



State Revolving Fund Loan Programs

Drinking Water, Wastewater, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

CITY OF FORT WAYNE TAYLOR-HALE SEWER SEPARATION – PHASE II STATE REVOLVING FUND PROJECT WW 14 31 02 07 – Project 13

DATE: October 6, 2014

TARGET APPROVAL DATE: November 6, 2014

I. INTRODUCTION

The above entity has applied to the State Revolving Fund (CWSRF) Loan Program for a loan to finance all or part of the wastewater 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 at <http://www.in.gov/ifa/srf/>.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The SRF 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 4-4-11, 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 deadline 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 effected by finalizing, or not finalizing, the FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

April Douglas
Senior Environmental Manager
State Revolving Fund – IGCN 1275
100 N. Senate Ave.
Indianapolis, IN 46204
317-234-7294
adouglas@ifa.in.gov

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address: **Taylor-Hale Sewer Separation – Phase II**
City of Fort Wayne
200 East Berry Street, Suite 270
Fort Wayne, IN 46802

SRF Project Number: WW 14 31 02 07 – PROJECT 13

Authorized Representative: Mr. Kumar Menon, Director of Public Works

II. PROJECT LOCATION

Fort Wayne's Taylor-Hale Sewer Separation, Phase II project is located in Wayne Township in Allen County in the Fort Wayne West Quadrangle, Township 30N, Range 12E, and section 10.

III. PROJECT NEED AND PURPOSE

The Taylor-Hale Sewer Separation – Phase II project is being completed to help reduce combined sewer overflows (CSOs) from the Brown Street Pump Station (i.e., CSO Outfall 007 and 056) by off loading the storm water flow and piping it to the St. Mary's River. This project is part of the Long Term Control Plan (LTCP) CSO Control Measure #6 to complete partial sewer separation projects that are cost effective for Subbasins tributary to the Parallel Interceptor (PI).

IV. PROJECT DESCRIPTION

The Taylor-Hale Sewer Separation Phase II project is the second phase of sewer separation work being done in the Westfield neighborhood in Fort Wayne. New storm sewers are proposed to be constructed which would intercept inlets/catch basins and parking lots in the area that are presently connected to the combined sewer system. Based on modeling, the second phase in combination with the first phase (which is under construction) will reduce the annual CSO volume by 11.24 million gallons and reduce the frequency by two events.

The proposed project contains approximately 5,180 linear feet (lf) of piping that will convey runoff from portions of Taylor Street, Brown Street, Paul Street and Brooklyn Avenue to the St. Mary's River via a new storm water outfall. This proposed storm sewer system will consist of approximately 950 lf of 12-inch RCP, 1,075 lf of 18-inch RCP, 410 lf of 24-inch RCP, 390 lf of 30-inch RCP, 885 lf of 42-inch RCP, 1,470 lf of 48-inch RCP, and associated inlets, catch basins and manholes. The project will also require road and curb reconstruction and utility relocation (see Figures 1 and 2).

V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Estimated Cost Summary

<u>Construction Components</u>	<u>Costs</u>
Inlet Structures	\$105,000
Manholes	80,000
Outfall Structure	80,000
12-inch Storm Sewer	42,750
18-inch Storm Sewer	59,125
24-inch Storm Sewer	30,750
30-inch Storm Sewer	37,050
42-inch Storm Sewer	106,200
48-inch Storm Sewer	198,450
Special Backfill	162,500
Site Restoration	379,375
Green Infrastructure	75,000
Appurtenances	233,000
Contingency	<u>158,920</u>
Construction Sub-Total	\$1,748,120
Non-Construction Costs	
Design Engineering	280,000
Construction Management	160,000
Legal and Financial	<u>61,184</u>
Non-Construction Sub-Total	\$501,184
Total Estimated Project Cost	<u>\$2,249,304</u>

- B. Fort Wayne will finance the project with a loan from the State Revolving Fund Loan Program for a 20-year term at an annual fixed interest rate to be determined at loan closing. The 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 practical, environmentally sound nor economical. The stormwater inlets and catch basins would continue to contribute flow to the combined sewer system and contribute to combined sewer overflows from the Brown Street Pump Station. This would not allow the city to meet its LTCP goals.

Optimal Operations of Existing Facilities: Fort Wayne operates the combined sewer system as effectively as possible with continual observation and maintenance. This alternative would not reduce combined sewer overflows at the Brown Street Pump Station and would not allow the city to meet its LTCP goals.

