2027.

Approximately 0.170 acre of tree clearing is anticipated as part of this project within 100 feet from the edge of pavement during inactive bat season (October 1st to March 31st). The dominant species in the area include Cercis canadensis, Ulmus rubra, Catalpa speciosa, and Morus alba. Additionally, approximately 3.353 acres of permanent ROW (2.236 ac. of which is anticipated to be re-acquisition) and 0.011 acre of temporary ROW is anticipated to be acquired to complete this project.

A review of the USFWS database on March 19, 2025 did not indicate the presence of endangered bat species within a half mile of the project area. Land use in the vicinity of the project is primarily agricultural and residential. There is suitable bat habitat including trees and brush located within and adjacent to the project area. Construction is anticipated to begin in Spring 2027 and last for a duration of 6-7 months. No permanent lighting will be installed for this project. Temporary lighting may be needed during construction should the project require it.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.909906649999996,-84.83170269648078,14z



Counties: Wayne County, Indiana

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 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
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

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

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.

IPAC USER CONTACT INFORMATION

Agency: Federal Highway Administration
Name: Macy Trotter
Address: 9025 River Road, Suite 200
City: Indianapolis
State: IN
Zip: 46240
Email mtrotter@structurepoint.com
Phone: 3175475580

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Indiana Department of Transportation

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: 08/21/2025 10:34:31 UTC
Project code: 2025-0105396
Project Name: SR 227 Small Structures Improvement Project (Des. 2200507)

Subject: Not Likely to Adversely Affect Concurrence verification letter for the 'SR 227 Small Structures Improvement Project (Des. 2200507)' project under the December 13, 2024, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat, Northern Long-eared Bat, and Tricolored Bat.

To whom it may concern:

This letter records the determination of effects to federally listed (or proposed) bat species anticipated to result from the SR 227 Small Structures Improvement Project (Des. 2200507) (the Project). This determination is based upon information you entered into the assisted determination key (Dkey) associated with the above referenced Programmatic Biological Opinion/Conference Opinion (PBO/PCO) in the U.S. Fish and Wildlife Service's (Service) Information for Planning and Consultation (IPaC) system on the date listed above to verify that the Project may rely on the concurrence provided in the PBO/PCO to satisfy requirements under section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (16 USC 1536), as amended.

Ensuring Accurate Determinations When Using IPaC:

The Service developed the IPaC system and this Dkey in accordance with the ESA and based on the PBO/PCO. All information submitted by the project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in the Dkey invalidates this letter. Answers to certain questions in the Dkey commit the project proponent to implementation of conservation measures that must be followed for the ESA determinations to remain valid. Carefully review this letter, your ESA requirements are <u>NOT</u> yet complete.

Determinations:

Based on the information you provided (Project Description shown below), you have determined that the Project is within the scope and adheres to the criteria of the PBO/PCO, including the adoption of applicable avoidance and minimization measures. Based on your IPaC submission and the PBO/PCO, the Project is consistent with the following effect determinations:

Species	Listing Status	Determination
Indiana Bat (*Myotis sodalis*)	Endangered	NLAA

The tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can confer under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a no effect or not likely to adversely affect (NLAA) determination from the key to confirm that the determination is still accurate.

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Project does not meet the criteria for a NLAA determination under the PBO/PCO. **If the Service does not notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Project under the terms of the NLAA concurrence provided in the PBO/PCO**. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances, Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO/PCO.

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

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

If your initial bridge, culvert, or structure assessment failed to detect Indiana bat, northern long-eared bat, or tricolored bat use or occupancy, yet bats are later detected prior to, or during construction, promptly notify the local Service Field Office within 2 working days of the discovery. In addition, please document whether incidental take occurred, and if so, the type (i.e. kill or harm) and amount (i.e. number of individuals) and submit documentation to the local Service Field Office within 5 working days from the completion of the bridge, culvert, or structure construction (use Appendix E - Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form in the User's Guide). In these instances, potential incidental take of Indiana bats, northern long-eared bats, or tricolored bats may be exempted provided that the take is reported to the Service. In these instances, potential incidental take of Indiana bats, northern long-eared bats, or tricolored bats may be exempted provided that the take is reported to the Service.

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

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

- Monarch Butterfly *Danaus plexippus* Proposed Threatened
- Whooping Crane *Grus americana* Experimental Population, Non-Essential

PROJECT DESCRIPTION

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

NAME

SR 227 Small Structures Improvement Project (Des. 2200507)

DESCRIPTION

The State Road (SR) 227 Small Structures Improvement Project (Des. No. 2200507) is located along SR 227, from 4.60 miles north of SR 121 to 7.86 miles north of SR 121 in Richmond, Wayne County, Indiana. More specifically, the project is located in Sections 1, 2, 11, 12, 25, 26, 25, and 36, Townships 14 and 15 North, and Range 1 West on the United States Geological Survey (USGS) 7.5 Whitewater Indiana topographic quadrangle.

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A review of the USFWS database on March 19, 2025 did not indicate the presence of endangered bat species within a half mile of the project area. Land use in the vicinity of the project is primarily agricultural and residential. There is suitable bat habitat including trees and brush located within and adjacent to the project area. Construction is anticipated to begin in Spring 2027 and last for a duration of 6-7 months. No permanent lighting will be installed for this project. Temporary lighting may be needed during construction should the project require it.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.909906649999996,-84.83170269648078,14z



DETERMINATION KEY RESULT

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the Indiana bat, northern long-eared bat or tricolored bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 et seq.) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the Programmatic Biological Opinion/Conference Opinion for Transportation Projects in the Range of the Indiana bat, northern long-eared bat, and tricolored bat, dated December 13, 2024.

QUALIFICATION INTERVIEW

1. Which Federal Agency is the lead federal agency the action?

   A) Federal Highway Administration (FHWA)

2. Does the Action Area intersect the species list area of the Indiana bat?

   Automatically answered
   Yes

3. Is the project within 0.5 miles radius of an entrance/opening to any known Indiana bat hibernaculum?

   No

4. [Semantic] Is any portion of the action area within a 0.5 mile radius of an entrance/opening to any known NLEB or TCB hibernacula?

   Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact the Field Office listed in the letterhead of this letter.

   Automatically answered
   No

5. Does your project's activities include raising the road profile above the tree canopy in documented habitat for the Indiana bat, NLEB, or TCB?

   Note: For the definition of documented habitat, refer to Appendix A: https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat

   No

6. Is your project located within a karst area?

   No

7. Will the project include bridge, culvert, or structure removal, replacement, and/or alteration activities?

   Note: For definitions of bridge, culvert, and structure, refer to Appendix A: https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat.

   Yes

8. Do your project's activities involve tree removal/trimming, temporary lighting, new/additional permanent lighting, ground disturbance, percussives that involves noise/vibration above existing background levels, vibrations, or slash pile burning?

   Yes

9. Is there suitable summer habitat for the Indiana bat, NLEB, or TCB within the project action area?

   Note: See the Service's summer survey guidance for current definitions of suitable habitat [https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html].

   Yes

10. Have P/A surveys for the Indiana bat, NLEB, or TCB been conducted within the suitable summer habitat located within your project action area? This refers to mist-netting or acoustic surveys, not bridge assessments.

    Note: See the Service's survey guidance https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html

    No

11. Will the project involve the removal or trimming of trees within suitable habitat for the Indiana bat, NLEB, or TCB?

    Yes

12. Will any tree removal or trimming occur during the bat pup season?

    Note: For more information about bat pup seasons please visit https://www.fws.gov/sites/default/files/documents/2024-10/2024_usfws_rangewide_ibat-nleb_survey_guidelines.pdf

    No

13. Will the removal or trimming of trees occur **within documented habitat** for the Indiana bat, NLEB, or TCB?

    Note: For the definition of documented habitat, refer to Appendix A: https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat

    No

14. Will all tree removal or trimming occur within 100 feet of the road or rail surface?

    Yes

15. Does your project include activities involving the temporary or permanent exclusion of Indiana bats, NLEBs, or TCBs from a bridge/culvert or structure?

    Note: exclusion is conducted to deny bats' entry or reentry into a bridge/culvert or structure. To be effective and to avoid harming bats, it should be done according to established standards.

    No

16. Does your project involve the use of temporary lighting within Indiana bat, NLEB, or TCB suitable habitat?

    Note: For the definition of lighting, refer to Appendix A: https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat

    Yes

17. Will the use of temporary lighting be conducted during the Indiana bat, NLEB, or TCB active season?

    Yes

18. Will temporary lighting be directed away from Indiana bat, NLEB, or TCB suitable habitat)?

    Yes

19. Will the project substantially increase baseline light conditions via the use of permanent lighting (replacement or new/additional) in suitable habitat.

    No

20. Will your project include percussive activities?

    Note: Refer to Stressor #2 Noise/Vibration on page 109 of the PBO/PCO.

    No

21. Will the project include **bridge** removal, replacement, and/or alteration activities?

    No

22. Does the project include **culvert** removal, replacement, and/or alteration activities?

    Yes

23. Is there any suitable habitat for the Indiana bat or NLEB within 1,000 feet of the **culvert** (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)?

    Yes

24. Does the culvert equal or exceed 23 feet (7.0 meters) in length?

    Yes

25. Are the interior dimensions of the culvert less than 4 ft in diameter/height?

    Yes

26. Does the project include **structure** removal, replacement, and/or alteration activities?

    No

27. Will the project involve the removal or trimming of more than 20 acres of Indiana bat, NLEB, or TCB suitable habitat per 5-mile section of road/rail?

    No

28. Will the removal or trimming of trees occur within 0.5 miles of a known Indiana bat, NLEB, or TCB hibernaculum?

    No

29. Will the removal or trimming of these trees occur during the active season?

    No

30. Will the removal or trimming of trees occur **beyond 100 feet** of the existing road/rail surfaces?

    No

31. Does the Action Area intersect the species list area of the Indiana bat?

    Automatically answered
    Yes

32. Does the Action Area intersect the species list area of the tricolored Bat (TCB)?

    Automatically answered
    No

PROJECT QUESTIONNAIRE

1. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the inactive season (NLAA)?

   Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0.170

2. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the active season **(outside the pup season and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas)** (LAA)?

   Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0

3. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the pup season **(trees must be <9 in DBH, and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas)** (LAA)?

   Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0

4. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB between 100-300 feet of the existing road/rail surface during the inactive season (LAA)? Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0

5. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB between 100-300 feet of the

existing road/rail surfaces during the active season **(outside the pup season, and not between Dec 15-Feb 15 in Zone 1 of the NLEB and TCB YR active areas)** (LAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

6. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB beyond 300 feet of the existing road/rail surfaces during the inactive season (LAA)?

   Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0

7. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB beyond 300 feet of the existing road/rail surfaces during the active season **(outside the pup season, and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas)** (LAA)?

   Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

   0

AVOIDANCE AND MINIMIZATION MEASURES (AMMS)

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

GAMM1
Ensure all operators, employees, and contractors working in areas of Indiana bat, NLEB, or TCB suitable habitat are aware of all Transportation Agency environmental commitments, including all applicable AMMs.

LAMM1
Direct temporary lighting away from suitable habitat during the active season

TRTAMM1
Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to the extent practicable to avoid tree removal/trimming in excess of what is required to implement the project safely.

TRTAMM2
Ensure tree removal/trimming 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 removal/trimming to ensure contractors stay within clearing limits

TRTAMM3
Ensure tree removal/trimming is limited to the inactive season, occurs within 100 ft of the road/rail surface, and is outside of documented habitat for the Indiana bat, NLEB, and TCB

DETERMINATION KEY DESCRIPTION: FHWA, FRA, FTA PROGRAMMATIC CONSULTATION FOR TRANSPORTATION PROJECTS AFFECTING IBAT, NLEB, OR TCB

This key was last updated in IPaC on July 21, 2025. Keys are subject to periodic revision.

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

This decision key should only be used to verify project applicability with the Service's Programmatic Biological Opinion/Conference Opinion for Transportation Projects in the Range of the Indiana bat, northern long-eared bat, and tricolored bat, dated December 13, 2024. The programmatic consultation limited transportation activities that may affect the covered bat species and addresses situations that are both likely and not likely to adversely affect the covered bat species. This decision key will assist in identifying the effect of a specific project/activity and the applicability of the programmatic consultation. The programmatic consultation is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic consultation, or that may affect ESA-listed species other than the Indiana bat, northern long-eared bat, or tricolored bat, or their designated critical habitat, may require additional ESA Section 7 consultation.

IPAC USER CONTACT INFORMATION

Agency: Indiana Department of Transportation
Name: Delaney Weston
Address: 32 S Broadway
City: Greenfield
State: IN
Zip: 46140
Email dweston@indot.in.gov
Phone: 3176462392

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

Appendix D: Section 106 of NHPA

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: 9/16/2025 **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):

Doug Fivecoat, M.A.
Weintraut & Associates, Inc.
PO Box 5034
Zionsville, IN 46077
dfivecoat@weintrautinc.com
317-733-9770

Project Designation Number: 2200507

Route Number: State Road (SR) 227

Feature crossed (if applicable): Varies (storm water drainage)

City/Township: Wayne and Franklin Townships **County:** Wayne County

Project Description: The proposed project areas are located along State Road (SR) 227 in Wayne County, Indiana. This section of SR 227 is functionally classified as a Major Collector and has a posted speed limit of 45 miles per hour (mph). The existing typical roadway section of SR 227 consists of two, 10-foot-wide travel lanes (one northbound and one southbound) with no shoulders. Drainage along the roadway is conveyed through existing open roadside ditches and small structures throughout the project corridor. The existing apparent right-of-way along SR 227 varies from 25 to 35 feet east and west from the centerline of the roadway.

The current proposed project would consist of the replacement of 19 small structures and ditch work along this section of SR 227. (Please refer to the summary table below.) It is anticipated that the proposed project would require the acquisition of approximately 0.777 acre of permanent right-of-way (ROW). The acquisition of approximately 0.091 acre of temporary ROW is anticipated for this project. No relocations are anticipated as a result of the proposed project. Maintenance of traffic for the project would include a detour route utilizing I-70, US 27, and US 36. Access would be maintained to all residences and businesses throughout construction. Construction is anticipated to begin in Spring 2027. (see attached plans.)

Plan Str. No. / Culvert ID No. (South to North)	Location	Type	Diameter (inches)	Condition Rating	Deficiencies
101 / CV 227-089-17.97	0.02 mile north of Filby Road	Corrugated metal pipe (CMP)	15	5 (Fair)	Rusted, Section Loss
102 / CV 227-089-18.08	0.14 mile north of Filby Road	CMP	15	3 (Poor)	Rusted, Section Loss
103 / CV 227-089-18.11	0.16 mile north of Filby Road	CMP	15	3 (Poor)	Rusted, Section Loss
104 / CV 227-089-18.21	0.26 mile north of Filby Road	CMP	24	3 (Poor)	Rusted, Section Loss, Filled with asphalt
105 / CV 227-089-18.49	0.21 mile south of Inke Road	CMP	15	1 (Failing)	Unable to inspect, full of debris
106 / CV 227-089-18.58	0.11 mile south of Inke Road	CMP	15	6.5 (Satisfactory)	N/A
107 / CV 227-089-18.69	At the intersection of SR 227 and Inke Road	CMP	18	6.5 (Satisfactory)	N/A
108 / CV 227-089-18.84	0.15 mile north of Inke Road	CMP	15	6.5 (Satisfactory)	N/A
109 / CV 227-089-19.10	0.41 mile north of Inke Road	CMP	36	7 (Good)	N/A
110 / CV 227-089-19.34	0.65 mile north of Inke Road	CMP	30	5 (Fair)	Rusted, Section Loss
111 / CV 227-089-19.48	0.76 mile south of Wallace Road	CMP	30	4 (Poor)	Rusted, Section Loss, Sinkhole in Embankment
112 / CV 227-089-19.83	0.41 mile south of Wallace Road	CMP	18	5 (Fair)	N/A
113 / CV 227-089-19.88	0.36 mile south of Wallace Road	CMP	15	7 (Good)	N/A
114 / CV 227-089-19.99	0.25 mile south of Wallace Road	CMP	18	4 (Poor)	Rusted, Section Loss
115 / CV 227-089-20.07	0.17 mile south of Wallace Road	CMP	15	5 (Fair)	N/A

116 / CV 227-089-20.53	0.29 mile north of Wallace Road	CMP	15	7 (Good)	N/A
117 / CV 227-089-20.61	0.36 mile north of Wallace Road	CMP	24	7 (Good)	N/A
118 / CV 227-089-21.20	0.08 mile north of Whitewater Road	CMP	36	3 (Poor)	N/A
119 / CV 227-089-20.23	At the intersection of SR 227 and Wallace Road	CMP	15	6.5 (Satisfactory)	N/A

If the project includes any curb, curb ramp, or sidewalk work, please specify the location(s) of such work:
None

For bridge or small structure projects, please list feature crossed, structure number, NBI number, and structure type:

Feature Crossed	Structure No.	NBI Number	Structure Type
Stormwater drainage	**CV 227-089-17.97**	CLV-37461	CMP (corrugated metal pipe)
Stormwater drainage	**CV 227-089-18.08**	CLV-37471	CMP
Stormwater drainage	**CV 227-089-18.11**	CLV-37477	CMP
Stormwater drainage	**CV 227-089-18.21**	CLV-37483	CMP
Stormwater drainage	CV 227-089-18.49	CLV-37487	CMP
Stormwater drainage	CV 227-089-18.58	CLV-37493	CMP
Stormwater drainage	CV 227-089-18.69	CLV-37497	CMP
Stormwater drainage	CV 227-089-18.84	CLV-37503	CMP
Stormwater drainage	CV 227-089-19.10	CLV-37505	CMP
Stormwater drainage	**CV 227-089-19.34**	CLV-37525	CMP
Stormwater drainage	**CV 227-089-19.48**	CLV-1128	CMP
Stormwater drainage	CV 227-089-19.83	CLV-37549	CMP
Stormwater drainage	CV 227-089-19.88	CLV-37553	CMP
Stormwater drainage	**CV 227-089-19.99**	CLV-1129	CMP
Stormwater drainage	CV 227-089-20.07	CLV-37571	CMP
Stormwater drainage	CV 227-089-20.53	CLV-37595	PP (Plastic Pipe)
Stormwater drainage	CV 227-089-20.61	CLV-37599	PP
Stormwater drainage	**CV 227-089-21.20**	CLV-45614	CMP
Stormwater drainage	CV 227-089-20.23	CLV-37579	CMP

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**

Note*: ROW totals have been updated since MPPA approval. There is now a total acquisition of 3.526 acre of permanent ROW and 0.052 acre of temporary ROW required for this project. All ROW areas are covered by the Phase 1a Archaeological Survey.

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:

The project is anticipated to require 3.353 acres of permanent ROW (2.236 ac. of which is anticipated to be re-acquisition) and 0.011 acre of temporary ROW (see attached plans for ROW locations).*

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-9. Installation, replacement, repair, lining, or extension of culverts and other drainage structures under the conditions listed below ***[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)
One of the conditions below must be met *(EITHER Condition i or Condition ii must be satisfied)*:
i. Work does not involve installation of a new culvert and other drainage structure, and there are no impacts to unusual features, including but not limited to historic brick or stone sidewalks, curbs, or curb ramps,

stepped or elevated sidewalks and retaining walls, under one of the following conditions *(Condition a, Condition b, or Condition c must be satisfied)*:

a. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*
b. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*
c. The structure exhibits non-modern wood, stone, or brick structures or parts therein and the following conditions are met *(BOTH Condition 1 AND Condition 2 must be met):*
   1. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
   2. The structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.

ii. Work involves the installation of a new culvert and other drainage structures AND/OR there may be impacts to unusual features, including historic brick or stone sidewalks, curbs, or curb ramps, stepped or elevated sidewalks and retaining walls, under the following conditions *(BOTH Condition a and Condition b must be satisfied)*:

a. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
b. The subject structure exhibits one of the characteristics described below *(Condition 1, Condition 2 or Condition 3 must be satisfied)*.
   1. The structure exhibits no wood, stone, or brick structures or parts therein; *OR*
   2. The structure exhibits only modern wood, stone, or brick structures or parts therein; *OR*

3. The structure exhibits non-modern wood, stone, or brick structures or parts therein but lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.

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):

Goldbach, Jason

2025 Phase Ia Archaeological Reconnaissance for the Proposed Small Structures and Drains Construction along SR 227 from 4.60 miles north of SR 121 (Northern City Limit of Middleboro) to 7.86 miles north of SR 121 (Southern City Limit of Whitewater) in Wayne County, Indiana (INDOT Des. No.: 2200507). Report on file, Indiana Department of Transportation, Cultural Resources Office, Indianapolis, IN.

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:

Above-ground Resources

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 Wayne County. No listed resources are present immediately adjacent to the project area, a distance that serves as an adequate area of potential effects given the project scope and terrain.

The National Register & IHSSI information for Wayne County is available in the Indiana State Historic Architectural and Archaeological Research Database (SHAARD) and the Indiana Historic Buildings, Bridges, and Cemeteries Map (IHBBCM). The *Wayne County Interim Report* (2001; Wayne and Franklin Township) was also consulted. The IHBBCM contains the most up to date IHSSI information. No IHSSI documented resources are located immediately adjacent to the project area.

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.

The INDOT-CRO historian reviewed the project area utilizing online aerial, street-view photography, and the Wayne County GIS website. The project area is located in a rural setting and is surrounded by agricultural fields. The building stock immediately adjacent to the project area consists of early to late twentieth century residential buildings. None of these structures appear to possess either the age or the integrity and/or significance necessary to be considered National Register-eligible.

Regarding the drainage structures, they are all small-bore CMP or plastic pipes that convey stormwater runoff. The structures were reviewed through consultant provided photographs. These photographs confirm the structures do not exhibit any wood, stone, or brick structures or parts therein. Additionally, the structures do not appear to possess any historical or engineering significance.

Based on the available information, as summarized above, no above-ground concerns exist.

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 archaeological reconnaissance submitted by Weintraut & Associates on behalf of American Structurepoint (Goldbach 2025).

A 6.8-acre survey area was examined through a combination of systematic shovel probing in 15 m intervals and visual inspection of disturbed areas. The area encompassing SR 227 has been previously disturbed from the construction of the state road, existing culverts with associated drainages, embankments, residential infrastructure, gravel driveways, retention ponds, and buried utilities. Two archaeological sites, 12WY577 and 12WY578, were documented as a result of the survey. Site 12WY577 is a low-density historical/precontact artifact scatter and 12WY578 is an isolated find. Both sites lack significant deposits within the survey area and cannot produce additional information beyond what has already been gathered. Therefore, no further work is recommended (Goldbach 2025).

Therefore, there are no archaeological concerns as long as the project scope and footprint do not change.

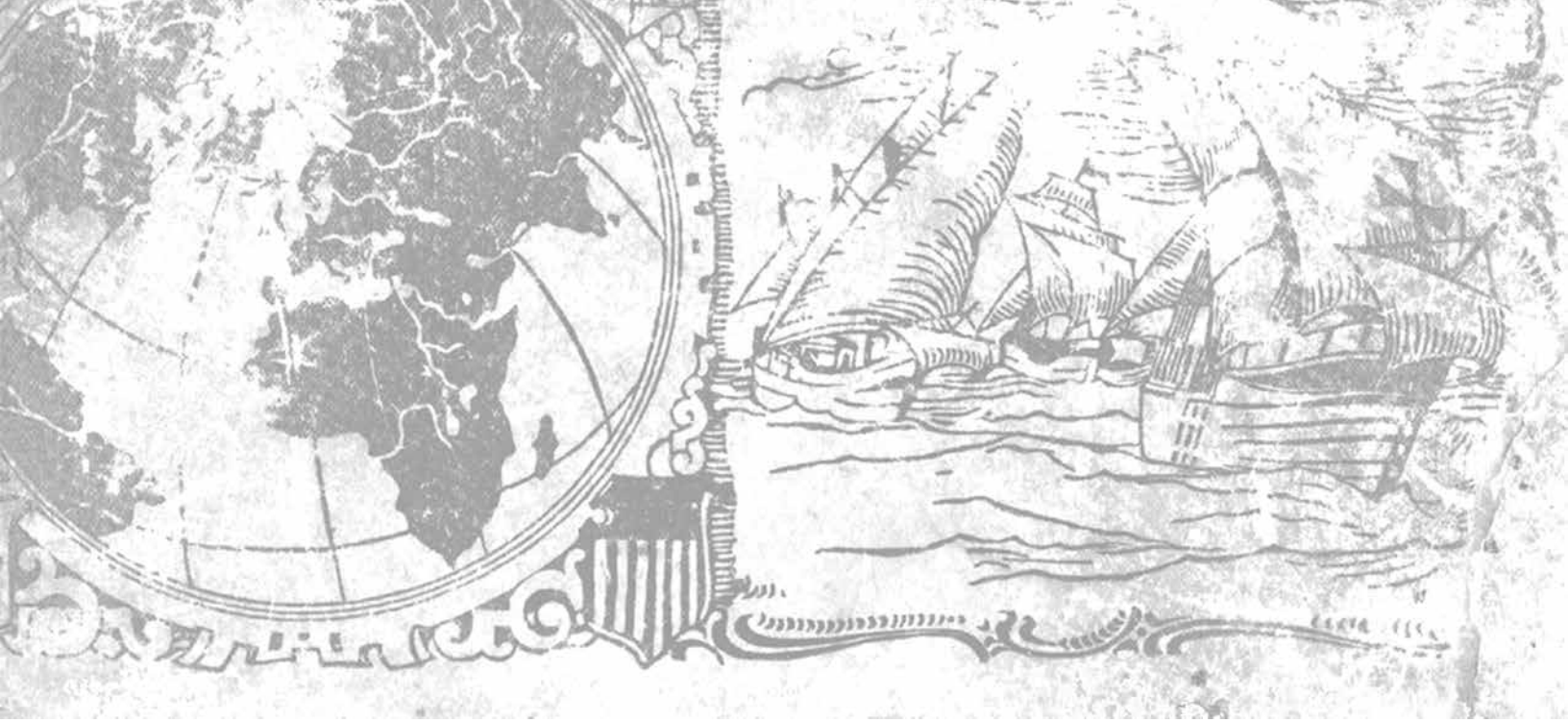
Accidental Discovery: If any archaeological artifacts or human remains are uncovered during construction, demolition, or earth moving activities, construction within 100 feet of the discovery will be stopped, and INDOT-CRO and the Indiana Department of Natural Resources-Division of Historic Preservation and Archaeology (IDNR-DHPA) will be notified immediately.

INDOT-CRO staff reviewer(s): Clint Kelly, KayLee Blum, and Matt Coon

INDOT Approval Date: February 2, 2026

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.*



Phase Ia Archaeological Field Reconnaissance:

Small Structures and Drains Construction along SR 227 from 4.60 miles north of SR 121 (Northern City Limit of Middleboro) to 7.86 miles north of SR 121 (Southern City Limit of Whitewater) in Wayne County, Indiana.

Des. No.: 2200507

Prepared for:

American Structurepoint, Inc.

Federal Highway Administration/Indiana Department of Transportation

Prepared by:

Weintraut & Associates, inc.

Principal Investigator: Jason Goldbach, M.A.

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

September 15, 2025

Conclusions and Recommendations

At the request of Structurepoint, W&A conducted Phase Ia archaeological investigations to meet requirements of Section 106 of the National Historic Preservation Act (1966), as amended, and 36 CFR Part 800 (2016), for the proposed Small Structures and Drains Construction along SR 227 from 4.60 miles north of SR 121 (NCL of Middleboro) to 7.86 miles north of SR 121 (SCL Whitewater) in Wayne County, Indiana (Des No.: 2200507). Since this project is receiving federal funding, a Phase Ia reconnaissance was completed for a survey area totaling 2.74 ha (6.8 ac). During the field reconnaissance, W&A recorded two new archaeological sites: 12WY577, a low-density historical/precontact artifact scatter, and 12WY578, a precontact isolated find.

Sites 12WY577 and 12WY578 both lack significant deposits within the survey area. Due to the lack of significant deposits, W&A recommends no further investigation for the portions of these sites within the survey area. However, if the project area limits are expanded, additional Phase Ia archaeological field reconnaissance would be required.

Appendix E: Red Flag and Hazardous Materials

INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758
Indianapolis, Indiana 46204

PHONE: (855) 463-6848

Mike Braun, Governor
Lyndsay Quist, Commissioner

Date: May 7, 2025

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: Macy Trotter
American Structurepoint, Inc.
9025 River Road, Suite 200
Indianapolis, IN
mtrotter@structurepoint.com

Re: HYBRID RED FLAG INVESTIGATION
DES # 2200507, State Project
Small Structure Improvements
State Road (SR) 227, from 4.60 Miles North of SR 121 to 7.86 Miles North of SR 121
Wayne County, Indiana

PROJECT DETAILS

The proposed project is located along SR 227, beginning 4.60 miles north of SR 121 to 7.86 miles north of SR 121 in Richmond, Wayne County Indiana. The project proposes the replacement of nineteen small structures listed in the table below. Additionally, ditch grading will occur throughout the project areas and riprap will be placed for scour protection as needed. Excavation in ditching locations throughout the project areas range from 1' to a maximum depth of 4.5' while accounting for riprap. No work outside of the culvert replacements and ditch grading is proposed, therefore a request to complete a Hybrid RFI was submitted to INDOT Greenfield District on March 7, 2025 and approval was received on March 7, 2025.

Structure # (South to North)	Depth of Excavation(feet below ground surface (ft-bgs))
CV 227-089-17.97	6
CV 227-089-18.08	6
CV 227-089-18.11	6
CV 227-089-18.21	7
CV 227-089-18.49	7
CV 227-089-18.58	7
CV 227-089-18.69	6.5
CV 227-089-18.84	6.5

Structure # (South to North)	Depth of Excavation(feet below ground surface (ft-bgs))
CV 227-089-19.10	10.5
CV 227-089-19.34	7
CV 227-089-19.48	14
CV 227-089-19.83	6.5
CV 227-089-19.88	5
CV 227-089-19.99	9
CV 227-089-20.07	7
CV 227-089-20.23	6
CV 227-089-20.53	7
CV 227-089-20.61	8.5
CV 227-089-21.20	8.5

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) See Table Above

Proposed right of way: Temporary ☐ # Acres _____ Permanent ☒ # Acres > 0.5 Not Applicable ☐

Type and proposed depth of excavation: See table above.

Maintenance of traffic (MOT): Maintenance of traffic will include a detour route utilizing I-70, US 26, and US 30.

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

State Project: ☒ **LPA**: ☐

Anticipated NEPA document level: CE 1

Any other factors influencing recommendations: N/A

INFRASTRUCTURE TABLE AND SUMMARY

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

Religious Facilities	**N/A**	Recreational Facilities	**N/A**
Airports[1]	**N/A**	Pipelines	**N/A**
Cemeteries	**2**	Railroads	**N/A**
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: No infrastructure resources were identified that will impact the project area.

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:			
Karst Springs	**N/A**	NWI - Wetlands	**46**
Canal Structures – Historic	**N/A**	Lakes	**17**
NPS NRI Listed	**N/A**	Floodplain - DFIRM	**4**
IDEM 303d Listed Streams and Lakes (Impaired)	**1**	Cave Entrance Density	**N/A**
Rivers and Streams	**100**	Sinkhole Areas	**N/A**
Canal Routes - Historic	**N/A**	Sinking-Stream Basins	**N/A**

*Direct coordination with INDOT ESD Ecology, Waterway Permitting and stormwater will occur on all water resources except for the IDEM 303d Listed Streams and Lakes (Impaired).

Explanation:

CV 227-089-18.69

Rivers and Streams: Two (2) stream segments, Middle Brook, are located adjacent to the north of the CV 227-089-18.69 project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD Ecology, Waterway Permitting, and Stormwater (EWSPO) will occur.

CV 227-089-18.48

Rivers and Streams: One (1) stream segment, an unnamed tributary, is located adjacent to the north of the CV 227-089-18.48 project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD EWSPO will occur.

Ditching Area 3

Rivers and Streams: Two (2) stream segments associated with an unnamed tributary, are located adjacent to the north of the Ditching Area 3 project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD EWSPO will occur.

CV 227-089-20.23

Rivers and Streams: Two (2) stream segments associated with an unnamed tributary, are located adjacent to the south of the CV 227-089-20.23 project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD EWSPO will occur.

Ditching Area 4

Rivers and Streams: One (1) stream segment, Black Brook, is located adjacent to the north of the Ditching Area 4 project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD EWSPO will occur.

CV 227-089-20.61

Rivers and Streams: One (1) stream segment, an unnamed tributary, is located within the CV 227-089-20.61 project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD EWSPO will occur.

NWI Wetlands: One (1) wetland polygon is located within the CV 227-089-20.61 project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD EWSPO will occur.

CV 227-089-19.10

NWI Wetlands: One (1) wetland polygon is located adjacent to the east of the CV 227-089-19.10 project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD EWSPO will occur.

Lakes: One (1) lake polygon is located within the CV 227-089-19.10 project area. A Waters of the US Report is recommended based on mapped features, and coordination with INDOT ESD EWSPO will occur.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	**1**	Mineral Resources	**N/A**
Mines – Surface	**N/A**	Mines – Underground	**N/A**

Explanation: No mining and mineral exploration resources were identified that will impact the project area.

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**	Open Dump Waste Sites	**N/A**
RCRA Generator/ TSD	**N/A**	Restricted Waste Sites	**N/A**
RCRA Corrective Action Sites	**N/A**	Waste Transfer Stations	**N/A**
State Cleanup Sites	**N/A**	Tire Waste Sites	**N/A**
Septage Waste Sites	**N/A**	Landfill Boundaries	**N/A**
Underground Storage Tank (UST) Sites	**N/A**	Confined Feeding Operations (CFO)	**N/A**
Voluntary Remediation Program	**N/A**	Brownfields	**N/A**
Construction Demolition Waste	**N/A**	Notice of Contamination Sites	**N/A**
Solid Waste Landfill	**N/A**	Institutional Controls	**N/A**
Infectious/Medical Waste Sites	**N/A**	NPDES Facilities	**1**
Leaking Underground Storage (LUST) Sites	**1**	NPDES Pipe Locations	**3**
Manufactured Gas Plant Sites	**N/A**		

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

Explanation: No hazardous material concerns were identified that will impact the project area.

ECOLOGICAL INFORMATION SUMMARY

The Wayne County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is provided at (https://www.in.gov/dnr/nature-preserves/files/np_wayne.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 project area is in a mixed area consisting of residential and agricultural land. 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".

Evidence of Birds in Bridge Report: Yes ☐ No ☐ N/A ☒
*If yes, further coordination with INDOT Ecology, Waterway Permitting, and Stormwater Office may be necessary.

RECOMMENDATIONS SECTION

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

INFRASTRUCTURE: N/A

WATER RESOURCES:
Direct coordination with INDOT ESD Ecology, Waterway Permitting, and Stormwater Office will occur on all water resources except for the IDEM 303d Listed Streams and Lakes (Impaired).

A Waters of the US Report is recommended based on the presence of mapped features, and coordination with INDOT ESD EWPSO will occur for the following features:

- Seven (7) stream segments are located within or adjacent to the project areas (CV 227-089-18.69, CV 227-089-18.48, CV 227-089-20.23, CV 227-089-20.61, Ditching Area 3, Ditching Area 4)
- Two (2) wetland polygons are located within or adjacent to the project areas (CV 227-089-20.61, CV 227-089-19.10)
- One (1) lake polygon is located within the project area (CV 227-089-19.10)

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

ECOLOGICAL INFORMATION: Coordination with IDNR and USFWS 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".

Prepared by: _____(Signature)
Macy Trotter
Environmental Specialist
American Structurepoint Inc.

QA/QC Completed by: Alyssa Kern (Signature)
Alyssa Kern
Senior Environmental Specialist
American Structurepoint Inc.

