



State Revolving Fund Loan Programs

Drinking Water, Clean Water, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

JEFFERSONVILLE-CLARKSVILLE FLOOD CONTROL DISTRICT Cane Run Flood Control Pump Station #5 Replacement Project STATE REVOLVING FUND PROJECT WW 21 16 10 01

DATE: January 25, 2021

TARGET PROJECT APPROVAL DATE: February 24, 2021

I. INTRODUCTION

The above entity has applied to the Clean Water State Revolving Fund (SRF) Loan Program for a loan to finance all or part of the stormwater project described in the accompanying Environmental Assessment (EA). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA, which can also be viewed in color at <http://www.in.gov/ifa/srf/>.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The SRF Clean Water Program has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 5-1.2-3, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

III. COMMENTS

All interested parties may comment upon the EA/FNSI. Comments must be received at the address below by the target approval date above. Significant comments may prompt a reevaluation of the preliminary FNSI; if appropriate, a new FNSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be attained by finalizing, or not finalizing, the FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

Amy Henninger
Compliance Officer
State Revolving Fund Loan Programs
100 N. Senate Ave. IGCN 1275
Indianapolis, IN 46204
317-232-6566
ahenning@ifa.in.gov

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address: **Cane Run Flood Control Pump Station #5**
Jeffersonville-Clarksville Flood Control District
500 Quartermaster Ct, Ste 250
Jeffersonville, IN 47130

SRF Project Number: WW 21 16 10 01

Authorized Representative: Mike Moore, Flood Control District President

II. PROJECT LOCATION

The City of Jeffersonville and Town of Clarksville are located in southern Clark County directly north of the Ohio River. The improvements are located in Section 1 of Clark's Grant in Township 3S, Range 6E in Clark County on the New Albany quadrangle map. See **Figure 1**.

III. PROJECT NEED AND PURPOSE

During extended periods of precipitation, the Jeffersonville-Clarksville Flood Control District experiences interior flooding adjacent to the levee in the area of the Cane Run Control Pump Station #5, in addition to flooding upstream of the Cane Run ponding area. The existing pump station and force main piping are over 70 years old. The project will construct a new Cane Run Flood Control Pump Station #5 with increased pumping capacity and lowered water surface elevation to reduce flooding impacts and to ensure operable condition during a flood event.

IV. PROJECT DESCRIPTION

The project will replace the existing 28 cubic feet per second (CFS) pump station with a new 58 CFS pump station. Specific components for the pump station work include the following:

- Three 29 CFS vertical turbine pumps with VFDs and formed suction intake per USACE recommendation;
- Three 30-inch diameter ductile iron force main discharge pipes, each 700 LF, with a new common outfall structure;
- Two 1 CFS sump pumps for dewatering;
- A manual bar screen with 2-inch openings;
- Site work and piping;
- Electrical building adjacent to the pump station;
- Emergency generator; and
- Access drive to the new station.

See **Figure 2**.

V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Estimated Cost Summary

Construction Costs	
58 CFS Pump Station	\$5,665,000

Contingency	567,000
Construction Sub-Total	\$6,232,000
Non-Construction Costs	\$1,205,000
Total Estimated Project Cost	\$7,437,000

- B.** The Jeffersonville-Clarksville Flood Control District will finance the project with a loan from the Clean Water State Revolving Fund Loan Program for a term and annual fixed interest rate to be determined at loan closing. The actual loan amount will depend on the bids received. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

The “**No Action**” alternative is not a feasible alternative as it would result in flooding of the area of Cane Run Pump Station #5, the Derby Dinner parking lot and the Town of Clarksville’s sanitary pump station #12 during storm events.

Addition of 225 CFS Pump Station: This alternative lowers the water surface elevation to 426.8, preventing flooding of the Derby Dinner parking lot for all design storm events. It requires five 600-horsepower pumps and five 48-inch diameter force main pipes. This alternative is rejected due to cost of construction and maintenance.

Addition of 58 CFS Pump Station: This alternative lowers the water surface elevation to 429.3, preventing flooding at the Derby Dinner parking lot for most of the design storm events. It requires three 250-horsepower pumps and three 30-inch diameter force main pipes. This is the selected alternative.