Collection System Rehabilitation/Replacement: Rehabilitation of the existing sewer system will not address the issue of surcharging and combined sewer overflows, and therefore not address the

LTCP goals.

New Collection System/Interceptor Routes and Alternatives: This alternative involves constructing storm drains to pick up inlets and catch basins that are currently connected to the combined system and redirecting the storm water to St. Mary's River. **Based on cost this is the selected alternative.**

Phasing: The project is part of the phased approach to comply with CSO Control Measure #6 in the LTCP by completing partial sewer separation projects that are cost effective for Subbasins tributary to the PI. This is the second phase of sewer separation work in the Westfield neighborhood.

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Disturbed/Undisturbed Land: Work related to the installation of storm sewers will occur in disturbed rights-of-way, adjacent to and within roadways, alleys, and existing utility trenches. The outfall will be constructed in an area previously disturbed as part of the River Greenway and Taylor Street Bridge construction. All areas have been disturbed by previous construction activity.

Structural Resources (Figure 3): Curbs and sidewalks will be impacted by the construction, but the architectural and historic structures and yards will not be impacted. 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: St. Mary's River will be temporarily affected by the installation of a 48-inch storm outfall. If dewatering is required as part of the construction, the dewatering flows will be settled prior to discharge to avoid discharge of solids to surface waters. The project will not adversely affect outstanding state resource waters listed in 327 IAC 2-1.3-3(d), exceptional use streams listed in 327 IAC 2-1-11(b), Natural, Scenic and Recreational Rivers and Streams listed in 312 IAC 7-(2), or Salmonid Streams listed in (327 IAC 2-1.5-5(a)(3) or streams on the Outstanding River List for Indiana.

Wetlands (Figure 4): The project will not impact wetlands.

Floodplain (Figure 4): The majority of the proposed project will be located within the 100-year flood plain. The only above-grade structure is the outfall structure. The PER states the following relative to construction within a floodplain: *The construction will be in accordance with permit requirements.*

Groundwater: The project will not negatively impact a drinking water supply or sole source aquifer.

Plants and Animals: The only location where wooded, scrubs or shrub areas will be impacted are in the vicinity of the outfall structure. Some brush may need to be cleared, along with an estimated 4-5 small sapling trees and 3 bushes. The construction and operation of the proposed project will not negatively impact State or Federally listed endangered species or their habitat. The PER states: *The project will be implemented to minimize the impact to non-endangered*

species and their habitat. Mitigation measures will be implemented as requested by the Indiana Department of Natural Resources and the U.S. Fish and Wildlife Service.

Prime Farmland: The project will not convert prime farmland.

Air Quality: Construction activities may generate some noise, fumes and dust, but should not significantly affect air quality.

Open Space and Recreational Opportunities: The project will neither create nor destroy open space or recreational opportunities. The outfall structure will be constructed adjacent to the River Greenway and may require temporary detours during construction for a portion of the greenway trail.

Lake Michigan Coastal Program: The project will not affect the Lake Michigan Coastal Zone.

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

B. Indirect Impacts

The City's Preliminary Engineering Report (PER) states: *The City of Fort Wayne through the authority of its Council planning commission, or other means, will ensure that future development, as well as future collection system or treatment works projects connecting to SRF funded facilities will not adversely affect wetlands, wooded areas, steep slopes, archaeological/historical/structural resources, or other sensitive environmental resources. The City will require new development and treatment works projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM, and other environmental authorities.*

C. Comments from Environmental Review Authorities

This document serves as the first notice to the U. S. Fish and Wildlife Service and the Indiana Department of Natural Resources: Environmental Unit and Department of Historical Preservation and Archaeology.

In correspondence dated August 13, 2014 the Natural Resources Conservation Service stated: *The proposed project...will not cause a conversion of prime farmland.*

VIII. MITIGATION MEASURES

Fort Wayne's Preliminary Engineering Report states:

The project will be designed and implemented to minimize soil erosion and mitigation measures cited in comment letters from governing agencies will be implemented. Erosion control measures including seeding, sodding, inlet protection, silt fence, stone construction entrance and dust control may be implemented in accordance with current soil erosion control practices at the time of construction to reduce/eliminate erosion of the soils.

To mitigate construction noises and the subsequent resident complaints, construction will only be allowed from 7:00 am to 5:00 pm Monday through Friday. Appropriate erosion control measures will be implemented during construction to abate dust and airborne dirt particles. The contractor

will be required to maintain all equipment in good working order to mitigate noise and air pollution caused by faulty operating equipment.