INDOT ESD concurrence: Dariane Davis Digitally signed by Dariane Davis Date: 2025.05.07 09:35:35 -04'00' (Signature)

Graphics:

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

SITE LOCATION: YES

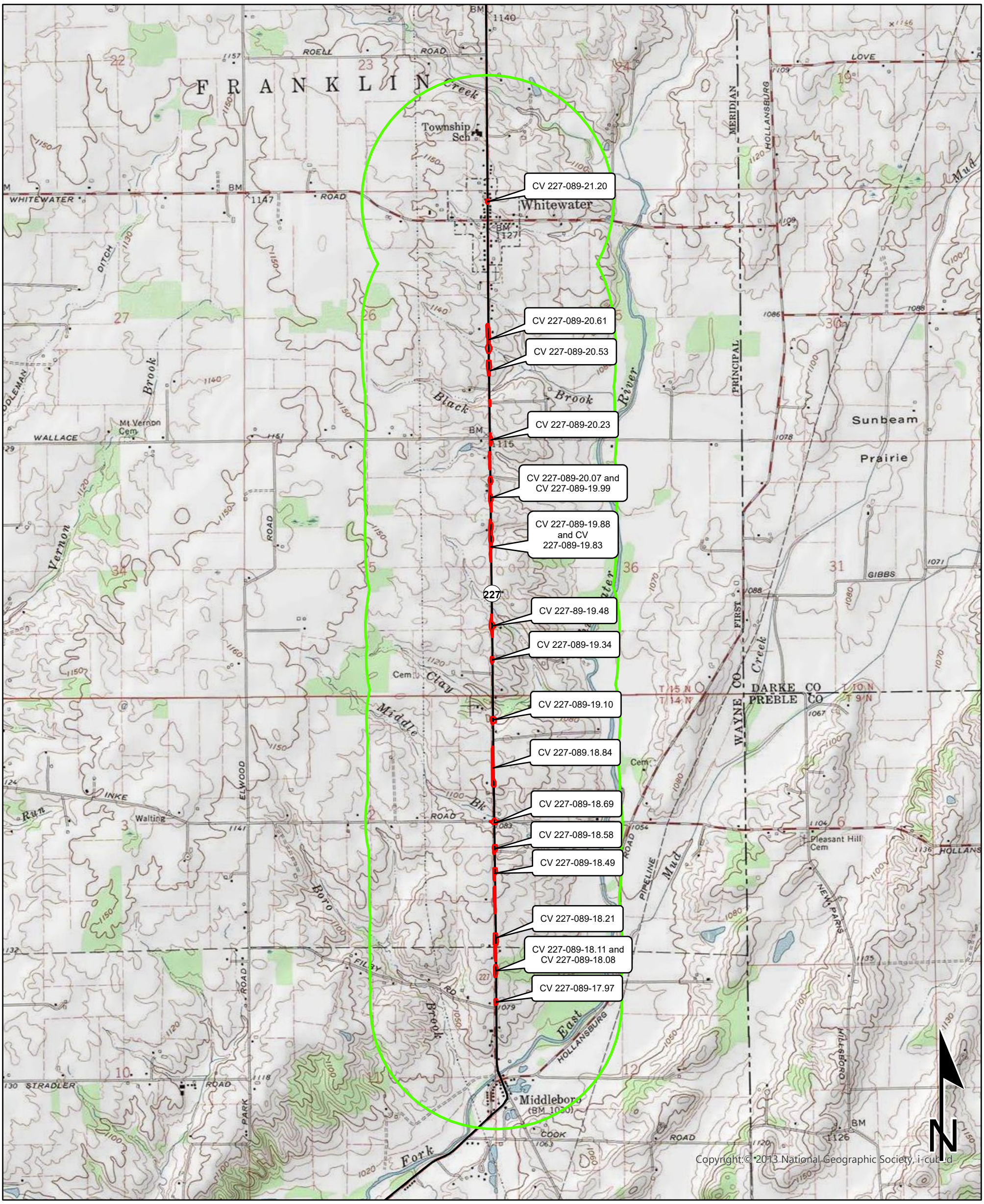
INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: YES

Red Flag Investigation - Site Location
SR 227, from 4.60 Miles North of SR 121 to 7.86 Miles North of SR 121
Des. No. 2200507, Small Structures Improvement
Wayne County, Indiana



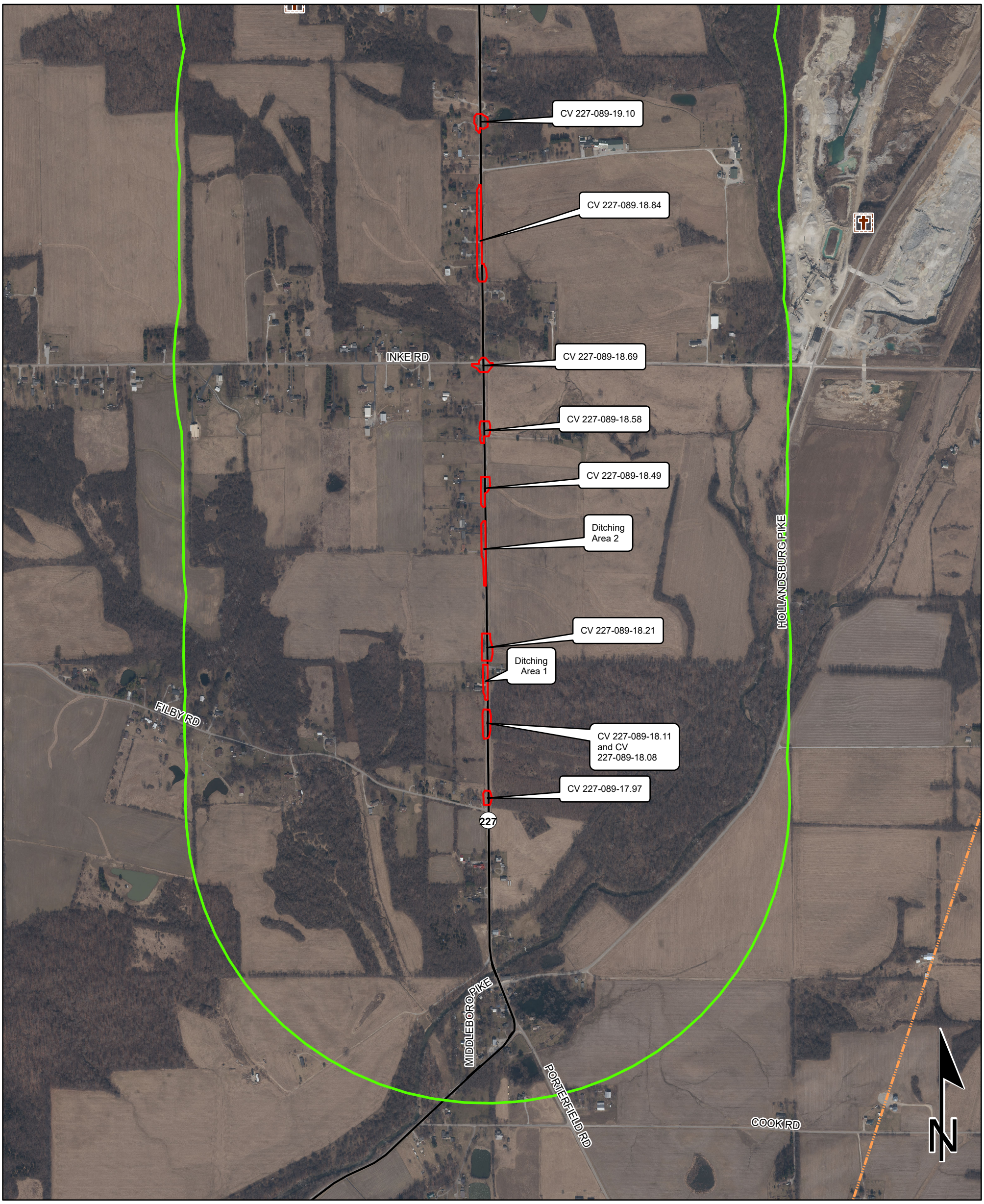
0.45 0.23 0 0.45 Miles

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.

WHITEWATER QUADRANGLE
INDIANA
7.5 MINUTE SERIES
(TOPOGRAPHIC)

Red Flag Investigation - Infrastructure (Map 1 of 2)
SR 227, from 4.60 Miles North of SR 121 to 7.86 Miles North of SR 121
Des. No. 2200507, Small Structures Improvement
Wayne County, Indiana



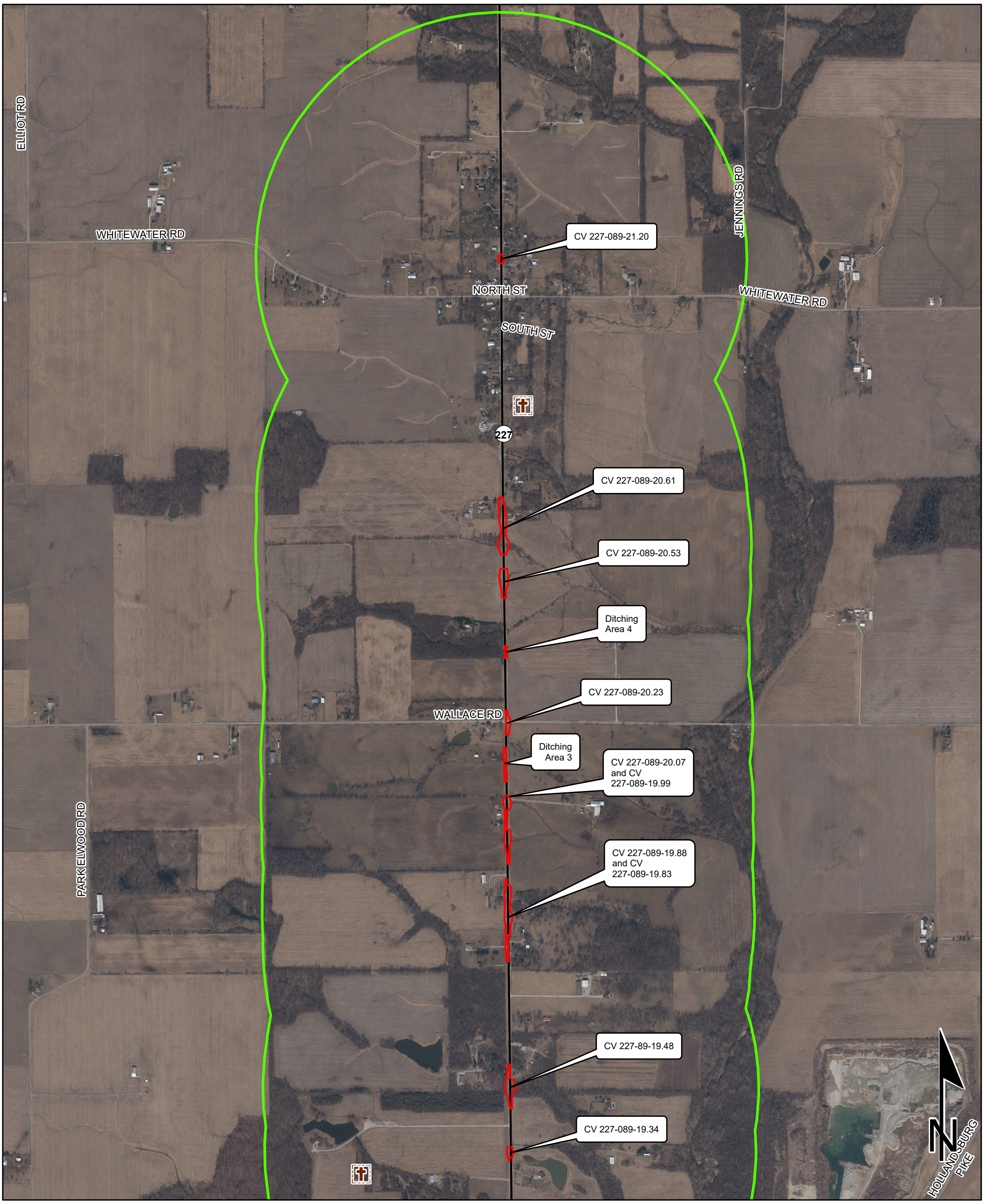
0.2 0.1 0 0.2 Miles

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
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- 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 - Infrastructure (Map 2 of 2)
SR 227, from 4.60 Miles North of SR 121 to 7.86 Miles North of SR 121
Des. No. 2200507, Small Structures Improvement
Wayne County, Indiana



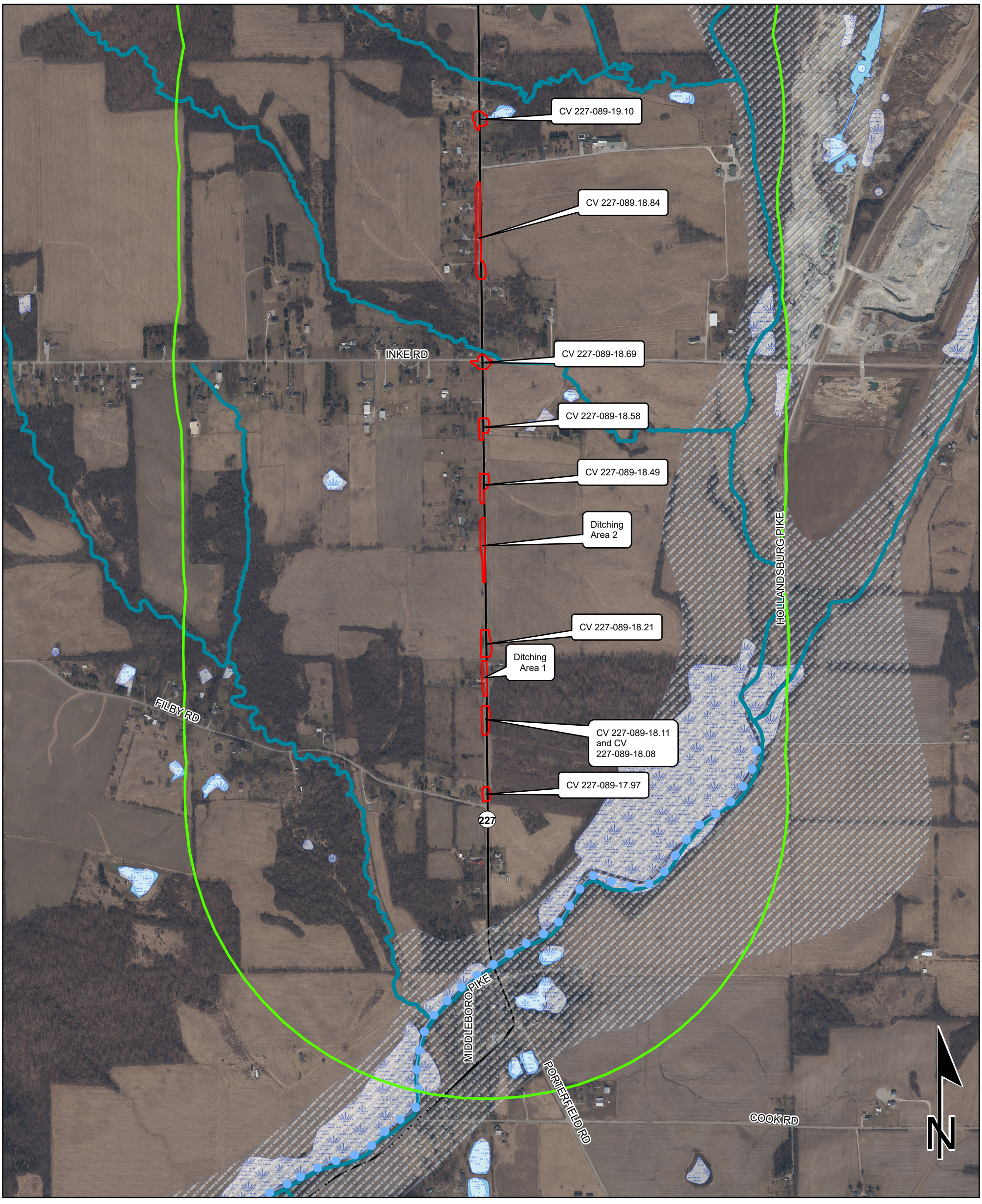
0.2 0.1 0 0.2 Miles

Sources:
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
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- Managed Lands
- County Boundary
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- Half Mile Radius
- Toll
- Interstate
- State Route
- US Route
- Local Road

Red Flag Investigation - Water Resources (Map 1 of 2)
SR 227, from 4.60 Miles North of SR 121 to 7.86 Miles North of SR 121
Des. No. 2200507, Small Structures Improvement
Wayne County, Indiana



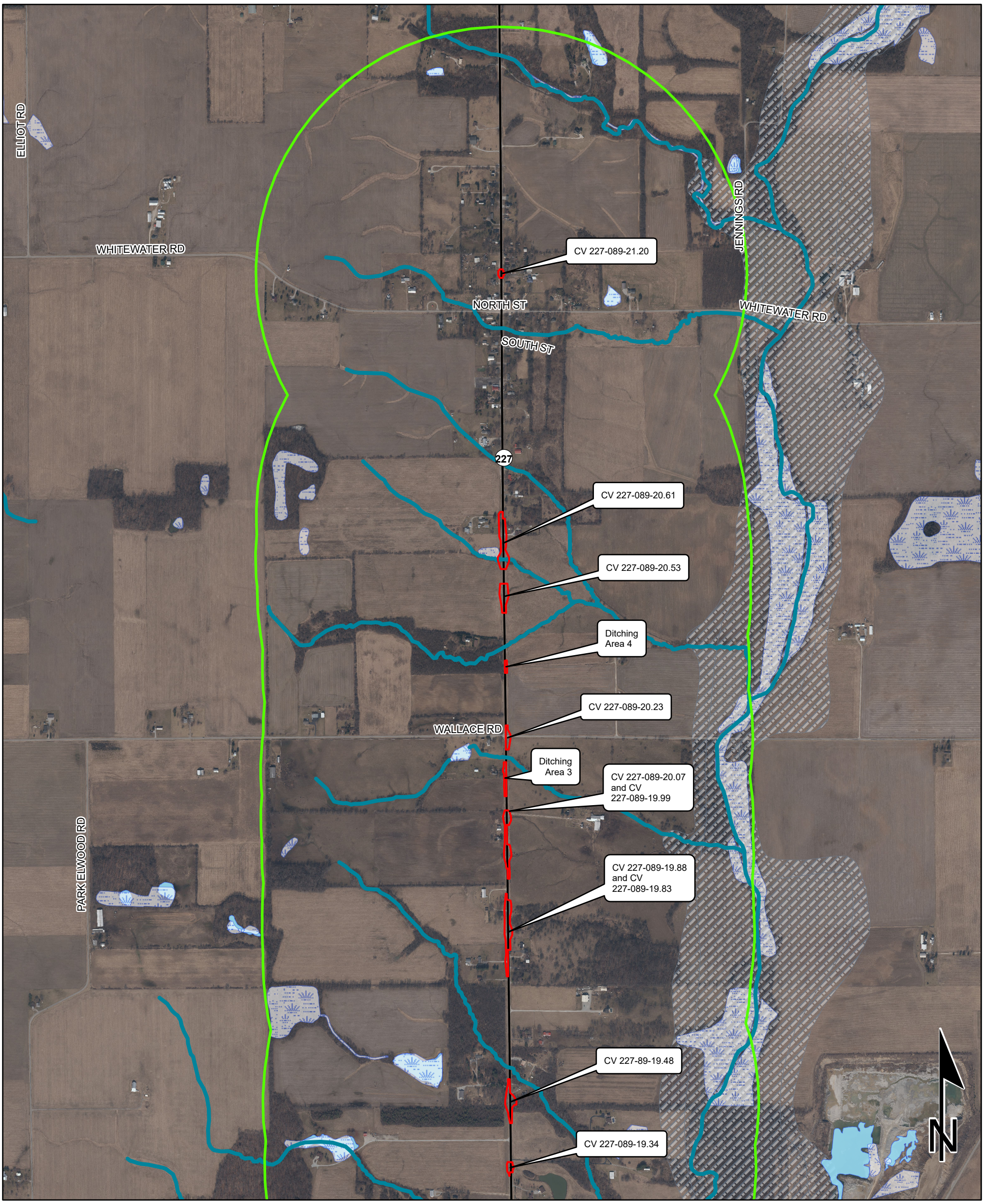
0.2 0.1 0 0.2 Miles

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.

- Karst Spring
- 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 - Water Resources (Map 2 of 2)
SR 227, from 4.60 Miles North of SR 121 to 7.86 Miles North of SR 121
Des. No. 2200507, Small Structures Improvement
Wayne County, Indiana



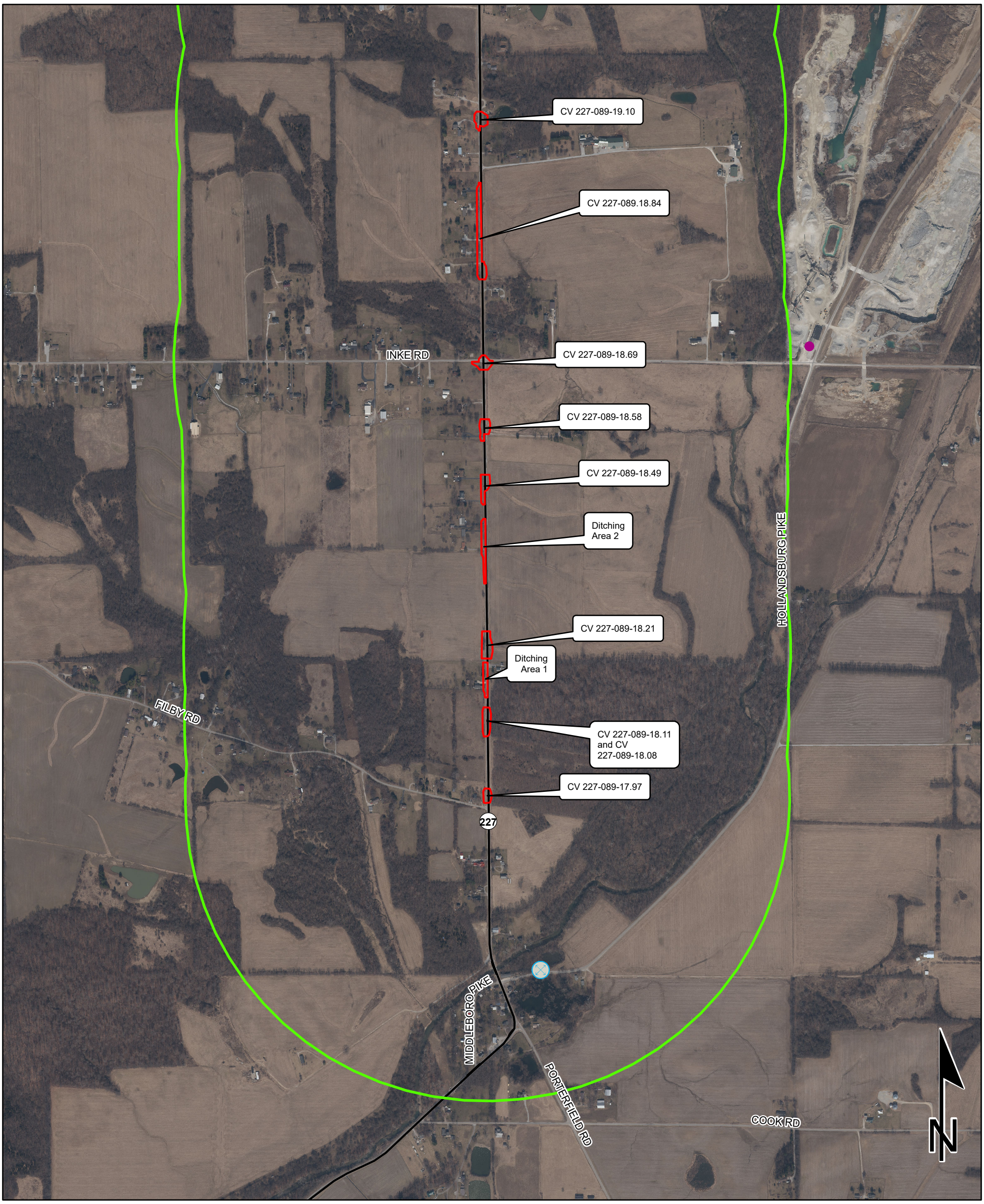
0.2 0.1 0 0.2 Miles

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

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- Karst Spring
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- Sinking-Stream Basin
- County Boundary
- Project Area
- Half Mile Radius
- Toll
- Interstate
- State Route
- US Route
- Local Road

Red Flag Investigation - Mining/Mineral Exploration (Map 1 of 2)
SR 227, from 4.60 Miles North of SR 121 to 7.86 Miles North of SR 121
Des. No. 2200507, Small Structures Improvement
Wayne County, Indiana



0.2 0.1 0 0.2 Miles

Sources:

Non Orthophotography

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

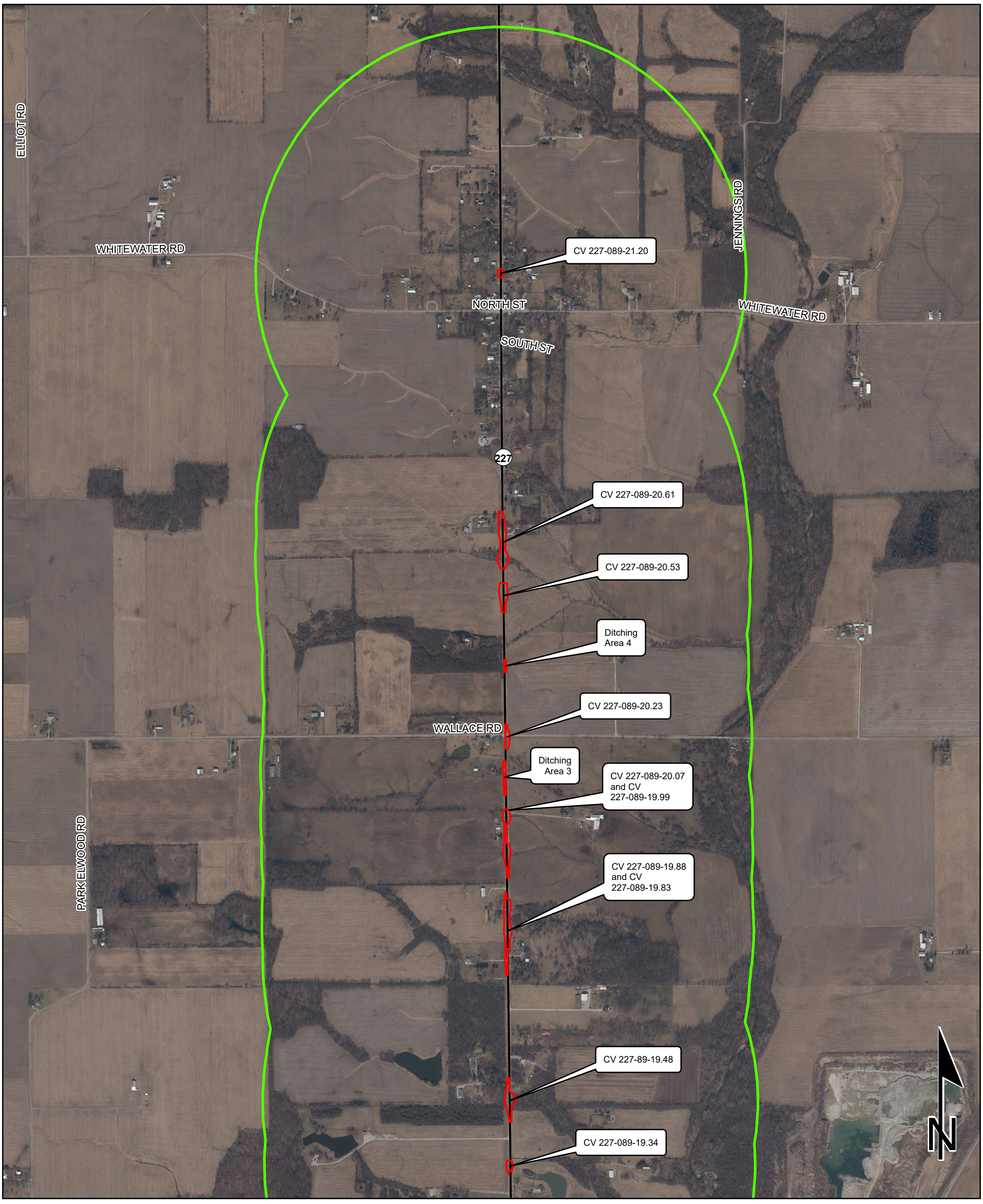
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)

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.

- Oil and Gas Wells
- Mineral Resources
- Mine - Surface
- Mine - Underground
- County Boundary
- Project Area
- Half Mile Radius
- Toll
- Interstate
- State Route
- US Route
- Local Road

Red Flag Investigation - Mining/Mineral Exploration (Map 2 of 2)
SR 227, from 4.60 Miles North of SR 121 to 7.86 Miles North of SR 121
Des. No. 2200507, Small Structures Improvement
Wayne County, Indiana



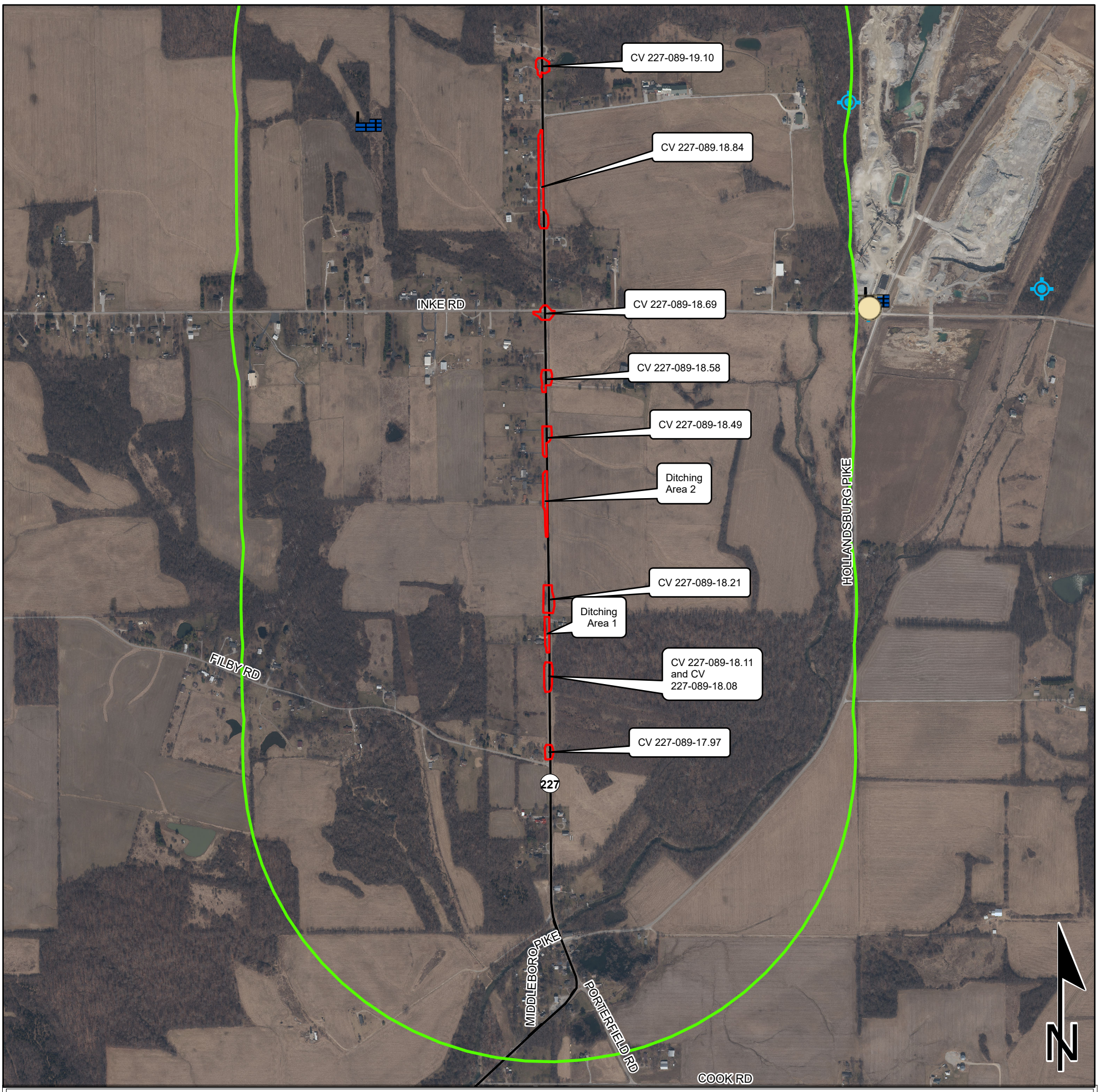
0.2 0.1 0 0.2 Miles

Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
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- Oil and Gas Wells
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- County Boundary
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- Half Mile Radius
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- Interstate
- State Route
- US Route
- Local Road

Red Flag Investigation - Hazardous Material Concerns (Map 1 of 2)
SR 227, from 4.60 Miles North of SR 121 to 7.86 Miles North of SR 121
Des. No. 2200507, Small Structures Improvement
Wayne 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 Facilities
- 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

0.2 0.1 0 0.2 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

Red Flag Investigation - Hazardous Material Concerns (Map 2 of 2)
SR 227, from 4.60 Miles North of SR 121 to 7.86 Miles North of SR 121
Des. No. 2200507, Small Structures Improvement
Wayne 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 Facilities
- NPDES Pipe Locations
- Open Dump Waste Site
- RCRA Generator/TSD
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- 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

0.3 0.15 0 0.3 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 and Ecological Information

Adam Geissler
Amended Waters Report Approved 6.13.25

Duplicate mapping and data sheets and photo logs have been removed to reduce file size.

Wetland Delineation and Waters Report
SR 227 in Wayne County, Indiana
Small Structures Improvement Project
DES Number 2200507
Asset ID #: CV 227-089-17.97, CV 227-089-18.08, CV 227-089-18.11, CV 227-089-18.21, CV 227-089-18.49, CV 227-089-18.58, CV 227-089-18.69. CV 227-089-18.84, CV 227-089-19.10, CV 227-089-19.34, CV 227-089-19.48, CV 227-089-19.83, CV 227-089-19.88, CV 227-089-19.99, CV 227-089-20.07, CV 227-089-20.23, CV 227-089-20.53, CV 227-089-20.61, CV 227-089-21.20

Prepared by: Macy Trotter and Leigh VanHyfte
Contact Information: mtrotter@structurepoint.com, 317-547-5580
American Structurepoint, Inc.
Completed Date: May 8, 2025

1.0 Introduction

American Structurepoint, Inc. was contracted by the Indiana Department of Transportation (INDOT) Greenfield District to perform a wetland delineation and waters investigation on State Road (SR) 227 Small Structures Improvement Project from 4.60 miles north of SR 121 to 7.86 miles north of SR 121 in Richmond, Wayne County, Indiana.

Date of Field Reconnaissance: October 17, 2024

Investigated Areas:

Investigated Area No.	Latitude, Longitude	USGS Quad Section Township Range	12-Digit HUC Watershed	Anticipated Scope of Work within Area
1	39.899375, -84.831880	Whitewater Quad, Sec. 11 & 12, T 14N, R 1W	Mud Creek – Middle Fork East Fork Whitewater River 050800030703	Culvert Replacement CV 227-089-17.97
2	39.901185, -84.831846	Whitewater Quad, Sec. 11 & 12, T 14N, R 1W	Mud Creek – Middle Fork East Fork Whitewater River 050800030703	Culvert Replacements CV 227-089-18.08 and CV 227-089-18.11
3	39.902215, -84.831847	Whitewater Quad, Sec. 11 & 12, T 14N, R 1W	Mud Creek – Middle Fork East Fork Whitewater River 050800030703	Ditching Area
4	39.903026, -84.831781	Whitewater Quad, Sec. 1, 2, 11 & 12, T 14N, R 1W	Mud Creek – Middle Fork East Fork Whitewater River 050800030703	Culvert Replacement CV 227-089-18.21
5	39.905428, -84.831798	Whitewater Quad, Sec. 2, T 14N, R 1W	Mud Creek – Middle Fork East Fork Whitewater River 050800030703 Headwaters Middle Fork East Fork Whitewater River 050800030701	Ditching Area
6	39.906898, -84.831727	Whitewater Quad, Sec. 1 & 2, T 14N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacement CV 227-089-18.49

Investigated Area No.	Latitude, Longitude	USGS Quad Section Township Range	12-Digit HUC Watershed	Anticipated Scope of Work within Area
7	39.908317, -84.831683	Whitewater Quad, Sec. 1 & 2, T 14N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacement CV 227-089-18.58
8	39.909889, -84.831669	Whitewater Quad, Sec. 1 & 2, T 14N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacement CV 227-089-18.69
9	39.912914, -84.831681	Whitewater Quad, Sec. 1 & 2, T 14N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacement CV 227-089-18.84
10	39.915823, -84.831578	Whitewater Quad, Sec. 1 & 2, T 14N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacement CV 227-089-19.10
11	39.919339, -84.831547	Whitewater Quad, Sec. 35 & 36, T 15N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacement CV 227-089-19.34
12	39.921296 -84.831489	Whitewater Quad, Sec. 35 & 36, T 15N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacement CV 227-089-19.48
13	39.926449, -84.831412	Whitewater Quad, Sec. 35 & 36, T 15N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacements CV 227-089-19.83 and CV 227-089-19.88
14	39.929092, -84.831349	Whitewater Quad, Sec. 35 & 36, T 15N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacements CV 227-089-19.99 and CV 227-089-20.07
15	39.930979, -84.831371	Whitewater Quad, Sec. 35, T 15N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Ditching Area
16	39.932172, -84.831234	Whitewater Quad, Sec. 25, 26, 35 & 36, T 15N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacement CV 227-089-20.23
17	39.934313, -84.831233	Whitewater Quad, Sec. 26, T 15N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Ditching Area
18	39.936417, -84.831245	Whitewater Quad, Sec. 25 & 26, T 15N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacement CV 227-089-20.53
19	39.938003, -84.831232	Whitewater Quad, Sec. 25 & 26, T 15N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacement CV 227-089-20.61
20	39.946097, -84.831049	Whitewater Quad, Sec. 25 & 26, T 15N, R 1W	Headwaters Middle Fork East Fork Whitewater River 050800030701	Culvert Replacement CV 227-089-21.20

Project Description: The proposed project consists of replacing in kind nineteen existing small culverts (CV 227-089-17.97, CV 227-089-18.08, CV 227-089-18.11, CV 227-089-18.21, CV 227-089-18.49, CV 227-089-18.58, CV 227-089-18.69. CV 227-089-18.84, CV 227-089-19.10, CV 227-089-19.34,

CV 227-089-19.48, CV 227-089-19.83, CV 227-089-19.88, CV 227-089-19.99, CV 227-089-20.07, CV 227-089-20.23, CV 227-089-20.53, CV 227-089-20.61, CV 227-089-21.20). Drainage ditch corrections and repaving of areas affected by small structure work will also occur. The proposed project is located along SR 227 from 4.60 miles north of SR 121 to 7.86 miles north of SR 121. The investigated areas for the undertaking were set based on preliminary coordination with the project designers and the project scope as understood prior field investigation and set to encompass all proposed work and areas needed for access. The location and approximate boundaries of the investigated areas can be seen in the attached maps and aerial photographs (Appendix A).

The proposed project is located in Land Resource Region (LRR) M, as recognized by the US Department of Agriculture. As such, this wetland delineation was conducted in accordance with the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region* (U.S. Army Corps of Engineers, 2010).

2.0 Site Characterization – Records Review

2.1 USGS Topographic Mapping

The USGS Whitewater, IN 7.5 Minute Topographic Map depicts the investigated areas as primarily cleared land (white) with some vegetated areas (green) within the eastern portion of Area 2 and Area 12. One intermittent stream is depicted flowing west to east near the southern boundary of Area 19 on the topographic map. This stream was field verified and delineated as Wetlands 3 and 4 during the October 17, 2024 site visit. A second intermittent stream is depicted flowing west to east, adjacent to Area 8. This stream was confirmed to be outside of the investigated area. A third intermittent stream is depicted flowing west to east in between Areas 15 and 16. This stream was confirmed to be outside of both investigated areas.

