



## State Revolving Fund Loan Programs Drinking Water, Wastewater, Nonpoint Source

### PRELIMINARY DECISION OF CATEGORICAL EXCLUSION

TO ALL INTERESTED CITIZENS, ORGANIZATIONS AND GOVERNMENT AGENCIES:

**EVANSVILLE WATER & SEWER UTILITY**

**IROQUOIS GARDEN LIFT STATION IMPROVEMENTS PROJECT**

**PRELIMINARY ENGINEERING REPORT F: PROJECT #11  
SRF # WW 14 21 82 14**

**Date: October 10, 2014**

Pursuant to IC 4-4-11, the State Revolving Fund (SRF) Loan Program has determined that the project described here and in Evansville's Preliminary Engineering Report F received by the SRF on June 12 2014 will have no substantial negative environmental impact. Therefore, the SRF is issuing a preliminary decision of Categorical Exclusion from the requirements of substantive environmental review.

*How were environmental issues considered?*

The National Environmental Policy Act requires agencies disbursing Federal funds to include environmental factors in the decision making process. A summary of the project is attached for your review. The SRF's preliminary review has found that the proposed project does not require the preparation of either an Environmental Assessment or an Environmental Impact Statement.

*Why is additional environmental review not required?*

Our environmental review has concluded that significant environmental impacts will not result from the proposed action.

*How do I submit comments?*

Comments can be submitted to:

April Douglas,  
Senior Environmental Manager  
SRF Programs  
317-234-7294; [adouglas@ifa.in.gov](mailto:adouglas@ifa.in.gov)

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## CATEGORICAL EXCLUSION

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### I. PROJECT IDENTIFICATION

Project Name and Address: **Iroquois Gardens Lift Station Improvements Project  
Preliminary Engineering Report F  
Project # 11**  
Evansville Water & Sewer Utility  
1 NW Martin Luther King Jr., Blvd., Room 104  
Evansville, IN 47740-0001

SRF Project Number: WW 14 21 82 14

Authorized Representative: Allen Mounts, Director  
Evansville Water and Sewer Utility

### II. PROJECT LOCATION

Evansville is located in southeastern Vanderburgh County. The Iroquois Gardens Lift Station Improvements project area is located in the Newburgh USGS 7.5' topographic quadrangle in Knight Township, T5S, R10W and section 34 (see Exhibit 1).

### III. PROJECT NEED AND PURPOSE

The purpose of the Iroquois Gardens Lift Station Improvements project is to provide adequate capacity for handling current and projected future flows and minimize system backups and surcharging. This project is being done as part of the implementation of the Capacity, Management, Operation and Maintenance program being implemented by the Evansville Water and Sewer Utility to address a Consent Decree. The project will also provide for a more reliable system since the present one pump lift station will be replaced with a duplex lift station.

The proposed improvements for Project #11 include the following components (see Exhibits 2 and 3):

- A. removal of the existing lift station including pumping equipment and wet well;
- B. construction of a new wet well and valve pit;
- C. installation of two new submersible pumps each having a capacity between 100 and 150 gallons per minute (gpm) with variable frequency drive (VFD) controls;
- D. construction of new valving, metering and piping at the lift station;
- E. construction of 4-inch force main to connect to an existing manhole; and
- F. associated electrical and site work.

Two alternatives were evaluated for the Iroquois Gardens Lift Station Improvements project, including the “No Action” alternative.

The “No Action” alternative was rejected since the lift station would continue to deteriorate resulting in increased maintenance costs and eventual failure. Failure of the station would likely result in sanitary sewer overflows.

The Lift Station Replacement alternative would involve the removal of the existing lift station pumps and structure and construction of a new duplex, submersible lift station. **This is the selected alternative.**

#### IV. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

##### A. Selected Plan Cost Summary

<u>Construction Components</u>	<u>Costs</u>
Bypass Pumping	10,000
Manhole Construction	11,425
Removing Existing Wet Well & Piping	3,250
Wet Well and Valve Pit Construction	35,000
Submersible Pumps and VFD Controls	80,000
Piping, Valving and Metering at Lift Station	12,500
8-Inch Sanitary Sewer Construction	2,000
4-Inch Force Main Construction	3,750
Site Work	24,125
Tree Removal	8,000
Mobilization/Demobilization	<u>15,000</u>
<b>Subtotal</b>	<b>\$ 205,050</b>
Contingency	<u>20,500</u>
<b>Total Construction Costs</b>	<b>\$ 225,550</b>
<b>Non- Construction Costs</b>	
Engineering Costs	7,500
Project Inspection	20,500
Land & Rights of Way Acquisition*	<u>11,750</u>
<b>Total Non-Construction Costs</b>	<b>\$ 39,750</b>
<b>Total Estimated Project Costs</b>	<b>\$ 265,300</b>