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Disturbed/Undisturbed Land (Figure 3): The proposed pump station will be constructed adjacent to the existing Cane Run Pump Station. The project area has been previously disturbed by the construction of the levee and residential neighborhoods.

Structural Resources (Figure 4): There are no historic properties identified within the area of potential effect. Construction and operation of the project will not alter, demolish, or remove historic properties. If any visual or audible impacts to historic properties occur, they will be temporary and will not alter the characteristics that qualify such properties for inclusion in or eligibility for the National Register of Historic Places. The SRF’s finding pursuant to Section 106 of the National Historic Preservation Act is: “*no historic properties affected.*”

Surface Waters: The project will not adversely affect waters of high quality listed in 327 IAC 2-1-2(3), exceptional use streams listed in 327 IAC 2-1-11(b), Natural, Scenic and Recreational Rivers and Streams listed in 312 IAC 7-(2), Salmonid Streams listed in (327 IAC 2-1.5-5(a)(3), or waters on the Outstanding Rivers list (Natural Resources Commission Non-rule Policy Document). The project will require the crossing of ephemeral and perennial streams.

Wetlands (Figure 5): A Water/ Wetlands delineation summary memorandum prepared by Redwing Ecological Services Inc. dated January 3, 2018 states that there are approximately four wetland areas within the Cane Run ponding area. These wetlands are not in the vicinity of the proposed pump station and force mains and will not be affected by the construction and operation of this project.

Floodplain (Figure 6): Construction will occur in a floodway. The proposed improvements at the pump station, force main, and outfall are located within the 100-year floodplain with a portion of the force main work located within the 100-year floodway of the Ohio River. The District's PER states: *This work will require a floodplain development permit from the City as well as a no-rise certification for the portion of the work within the floodway.*

Groundwater: Dewatering may be required to temporarily lower the groundwater table in some areas during construction. Minor fluctuations in groundwater levels will be temporary in nature. Groundwater quality will not be impacted by the construction or operation of the proposed project.

Plants and Animals: The Preliminary Engineering Report (PER) states: *The proposed improvements will be located adjacent to the Ohio River and will impact the 0.08 acres of riparian area adjacent to the waterway.*

Prime Farmland: The project will not convert prime farmland.

Air Quality: Construction activities may generate some noise, fumes and dust, and impact short-term air quality. Long-term air quality impacts are not expected, and the project will not impact compliance with air quality standards.

Open Space and Recreational Opportunities: The project will neither create nor destroy open space or recreational opportunities.

National Natural Landmarks: Construction and operation of the proposed project will not affect National Natural Landmarks.

B. Indirect Impacts

The District's PER states: *The City through the authority of its council, planning commission or sewer and drainage boards, will ensure future development, as well as future wastewater infrastructure projects connecting to SRF-funded facilities will not adversely impact wetlands, wooded areas, steep slopes, archaeological/ historical/ structural resources or other sensitive environmental resources. The city will require new development and infrastructure projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM, and other environmental review authorities.*

C. Comments from Environmental Review Authorities

In correspondence dated July 28, 2020 the Natural Resources Conservation Service states: *The proposed project to proceed with the Cane Run flood control pumping station #5 in Jeffersonville, Clark County, Indiana, as referred to in your letter received July 23, 2020, will not cause a conversion of prime farmland.*

This document is the first notice to the U.S. Fish and Wildlife Service (USFWS), the DNR Environmental Unit, and the Division of Historic Preservation and Archaeology.