2.2 County Soil Survey

The *NRCS Soil Survey Geographic Database (SSURGO)* was reviewed to determine soil classification within the investigated area. Soil types mapped within the investigated area include:

Soil Map Unit Summary				
Map Unit Name	**Location by Area**	**Map Unit Symbol**	**NRCS Hydric Soil Category**	**SSURGO Hydric Rating by Map Unit**
CrB	Areas 2-6, 9	Crosby-Celina silt loams, 2 to 4 percent slopes, eroded	Predominantly Nonhydric	8
MnB2	Areas 1, 2, 3, 7, 9, 11-15	Miami silt loam, 2 to 6 percent slopes, eroded	Predominantly Nonhydric	6
MnC2	Area 10	Miami silt loam, 6 to 12 percent slopes, eroded	Predominantly Nonhydric	5

Soil Map Unit Summary				
Map Unit Name	**Location by Area**	**Map Unit Symbol**	**NRCS Hydric Soil Category**	**SSURGO Hydric Rating by Map Unit**
SuB3	Areas 17-20	Strawn clay loam, 2 to 6 percent slopes, severely eroded	Predominantly Nonhydric	3
SuC3	Areas 1, 2, 8, 12-17, 19	Strawn clay loam, 6 to 12 percent slopes, severely eroded	Predominantly Nonhydric	3
SuD3	Area 11	Strawn clay loam, 12 to 18 percent slopes, severely eroded	Predominantly Nonhydric	3
Tr	Areas 5, 8	Treaty silty clay loam, 0 to 1 percent slopes	Predominantly Hydric	95

2.3 National Wetlands Inventory (NWI) Mapping

The NWI Mapping was reviewed for the proposed investigated areas. One mapped NWI polygon classified as Palustrine, Emergent, Temporarily Flooded, Permanently Flooded (PEMAH) was located within Area 19 and field verified as Wetland 4 during the October 17, 2024 site visit. One mapped NWI polygon classified as Palustrine, Unconsolidated Bottom, Intermittently Exposed, Permanently Flooded (PUBGH) was located adjacent to the eastern boundary of Area 10 and field verified as Wetland 2 during site reconnaissance.

2.4 National Hydrography Dataset Flow Lines

Eleven USGS National Hydrography Dataset (NHD) flow lines are present in the investigated areas. They are listed in the table below.

NHD Summary		
NHD Flow line Name	**Location**	**Field Verified**
Unclassified	Area 7	No, this feature was not observed at this location. CV 227-089-18.58 conveys drainage west to east underneath SR 227 at this location, Photo 7.5, 7.9
Stream	Adjacent to Area 8, 0.2 mile north of CLV-37479	No, this feature was confirmed to be outside of the investigated area.
Unclassified	Area 10	Yes, CV 227-089-19.10, Wetlands 1 and 2 Photos 10.4-10.13, 10.19-10.27, 10.31
Artificial Path	Area 10	Yes, Wetland 2 Photos 10.19-10.27, 10.30-10.31
Unclassified	Area 11	Yes, CV 227-089-19.34 Photos 11.1, 11.3-11.4, 11.6-11.7
Unclassified	Area 12	Yes, CV 227-089-19.48, UNT 2 to Whitewater River Photos 12.3-12.5, 12.12-12.14
Unclassified	Area 14	Yes, CV 227-089-19.99, UNT 1 to Whitewater River Photos 14.3-14.6, 14.22-14.24
Unclassified	Area 14	Yes, CV 227-089-20.07 Photos 14.13, 14.16-14.17
Unclassified	Area 18	Yes, CV 227-089-20.53 Photos 18.3, 18.6
Unclassified	Area 19	No, this feature was not observed at this location Photo 19.16
Stream	Area 19	Yes, CV 227-089-20.61, Wetlands 3 and 4 Photos 19.2-19.7, 19.21-19.27, 19.30
Unclassified	Area 20	Yes, CV 227-089-21.20 Photos 20.2, 20.5-20.6
Canal/Ditch	Area 20	Yes, CV 227-089-21.20 Photos 20.2, 20.5-20.6

2.5 Floodways and Floodplains

The Indiana Department of Natural Resources (IDNR) floodplain information portal (https://indnr.maps.arcgis.com/apps/) was reviewed for this project. No IDNR floodways or floodplains were mapped within or adjacent to the investigated area. The nearest IDNR floodway is located approximately 0.2 mile southeast of Investigated Area 1 and is associated with Middle Fork East Fork Whitewater River.

2.6 Legal Drain

The Wayne County Surveyors Office Geographic Information System (https://beacon.schneidercorp.com/) was accessed on October 24, 2024 by American Structurepoint, Inc. staff. No legal drains are located within the investigated areas.

2.7 Aerial Photography

The 2022 IndianaMap aerial photography was reviewed for the investigated areas. The aerial photography depicted the investigated areas as grassy right-of-way (ROW) and agricultural fields along the pavement of SR 227.

3.0 Field Reconnaissance

SR 227 was examined for the presence of wetlands and waters of the U.S. on the site on October 17, 2024. Data points were strategically placed to identify appropriate boundaries of delineated wetlands and to determine the presence or absence of jurisdictional wetlands and waters of the U.S. Four wetlands (Wetlands 1-4), totaling 0.160 acre and two streams (UNT 1 to Whitewater River, UNT 2 to Whitewater River), totaling 237 lft (0.027 ac.) were delineated within the investigated areas. Data sheets and a map indicating the location of data points documenting the field investigation are included in the appendix.

Investigated Area No.	Resources Delineated
1	No resources were delineated within Area 1
2	No resources were delineated within Area 2
3	No resources were delineated within Area 3
4	No resources were delineated within Area 4
5	No resources were delineated within Area 5
6	Roadside Ditch (RSD 1)
7	RSD 2
8	RSD 3 and 4
9	RSD 5 and 6
10	RSD 7, Wetland 1 and 2
11	No resources were delineated within Area 11
12	UNT 2 to Whitewater River
13	RSD 8 and 9
14	RSD 10-12, UNT 1 to Whitewater River
15	RSD 13

Investigated Area No.	Resources Delineated
16	RSD 14 and 15
17	No resources were delineated within Area 17
18	RSD 16 and 17
19	RSD 18-20, Wetland 3 and 4
20	No resources were delineated within Area 20

3.1 Wetlands

3.1.1 Wetland 1

Wetland 1 is an emergent wetland located in the northwest portion of Area 10, approximately 0.41 mile north of Inke Road. This wetland is located in a roadside ditch constructed entirely within mapped upland soils. Wetland 1 drains east through CV 227-089-19.10 to Wetland 2. Wetland 1 does not directly abut a jurisdictional water of the U.S. and therefore is anticipated to be considered a jurisdictional water of the State. INDOT acknowledges that this is likely non-jurisdictional, and INDOT Ecology and Waterway, Permitting and Stormwater Office (EWPSO) is requesting the USACE take jurisdiction.

Wetland 1 would be considered Palustrine, Emergent, Persistent, Temporarily Flooded, Excavated (PEM1Ax) under the Cowardin Classification System. Wetland 1 is 0.002 acre and extends west beyond the investigated area. Wetland 1 is associated with the roadside ditch and exhibits dominant hydrophytic vegetation confined to the ditchline. This wetland also experiences continual disturbance due to mowing and therefore is considered poor quality. A continuous defined bed and bank or ordinary highwater mark (OHWM) was not observed during the site reconnaissance. For reference to field data collected for this wetland, see Data Point (DP) 3 included in Appendix C. DP 4, included in Appendix C, is representative of the upland areas surrounding Wetland 1.

3.1.2 Wetland 2

Wetland 2 is an emergent wetland located in a depression within the southeast portion of Area 10, approximately 0.39 mile north of Inke Road. This wetland directly abuts an unnamed open water feature, which directly abuts Clay Run, a jurisdictional water of the U.S. Clay Run drains into Middle Fork East Fork Whitewater River, which flows into East Fork Whitewater River, a Traditionally Navigable Waterway (TNW). Therefore Wetland 2 is anticipated to be considered a jurisdictional water of the U.S.

Wetland 2 would be considered Palustrine, Emergent, Persistent, Temporarily Flooded (PEM1A) under the Cowardin Classification System. Wetland 2 is 0.065 acre and extends east beyond the investigated area. Wetland 2 is associated with the roadside drainage, experiences continual disturbance due to mowing, and therefore is considered poor quality. For reference to field data collected for this wetland, see DP 5 included in Appendix C. DP 6, included in Appendix C, is representative of the upland areas surrounding Wetland 2.

3.1.3 Wetland 3

Wetland 3 is an emergent wetland located in a depression within the southeast portion of Area 19, approximately 0.51 mile south of Whitewater Road. This wetland receives drainage through CV 227-089-20.61 from Wetland 4 on the western side of SR 227. Wetland 3 directly abuts Black Brook, which drains into Middle Fork East Fork Whitewater River, which then flows into East Fork Whitewater River, a TNW. Therefore, it is anticipated that Wetland 3 is considered a jurisdictional waters of the U.S.

Wetland 3 would be considered PEM1A under the Cowardin Classification System. Wetland 3 is 0.054 acre and extends east beyond the investigated area. A mapped stream is depicted flowing from west to east through this portion of Area 19 on the topographic and NHD mapping. A continuous defined bed and bank or ordinary highwater mark was not observed during site reconnaissance. The presence of hydrophytic vegetation, hydric soils, and hydrology such as geomorphic positioning contributed to this feature being classified as a wetland, not a stream. Wetland 3 is associated with roadside drainage, and experiences continual disturbance due to mowing. Therefore, this wetland is considered poor quality. For reference to field data collected for this wetland, see DP 7 included in Appendix C. DP 8, included in Appendix C, is representative of the upland areas surrounding Wetland 3.

3.1.4 Wetland 4

Wetland 4 is an emergent wetland located in a depression within the southwest portion of Area 19, approximately 0.49 mile south of Whitewater Road. Wetland 4 drains east through CV 227-089-20.61 to Wetland 3. Wetland 4 does not directly abut a jurisdictional water of the U.S. and therefore is anticipated to be considered a jurisdictional water of the State. INDOT acknowledges that this is likely non-jurisdictional, and INDOT Ecology and Waterway, Permitting and Stormwater Office (EWPSO) is requesting the USACE take jurisdiction.

Wetland 4 would be considered PEM1A under the Cowardin Classification System. A mapped stream flows from west to east through the southern portion of Area 19 and through CV 227-089-20.61. A continuous defined bed and bank or ordinary highwater mark was not observed during site reconnaissance. The presence of hydrophytic vegetation, hydric soils, and hydrology such as geomorphic positioning contributed to this feature being classified as a wetland, not a stream. Wetland 4 is 0.039 acre and extends west beyond the investigated area. Wetland 4 is associated with roadside drainage, and experiences continual disturbance due to mowing. Therefore, this wetland is considered poor quality. For reference to field data collected for this wetland, see DP 9 included in Appendix C. DP 10, included in Appendix C, is representative of the upland areas surrounding Wetland 4.

Wetland ID	Type	Acreage	Quality	Photo IDs	Associated Structure ID	Likely WOTUS?	Data Point ID (DP)	Lat/ Long	Dominant Vegetation	Hydric Soil Indicator(s)	Hydrology Indicator(s)	Within Wetland?	Notes
N/A	N/A	N/A	N/A	4.4-4.6	N/A	N/A	DP 1	39.903037, -84.831845	*Cercis canadensis, Ulmus rubra, Lonicera tatarica, Echinochloa crus-galli, Persciaria lapathifolia*	N/A	N/A	No	Taken due to the presence of hydrophytic vegetation
N/A	N/A	N/A	N/A	4.12-4.14	N/A	N/A	DP 2	39.902932, -84.831643	*Ambrosia trifida, Setaria pumila*	N/A	N/A	No	Taken due to the presence of hydrophytic vegetation
Wetland 1	PEM1Ax	0.002	Poor	10.5-10.13	CV 227-089-19.10	Waters of the State*	DP 3	39.915891, -84.831686	*Agrostis stolonifera, Leersia oryzoides*	F3	C3, D2, D5	Yes	Wetland 1 extends west beyond Area 10
							DP 4	39.915934, -84.831679	*Schedonorus arundinaceus, Agrostis stolonifera*	A11, F3	D2	No	
Wetland 2	PEM1A	0.065	Poor	10.19-10.27, 10.30-10.31	CV 227-089-19.10	Waters of the U.S.	DP 5	39.915674, -84.831479	*Typha latifolia, Agrostis stolonifera*	A11, F3	D2, D5	Yes	Wetland 2 extends east beyond Area 10
							DP 6	39.915658, -84.831492	*Schedonorus arundinaceus, Agrostis stolonifera*	A11, F3	N/A	No	
Wetland 3	PEM1A	0.054	Poor	19.2-19.8	CV 227-089-20.61	Waters of the U.S.	DP 7	39.937521, -84.831139	*Leersia oryzoides, Agrostis stolonifera, Schedonorus arundinaceus, Persicaria lapathifolia*	F3	D2, D5	Yes	Wetland 3 extends east beyond Area 19
							DP 8	39.937567, -84.831142	*Schedonorus arundinaceus, Bromus inermis, Solidago altissima*	N/A	N/A	No	

Wetland ID	Type	Acreage	Quality	Photo IDs	Associated Structure ID	Likely WOTUS?	Data Point ID (DP)	Lat/ Long	Dominant Vegetation	Hydric Soil Indicator(s)	Hydrology Indicator(s)	Within Wetland?	Notes
Wetland 4	PEM1A	0.039	Poor	19.21-19.27, 19.28-19.30	CV 227-089-20.61	Waters of the State*	DP 9	39.937522, -84.831332	*Leersia oryzoides*	F3	A2, A3, D2, D5	Yes	Wetland 4 extends west beyond Area 19
							DP 10	39.937475, -84.831311	*Catalpa speciosa, Morus alba, Schedonorus arundinaceus, Bromus inermis*	N/A	N/A	No	

*INDOT acknowledges that Wetlands 1 and 4 are likely non-jurisdictional, and INDOT EWPSO is requesting the USACE take jurisdiction.

3.2 Drainage Features, Streams, and Other Potential "Waters of the U.S."

3.2.1 Unnamed Tributary 1 to Whitewater River

Unnamed Tributary (UNT) 1 to Whitewater River enters the western boundary of Area 14 approximately 0.25 mile south of Wallace Road. The stream flows east for approximately 93 linear feet before exiting the eastern boundary of the investigated area. The stream is not depicted on the USGS topographic map. UNT 1 to Whitewater River was not flowing during field investigation on October 17, 2024 and stream flow appears to be ephemeral based on observations during the site visit including a dry channel and limited development. UNT 1 to Whitewater River is an ephemeral stream and therefore would be considered non-jurisdictional. INDOT acknowledges that this is likely non-jurisdictional, and INDOT Ecology and Waterway, Permitting and Stormwater Office (EWSPO) is requesting the USACE take jurisdiction.

UNT 1 to Whitewater River is conveyed underneath SR 227 through CV 227-089-19.99, a corrugated metal pipe culvert. A stream assessment was conducted at SA 2 (39.928644, -84.831447), outside the zone of influence of CV 227-089-19.99. The OHWM of UNT 1 to Whitewater River was 2.3 feet wide by 0.9 feet deep at the assessment location. UNT 1 to Whitewater River exhibited low sinuosity, recent channelization, as well as poor substrate diversity and quality. Dominant substrates for the stream consisted of boulder and silt. UNT 1 to Whitewater River was a dry channel that did not exhibit any riffles, runs, pools, or glides during the October 17, 2024 site visit. UNT 1 to Whitewater River would be considered poor quality based on recent channelization and low sinuosity. The stream would be considered Riverine, Ephemeral (R6) under the Cowardin Classification System.

3.2.2 UNT 2 to Whitewater River

UNT 2 to Whitewater River enters the western boundary of Area 12 approximately 0.76 mile south of Wallace Road. The stream flows east for approximately 144 linear feet before exiting the eastern boundary of the investigated area. The stream is not depicted on the USGS topographic map. UNT 2 to Whitewater River was not flowing during field investigation on October 17, 2024 and stream flow appears to be ephemeral based on observations during the site visit including the lack of flow and small drainage area. UNT 2 to Whitewater River is an ephemeral stream and therefore would be considered non-jurisdictional. INDOT acknowledges that this is likely non-jurisdictional, and INDOT EWSPO is requesting the USACE take jurisdiction.

UNT 2 to Whitewater River is conveyed under SR 227 through CV 227-089-19.48, a corrugated metal pipe culvert. A stream assessment was conducted at SA 1 (39.921288, -84.831278), outside the zone of influence of CV 227-089-19.48. The OHWM of UNT 2 to Whitewater River was 6.7 feet wide by 0.7 feet deep at the assessment location. UNT 2 to Whitewater River exhibited low sinuosity, a moderate amount of instream cover including overhanging vegetation, and recent channelization. Dominant substrates of the stream consisted of sand and gravel. UNT 2 to Whitewater River was a moist channel with no riffles, runs, pools, or glides present during the October 17, 2024 site visit. UNT 2 to Whitewater River would be considered an average quality stream based on its average quality substrate and moderate amount of instream cover. The stream would be classified as Riverine, Ephemeral (R6) under the Cowardin Classification System.

Table 3 – Aquatic Resources Summary: Streams

Aquatic Resources Summary: Streams												
Delineated Resource	Photos	Lat/ Long	OHWM Width	OHWM Depth	USGS Blue Line & Type	Riffle/Pool Presence	Quality	Substrate	Likely Jurisdiction	Upstream Drainage Area Sq. miles	Total Linear Feet	Total Acres
UNT 1 to Whitewater River	14.2-14.6, 14.12, 14.22-14.24	39.928644, -84.831447	2.3’	0.9’	No, EPH	No	Poor	Boulder, Silt	Non-Jurisdictional*	<0.001	93	0.005
UNT 2 to Whitewater River	12.3-12.5, 12.12-12.14	39.921288, -84.831278	6.7’	0.7’	No, EPH	No	Average	Sand, Gravel	Non-Jurisdictional*	0.001	144	0.022
Total											**237**	**0.027**

*INDOT acknowledges that this is likely non-jurisdictional, and INDOT EWSPO is requesting the USACE take jurisdiction.

3.3 Roadside Ditches

Surface drainage systems (constructed roadside ditches) are present along both sides of SR 227 throughout the investigated areas. Unless otherwise noted, the roadside ditches were inspected and were determined to not exhibit defined bed and bank or a continuous OHWM.

Other Features – Roadside Ditches Summary				
Roadside Ditch (RSD) Name	Photos	Lat/Long	Type	Total Linear Feet
RSD 1	6.1-6.2, 6.4-6.5	39.906822, -84.831794	Grassed	262
RSD 2	7.6-7.7	39.908445, -84.831608	Grassed	61
RSD 3	8.2-8.4	39.909911, -84.831911	Grassed	38
RSD 4	8.8-8.10	39.909908, -84.831465	Grassed	51
RSD 5	9.10-9.11	39.913783, -84.831682	Gravel lined	59
RSD 6	9.14-9.15, 9.17	39.912136, -84.831569	Grassed	147
RSD 7	10.1-10.3	39.915787, -84.831664	Grassed	54
RSD 8	13.1-13.4,	39.925586, -84.831472	Grassed/ Gravel lined	387

Other Features – Roadside Ditches Summary				
Roadside Ditch (RSD) Name	**Photos**	**Lat/Long**	**Type**	**Total Linear Feet**
RSD 9	13.18-13.19	39.926044. -84.831343	Gravel lined	131
RSD 10	14.7,14.9-14.10, 14.12	39.929004, -84.831418	Grassed	108
RSD 11	14.12, 4.14-14.15	39.929764, -84.831401	Grassed	185
RSD 12	14.26-14.27	39.928241, -84.831308	Grassed	102
RSD 13	15.2, 15.4-15.5	39.930875, -84.831384	Grassed	117
RSD 14	16.1-16.2	39.931939, -84.831297	Grassed	76
RSD 15	16.7-16.8	39.932421, -84.831254	Grassed	93
RSD 16	18.1-18.2, 18.4	39.936362, -84.831315	Grassed	317
RSD 17	18.5, 18.7-18.8	39.936490, -84.831154	Grassed	222
RSD 18	19.34	39.937359, -84.831305	Grassed	91
RSD 19	19.12-19.13	39.937919, -84.831150	Grassed	201
RSD 20	19.17-19.20	39.938189, -84.831309	Grassed	238

3.4 Wildlife Evidence and Concerns

No evidence of birds or bats were observed within any culverts during field reconnaissance. An animal path was observed (Photo 1.2) which indicates that small animals may use existing small structures to cross underneath SR 227.

3.5 Existing Riprap

Existing riprap at the inlets and outlets of culverts and drainage pipes was found throughout the investigated areas. These are listed in the table below.

Riprap Summary Table				
Location	**Culvert**	**Inlet**	**Outlet**	**Photos**
Area 1	CV 227-089-17.97	No	Yes	1.2, 1.5
Area 1	Unnumbered Culvert 1	No	N/A	1.6
Area 2	CV 227-089-18.08	No	No	2.3, 2.10
Area 2	CV 227-089-18.11	No	No	2.6, 2.9
Area 4	CV 227-089-18.21	Yes	No	4.3, 4.11
Area 6	CV 227-089-18.49	No	No	6.3, 6.7

Riprap Summary Table				
Location	**Location**	**Location**	**Location**	**Location**
Area 7	CV 227-089-18.58	No	Yes	7.3, 7.8
Area 8	CV 227-089-18.69	No	No	8.3, 8.9
Area 9	CV 227-089-18.84	No	No	9.2, 9.16
Area 10	CV 227-089-19.10	Yes	No	10.4, 10.19
Area 11	CV 227-089-19.34	No	Yes	11.3, 11.6-11.7
Area 11	Unnumbered Culvert 2	Yes	N/A	11.6-11.7
Area 12	CV 227-089-19.48	No	No	12.3, 12.13
Area 13	CV 227-089-19.83	Yes	Yes	13.7, 13.17
Area 13	CV 227-089-19.88	No	No	13.10, 13.14
Area 14	CV 227-089-19.99	No	Yes	14.5, 14.22
Area 14	CV 227-089-20.07	Yes	Yes	14.13, 14.17
Area 16	CV 227-089-20.23	No	No	16.4-16.6
Area 18	CV 227-089-20.53	Yes	Yes	18.3, 18.6
Area 19	CV 227-089-20.61	No	Yes	19.8, 19.28
Area 20	CV 227-089-21.20	No	No	20.2, 20.5-20.6

4.0 Conclusions

Four wetlands (Wetlands 1-4) totaling 0.160 acre and two streams (UNT 1 and 2 to Whitewater River) totaling 237 linear feet (0.027 ac.) were delineated within the investigated area. Wetlands 2 and 3 directly abut a jurisdictional water of the U.S. Therefore, it is anticipated that these features would be considered jurisdictional waters of the U.S. Wetlands 1 and 4 do not directly abut a jurisdictional water of the U.S. and therefore it is anticipated that these features would be considered isolated waters of the state. UNT 1 and 2 to Whitewater River are ephemeral streams and therefore would be considered a non-jurisdictional features. INDOT acknowledges that these features are likely non-jurisdictional, and INDOT EWSPO is requesting the USACE take jurisdiction.

All jurisdictional waters of the U.S. are under the regulatory authority of the USACE under Section 404 of the Clean Water Act. Every effort should be taken to avoid and minimize impacts to the waterway and wetlands. If impacts are necessary, then mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the USACE. This report is our best judgment based on the guidelines set forth by the USACE.

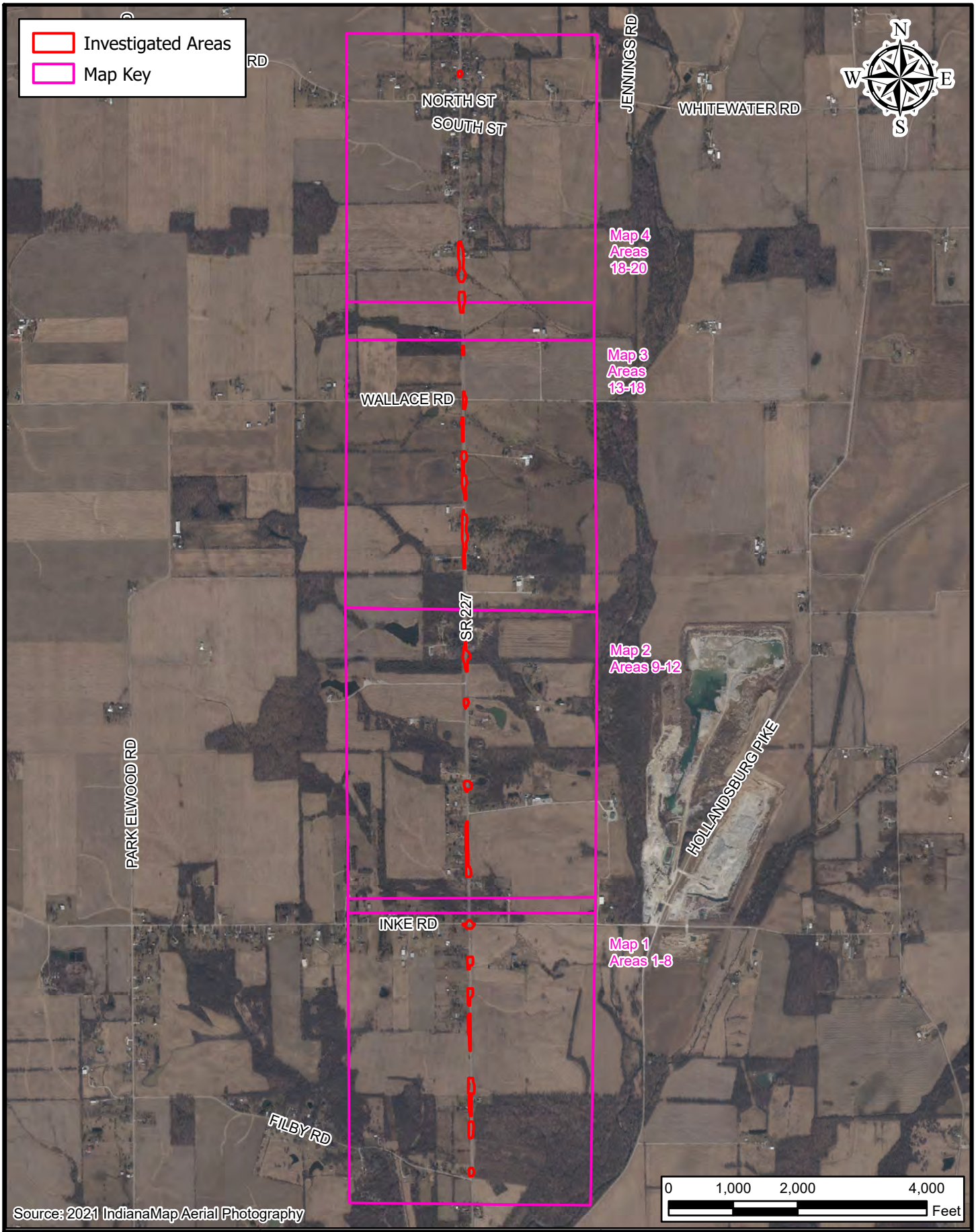
5.0 Acknowledgement

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

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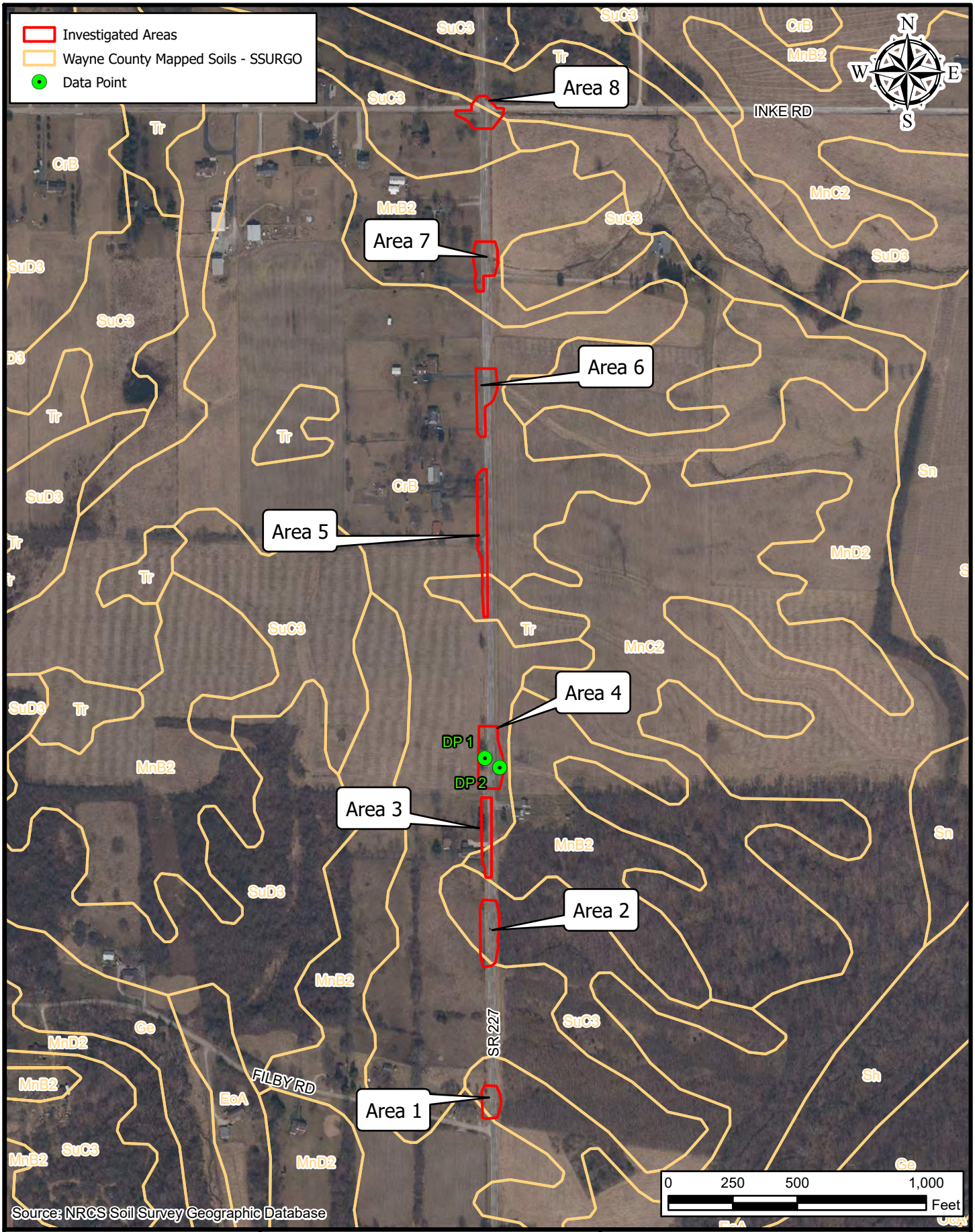
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Figures 3 and 4 Map Key

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



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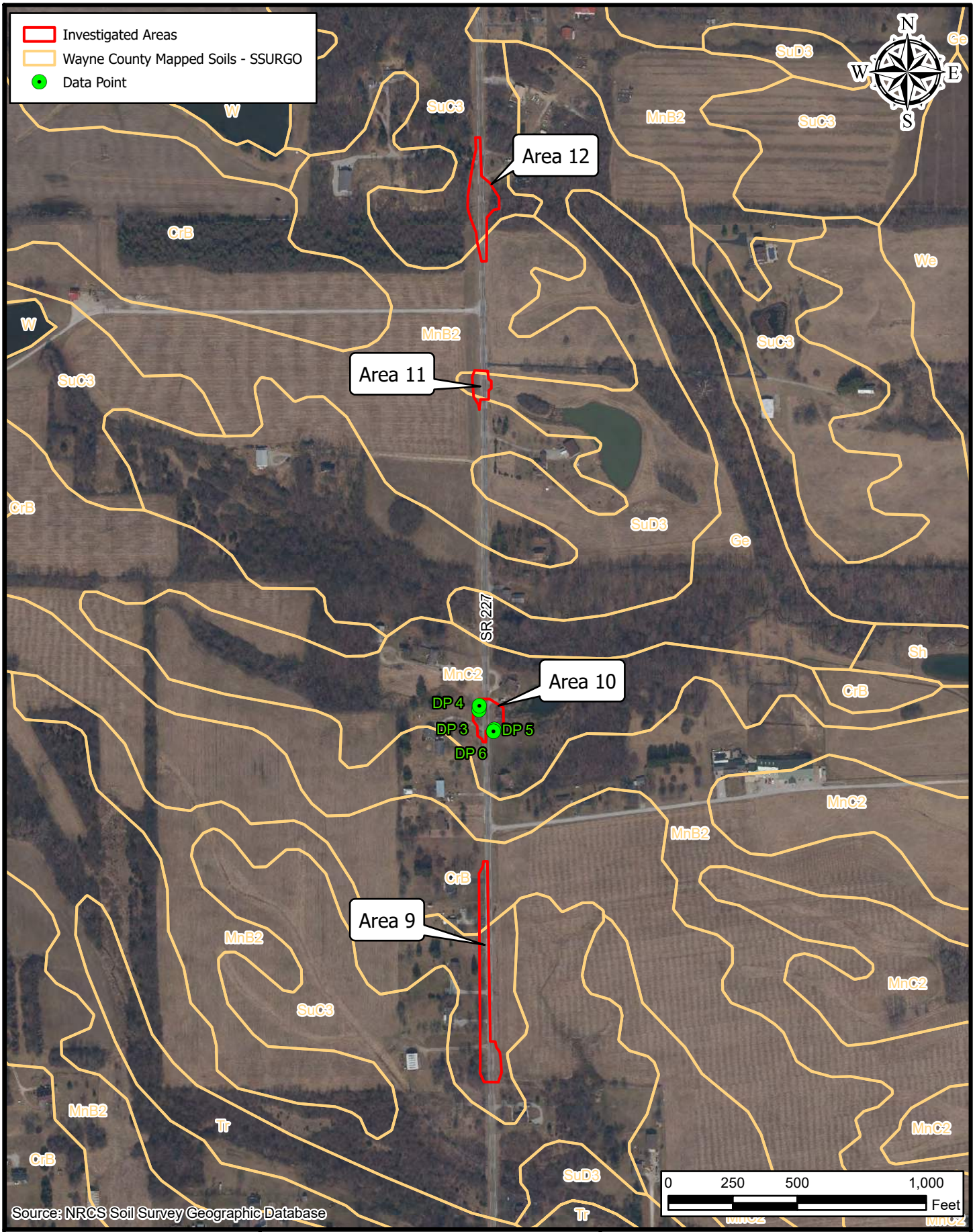
Figure 3: Wayne County Mapped Soils-SSURGO
Map 1 of 4

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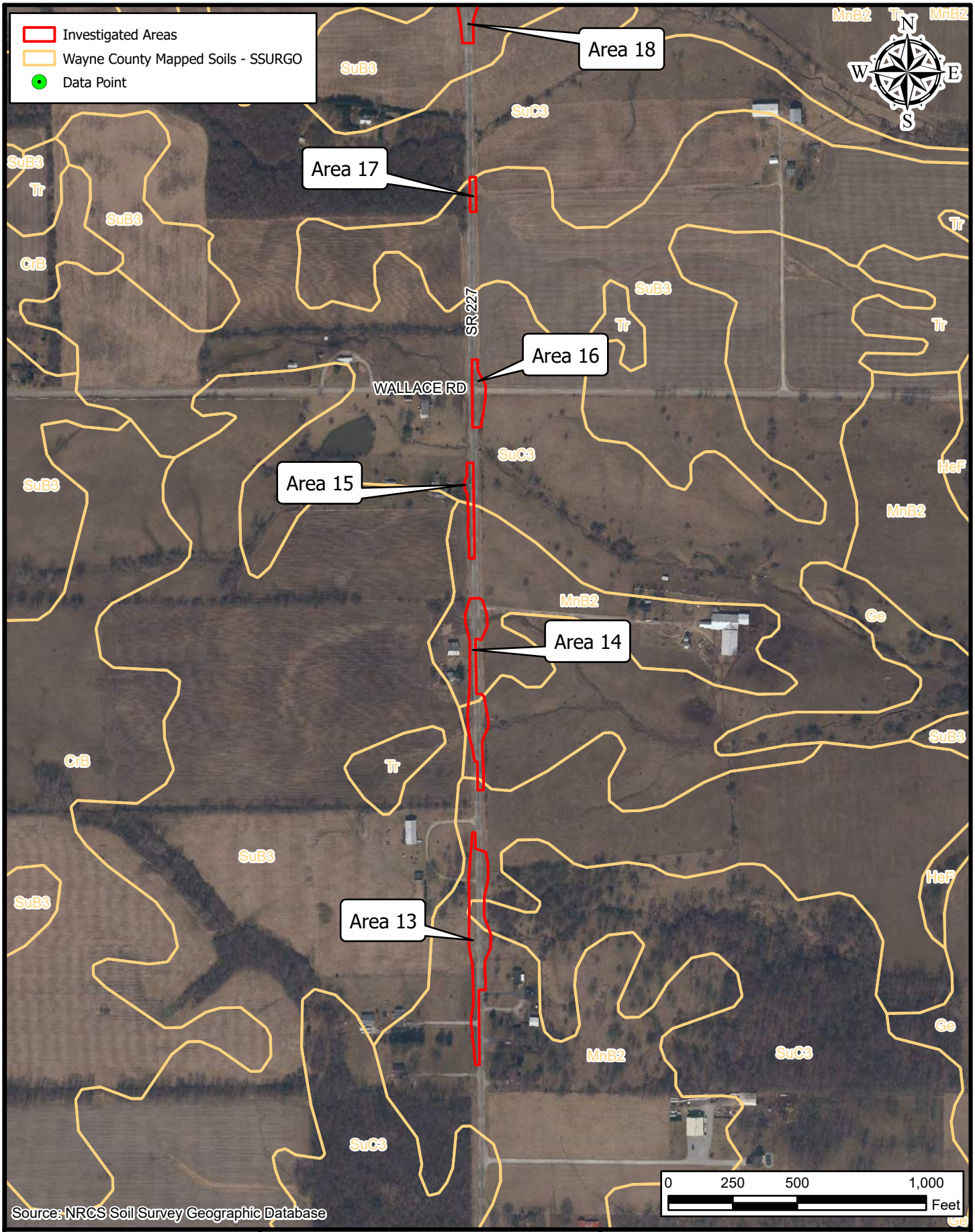
Figure 3: Wayne County Mapped Soils-SSURGO
Map 2 of 4