\*Ineligible cost of \$3,150 for SRF funding due to land acquisition

B. Evansville will borrow \$265,300 from the State Revolving Fund Loan Program through a 20-year loan at a fixed interest rate to be determined at the time of loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

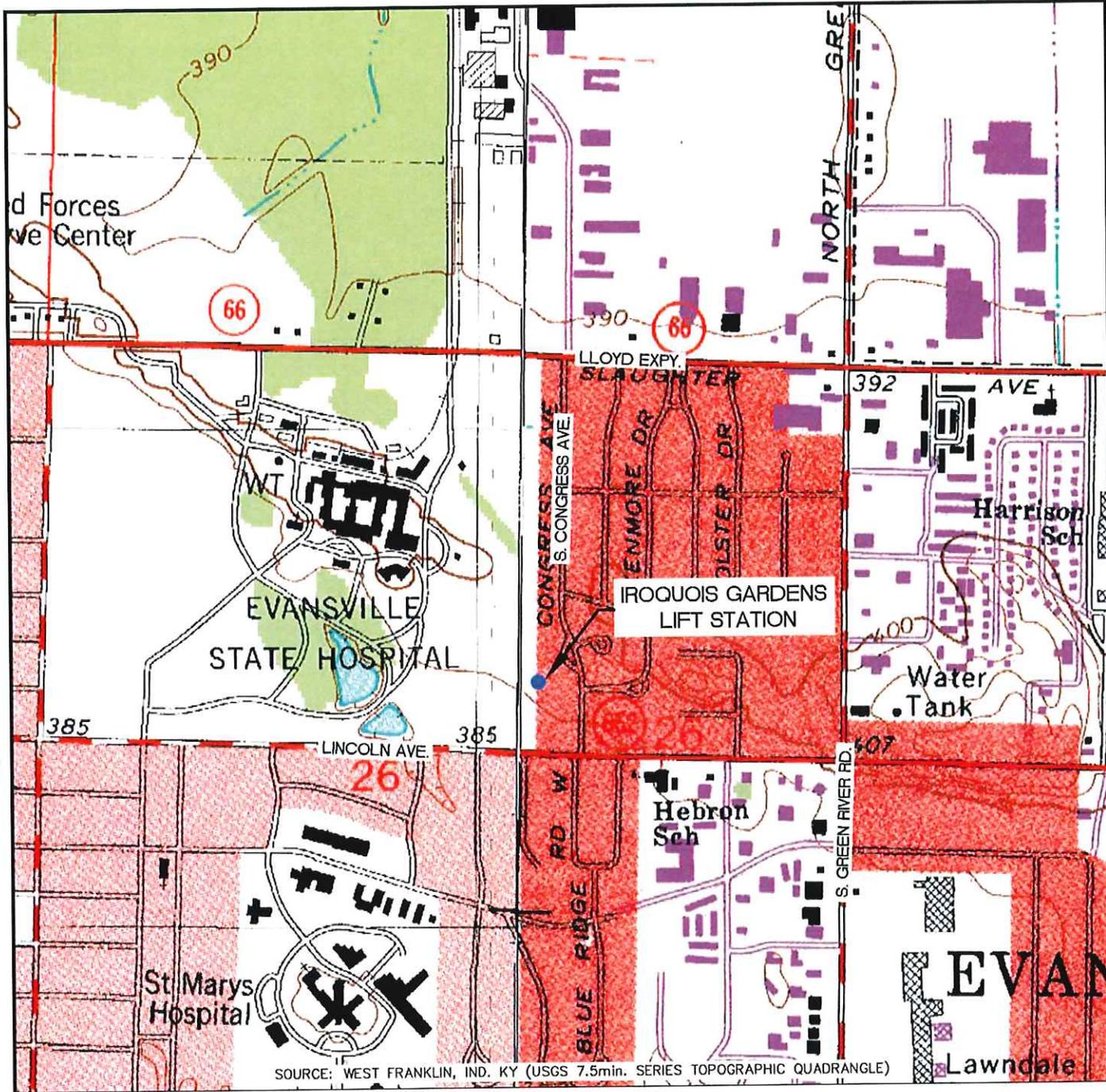
#### V. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

The project will occur in a previously disturbed area and will not affect endangered species or their habitat, streams, wetlands, or the 100-year floodplain.