VIII. MITIGATION MEASURES

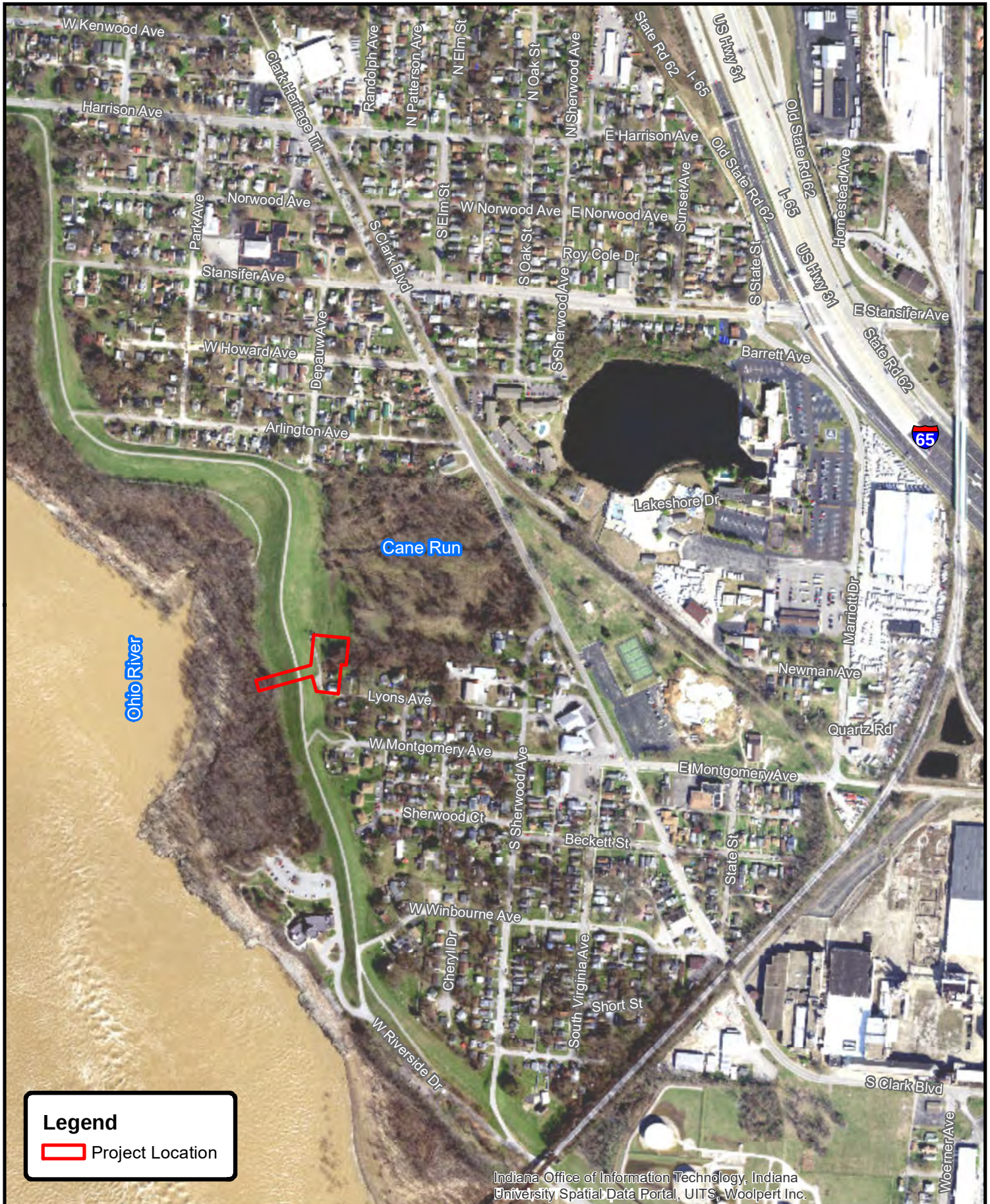
The Jeffersonville-Clarksville Flood Control District's PER states:

The following measures are recommended to mitigate potential adverse environmental impacts:

- *Implement appropriate temporary erosion control measures (straw bale barriers, silt fencing, etc.) to prevent soil runoff leaving the construction site.*
- *Implement all applicable water pollution control measures specified in the Indiana State Highway Standard Specifications (latest version). Appropriate measures will be taken to prevent siltation of nearby surface and underground water resources with dewatering flows or construction related runoff.*
- *Maintain all equipment to manufactures specifications to minimize construction noise, and where appropriate utilize temporary noise barriers to reduce noise levels.*
- *Minimize fugitive dust from construction activities by wetting the construction area periodically and constructing wind barriers or treating with chemical stabilizers if necessary.*
- *The open burning of debris (i.e., trees and shrubs) shall not be allowed unless a permit is obtained from the Indiana State Air Pollution Control Division for such activities.*
- *Cutback asphalt or asphalt emulsion containing more than seven percent oil distillable shall not be used during the months April through October pursuant to 326 IAC 805 Asphalt Paving Rule.*
- *The contactor shall abide by the rules governing asbestos notification, handling, disposal, and contractor licensing should such material be encountered.*
- *Construction waste shall be disposed of by the contractor at an acceptable waste disposal landfill. If contaminated soils (including PCB's) are discovered during the project, they may be subject to disposal as either special or hazardous waste as determined by the Office of Solid and Hazardous Waste Management.*

IX. PUBLIC PARTICIPATION

A properly noticed public hearing was held on September 25, 2020, at 10:30 am at the Jeffersonville City Hall (500 Quartermaster Court, Jeffersonville, IN 47130) to discuss the PER. No written comments were received during the 5-day comment period following the hearing.