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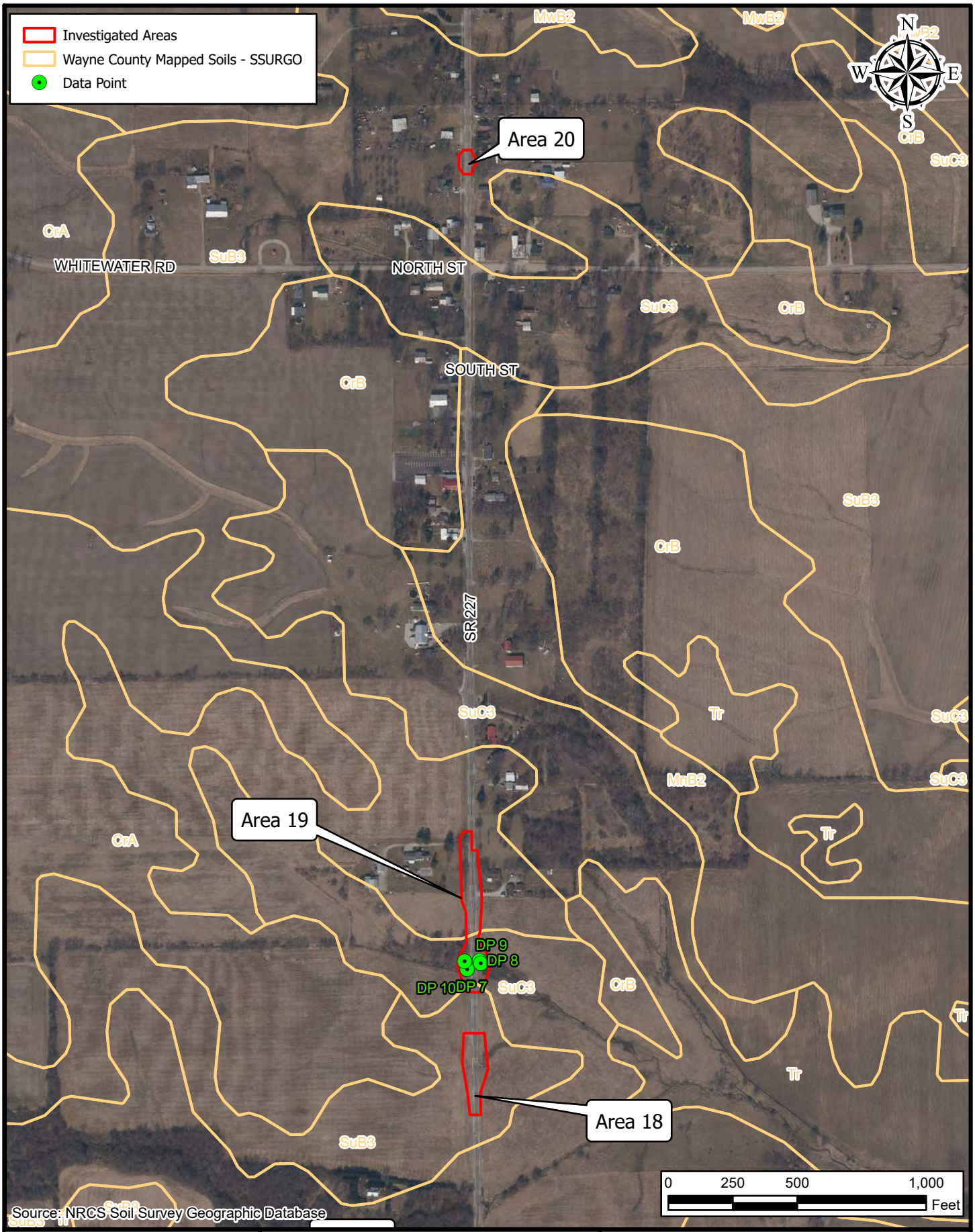
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Figure 3: Wayne County Mapped Soils- SSURGO
Map 4 of 4

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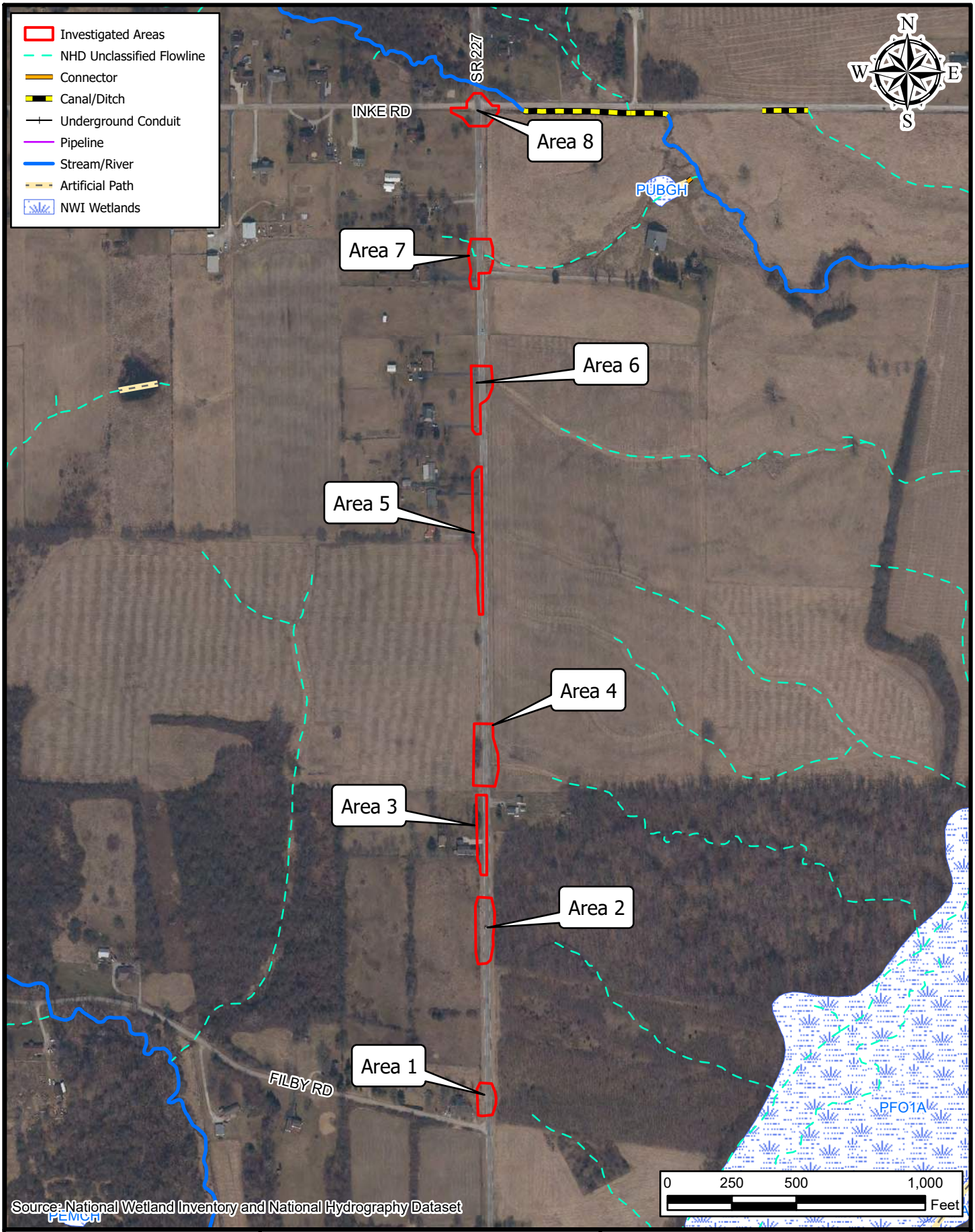
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Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CrB	Crosby-Celina silt loams, 2 to 4 percent slopes, eroded	8	1.5	17.7%
MnB2	Miami silt loam, 2 to 6 percent slopes, eroded	6	2.5	29.8%
MnC2	Miami silt loam, 6 to 12 percent slopes, eroded	5	0.3	3.4%
SuB3	Strawn clay loam, 2 to 6 percent slopes, severely eroded	3	1.3	15.6%
SuC3	Strawn clay loam, 6 to 12 percent slopes, severely eroded	3	2.5	29.9%
SuD3	Strawn clay loam, 12 to 18 percent slopes, severely eroded	3	0.1	1.7%
Tr	Treaty silty clay loam, 0 to 1 percent slopes	95	0.2	1.9%
Totals for Area of Interest			**8.5**	**100.0%**



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Figure 4: NWI and NHD Mapping
Map 1 of 4

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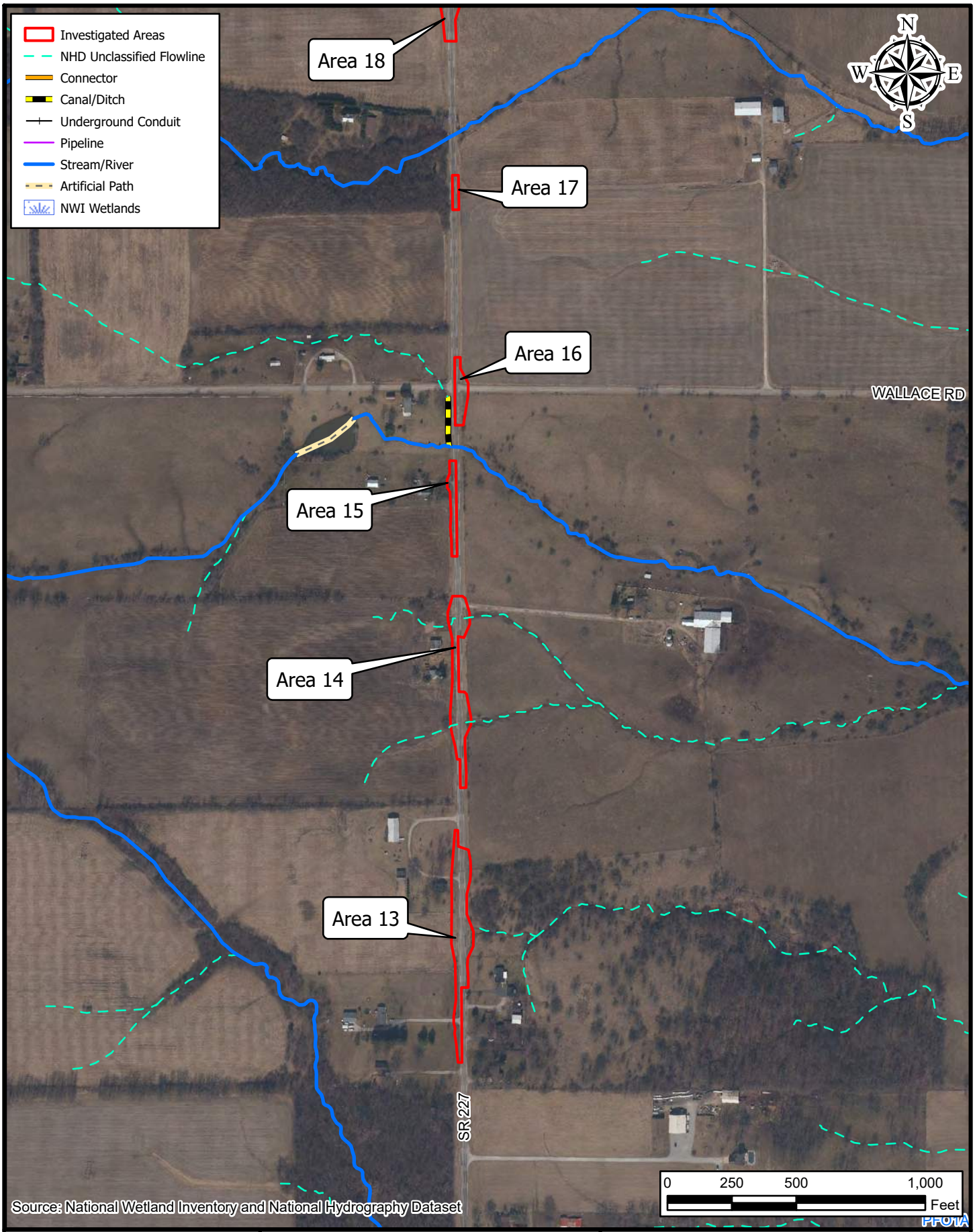
Figure 4: NWI and NHD Mapping
Map 2 of 4

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Figure 4: NWI and NHD Mapping
Map 3 of 4

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Map 4 of 4

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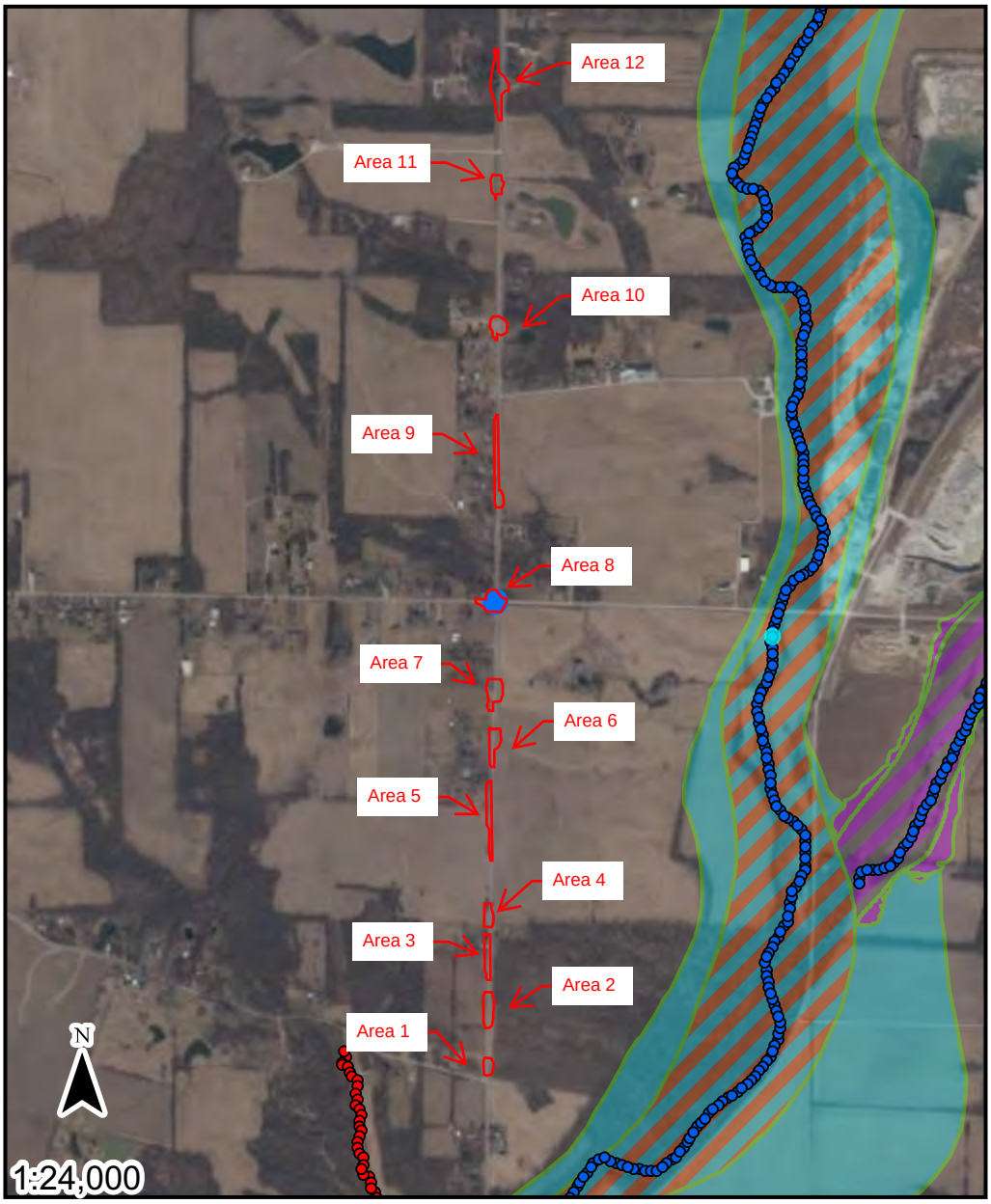
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County: Wayne
State: Indiana

Date: 10/24/2024

DNR Indiana Department of Natural Resources

Figure 5: Floodplain Analysis & Regulatory Assessment (FARA)



Point of Interest

Base Flood Elevation Point

POI

1.0

1.5

FEMA Zone AE Floodway; FEMA Administrative Floodway

DNR Approximate Floodway

FEMA Zone AE

DNR Approximate Fringe

Not Mapped

Long: **-84.83169145303641**

Lat: **39.909947151320225**

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

County: **Wayne**

Stream Name:
Middle Fork East Fork Whitewater River

Approximate Ground Elevation: **1,085.2 feet (NAVD88)**

Base Flood Elevation: **1,050.6 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: <bol>Laura Miller, Planning & Floodplain Administrator</bol>

Community Jurisdiction: **Wayne County, County proper**

Phone: **(765) 973-9249**

Email: **lauram@co.wayne.in.us**

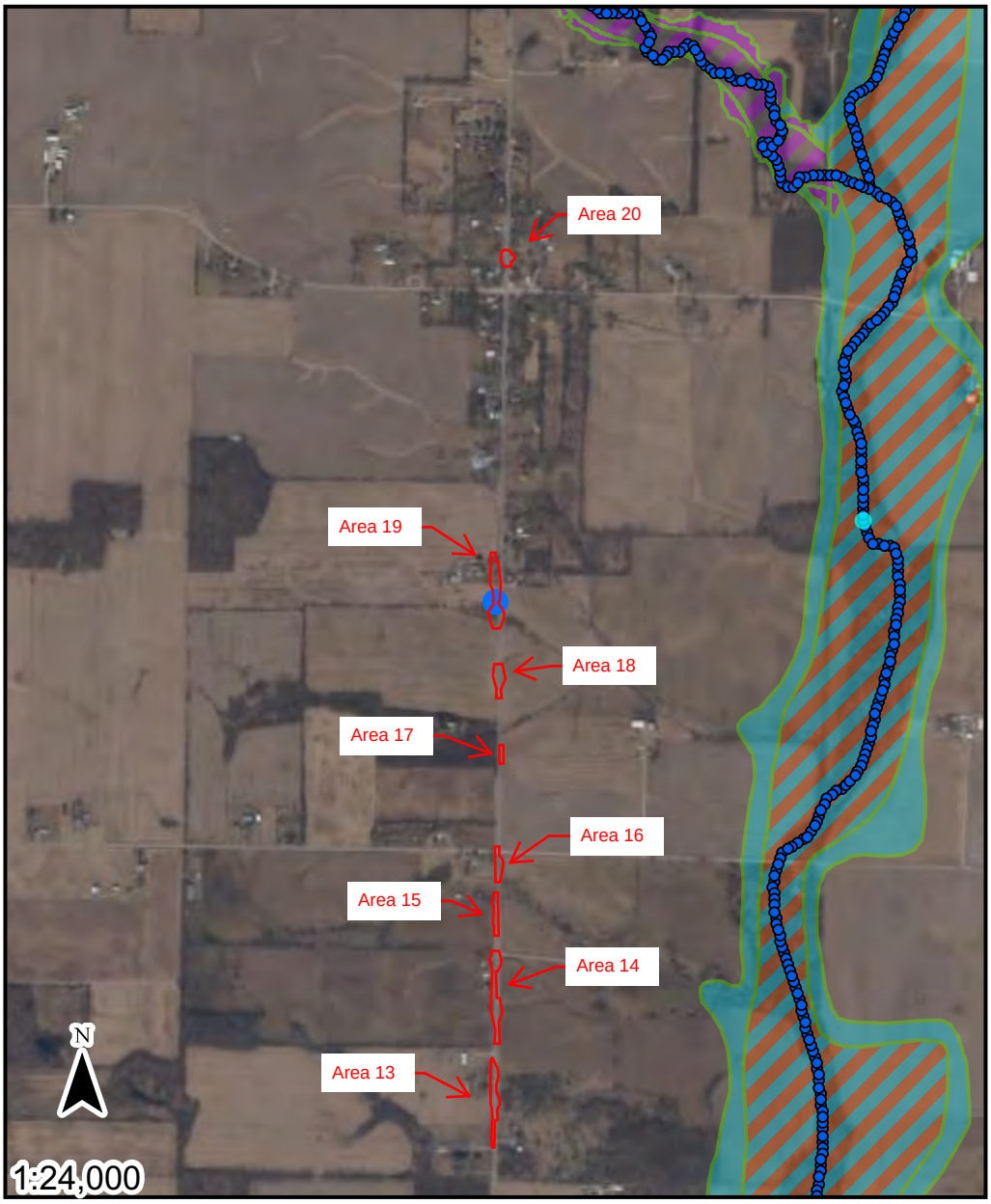
US Army Corps of Engineers District: **Louisville**

Author: Macy Trotter

Date Generated: 10/24/2024

DNR Indiana Department of Natural Resources

Figure 5: Floodplain Analysis & Regulatory Assessment (FARA)



- Point of Interest
- Base Flood Elevation Point
- POI
- 1.0
- FEMA Zone AE Floodway; FEMA Administrative Floodway
- DNR Approximate Floodway
- FEMA Zone AE
- DNR Approximate Fringe
- Not Mapped

Long: **-84.83136958795454**

Lat: **39.937889151795616**

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

County: **Wayne**

Stream Name:
Middle Fork East Fork Whitewater River

Approximate Ground Elevation: **1,117.9 feet (NAVD88)**

Base Flood Elevation: **1,081.0 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: <bol>Laura Miller, Planning & Floodplain Administrator</bol>

Community Jurisdiction: **Wayne County, County proper**

Phone: **(765) 973-9249**

Email: **lauram@co.wayne.in.us**

US Army Corps of Engineers District: **Louisville**

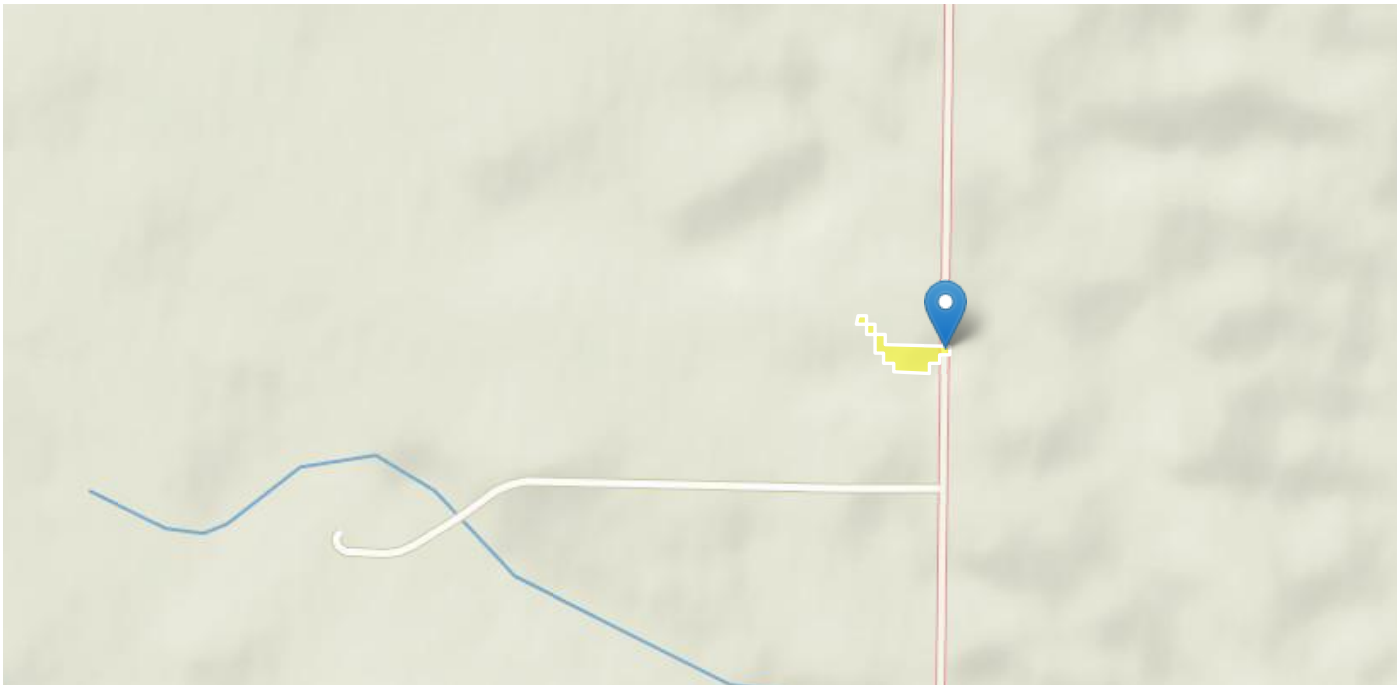
Author: Macy Trotter

Date Generated: 10/24/2024

Figure 6.1: UNT 2 to Whitewater River

StreamStats Report

Region ID: IN
Workspace ID: IN20241114200454872000
Clicked Point (Latitude, Longitude): 39.92152, -84.83147
Time: 2024-11-14 15:05:32 -0500



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CSL10_85	Change in elevation divided by length between points 10 and 85 percent of distance along main channel to basin divide - main channel method not known	107	feet per mi
DRNAREA	Area that drains to a point on a stream	0.001	square miles

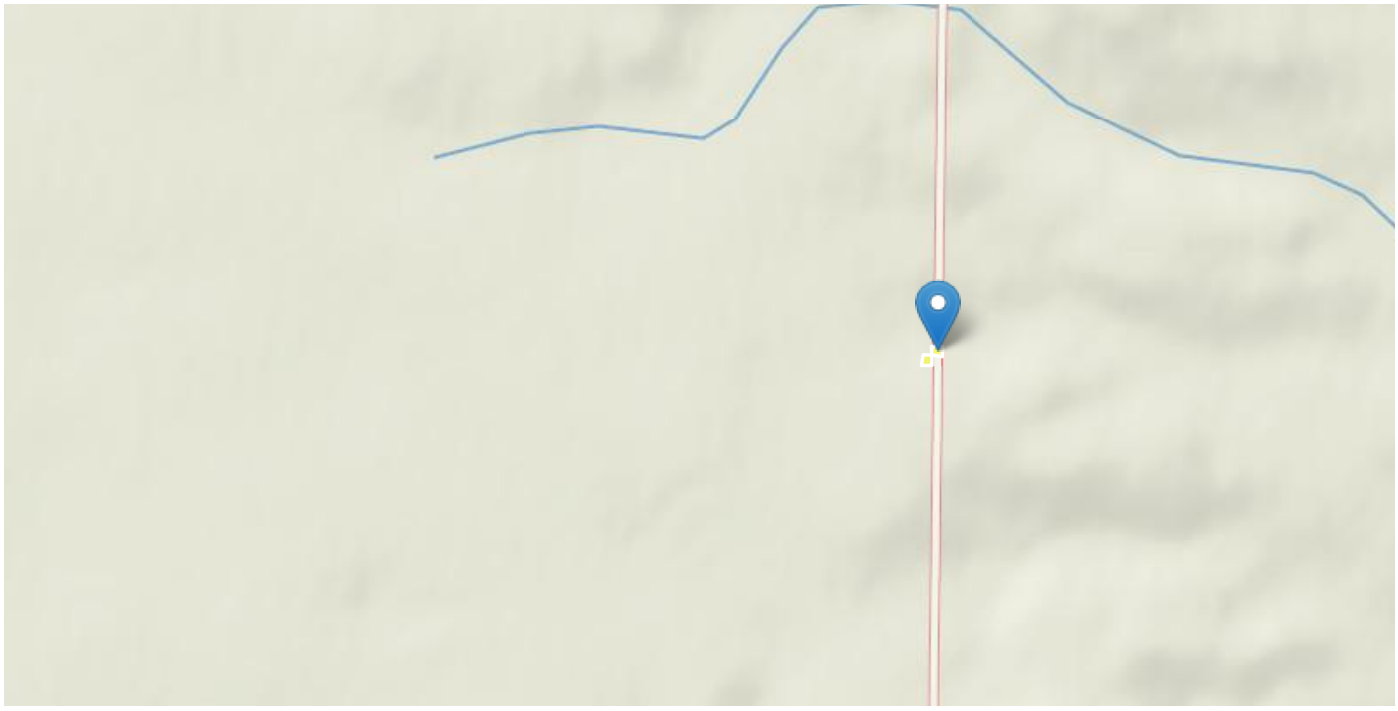
USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved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

USGS Software Disclaimer: This software has been approved for release by the U.S. Geological Survey (USGS). Although the software has been subjected to rigorous review, the USGS reserves the right to update the software as needed pursuant to further analysis and review. No warranty, expressed or implied, is made by the USGS or the U.S. Government as to the functionality of the software and related material nor shall the fact of

Figure 6.2: UNT 1 to Whitewater River

StreamStats Report

Region ID: IN
Workspace ID: IN20241118200930170000
Clicked Point (Latitude, Longitude): 39.92863, -84.83138
Time: 2024-11-18 15:09:54 -0500

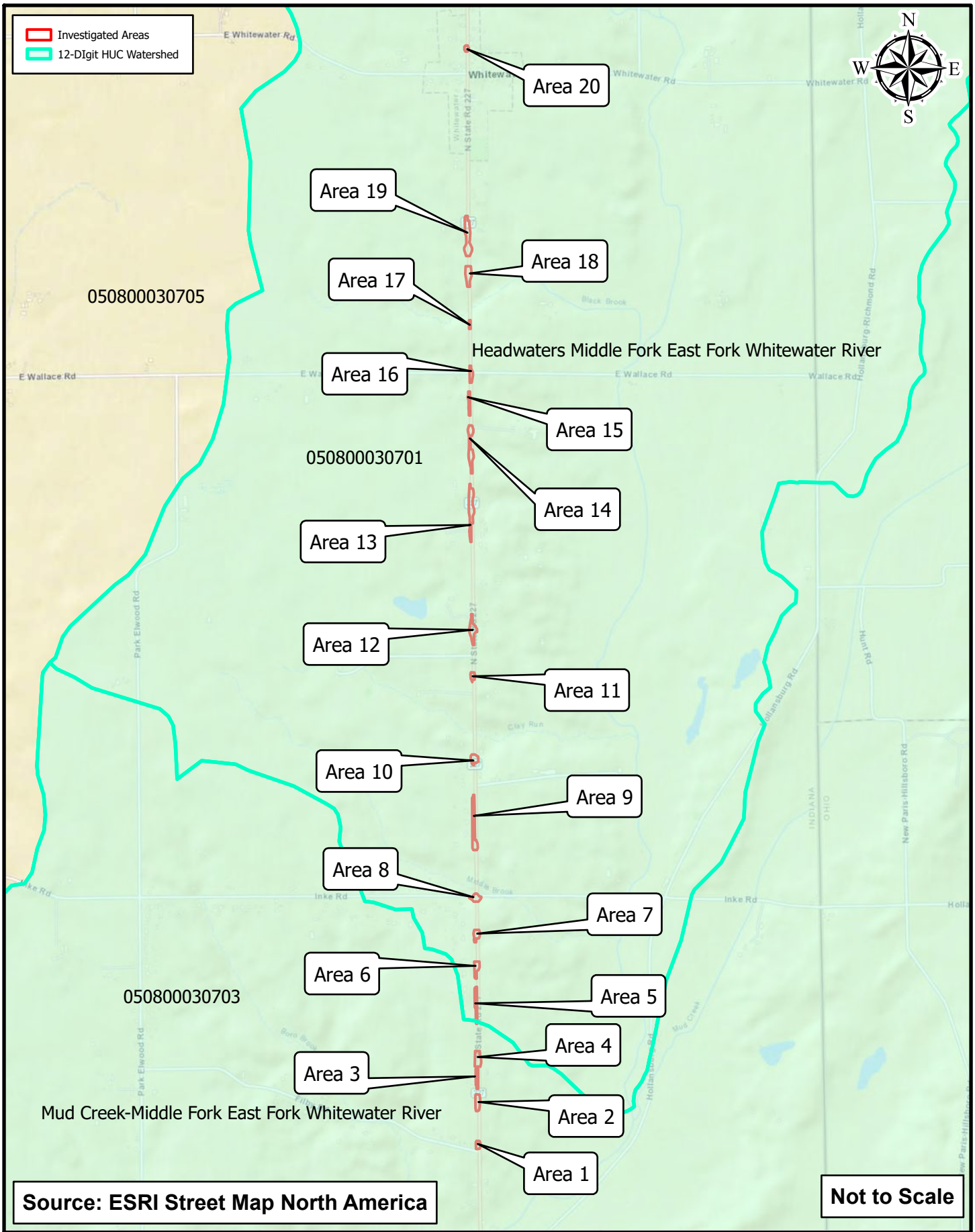


Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CSL10_85	Change in elevation divided by length between points 10 and 85 percent of distance along main channel to basin divide - main channel method not known	358	feet per mi
DRNAREA	Area that drains to a point on a stream	0	square miles

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



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Figure 7: 12-Digit HUC Mapping

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 11/05/2024



Figure 8: Water Resources Map
Area 1

SR 227 Small Structure Replacements Project
Des. No. 2200507

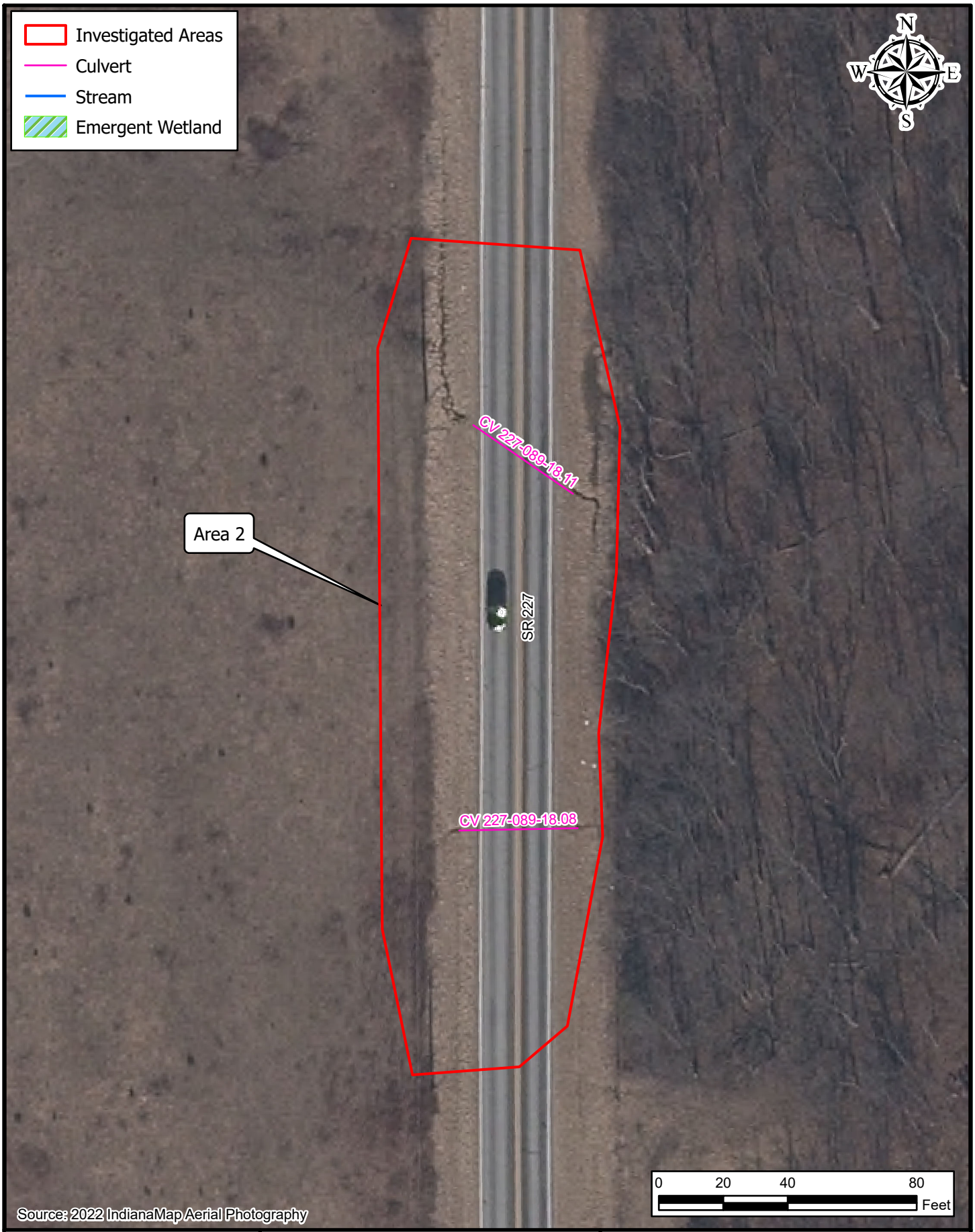
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

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INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

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Figure 8: Water Resources Map
Area 2