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 Historic Preservation Act is: "no historic properties affected" (see Exhibit 4 and 5).

## **VI. PUBLIC PARTICIPATION**

A properly noticed public hearing was held at the Evansville Vanderburgh Public Library-North Park Branch on June 25, 2014, at 5:30 p.m. to discuss the Preliminary Engineering Report. There were no comments raised about Project #11 at the hearing and no written comments were received.



SOURCE: WEST FRANKLIN, IND. KY (USGS 7.5min. SERIES TOPOGRAPHIC QUADRANGLE)

NOTE: PROJECT WILL OCCUR IN SECTION 26 T6S R10W

**LEGEND**

● EXISTING SANITARY LIFT STATION



0 500' 1000' 2000'



SCALE: 1" = 1000'

**VS ENGINEERING, INC.**  
 915 MAIN STREET, SUITE 205, EVANSVILLE, INDIANA 47708  
 TEL: (812) 401-0503 FAX: (317) 293-4737

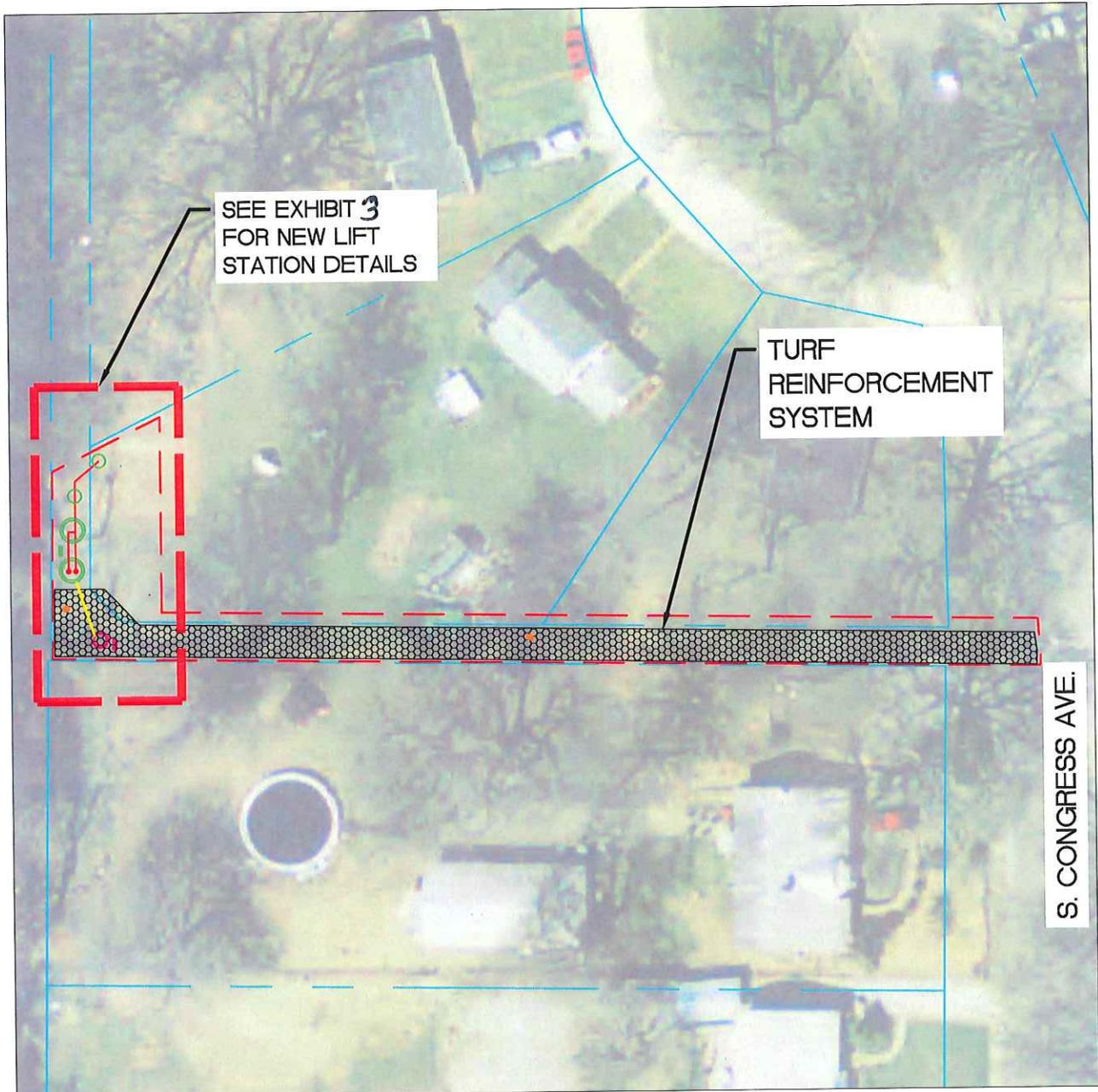
CITY OF EVANSVILLE WATER AND SEWER UTILITY  
 PRELIMINARY ENGINEERING REPORT 'F', PROJECT No. 11  
 IROQUOIS GARDENS LIFT STATION IMPROVEMENT PROJECT