0 300 600 1,200 Feet

Figure 1
Location Map
Clarksville, Indiana



331 Quartermaster Court
 Jeffersonville, Indiana 47130
 Phone: (812) 725-7900

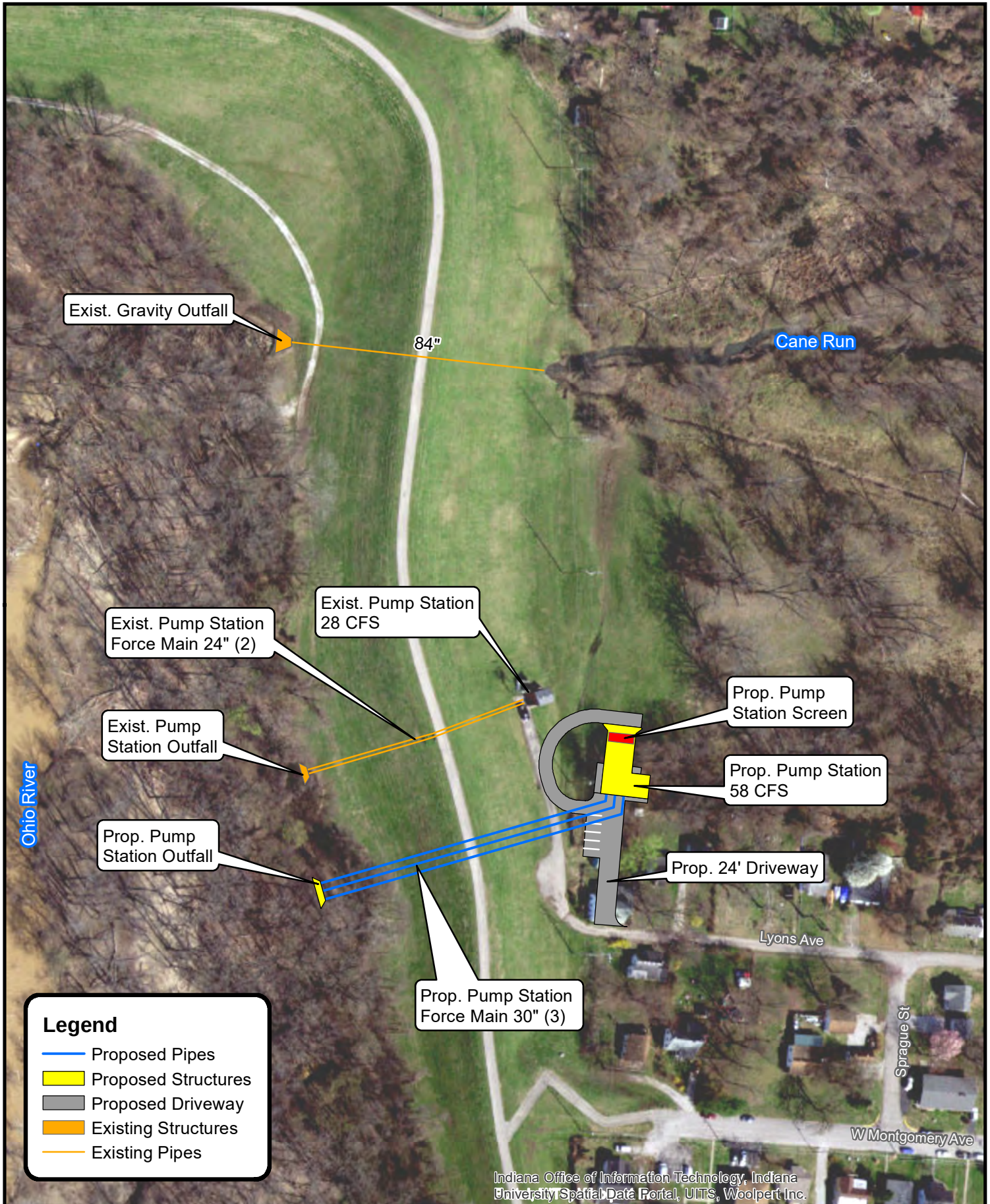


Figure 2