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

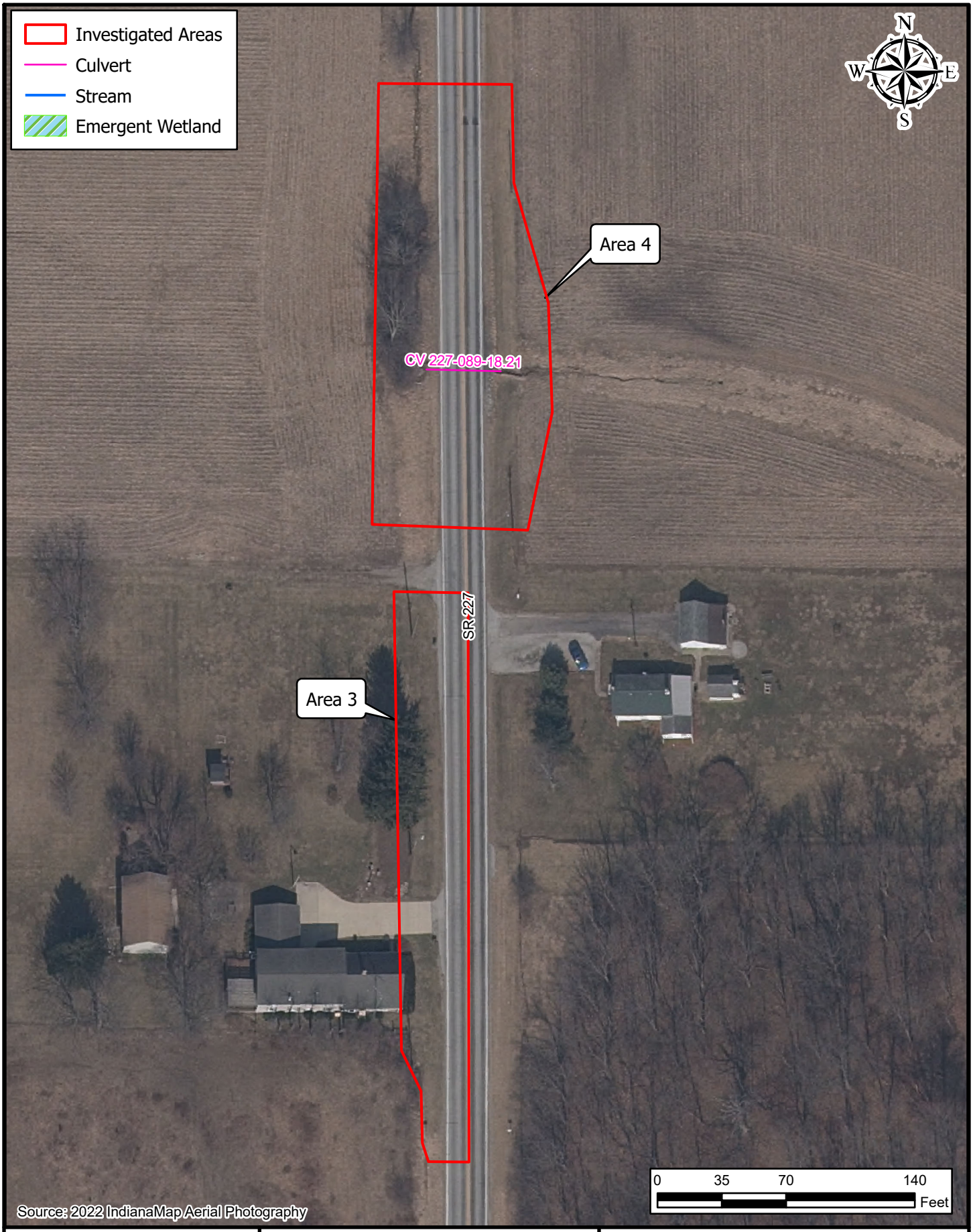


Figure 8: Water Resources Map
Area 3

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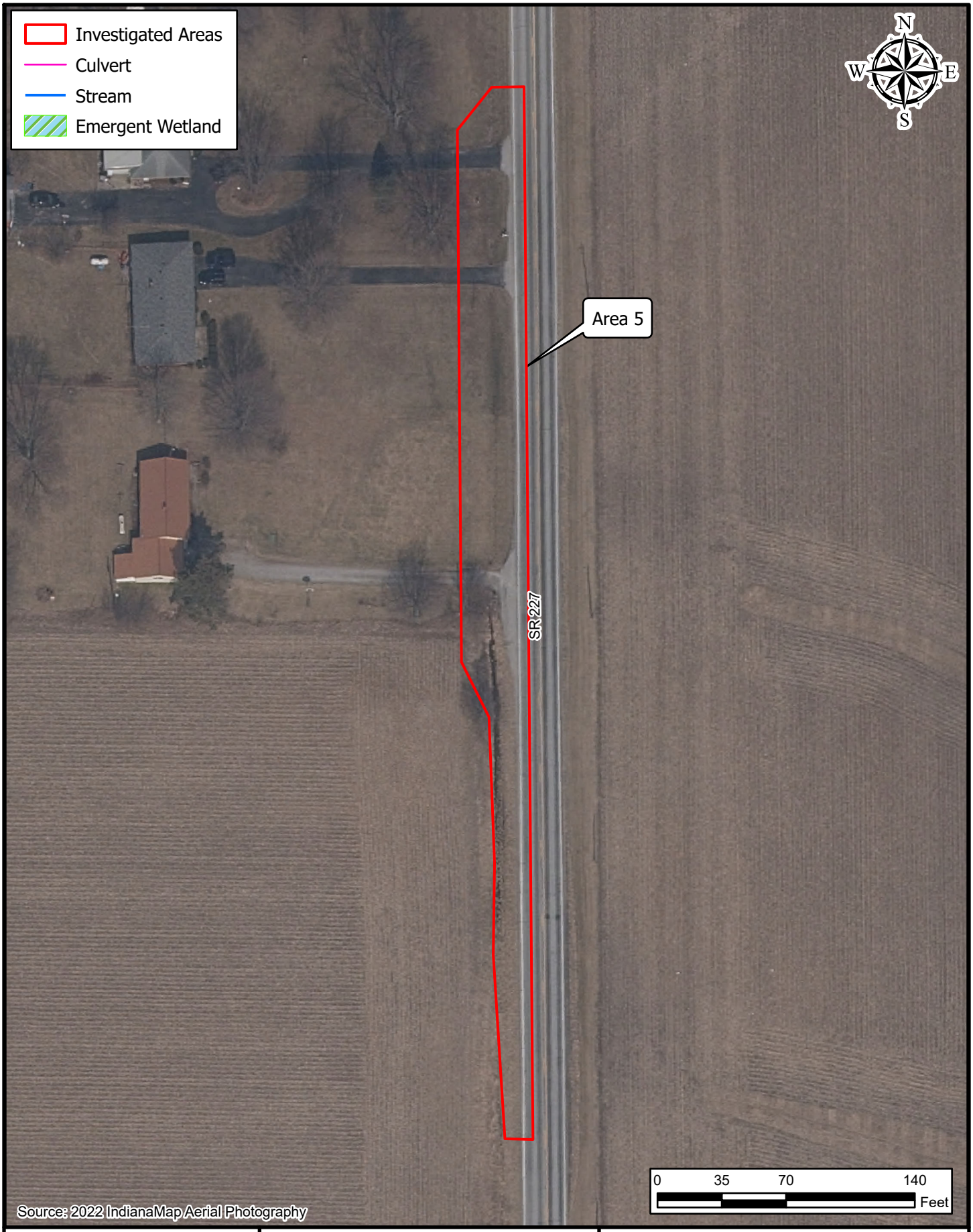
INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

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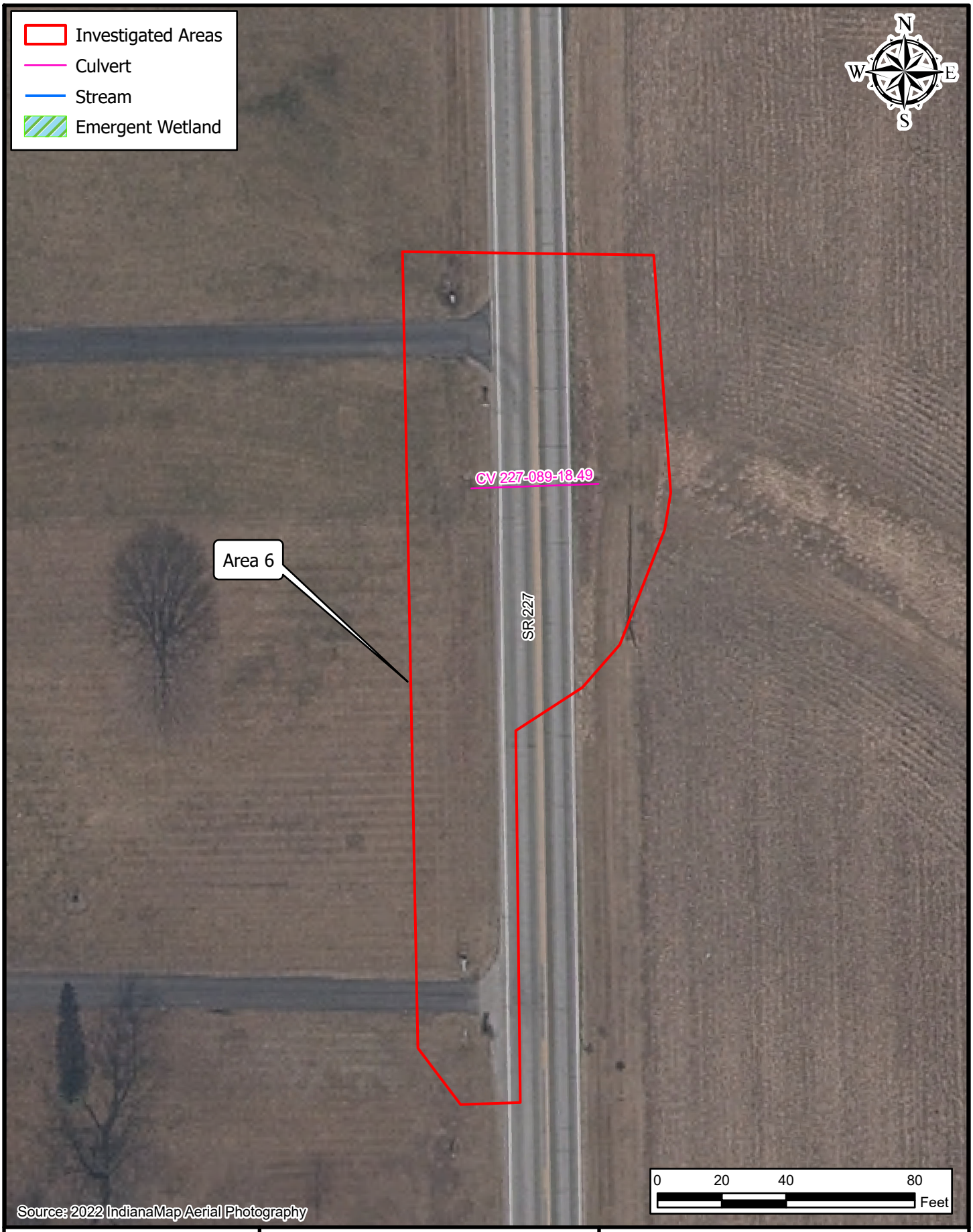
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Figure 8: Water Resources Map
Area 5

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana
Date: 10/24/2024



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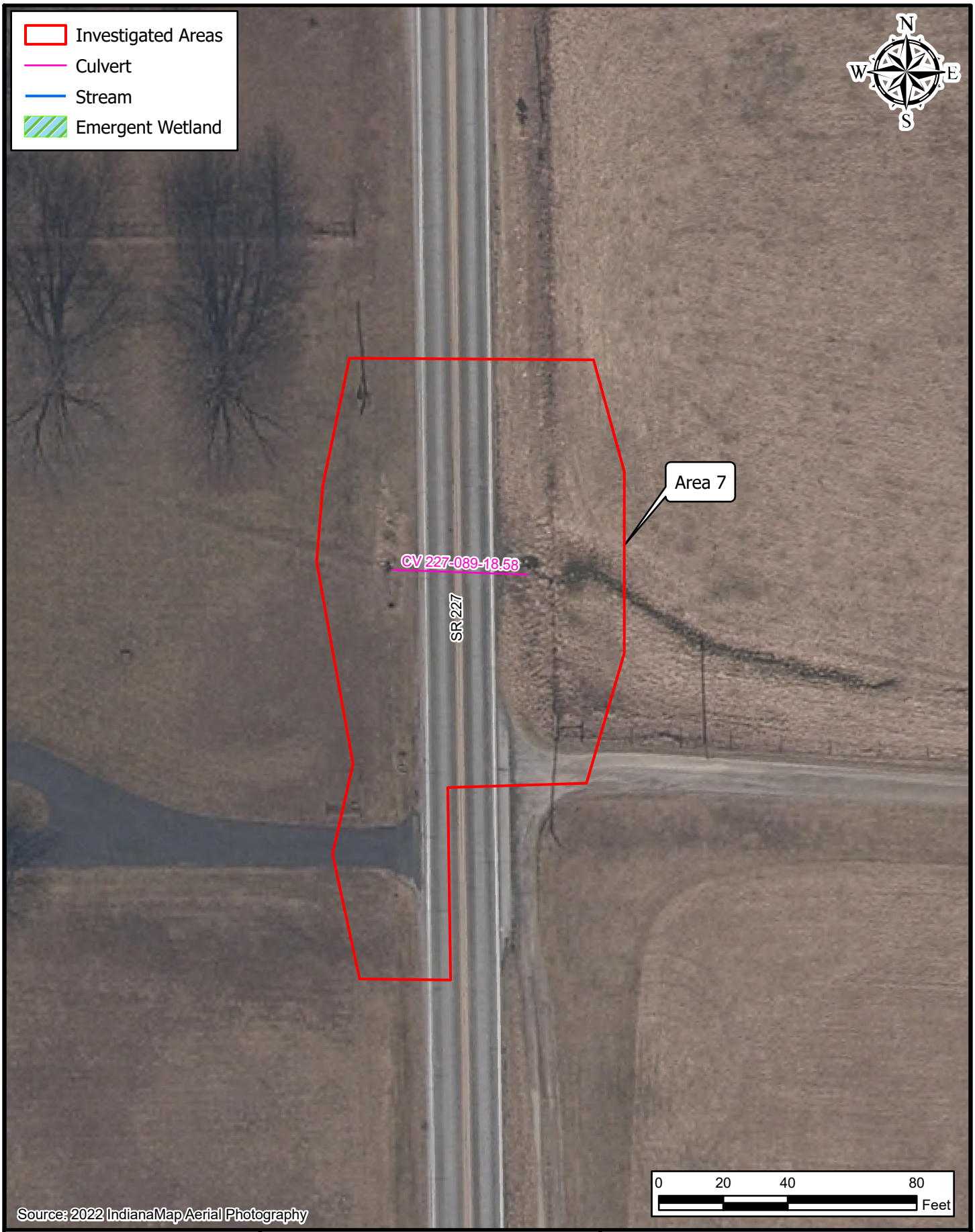
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Figure 8: Water Resources Map
Area 6

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



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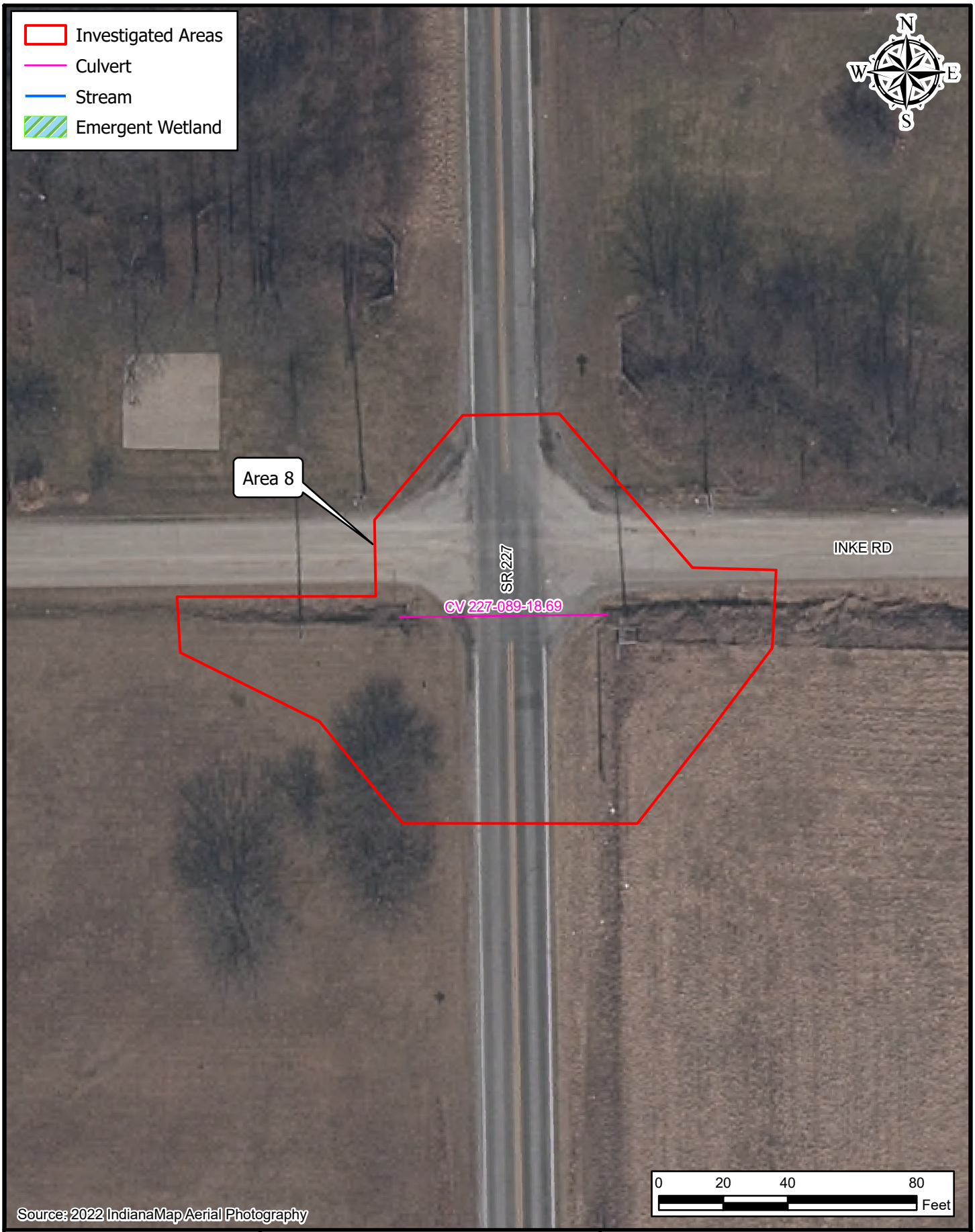
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Figure 8: Water Resources Map
Area 7

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



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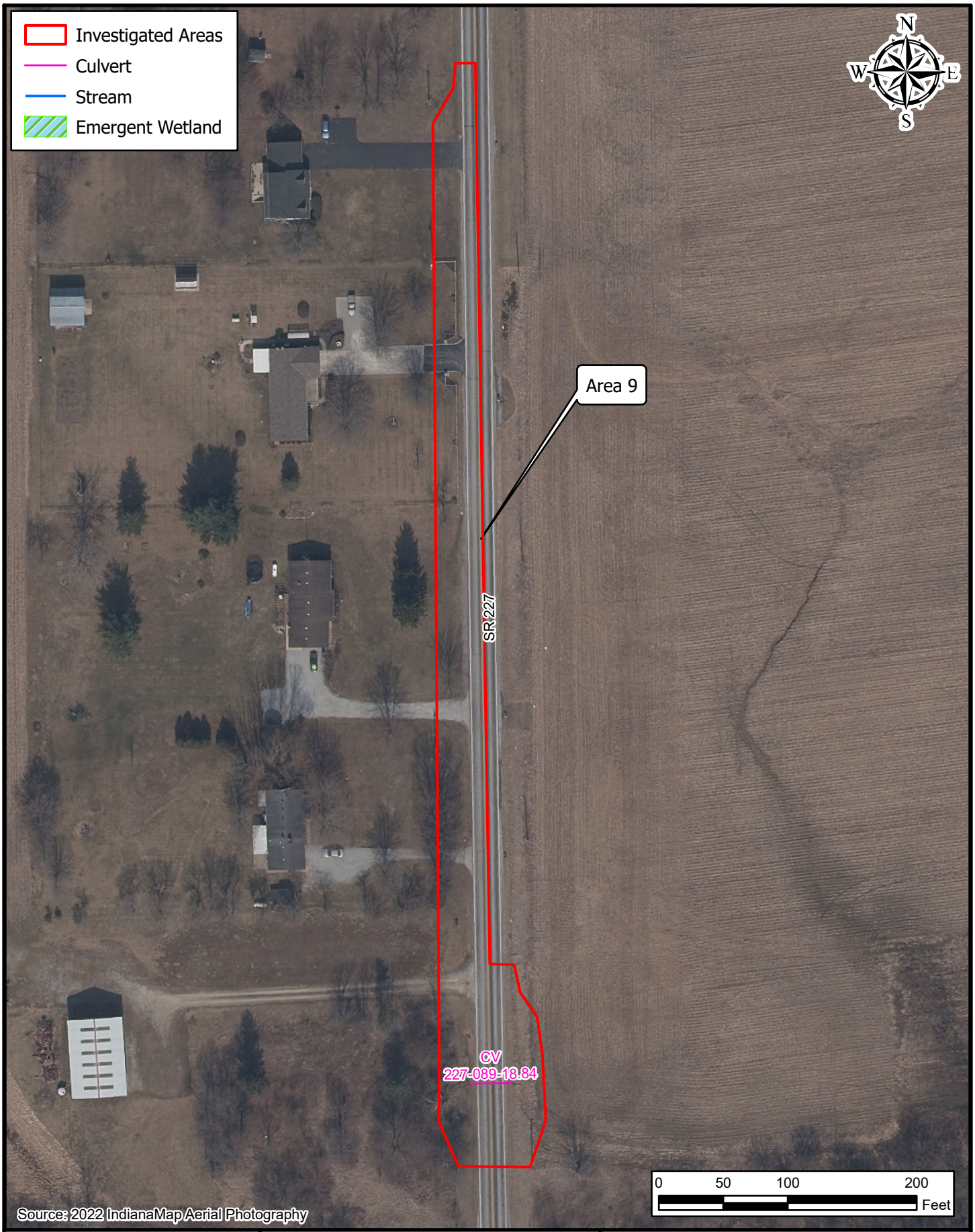
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Figure 8: Water Resources Map
Area 8

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



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Figure 8: Water Resources Map
Area 9

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana
Date: 10/24/2024

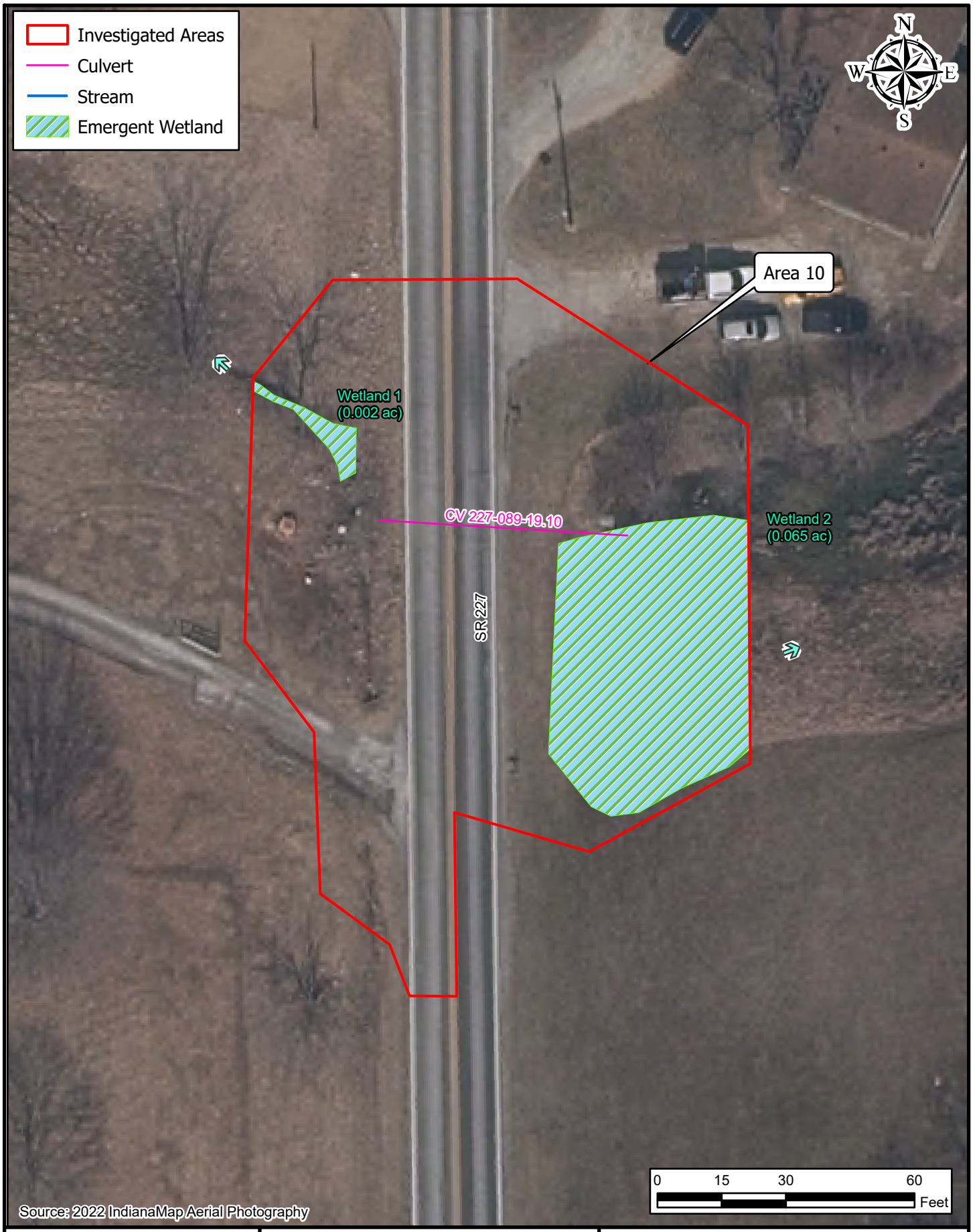


Figure 8: Water Resources Map
Area 10

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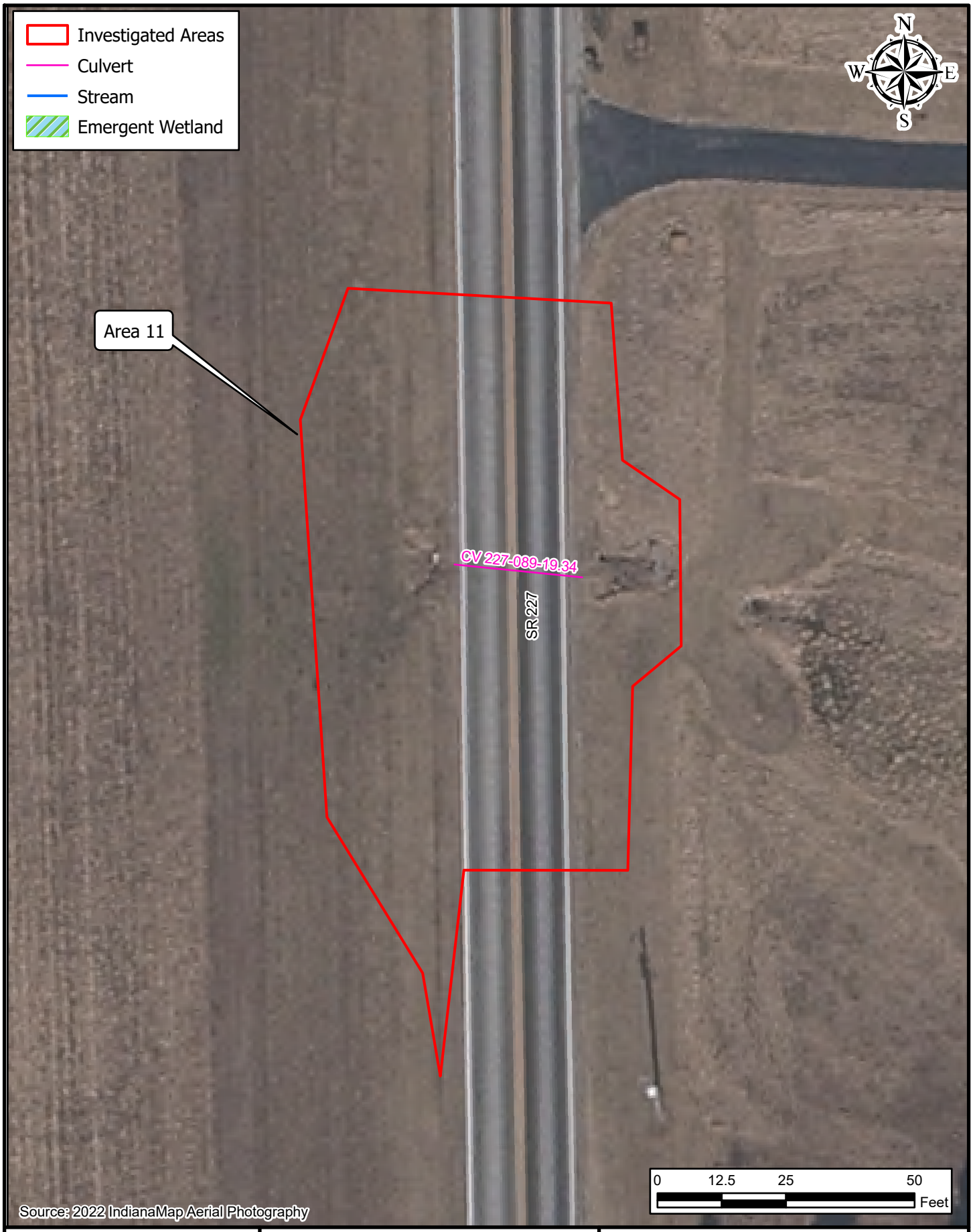
INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

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Figure 8: Water Resources Map
Area 11

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

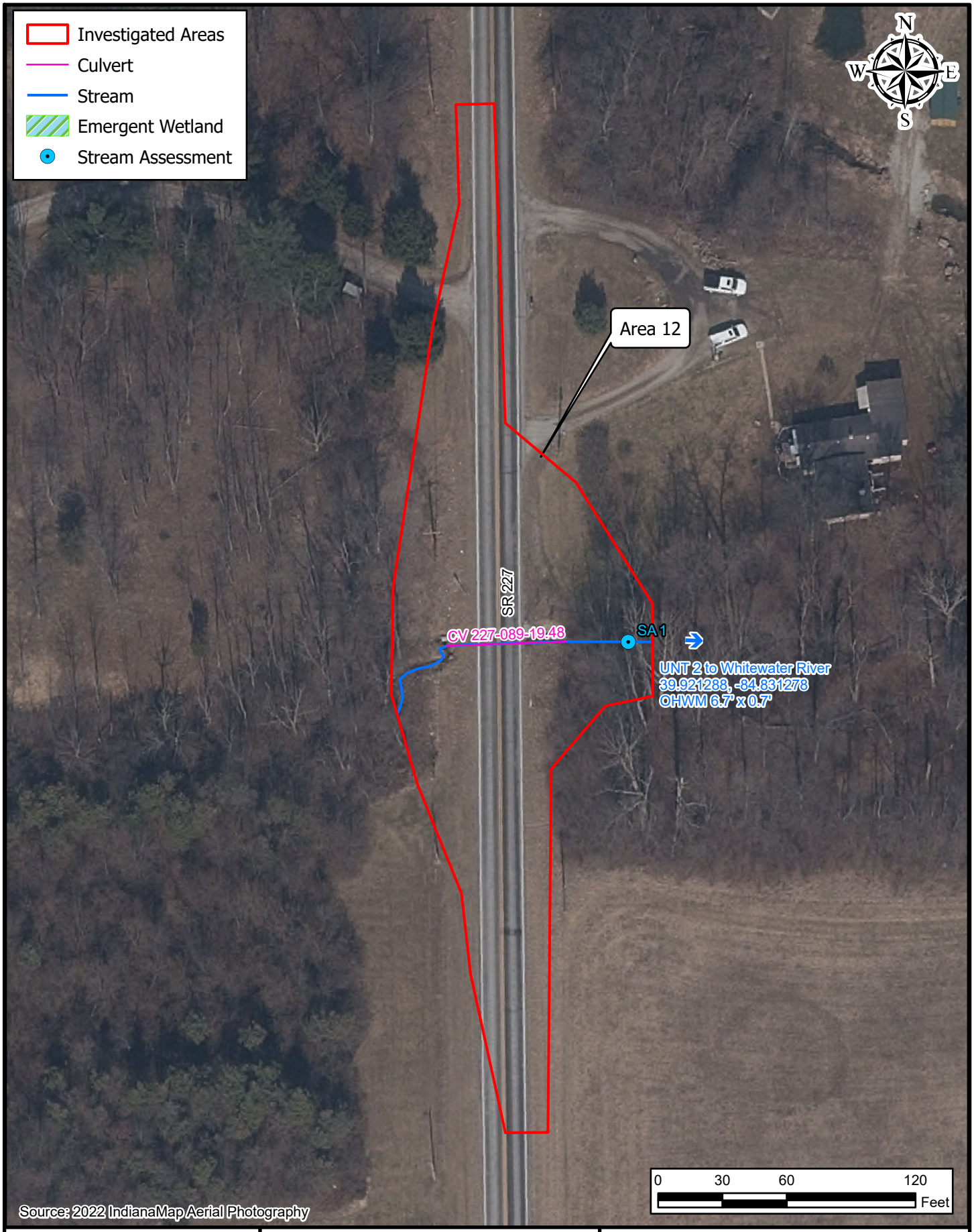


Figure 8: Water Resources Map
Area 12

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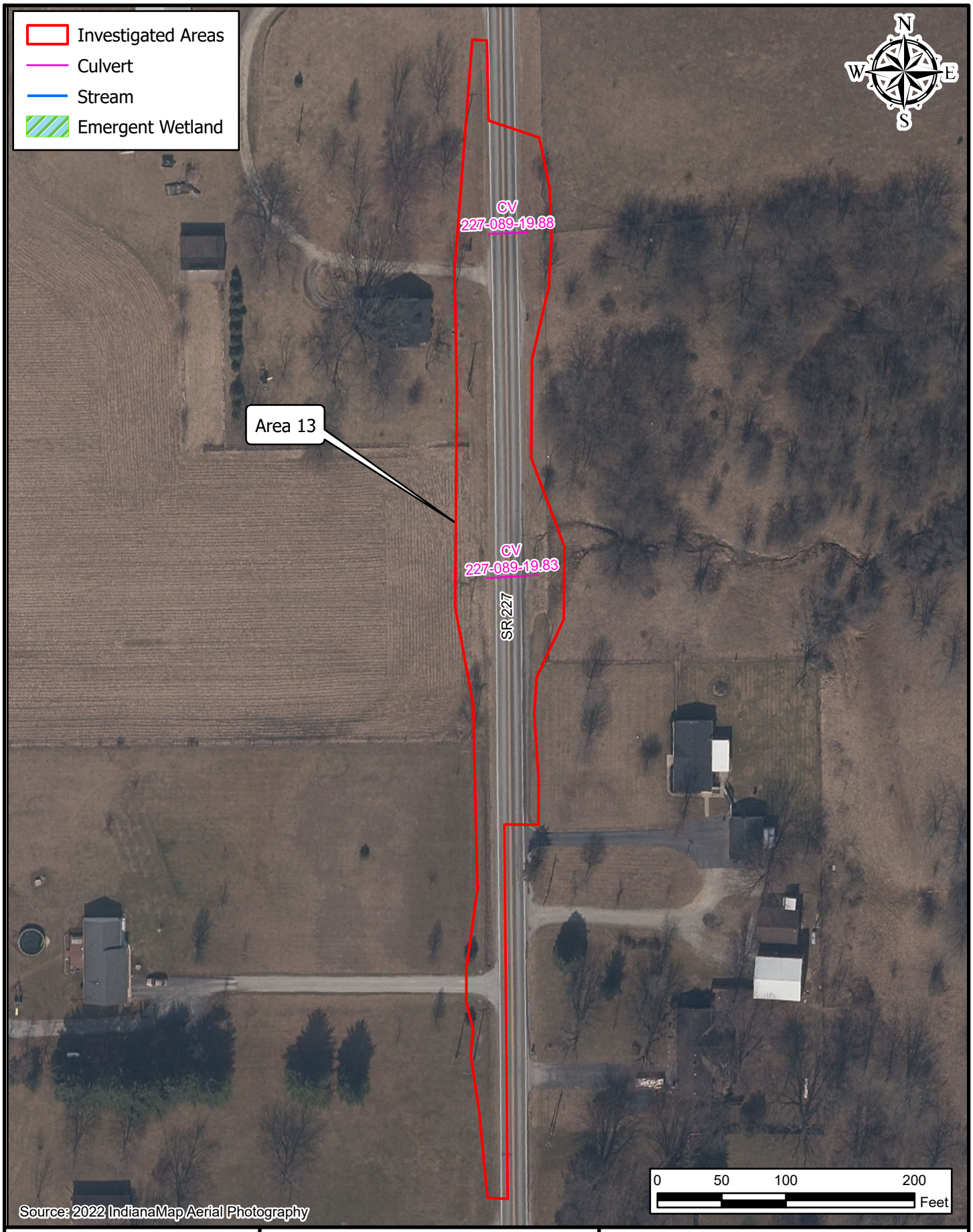
INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