**GENERAL TOPOGRAPHY MAP**

**EXHIBIT**

1

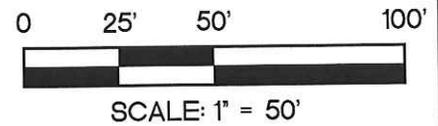
DESIGNED BY: J. J. ...  
 DRAWING EXHIBIT: ...  
 DATE: ...



AERIAL: WINTER 2013

**LEGEND**

-  PROP. SANITARY STRUCTURE
-  PROP. SANITARY SEWER
-  PROP. FORCE MAIN
-  PROP. CONTROL PANEL
-  PROP. CONST. LIMITS
-  TURF REINFORCEMENT SYSTEM
-  EXIST. LIFT STATION WET WELL
-  EXIST. CONTROL PANEL
-  EXIST. PROPERTY LINE
-  EXIST. TREE TO BE REMOVED



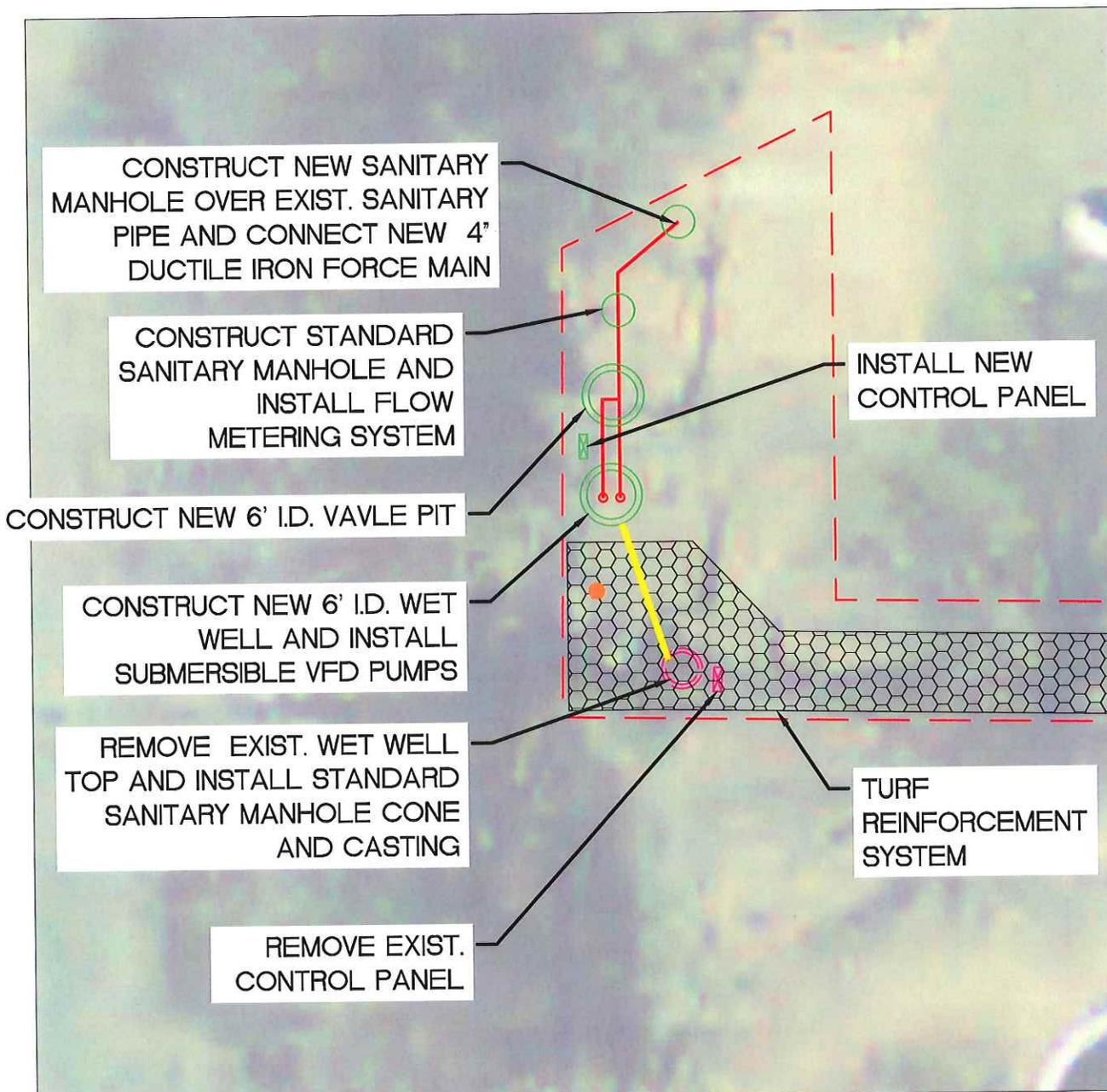
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**PROPOSED SITE LAYOUT**

**EXHIBIT**  
**2**

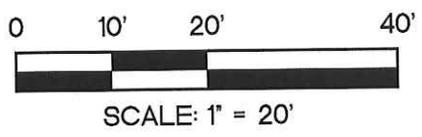
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AERIAL: WINTER 2013