Recommended Alternative
Clarksville, Indiana



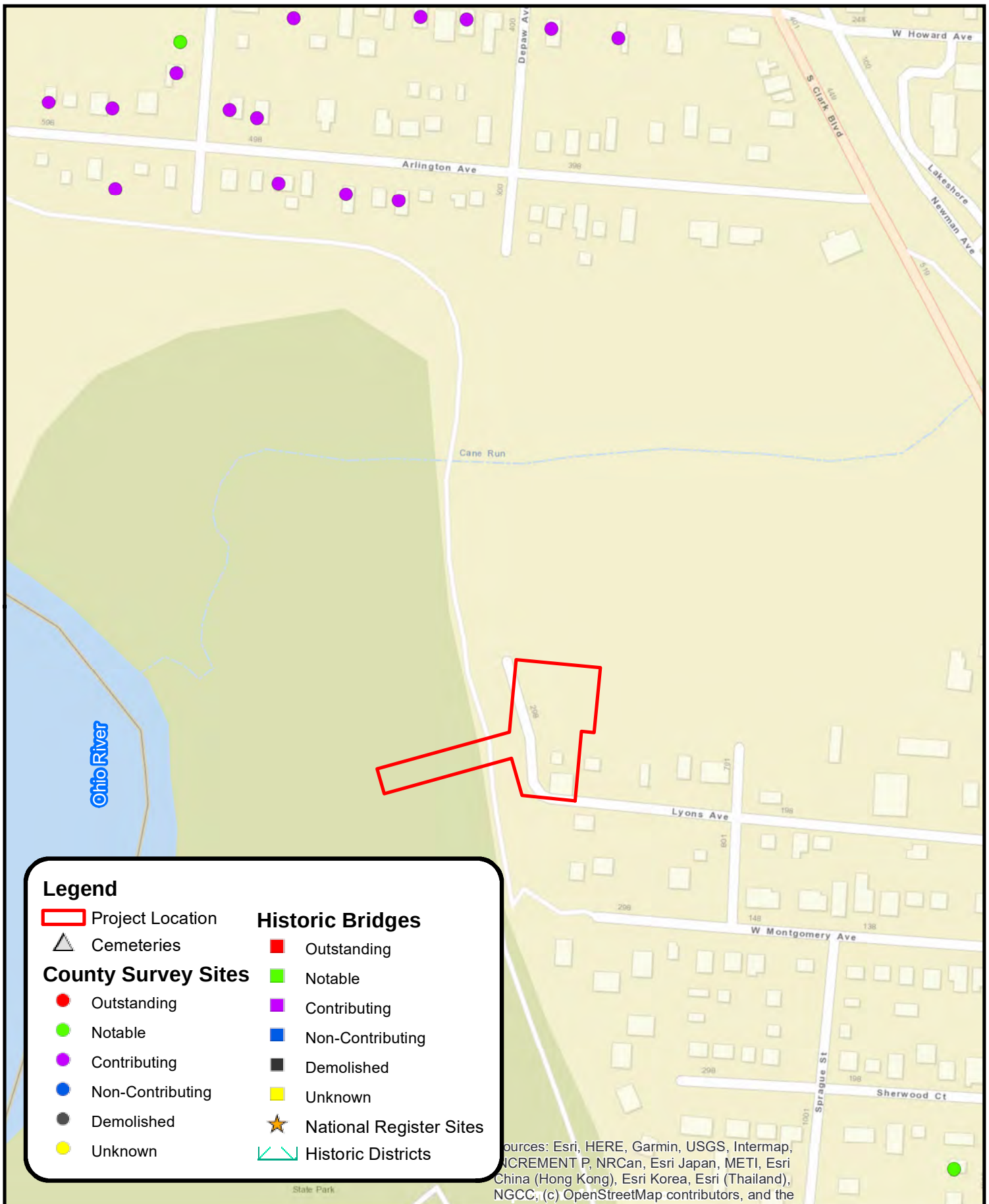
331 Quartermaster Court
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Figure 3
Soils Map
Clarksville, Indiana