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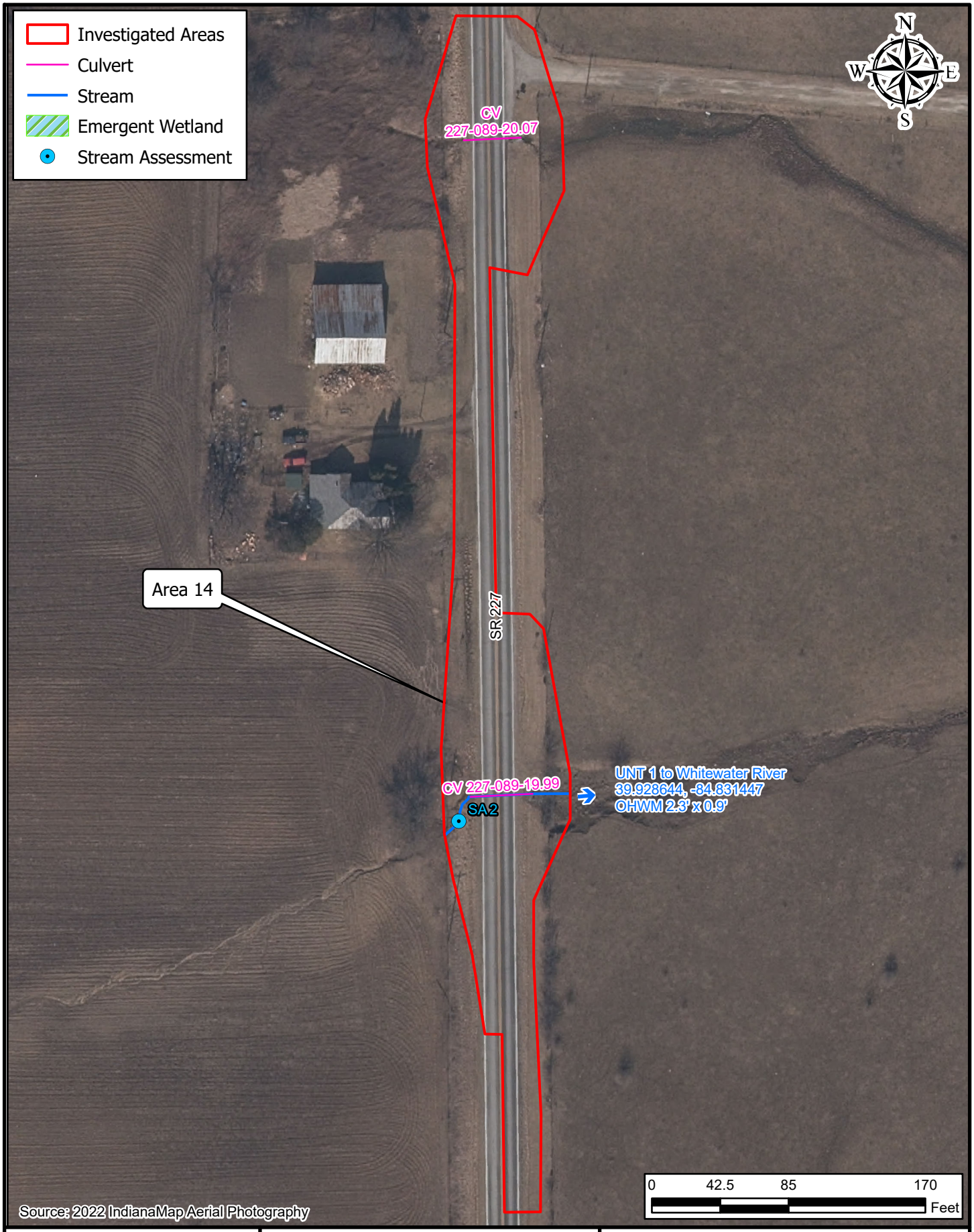
Figure 8: Water Resources Map
Area 13

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



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Figure 8: Water Resources Map
Area 14

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

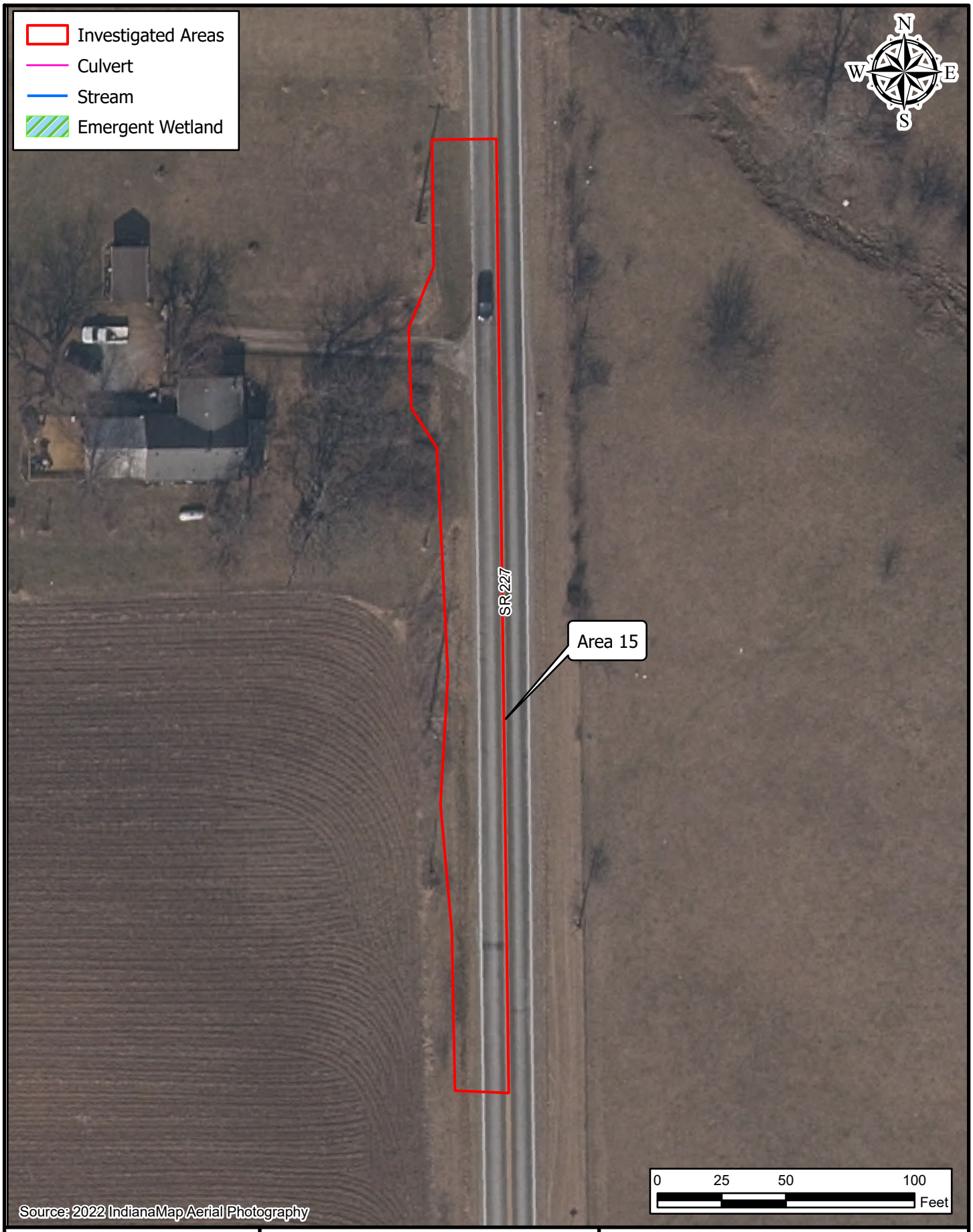


Figure 8: Water Resources Map
Area 15

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

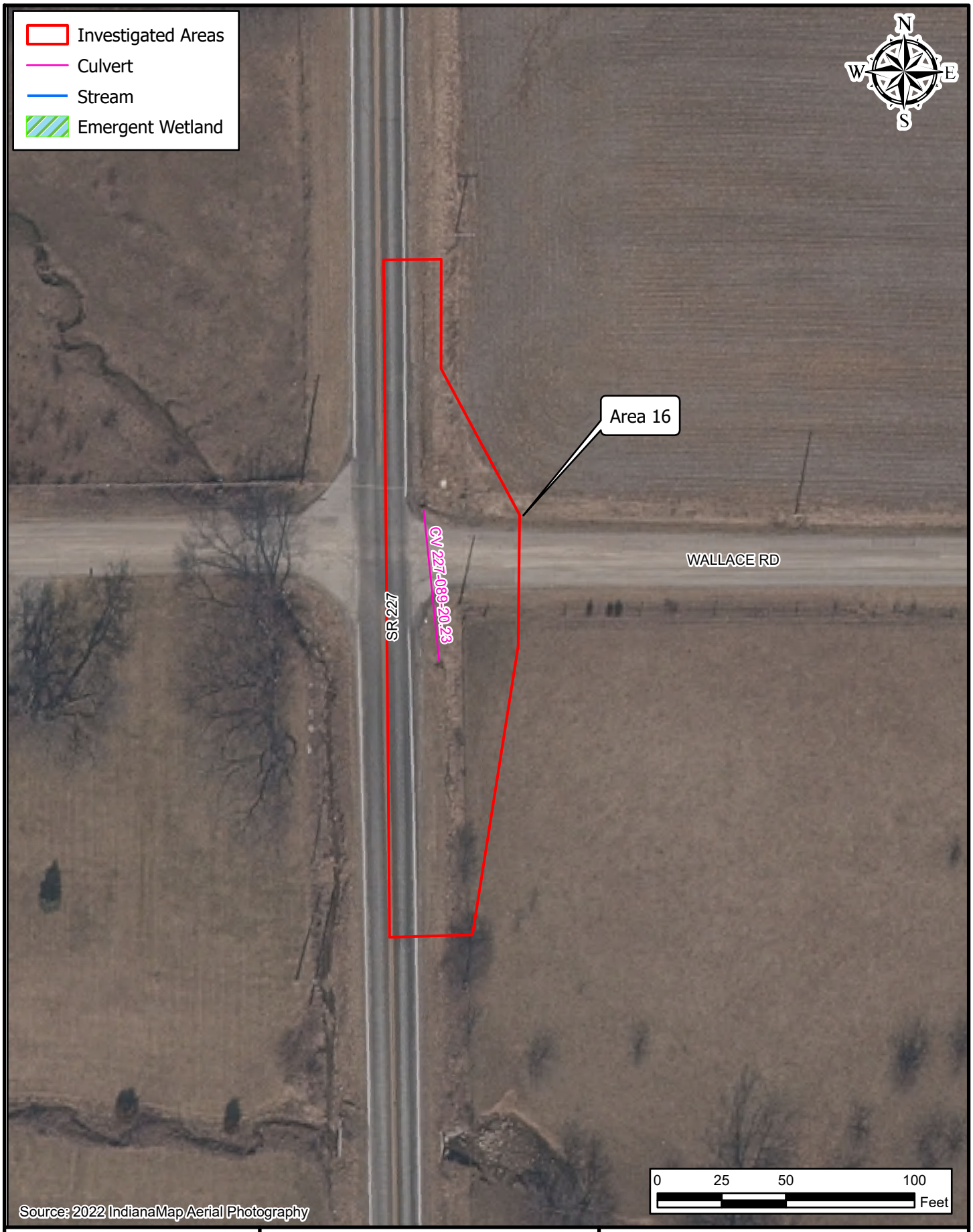
Date: 10/24/2024

Appendix F
F - 44

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INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

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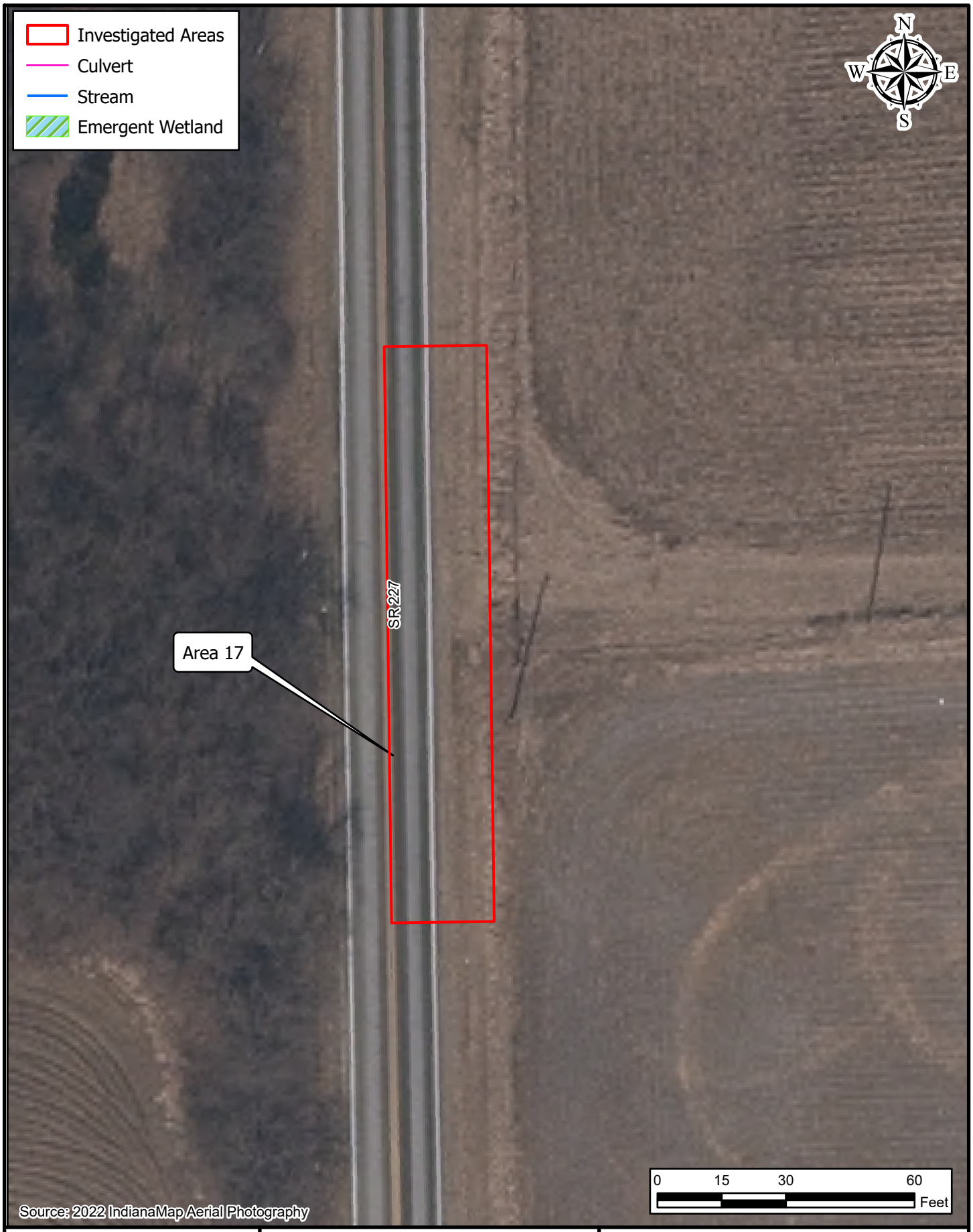
Figure 8: Water Resources Map
Area 16

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



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Figure 8: Water Resources Map
Area 17

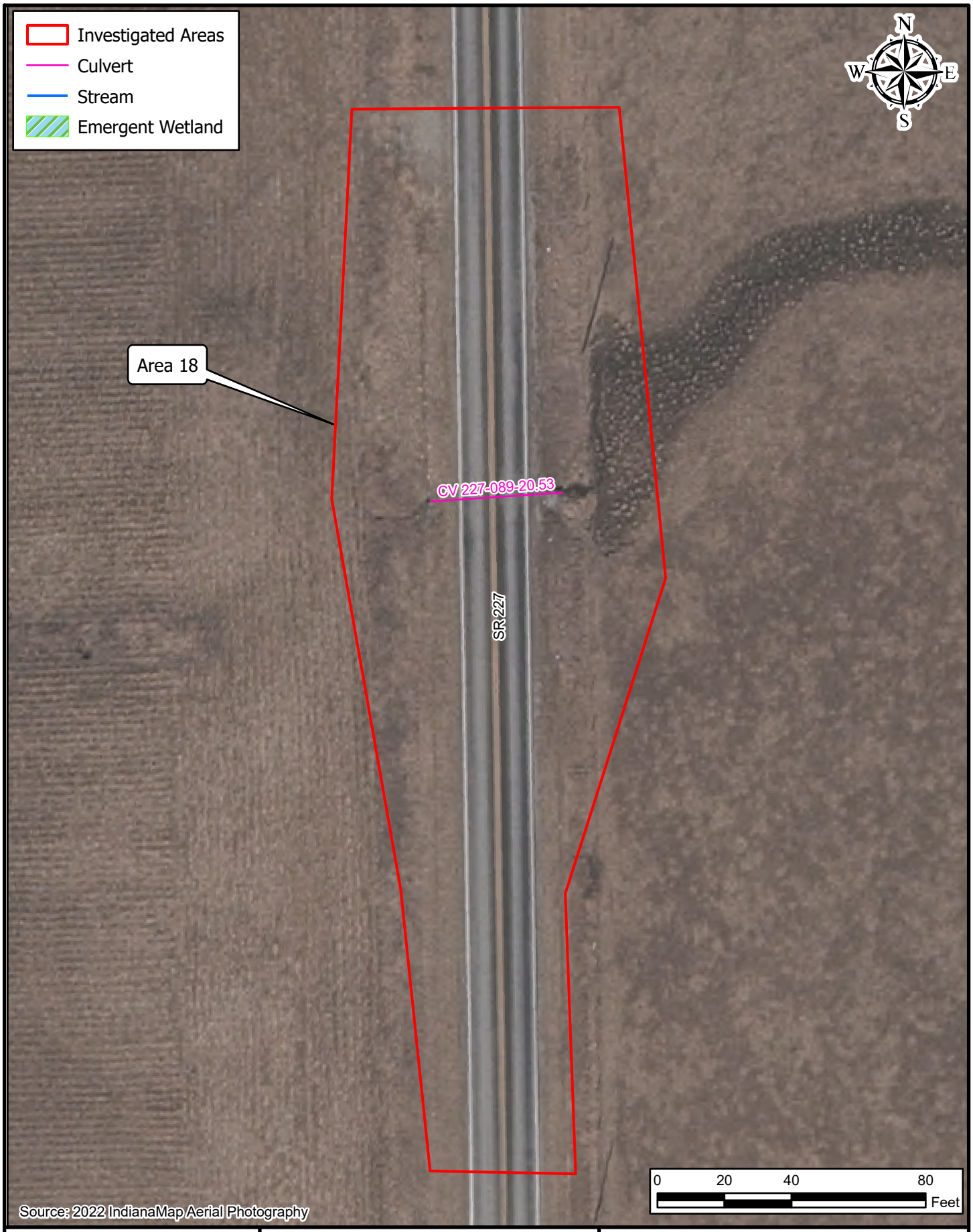
INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

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Figure 8: Water Resources Map
Area 18

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

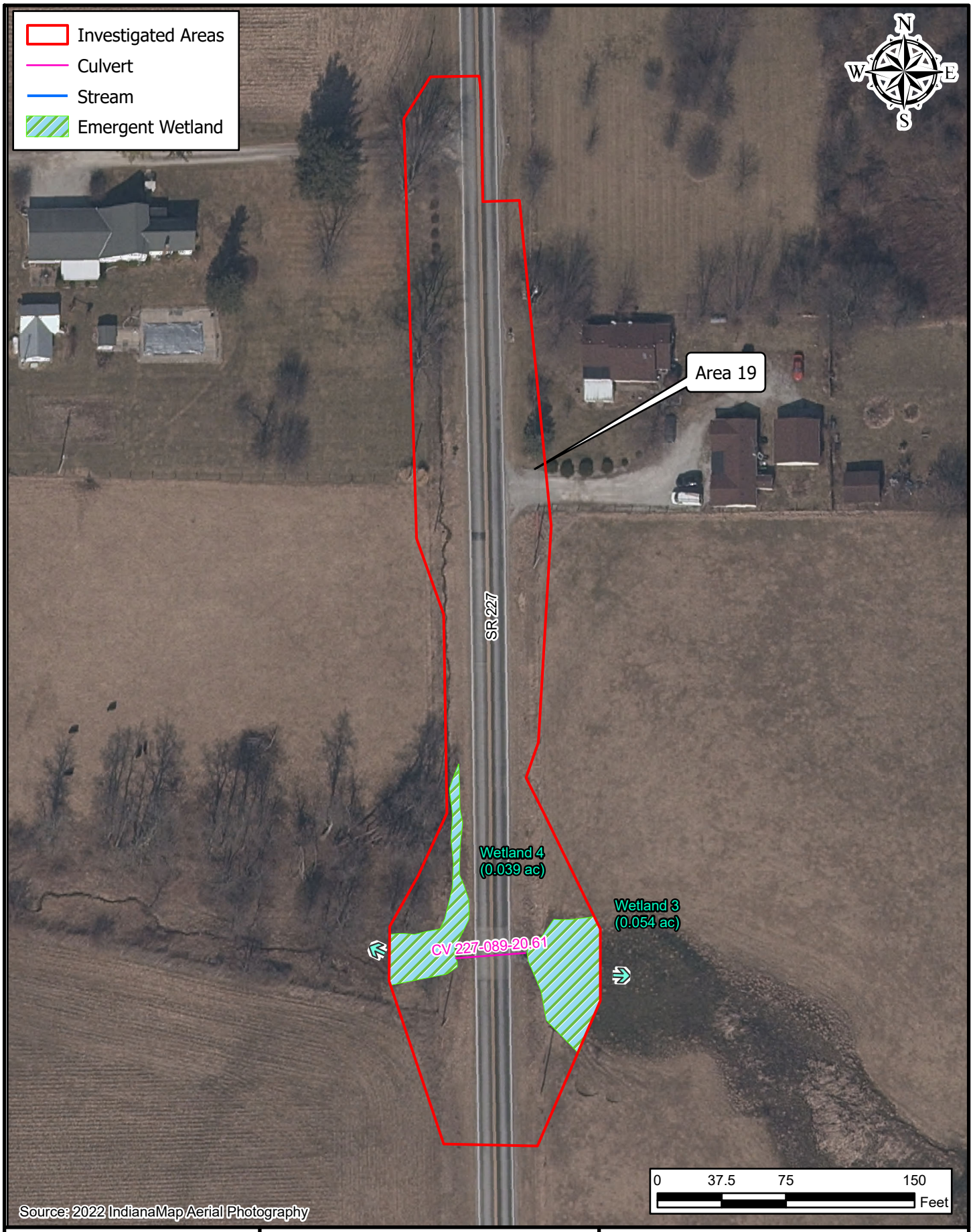


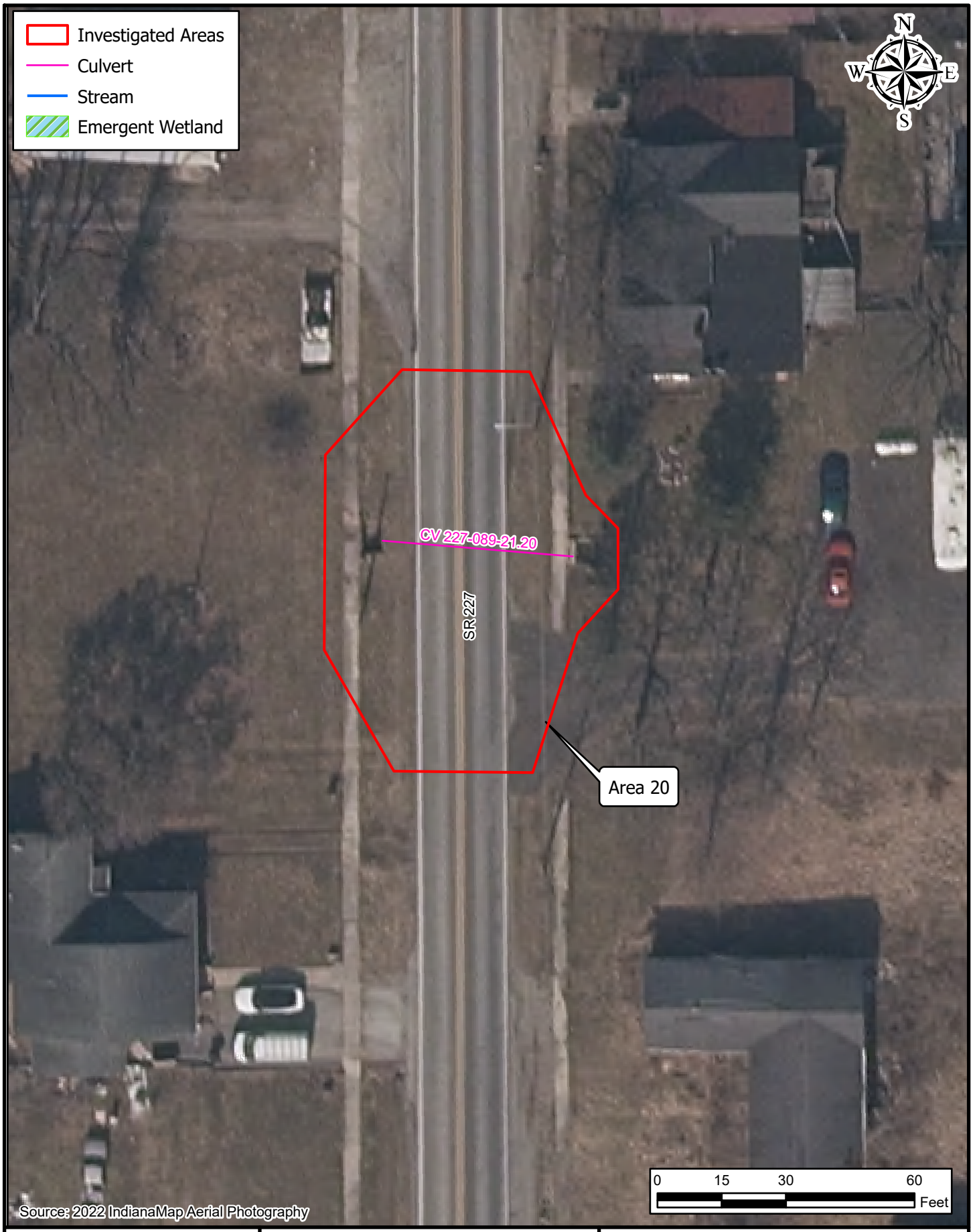
Figure 8: Water Resources Map
Area 19

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INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana
Date: 10/24/2024

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Figure 8: Water Resources Map
Area 20

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



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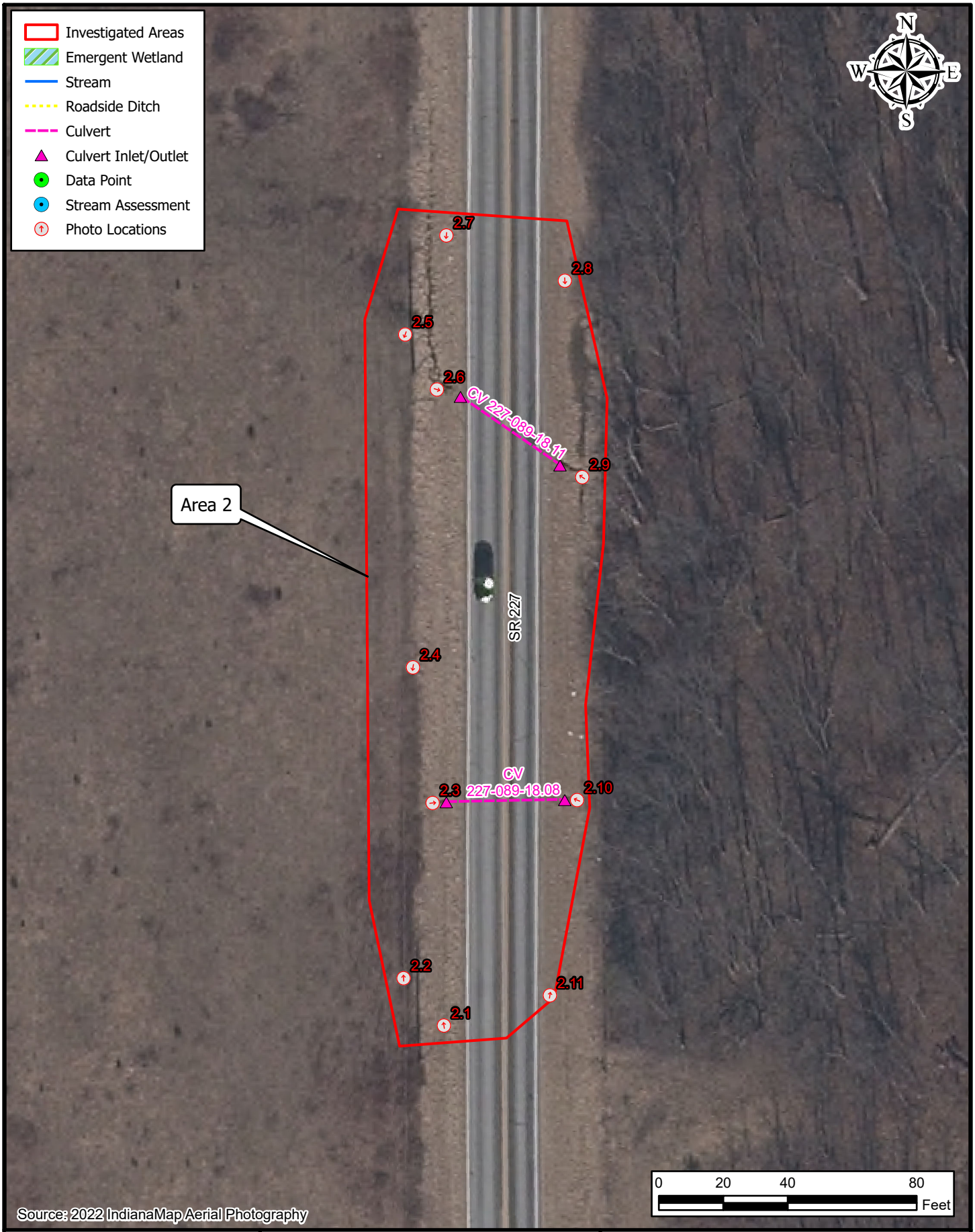
Figure 9: Photo Location and Water Resources Map
Area 1

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



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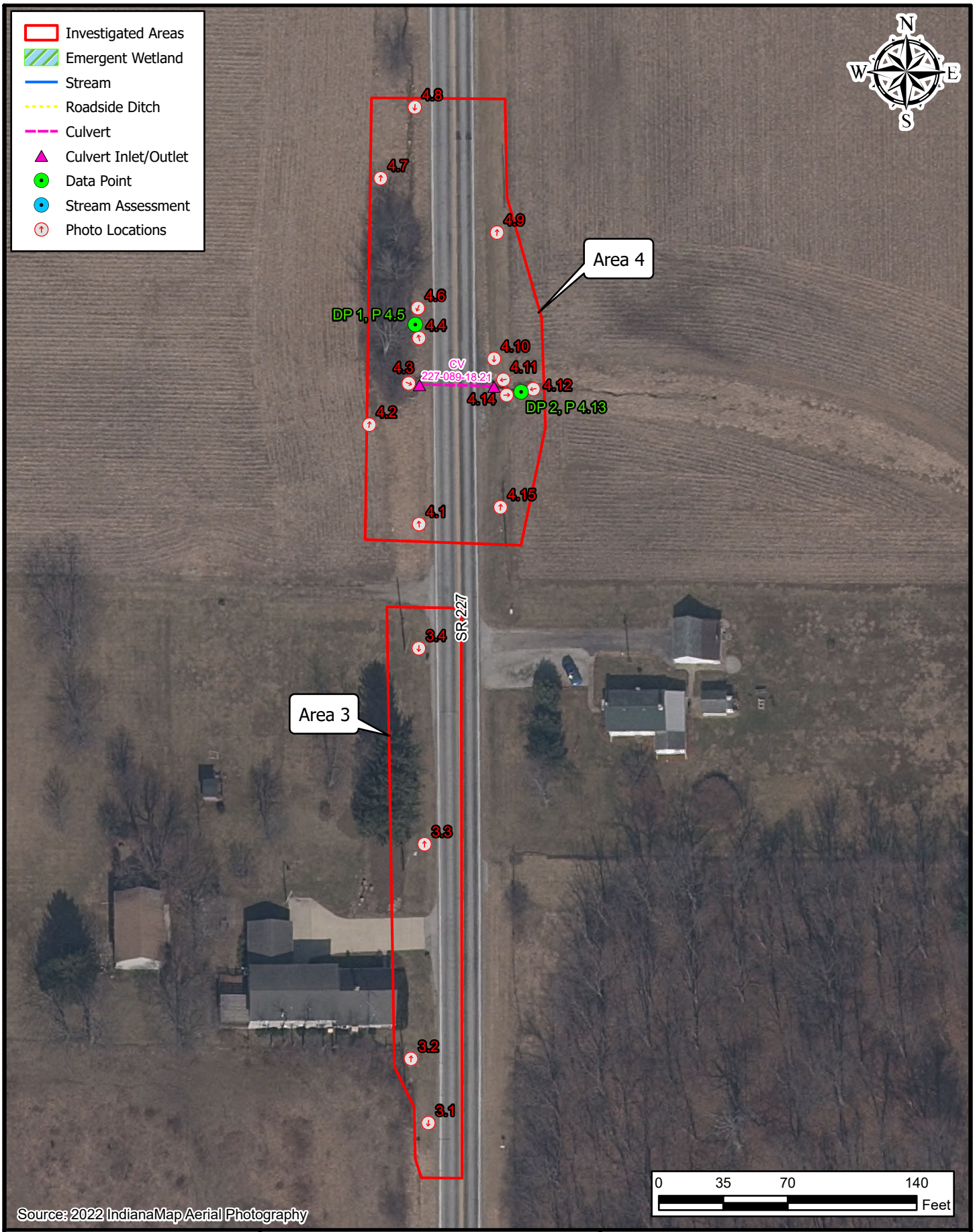
AMERICAN STRUCTUREPOINT INC.

Figure 9: Photo Location and Water Resources Map
Area 2

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:4/10/2025 User:mtrotter

AMERICAN STRUCTUREPOINT INC.

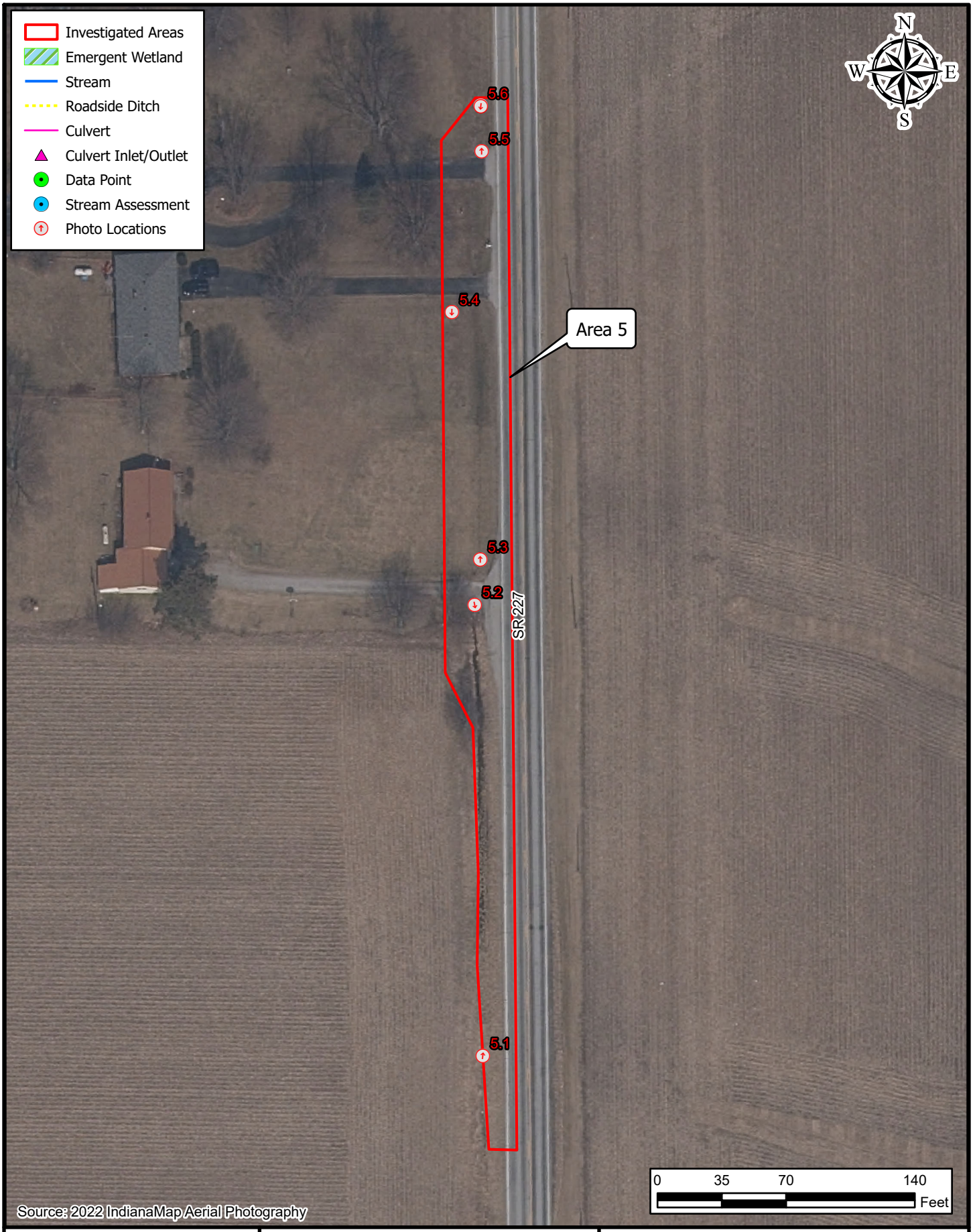
Figure 9: Photo Location and Water Resources Map
Areas 3 and 4

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:2/21/2025 User:mtrotter

AMERICAN STRUCTUREPOINT INC.