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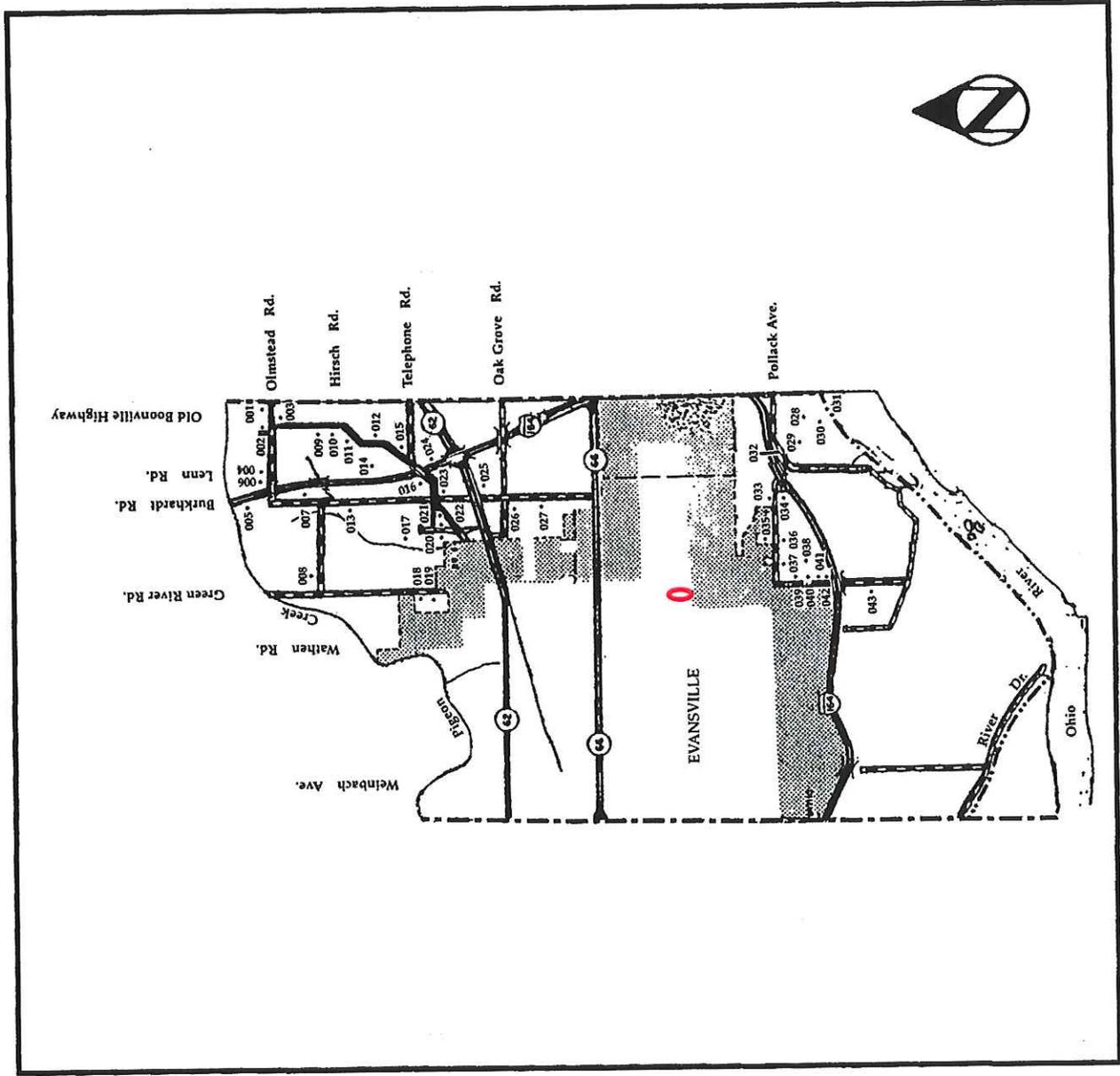
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**PROPOSED SITE LAYOUT**

**EXHIBIT**  
**3**

# Knight Township (20001-043)



The township's terrain is generally flat. Because the Ohio River forms much of the township's southern boundary, the land is both fertile and susceptible to flooding. North of the bottoms, the land is higher and was originally heavily timbered.