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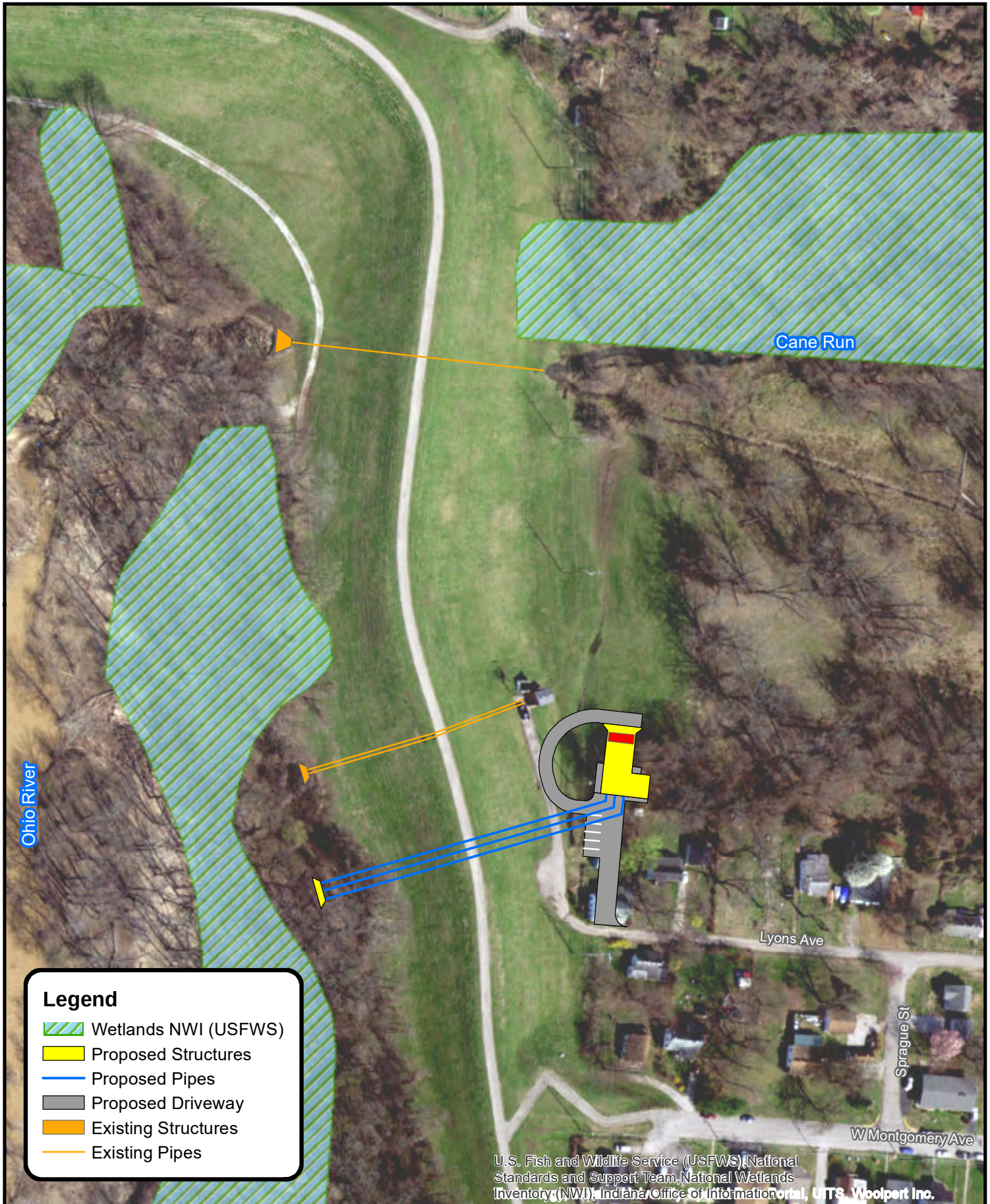


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Figure 4
Historic Buildings, Bridges,
and Cemeteries Map
Clarksville, Indiana