Figure 9: Photo Location and Water Resources Map
Area 5

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

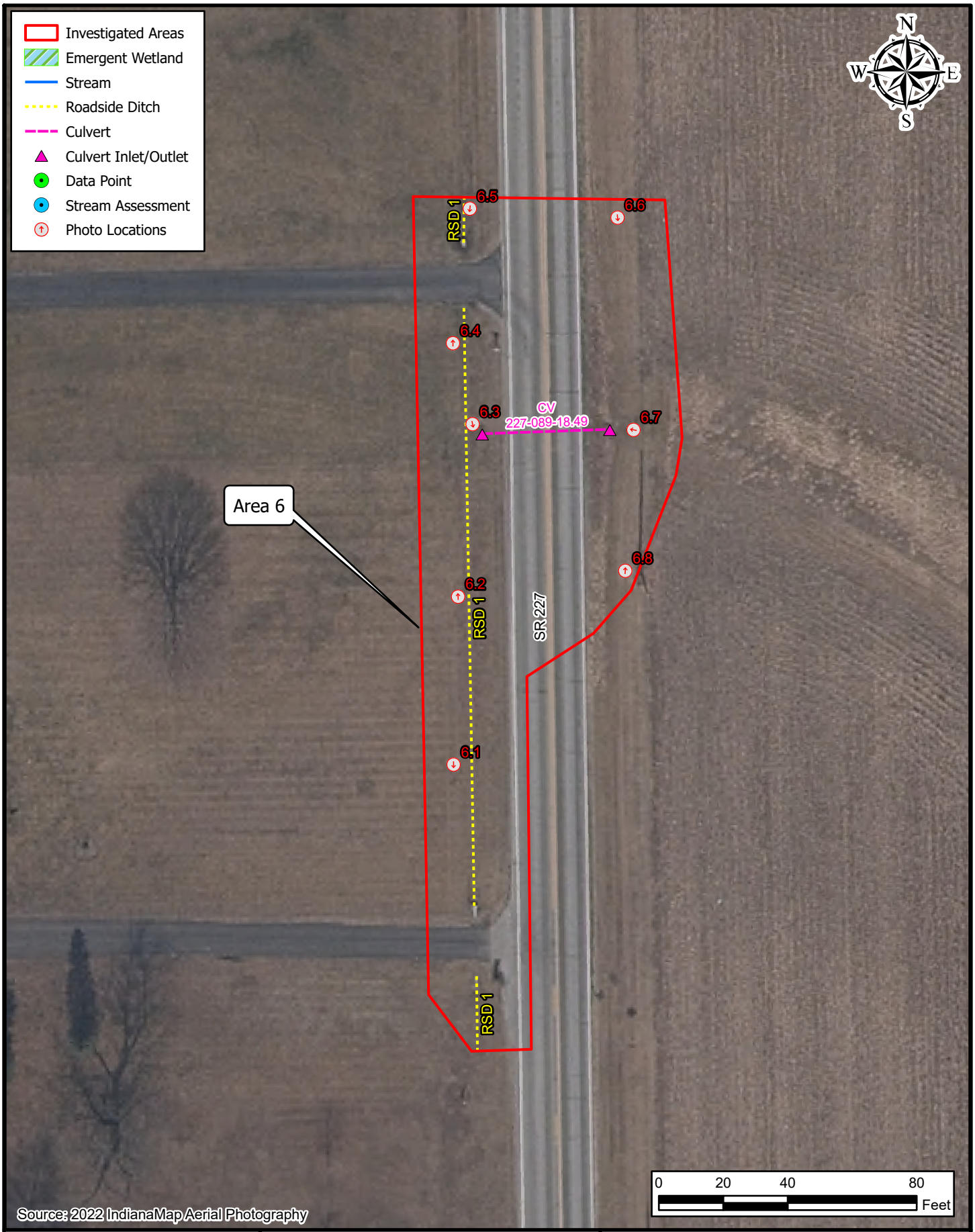


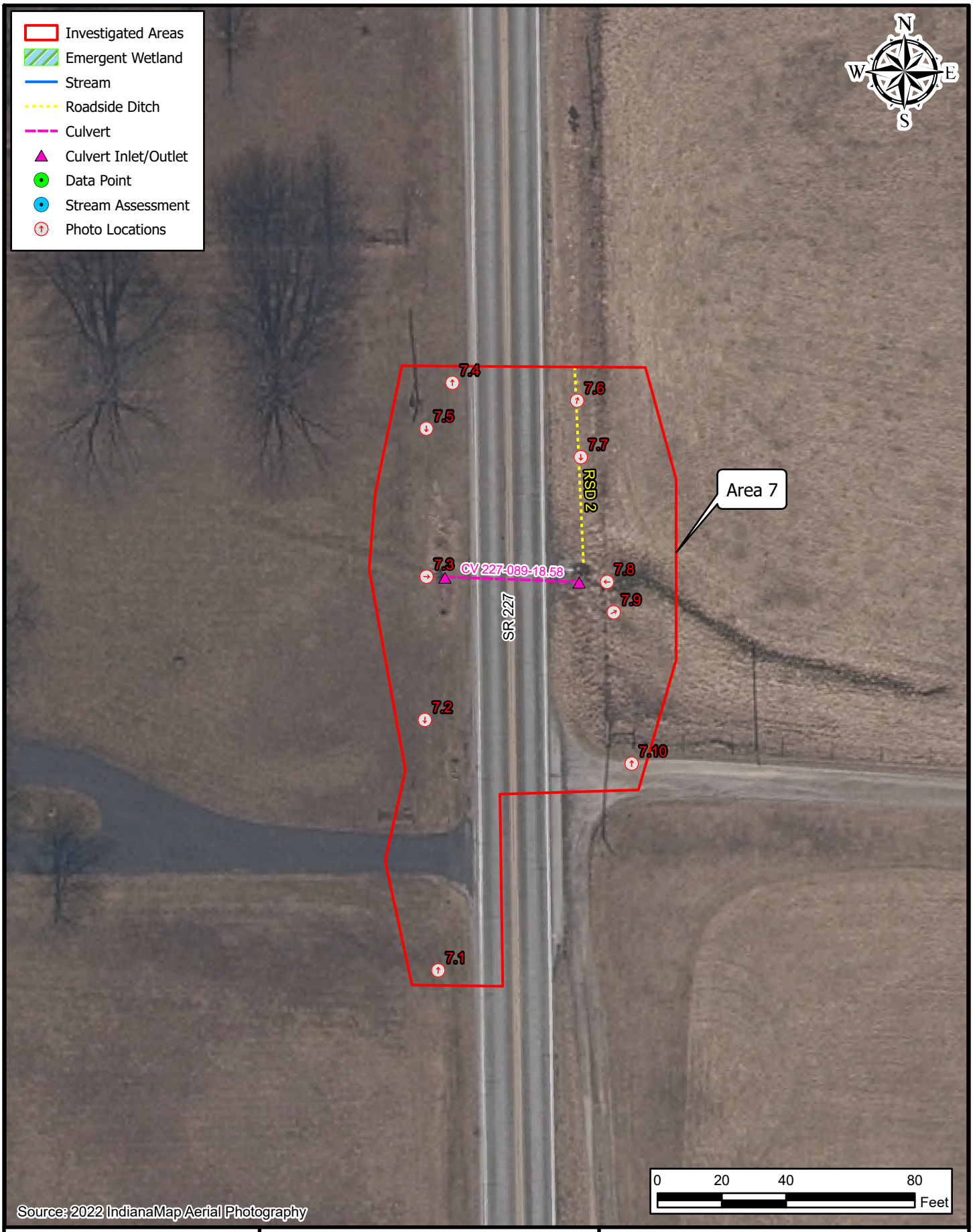
Figure 9: Photo Location and Water Resources Map
Area 6

AMERICAN STRUCTUREPOINT INC.

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana
Date: 10/24/2024

Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:4/10/2025 User:mtrotter



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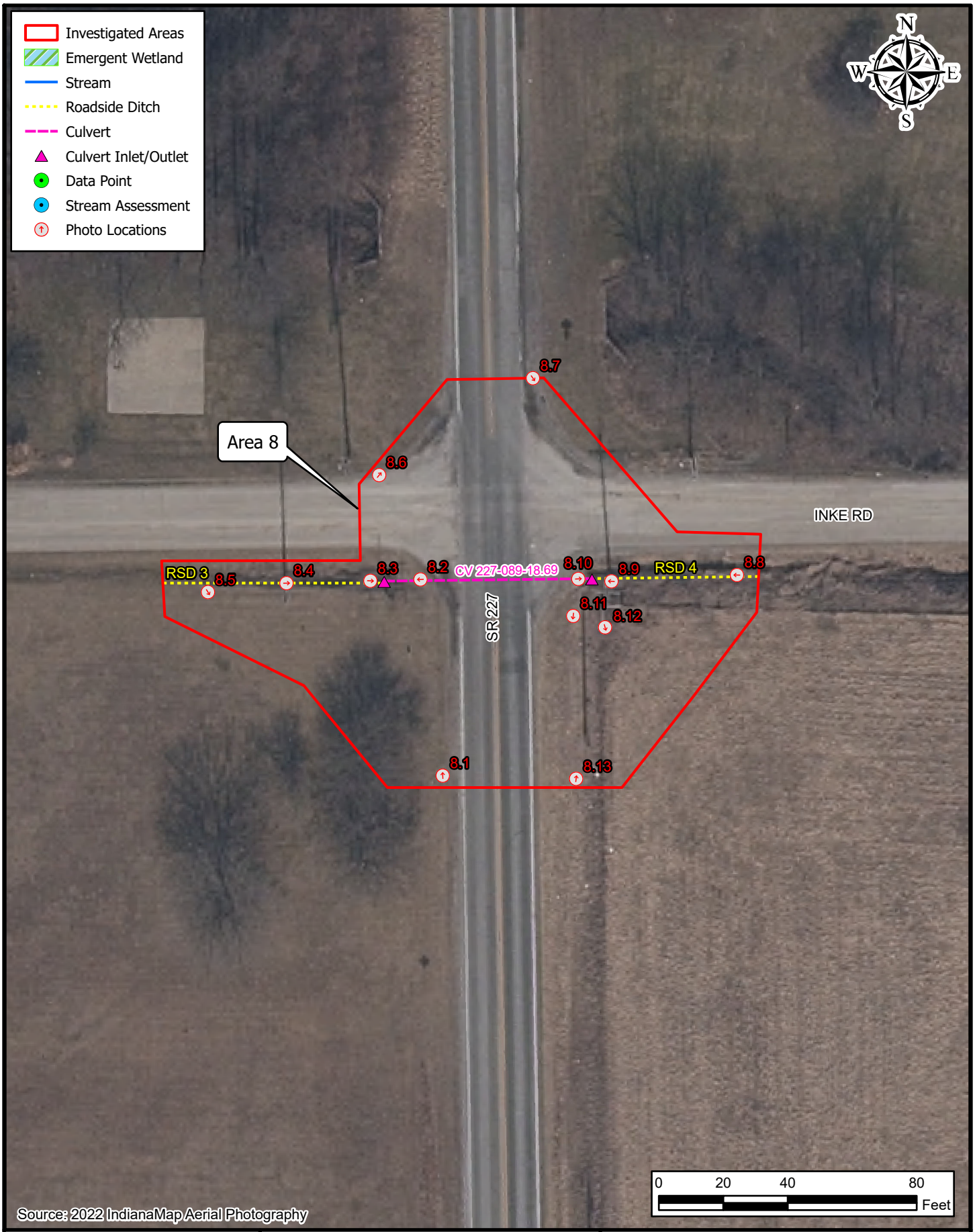
AMERICAN STRUCTUREPOINT INC.

Figure 9: Photo Location and Water Resources Map
Area 7

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



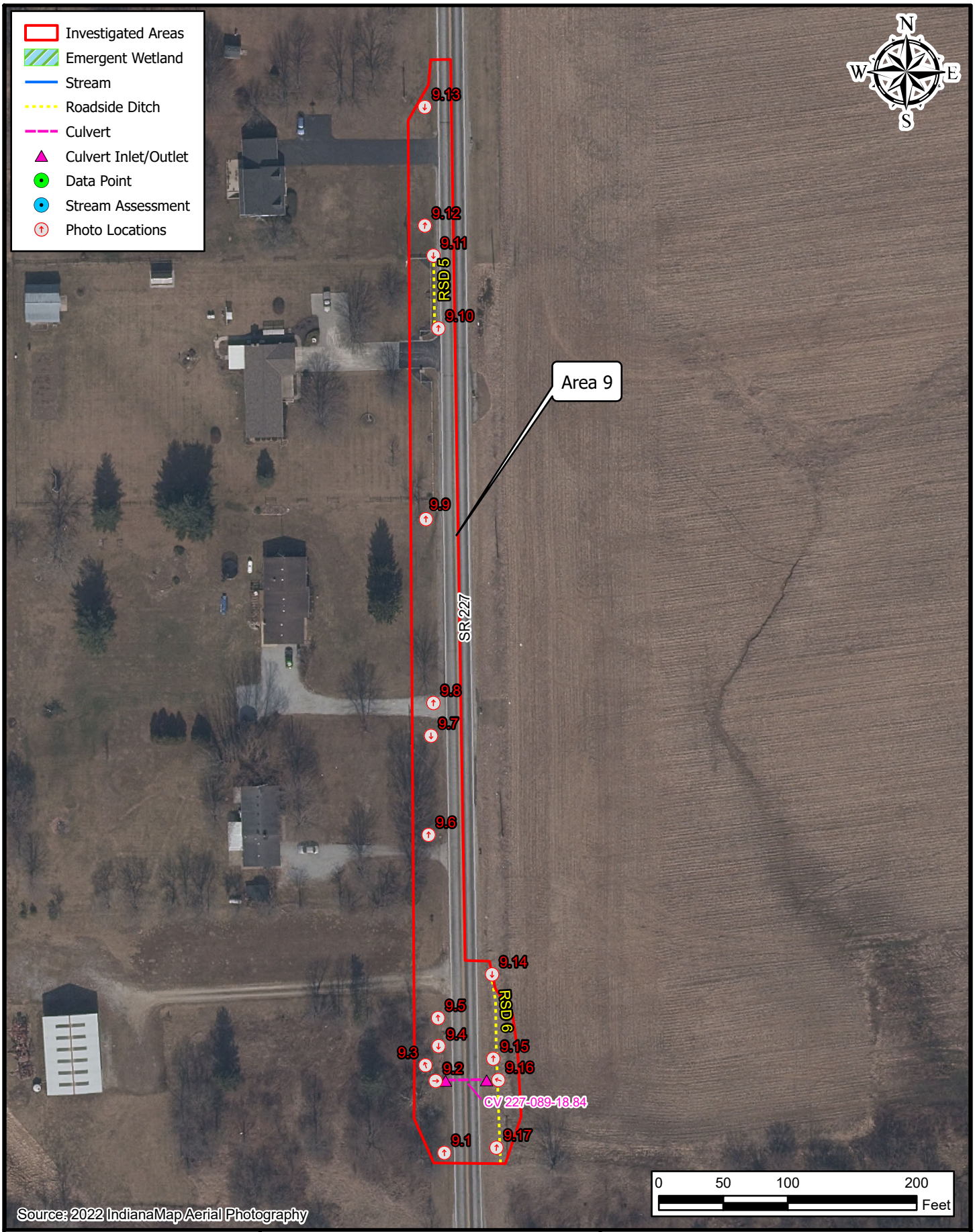
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AMERICAN STRUCTUREPOINT INC.

Figure 9: Photo Location and Water Resources Map
Area 8

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana
Date: 10/24/2024



Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:4/10/2025 User:mtrotter

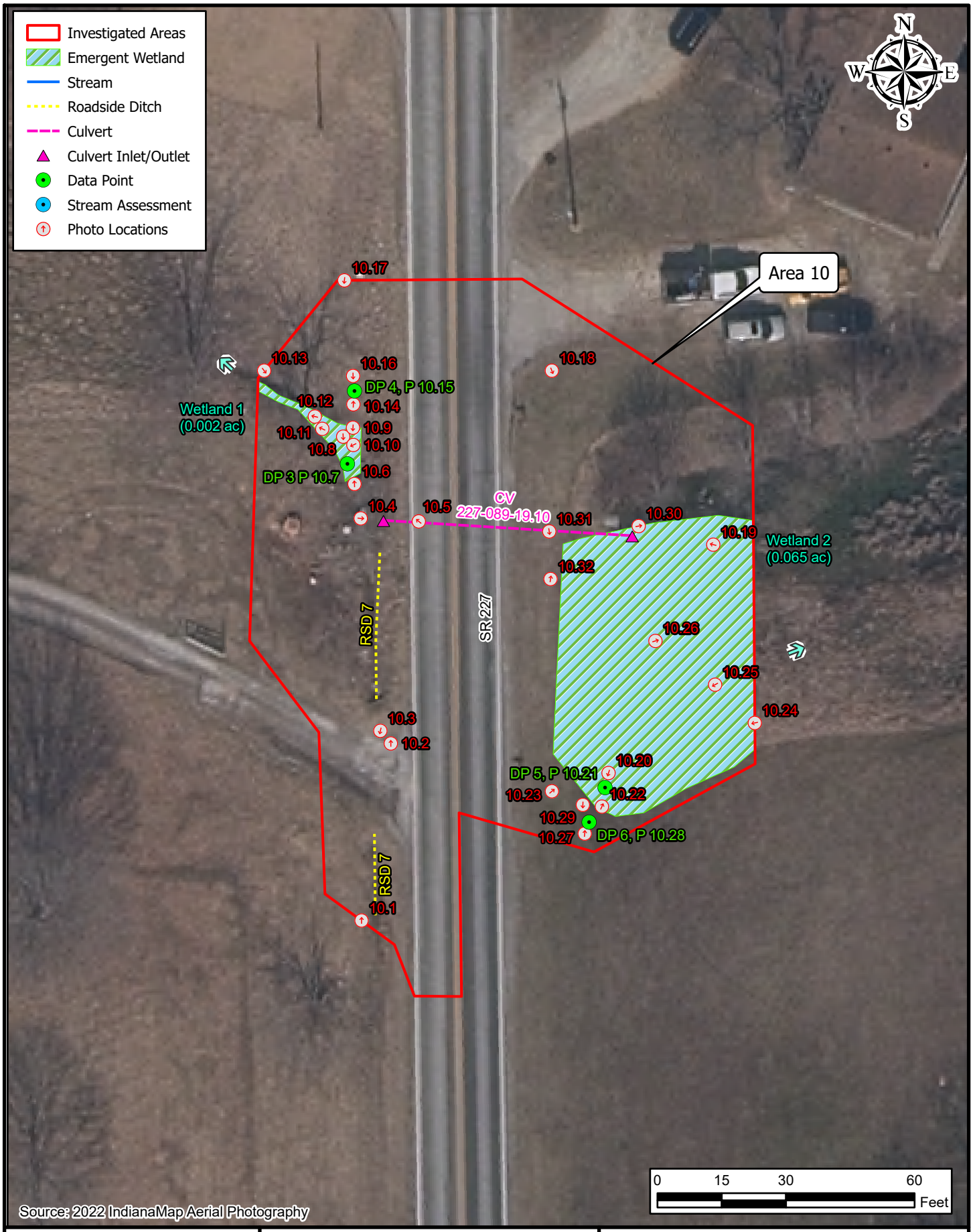
AMERICAN STRUCTUREPOINT INC.

Figure 9: Photo Location and Water Resources Map
Area 9

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:4/10/2025 User:mtrotter

AMERICAN STRUCTUREPOINT INC.

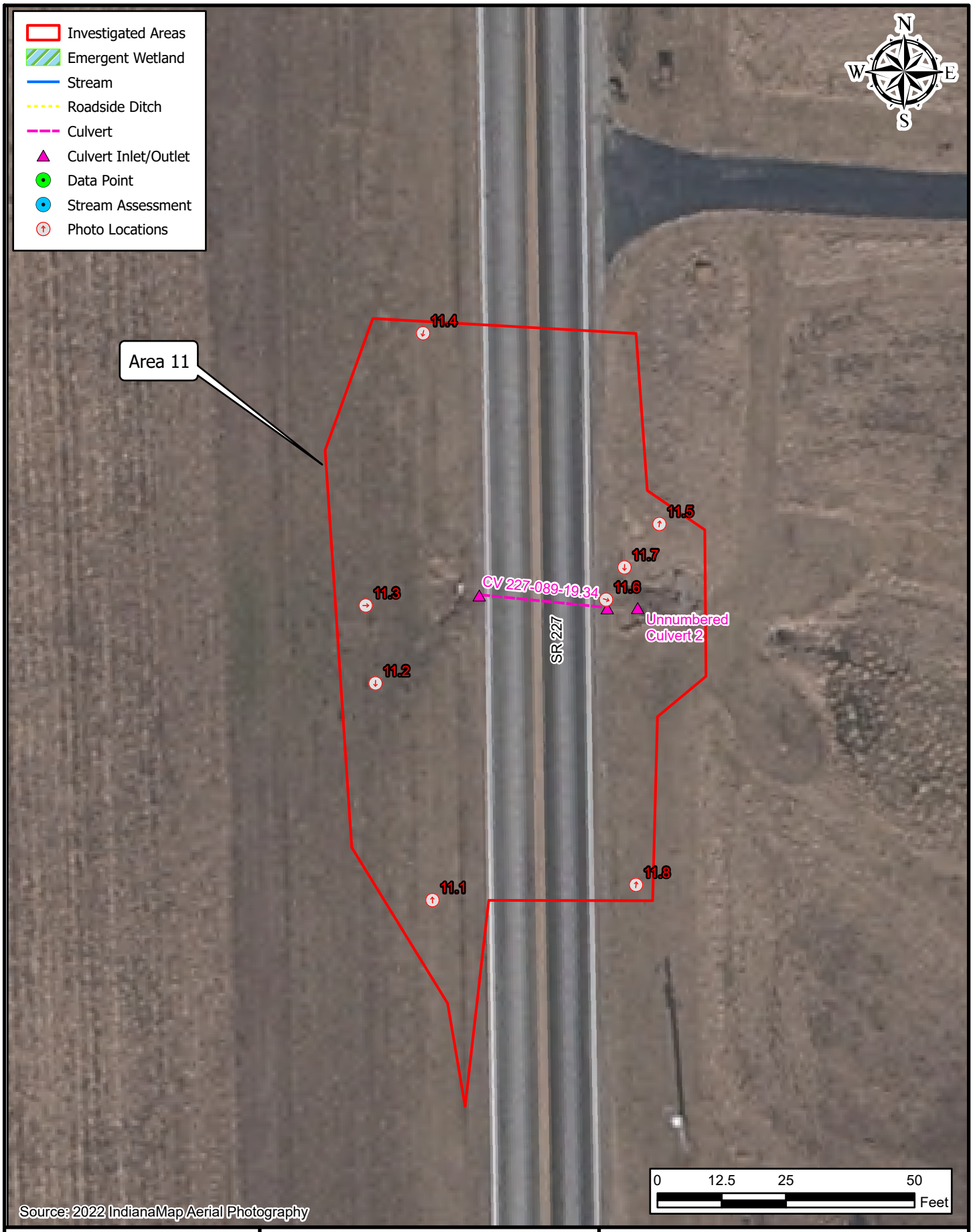
Figure 9: Photo Location and Water Resources Map
Area 10

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



AMERICAN STRUCTUREPOINT INC.

Figure 9: Photo Location and Water Resources Map
Area 11

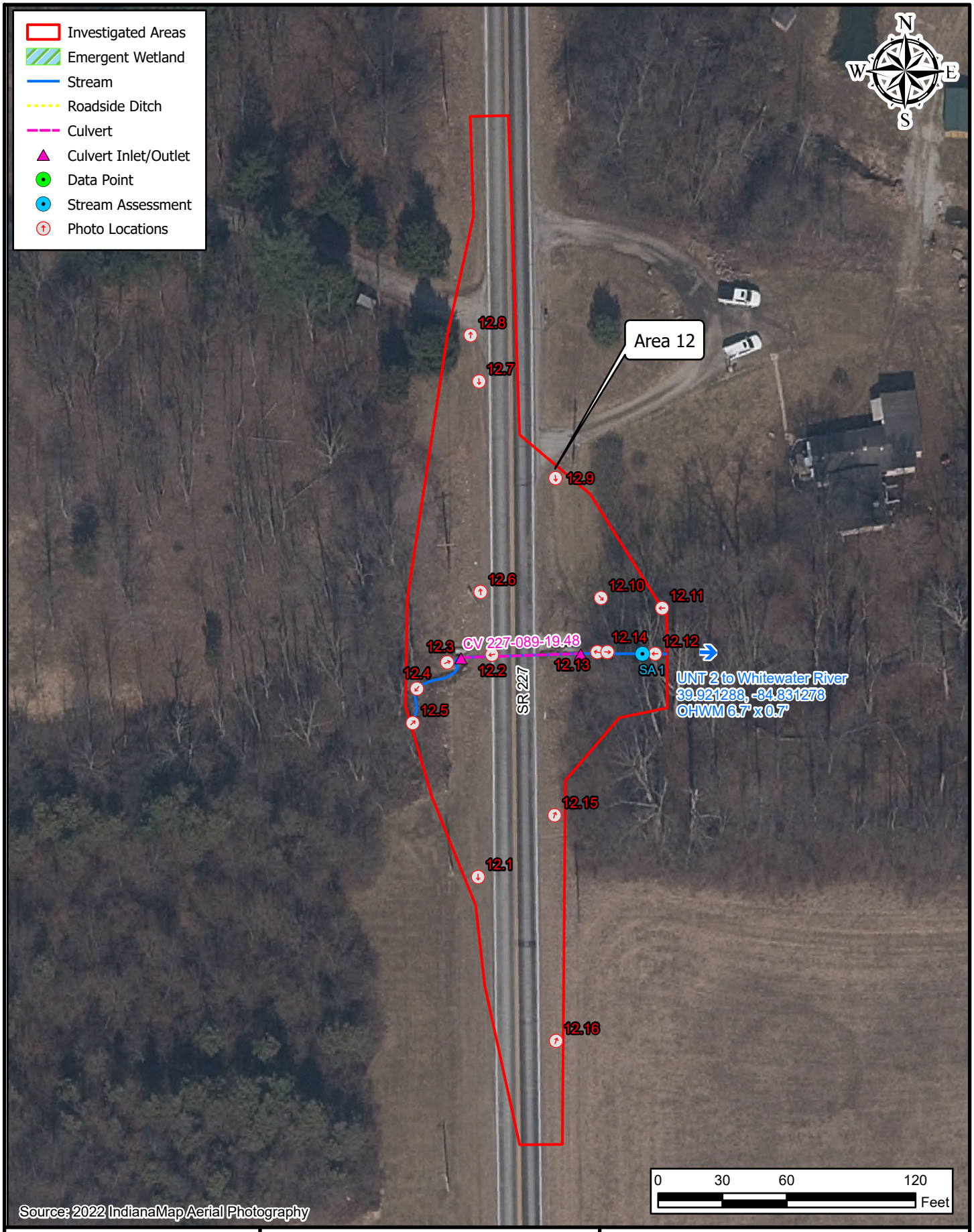
INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:4/10/2025 User:mtrotter



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AMERICAN STRUCTUREPOINT INC.

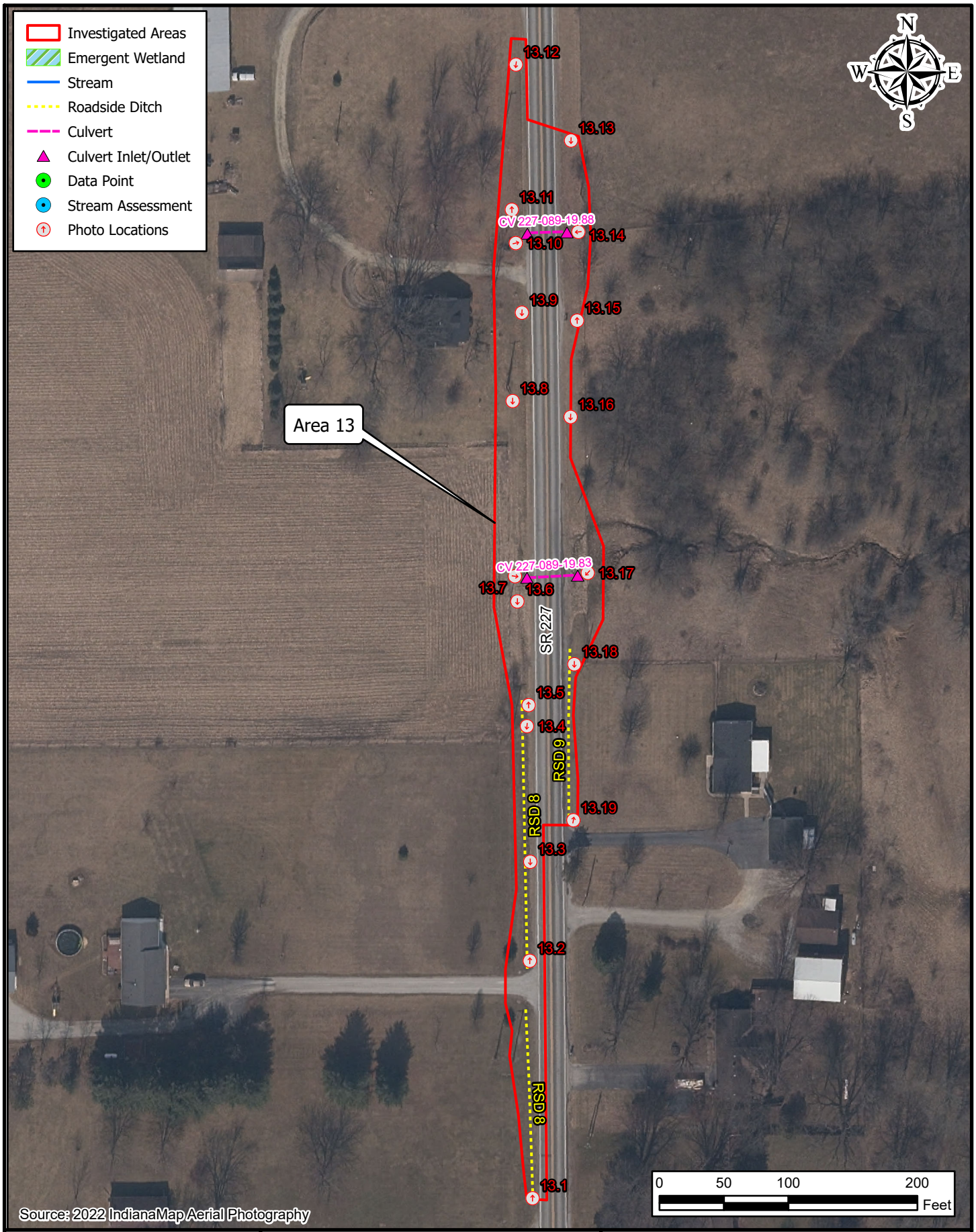
Figure 9: Photo Location and Water Resources Map
Area 12

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:4/10/2025 User:mtrotter

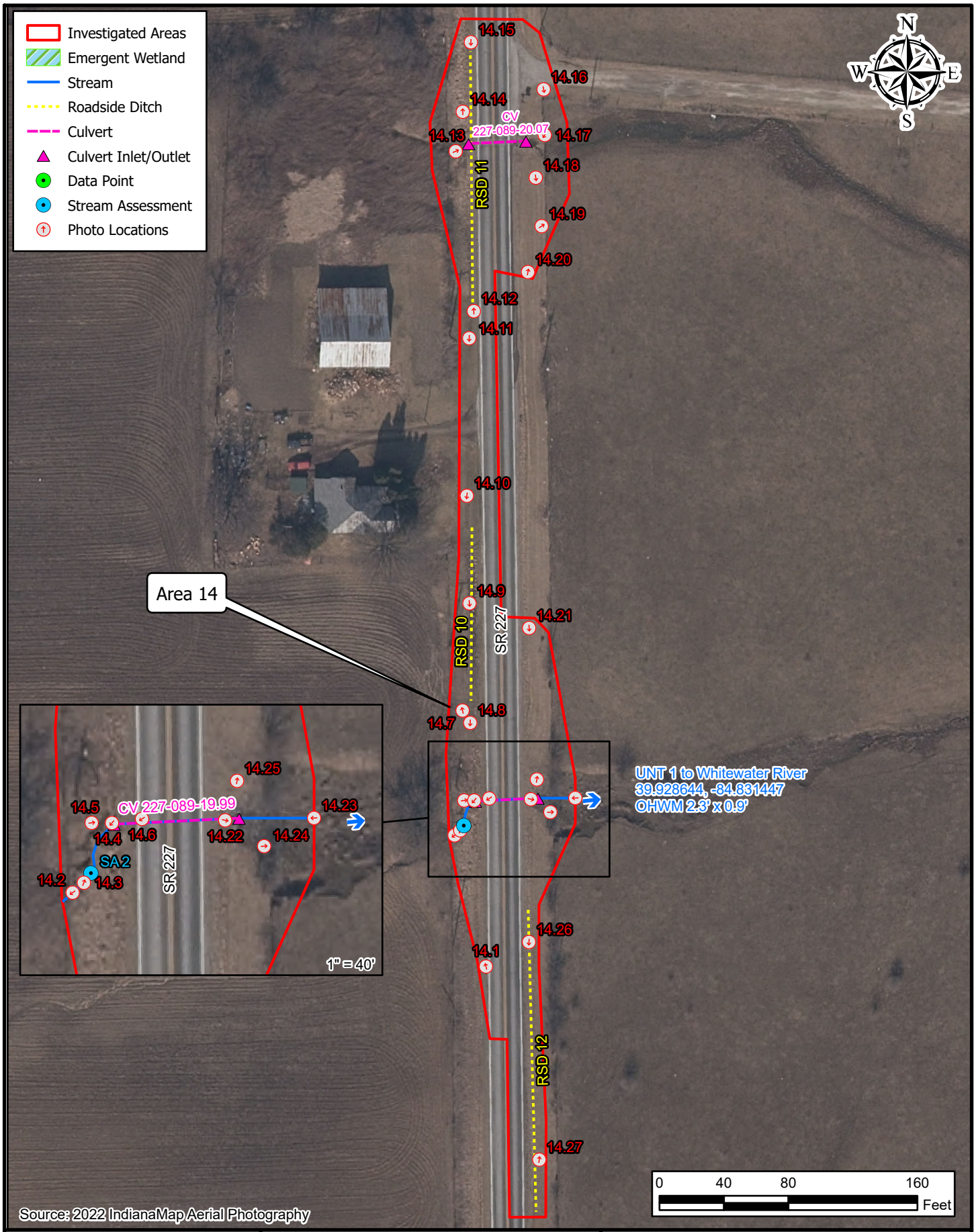
AMERICAN STRUCTUREPOINT INC.

Figure 9: Photo Location and Water Resources Map
Area 13

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:4/10/2025 User:mtrotter

AMERICAN STRUCTUREPOINT INC.

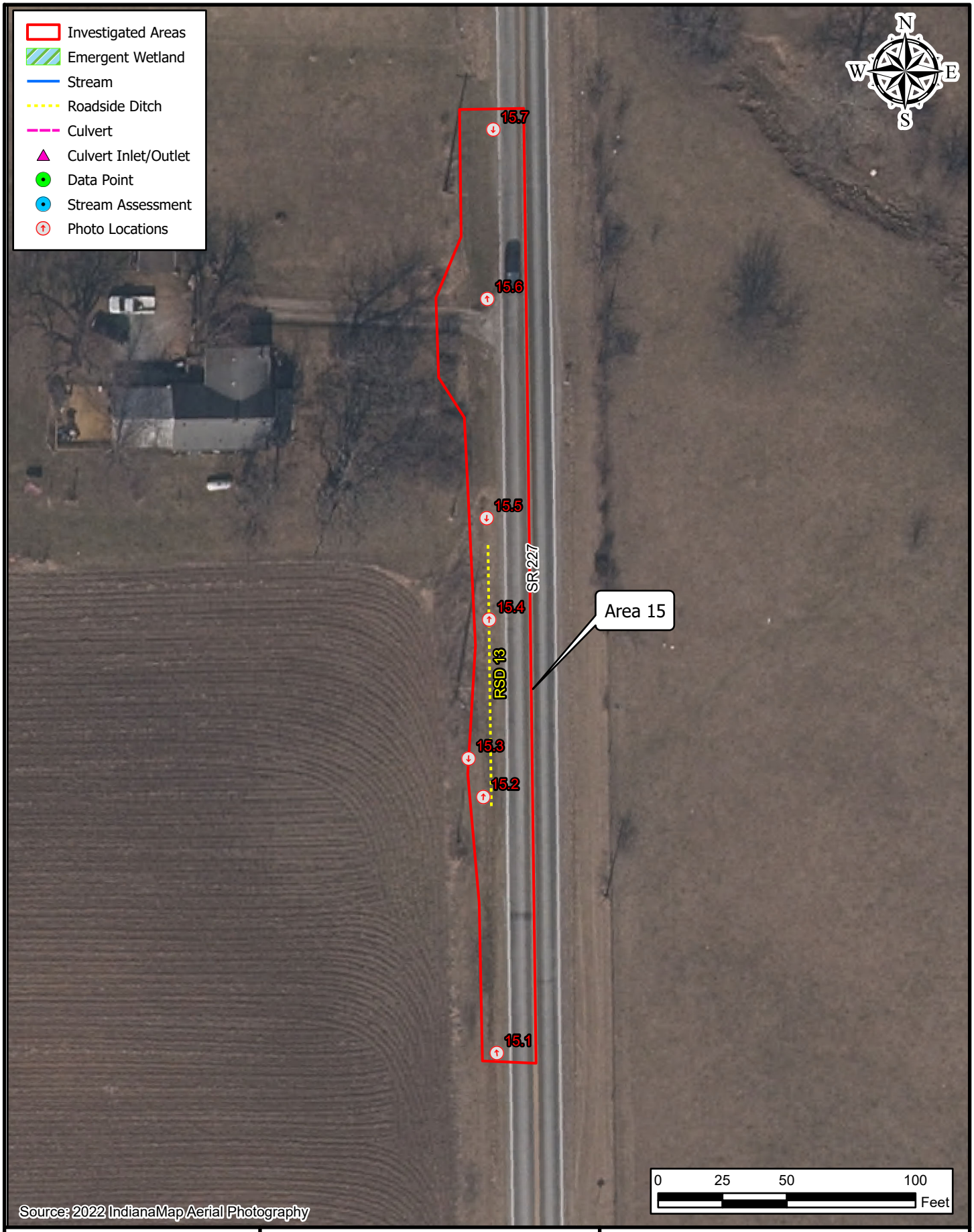
Figure 9: Photo Location and Water Resources Map
Area 14

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:2/21/2025 User:mtrotter

AMERICAN STRUCTUREPOINT INC.