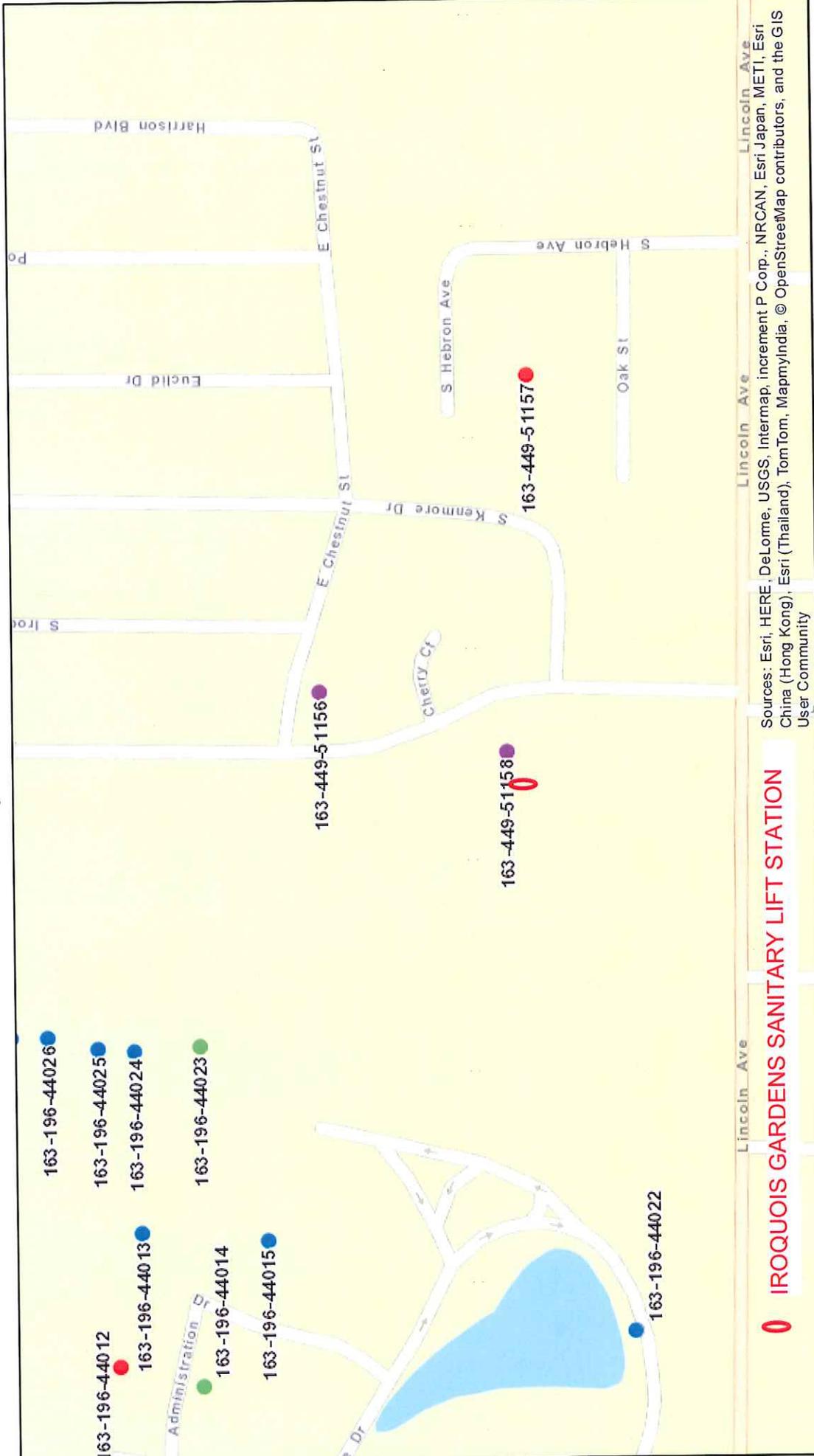
The township's earliest settlers came to the area in 1806. Aeneas McCallister crossed the Ohio River from Kentucky and built a house in the bottoms opposite the mouth of the Green River. McCallister was soon followed by Daniel Noble, Henry and John James, David Aikin and John Garrett who came to the bottoms between 1810 and 1818.

Until construction of the Wabash and Erie Canal through the township during the 1830s, most of the area's settlement was confined to the township's southern edges. Work on the canal which stretched across the township's northern section, lasted from 1837-1838. Abandoned by 1859 because it could not compete with the railroads, the waterway is still visible as a large ditch (20025). Ironically, the former Evansville and Eastern Railroad built its tracks on the towpath.