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Legend

-  Wetlands NWI (USFWS)
-  Proposed Structures
-  Proposed Pipes
-  Proposed Driveway
-  Existing Structures
-  Existing Pipes

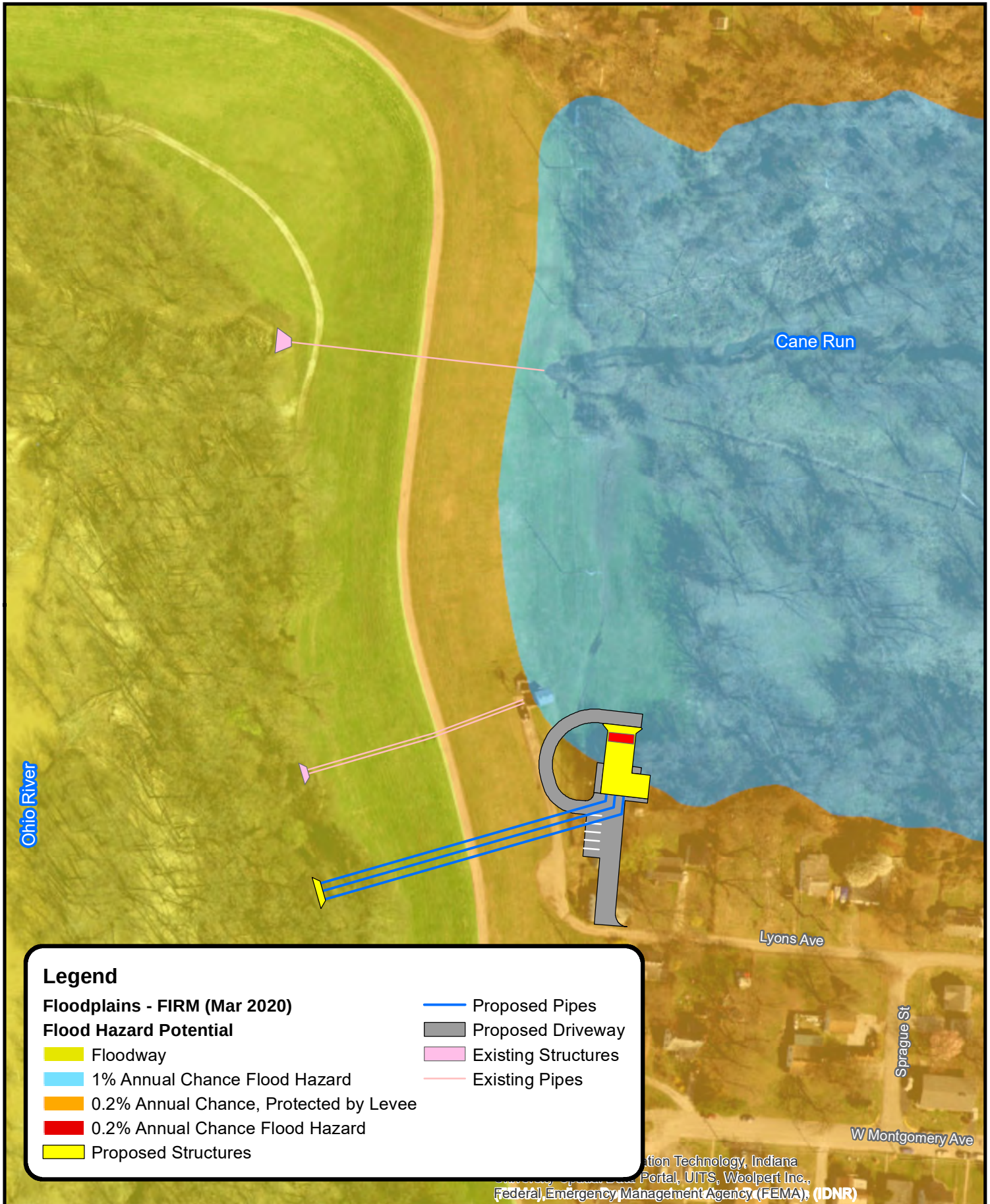


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Figure 5
Wetlands Map
Clarksville, Indiana



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0 75 150 300 Feet

Figure 6
Floodplain Map
Clarksville, Indiana



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