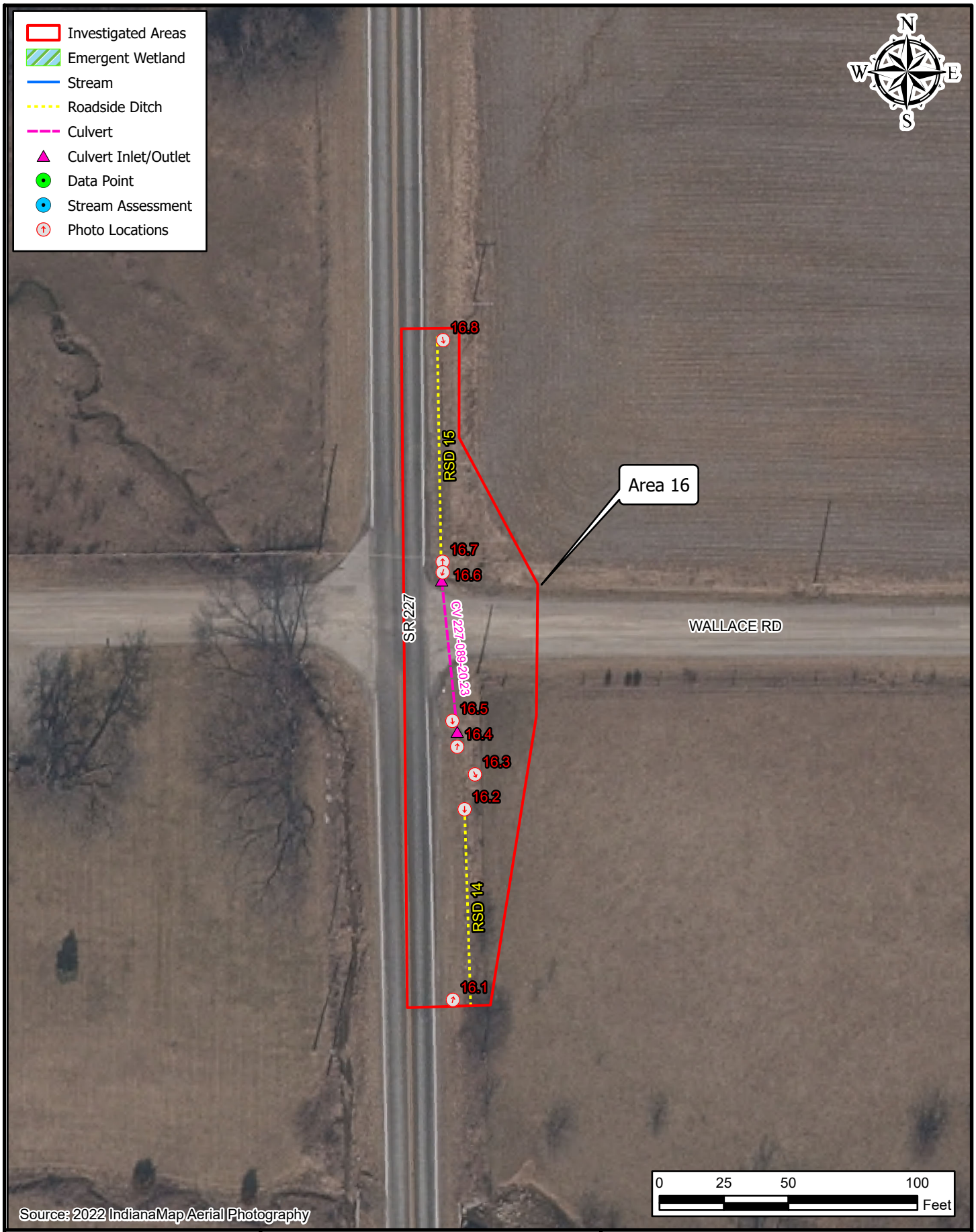
Figure 9: Photo Location and Water Resources Map
Area 15

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:4/10/2025 User:mtrotter

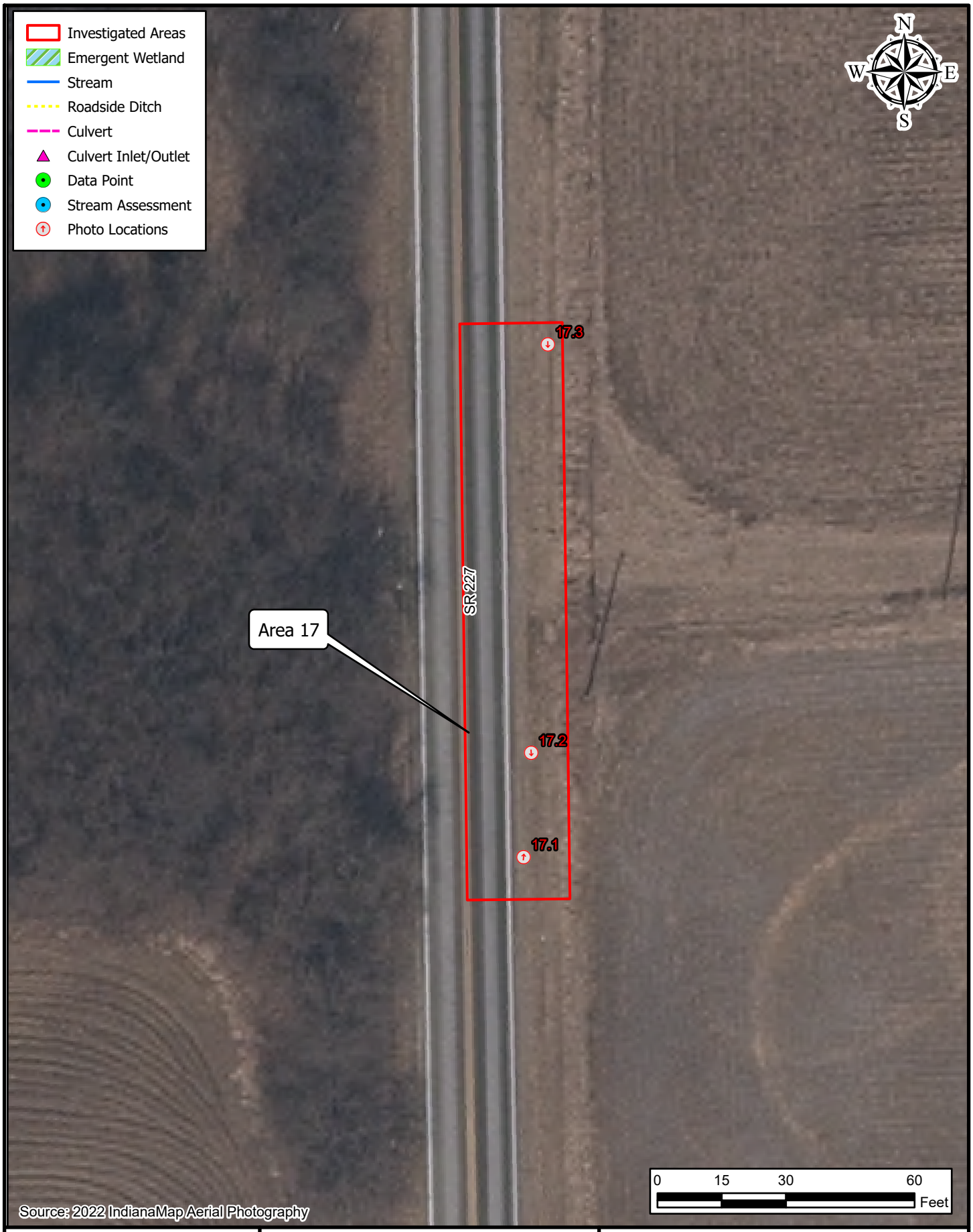
AMERICAN STRUCTUREPOINT INC.

Figure 9: Photo Location and Water Resources Map
Area 16

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:2/21/2025 User:mtrotter

AMERICAN STRUCTUREPOINT INC.

Figure 9: Photo Location and Water Resources Map
Area 17

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

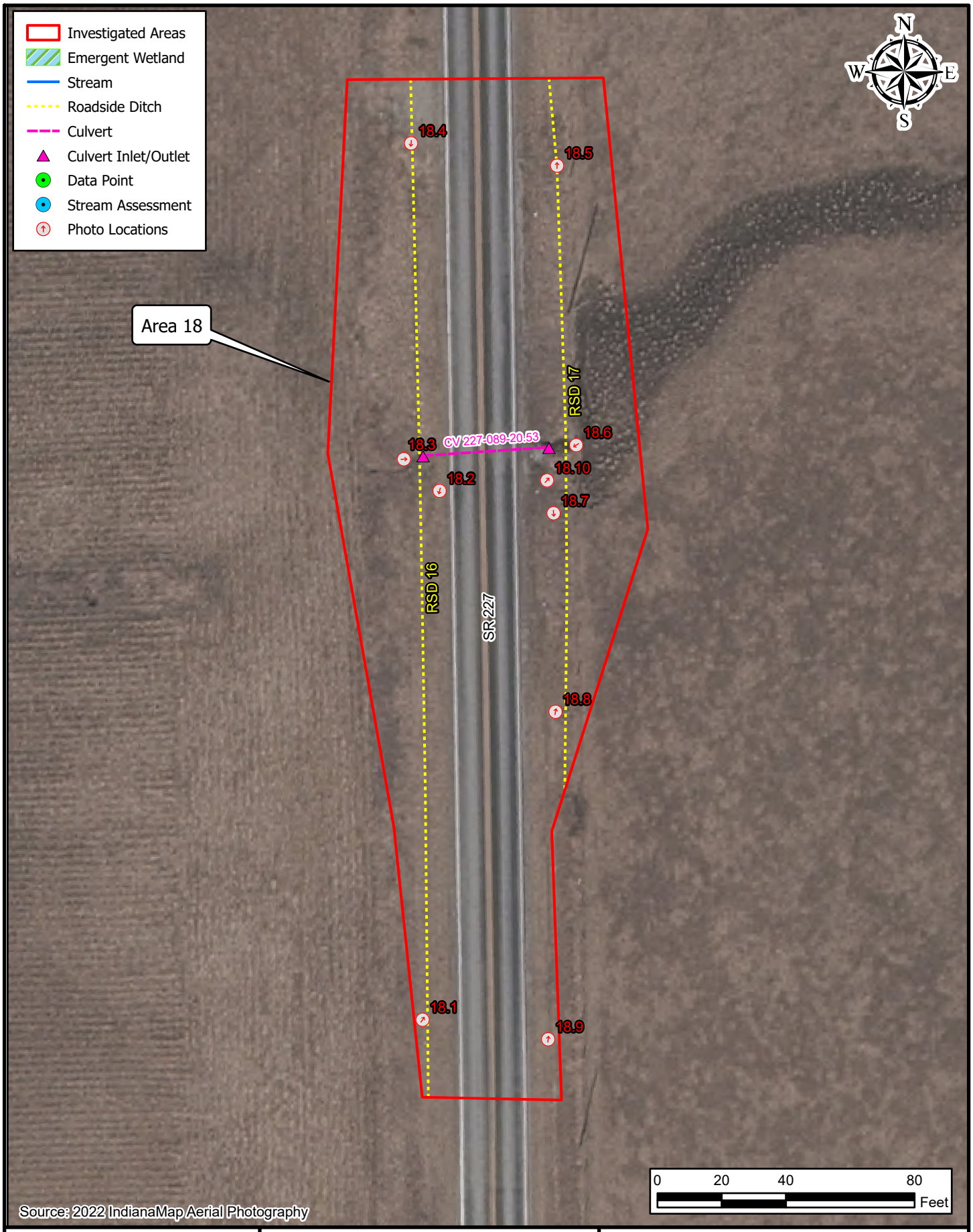


Figure 9: Photo Location and Water Resources Map
Area 18

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

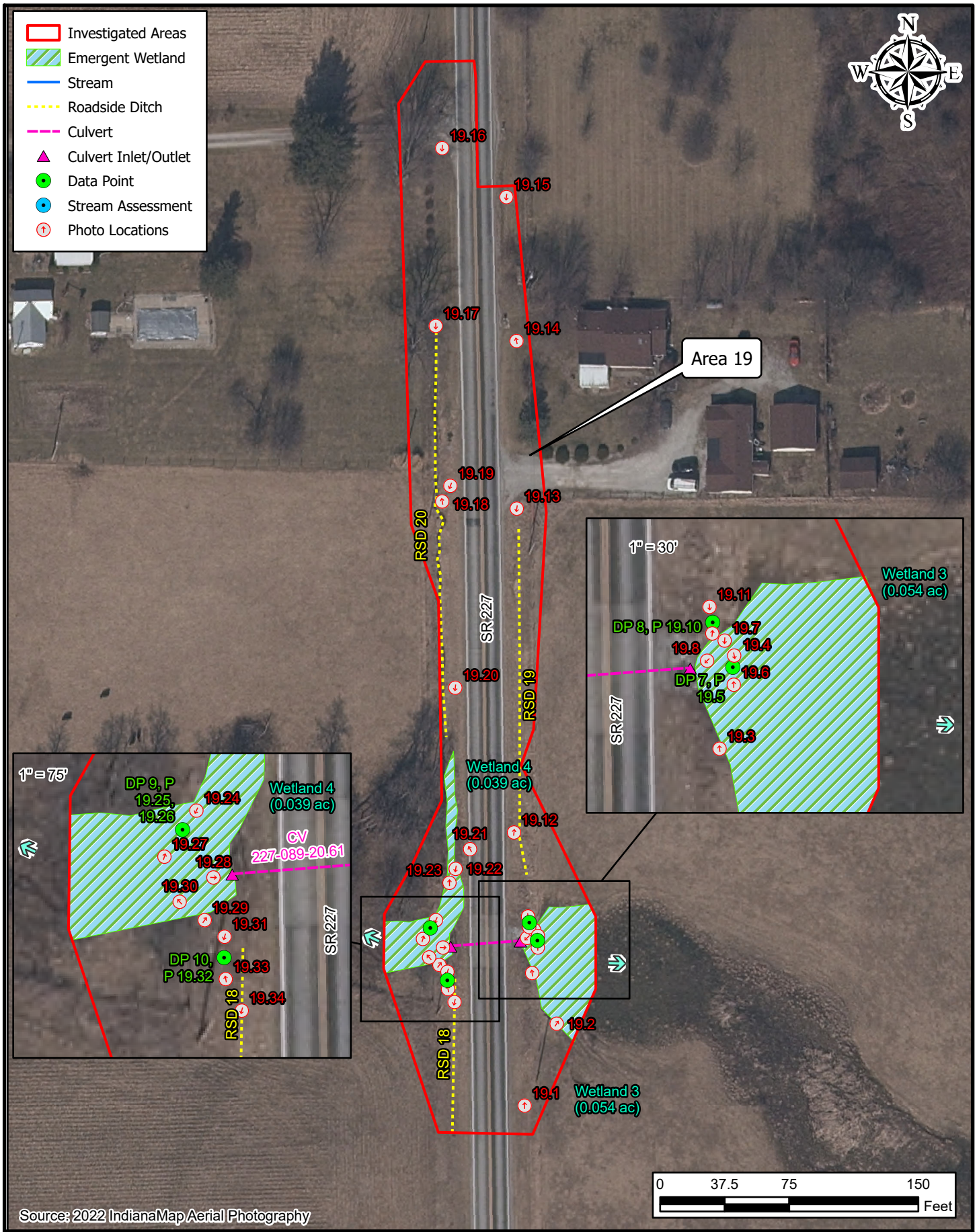
AMERICAN STRUCTUREPOINT INC.

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

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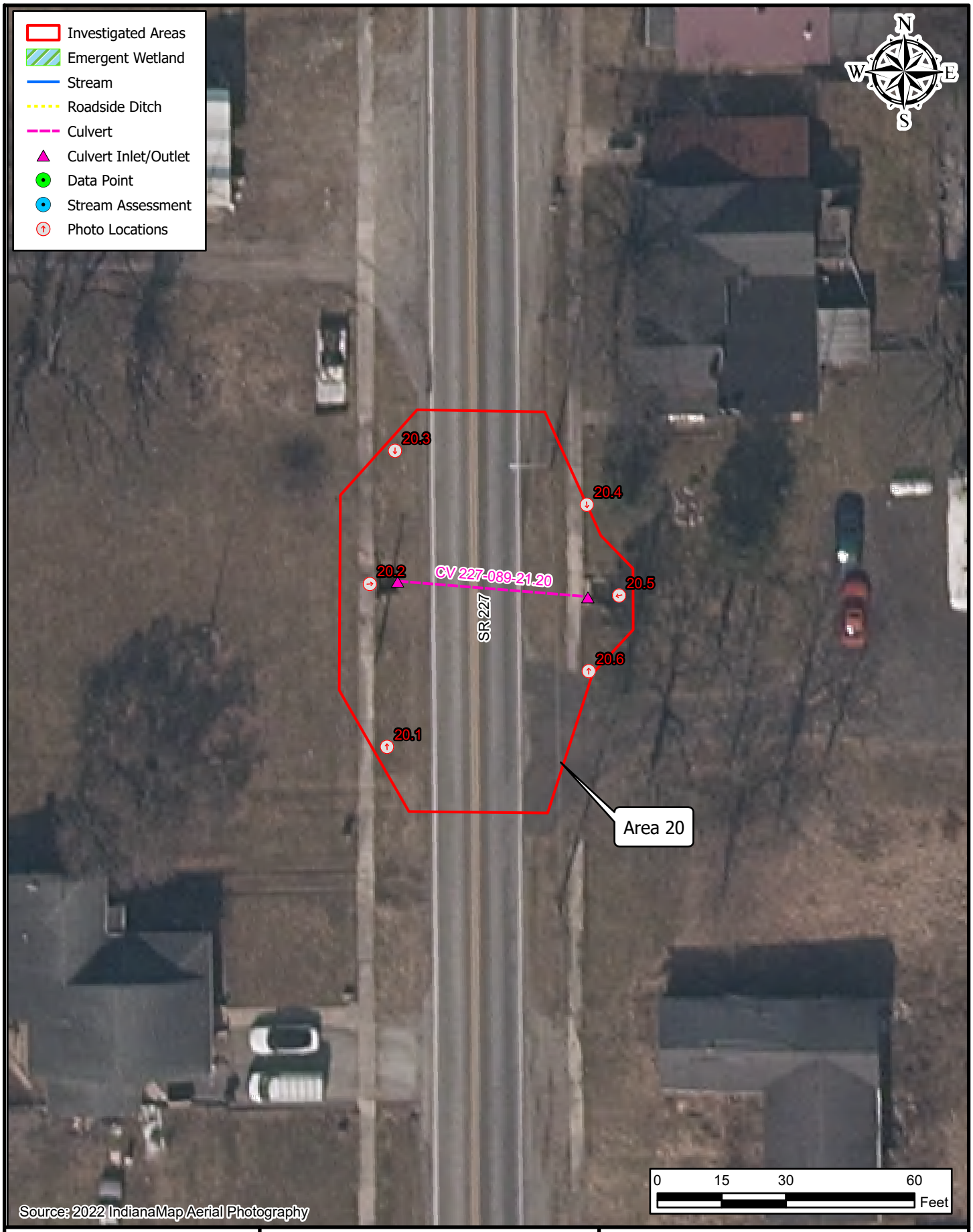
AMERICAN STRUCTUREPOINT INC.

Figure 9: Photo Location and Water Resources Map
Area 19

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507
Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024



Path: P:\2023\00938\D. Drawings\Environmental\ArcPro\2023.00938.0001.EV.SR227SmallStructures.MT\2023.00938.0001.EV.SR227SmallStructures.aprx Date:4/10/2025 User:mtrotter

AMERICAN STRUCTUREPOINT INC.

Figure 9: Photo Location and Water Resources Map
Area 20

INDOT Greenfield District
32 South Broadway
Greenfield, IN 46140

SR 227 Small Structure Replacements Project
Des. No. 2200507

Location: Whitewater
Townships: Wayne and Franklin
County: Wayne
State: Indiana

Date: 10/24/2024

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: March 7, 2025

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Macy Trotter, American Structurepoint, Inc.
9025 River Road, Suite 200 Indianapolis, IN 46240

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

DES 2200507; American Structurepoint, Inc. was contracted by the Indiana Department of Transportation (INDOT) Greenfield District to proceed with the SR 227 Small Structures Improvement Project Wetland Delineation located in Whitewater, Wayne and Franklin Township, Wayne County, Indiana. Specifically, the investigated areas are located on the Whitewater USGS 7.5 Minute Quadrangle Map in Sections 1, 2, 11, 12, 25, 26, 35, and 36, Townships 14 and 15 North, and Range 1 West. The project includes 20 investigated areas along SR 227. The project proposes to replace in kind nineteen existing small culverts and inlets. Drainage ditch corrections and repaving of the areas affected by small structure work will occur. 4 wetlands (Wetlands 1-4), totaling 0.160 acre and 2 streams (UNT 1 to Whitewater River and UNT 2 to Whitewater River), totaling 237 lft (0.27 ac.) were delineated within the investigated areas on October 17, 2024.

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: Indiana County/parish/borough: Wayne City: Whitewater

Northern Terminus

Lat.: 39.946078 Long.: -84.831052

Universal Transverse Mercator: 16 S 685294.16 E 4424024.87 N

Center Point

Lat.: 39.926457 Long.: -84.831417

Universal Transverse Mercator: 16 S 685315.91 E 4421846.11 N

Southern Terminus

Lat.: 39.880880 Long.: -84.851696

Universal Transverse Mercator: 16 S 683704.58 E 4416745.04 N

Name of nearest waterbody:

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 1	39.915891	-84.831686	0.002 ac	Wetland	Section 404
Wetland 2	39.915674	-84.531479	0.065 ac	Wetland	Section 404
Wetland 3	39.937521	-84.831139	0.054 ac	Wetland	Section 404
Wetland 4	39.937522	-84.831332	0.039 ac	Wetland	Section 404
UNT 1 to Whitewater River	39.928644	-84.831447	93 lft (0.005 ac.)	Non-Wetland Waters	Section 404
UNT 2 to Whitewater River	39.921288	-84.831278	144 lft (0.022 ac.)	Non-Wetland Waters	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: SSURGO Wayne County, National Wetland Inventory and National Hydrography Dataset, 2022 IndianaMap Aerial Photography
- [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: HUC-12; Mud Creek – Middle Fork East Fork Whitewater River (050800030703), Headwaters Middle Fork East Fork Whitewater River (050800030701).
  - [ ] USGS NHD data.
    USGS 8 and 12 digit HUC maps.
- [x] U.S. Geological Survey map(s). Cite scale & quad name: Whitewater, Indiana 7.5 Min Quadrangle.
- [x] Natural Resources Conservation Service Soil Survey. Citation: SSURGO Wayne County
- [x] National wetlands inventory map(s). Cite name: 2023 National Wetland Inventory.
- [ ] State/local wetland inventory map(s):_____.
- [x] FEMA/FIRM maps: FEMA 100-Year Floodplain Mapping.
- [ ] 100-year Floodplain Elevation is:_____.(National Geodetic Vertical Datum of 1929)
- [x] Photographs: [x] Aerial (Name & Date): See Wetland Delineation Report; October 17, 2024/ 2022 IndianaMap Aerial Photography
  or [x] Other (Name & Date): Field Photos 10/17/2024.
- [ ] Previous determination(s). File no. and date of response letter:_____.
- [ ] Other information (please specify):_____.

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

Signature and date of Regulatory 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

AMERICAN STRUCTUREPOINT INC.

9025 RIVER ROAD, SUITE 200
INDIANAPOLIS, INDIANA 46240
TEL 317.547.5580
FAX 317.543.0270

April 5, 2024

Example Notice of Survey

Re: Notice of Survey and Environmental Work
State Road 227 Culvert Repair (Des No. 2200507)
Richmond, Indiana

Dear Property Owner:

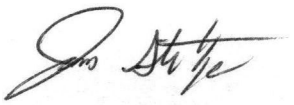
American Structurepoint has been retained by the Indiana Department of Transportation to perform survey and environmental work for a road improvement project located on SR 227 in Franklin and Wayne Townships, Wayne County, Indiana. The scope of the scope work being done is for repairs on various culverts located between White Water Road and Filby Road. The project limits are approximately 100 feet in each direction of the existing culverts.

Our information indicates you either own or occupy property near this proposed improvement project. Our employees will begin conducting a topographic survey and environmental survey of the project area in the near future and may continue for several weeks. It may be necessary for us to enter onto your property (exterior only) to complete this work. The work may include, but is not limited to shovel probes for archeological studies and wetland identification; topographic survey; photographing; and geotechnical surveys. The information we obtain from the above-mentioned work is necessary for the development of this transportation project. Our employees have been instructed to identify themselves to you, if you are available, before they enter onto your property. If you no longer own this property, or it is currently occupied by someone other than yourself, please let us know the name and/or address of the new owner or occupant so we may contact them about the survey.

Please be advised that you have the right to be compensated for damage that occurs to your property as a result of the entry upon, over, or under your property or work performed during the entry.

Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If you have any questions or concerns, please contact me at (317) 547-5580.

Sincerely,
American Structurepoint, Inc.



Jamie P Stetzel, PE
Project Manager

JPS:mgn

AMERICAN STRUCTUREPOINT INC.

9025 RIVER ROAD, SUITE 200
INDIANAPOLIS, INDIANA 46240
TEL 317.547.5580
FAX 317.543.0270

March 13, 2025

Example Notice of Survey

Re: Notice of Survey and Environmental Work
State Road 227 Culvert Repair (Des No. 2200507)
Richmond, Indiana

Dear Property Owner:

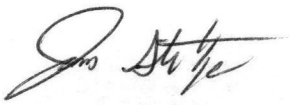
American Structurepoint has been retained by the Indiana Department of Transportation to perform survey and environmental work for a road improvement project located on SR 227 in Franklin and Wayne Townships, Wayne County, Indiana. The scope of the scope work being done is for repairs on various culverts located between White Water Road and Filby Road. The project limits are approximately 100 feet in each direction of the existing culverts.

Our information indicates you either own or occupy property near this proposed improvement project. Our employees will begin conducting a topographic survey and environmental survey of the project area in the near future and may continue for several weeks. It may be necessary for us to enter onto your property (exterior only) to complete this work. The work may include, but is not limited to, shovel probes for archeological studies and wetland identification, topographic survey, photographing, and geotechnical surveys. The information we obtain from the above-mentioned work is necessary for the development of this transportation project. Our employees have been instructed to identify themselves to you, if you are available, before they enter onto your property. If you no longer own this property, or it is currently occupied by someone other than yourself, please let us know the name and/or address of the new owner or occupant so we may contact them about the survey.

Please be advised that you have the right to be compensated for damage that occurs to your property as a result of the entry upon, over, or under your property or work performed during the entry.

Please be assured of our sincere desire to cause you as little inconvenience as possible during this survey. If you have any questions or concerns, please contact me at (317) 547-5580.

Sincerely,
American Structurepoint, Inc.



Jamie P Stetzel, PE
Project Manager

JPS/MET:sam

Appendix H: Air Quality

Federal Transit Administration
Region V
200 West Adams St., Suite 320
Chicago, IL 60606-5253

U.S. Department of Transportation

Federal Highway Administration
Indiana Division
575 N. Pennsylvania St., Rm 254
Indianapolis, IN 46204-1576

August 28, 2025

Ms. Lyndsay Quist
Commissioner
Indiana Department of Transportation
100 N Senate Ave. N955
Indianapolis, IN 46204

SUBJECT: Indiana FY2026-2030 STIP Approval and Associated Federal Planning Finding

Dear Ms. Quist:

The Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) have completed our review of the FY2026-2030 Indiana Statewide Transportation Improvement Program (INSTIP), which was submitted by the Indiana Department of Transportation (INDOT) request letter dated June 6, 2025.

Based on our review of the information provided, certifications of the Statewide and Metropolitan transportation planning processes for and within the state of Indiana, and our participation in those transportation planning processes (including planning certification reviews conducted in Transportation Management Areas), FHWA and FTA are jointly approving the FY2026-2030 STIP, including the Metropolitan Planning Organization (MPO) Transportation Improvement Programs (TIPs) incorporated into the STIP by reference, subject to the corrective action identified in the attached Federal Planning Finding (FPF) report. FHWA and FTA consider the projects in the 5th year for informational purposes only, and our approval does not exceed four years per 23 CFR 450.220(c).

FHWA and FTA are required under 23 CFR 450.220(b) to document and issue an FPF in conjunction with the approval of the FY2026-2030 STIP. At a minimum, the FPF verifies that the development of the STIP is consistent with the provisions of both the Statewide and Metropolitan transportation planning requirements. FHWA and FTA find that the Indiana FY2026-2030 STIP substantially meets the transportation planning requirements and are approving the STIP subject to the corrective action outlined in the FPF. This approval is effective August 22, 2025, and is given with the understanding that an eligibility determination of individual projects for funding must be met, and INDOT must ensure the satisfaction of all administrative and statutory requirements, as well as address the corrective actions outlined in the attached report.

If you have questions or need additional information concerning our approval and the FPF, please contact Ms. Erica Tait of the FHWA Indiana Division at (317) 226-7481, or by email at erica.tait@dot.gov, or Mr. Anthony Greep of the FTA Region 5 Office at (312) 353-2866, or by email at anthony.greep@dot.gov.

Sincerely,

KELLEY BROOKINS

Digitally signed by KELLEY BROOKINS
Date: 2025.08.27 08:09:52 -05'00'

Kelley Brookins
Regional Administrator
FTA Region V

Sincerely,



Digitally signed by CHRISTOPHER J HALL
Date: 2025.08.28 10:04:48 -05'00'

Christopher J. Hall
Interim Division Administrator
FHWA Indiana Division

Indiana Department of Transportation (INDOT)

State Preservation and Local Initiated Projects FY 2026 - 2030

SPONSOR	CONTRACT # / LEAD DES	PROJECT GROUP #	STIP NAME	ROUTE	WORK TYPE	DISTRICT	MILES	FEDERAL CATEGORY	Toal Cost of Project*	PROGRAM	PHASE	FEDERAL	MATCH	2026	2027	2028	2029	2030
Performance Measure Impacted: Bridge Condition																		
Location: From US 35 to US 36																		
Comments:Include DES 2200491, 2200629																		
Indiana Department of Transportation	44485 / 2200764		Init.	I 70	Replace Superstructure	Greenfield	0	NHPP	$18,799,834.34	Bridge Construction	CN	$16,625,539.88	$1,847,282.20		$18,472,822.09			
Performance Measure Impacted: Bridge Condition																		
Location: From 0.49 mile W of SR 3 to 0.47 mile W of SR 1																		
Comments:Include DES 1800494, 1800495, 2200764, 2200765, 2200766, 2200767, 2200768, 2200769, 2200770, 2200771, 2200772, 2200773, 2200774, 2200775, 2200776, 2200777, 2200778																		
Indiana Department of Transportation	44567 / 2200066		Init.	US 40	Median Construction	Greenfield	.04	STBG	$1,635,351.00	Safety Construction	CN	$772,373.60	$193,093.40			$965,467.00		
Performance Measure Impacted: Safety																		
Location: From 1.89 mile W of US 27 NB (17st St) to 0.67 mile W of US 27 NB (SW 1st St)																		
Comments:Include DES 2200066																		
Indiana Department of Transportation	44589 / 2200507	2	Init.	SR 227	Small Structures & Drains Construction	Greenfield	3.257	STBG	$3,820,973.00	Bridge Construction	CN	$2,142,691.20	$535,672.80		$2,678,364.00			
Performance Measure Impacted: Safety																		
Location: From 4.60 mile N of SR 121 (NCL Middleboro) to 7.86 mile N of SR 121 (SCL Whitewater)																		
Comments:Include DES 2200507																		
Indiana Department of Transportation	44620 / 2200636		Init.	SR 38	Bridge Replacement	Greenfield	0	STBG	$2,086,302.00	Bridge Construction	CN	$1,669,041.60	$417,260.40		$2,086,302.00			
Performance Measure Impacted: Bridge Condition																		
Location: Bridge over Morgan Creek, 3.17 miles E of SR 1																		
Comments:Include DES 2200636																		
Indiana Department of Transportation	45168 / 2300747		Init.	US 27	Bridge Replacement	Greenfield	0	NHPP	$11,991,590.00	Bridge Construction	CN	$7,993,272.00	$1,998,318.00			$9,991,590.00		
Performance Measure Impacted: Bridge Condition																		
Location: Bridge over E fork Whitewater River, 0.12 mile N SR 121																		
Comments:Include DES 2300747																		
Indiana Department of Transportation	45172 / 2300965	2	Init.	SR 227	Small Structure Replacement	Greenfield	0	STBG	$1,791,382.00	Bridge Construction	CN	$1,172,643.20	$293,160.80			$1,465,804.00		
Performance Measure Impacted: Bridge Condition																		
Location: At 2.542 mi N Union/Wayne County Line and 3.65 mile N of I 70; SR 234 at 2.50 mile E of SR 109																		
Comments:Include DES 2300964, 2300965, 2300967																		
Indiana Department of Transportation	45377 / 2000558	1	Init.	SR 1	HMA Overlay, Preventive Maintenance	Greenfield	3.78	STBG	$6,228,833.00	Road Construction	CN	$4,530,844.80	$1,132,711.20					$5,663,556.00
Performance Measure Impacted: Pavement Condition																		
Location: 0.16 mi N of bridge over I-70 to SR 38																		

Report Created:8/12/2025 1:01:17PM

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

Appendix I: Additional Information

Land and Water Conservation Fund (LWCF) County Property List for Indiana (Last Updated April 2025)

ProjectNumber	SubProjectCode	County	Property
1800325	1800325	Wayne	Whitewater Valley Gorge Park & Trail
1800356	1800356	Wayne	Glen Miller Park & Golf Course
1800462	1800462	Wayne	Springwood Lake Park

*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.

American Structurepoint Small Structures Summary Table
SR 227 Small Structures Improvement Project (Des. 2200507)

CV NO.	EXISTING SIZE/TYPE	EXISTING LENGTH	BARREL COND.	NEW SIZE/TYPE	NEW LENGTH	2020-2022 INSPECTION COMMENTS	Description of Work
227-089-17.97	15" CMP	40'	3 (Serious Condition)	18" CMP	39'	Rusted, Section Loss	Increase in diameter, decreased length, End section required
227-089-18.08	15" CMP	38'	3 (Serious Condition)	15" CMP	39'	Rusted, Section Loss	In-kind replacement, increased length, End section required
227-089-18.11	15" CMP	41'	3 (Serious Condition)	18" CMP	39'	Rusted, Section Loss, Sinkhole Filled with Asphalt	Increase in diameter, decreased length, End section required
227-089-18.21	24" CMP	41'	3 (Serious Condition)	30" CMP	41'	Rusted, Section Loss	Increase in diameter, End section required
227-089-18.49	15" CMP	39'	0 (Failing Condition)	15" CMP	42'	Unable to Inspect, Full of Debris	In-kind replacement, increased length, End section required
227-089-18.58	15" CMP	42'	6 (Fair Condition)	24" RCP	43'	N/A	Increased length and diameter, One headwall and one end section required
227-089-18.69	18" CMP	61'	6 (Fair Condition)	24" CMP	59'	N/A	Increase in diameter, decreased length, Safety metal end sections required
227-089-18.84	15" CMP	32'	6 (Fair Condition)	24" CMP	37'	N/A	Increased length and diameter, End section required
227-089-19.10	36" CMP	62'	7 (Good Condition)	36" CMP	62'	N/A	In-kind replacement, One headwall and one end section required
227-089-19.34	30" CMP	32'	3 (Serious Condition)	30" CMP	38'	Rusted, Section Loss	In-kind replacement, increased length, End section required
227-089-19.48	30" CMP	59'	3 (Serious Condition)	36" CMP	59'	Rusted, Section Loss, Sinkhole in Embankment	Increase in diameter, Wingwalls required
227-089-19.83	18" CMP	38'	5 (Fair Condition)	24" CMP	37'	N/A	Increase in diameter, dcreased length, End section required
227-089-19.88	15" CMP	34'	7 (Good Condition)	15" CMP	33'	N/A	In-kind replacement, decreased length, End section required
227-089-19.99	18" CMP	43'	3 (Serious Condition)	30" CMP	42'	Rusted, Section Loss	Increased diameter, decrease in length, Headwalls and wingwalls required
227-089-20.07	18" CMP	37'	6 (Fair Condition)	30" CMP	40'	N/A	Increased length and diameter, End section required
227-089-20.23	15" CMP	62'	6 (Fair Condition)	24" CMP	49'	N/A	Increased diameter, decreased length, Safety metal end sections required
227-089-20.53	15" PE	41'	7 (Good Condition)	24" PE	40'	N/A	Increased diameter, decreased length, End section required
227-089-20.61	24" PE	42'	7 (Good Condition)	10.2 sqf PE	58'	N/A	Increased diameter and length, Pipe and two concrete anchors required
227-089-21.20	36" CMP	45'	3 (Serious Condition)	36" CMP	42'	Rusted	In-kind replacement, decrease in length, Replace with manhole, Type E