A number of tiny villages were established along the canal and the railroad line. In 1837 William Walker platted the town of Smyra along the canal path. Smyth's Station was the site of a tile factory. Today, nothing remains of these two communities.

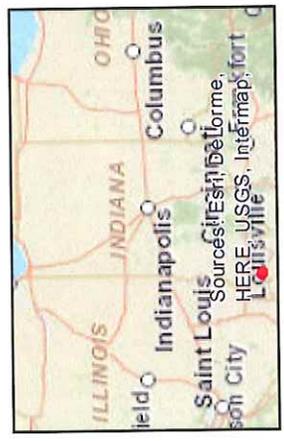
Knight Township's historic resources reflect its agricultural past. The Karch Farm (20036), the Joe and Katherine Folz Farm (20013), and the William

# Iroquois Gardens

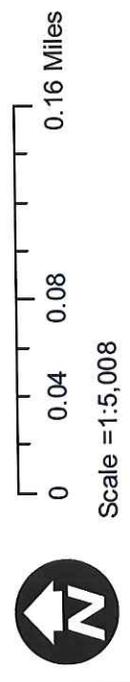


Author:

- Unknown
- ★ National Register Sites
- Historic Districts
- Unknown
- Outstanding
- Notable
- Contributing
- Non-Contributing
- Demolished
- Outstanding
- Notable
- Contributing
- Non-Contributing
- Demolished
- ▲ Cemeteries
- Outstanding
- Notable
- Contributing
- Non-Contributing
- Demolished



Map Coordinate System:  
 WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere



**DNR**  
 Indiana Dept. of Natural Resources  
 Geographic Information Systems