IX. PUBLIC PARTICIPATION

A properly noticed public hearing was held on August 13, 2014, at 10:00 am at the Council Chambers, Room, Room 035, Citizens Square, Fort Wayne to discuss the PER. No verbal comments were received at the public hearing, and no written comments were received during the 5-day comment period following the hearing.



TAYLOR/HALE SEWER SEPARATION PHASE 2



- Legend**
- CSO Outfalls
 - Brown St Pump Station
 - Proposed Storm Sewer
 - Existing Combo Sewer
 - Existing Sanitary Sewer

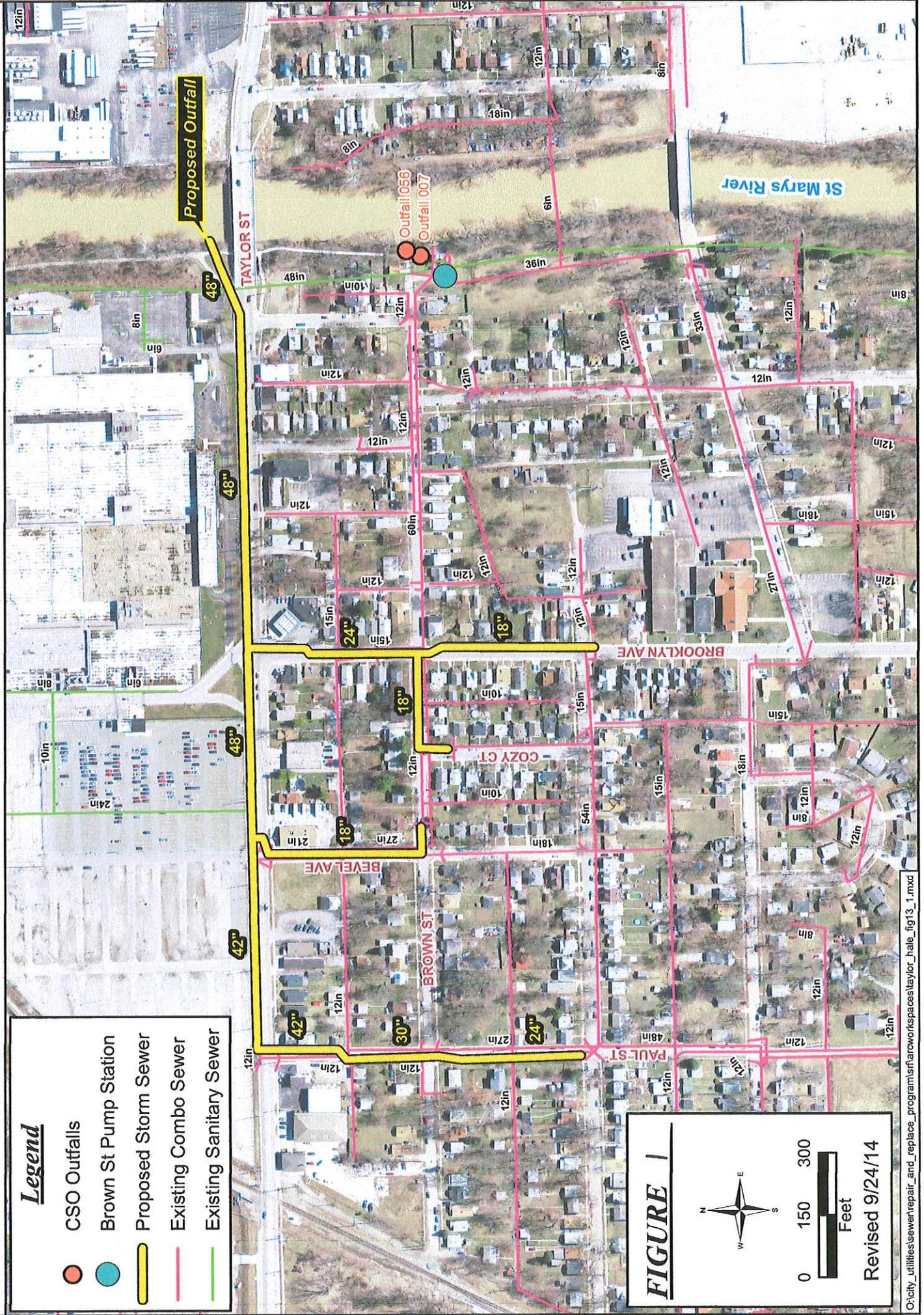
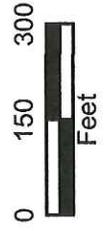
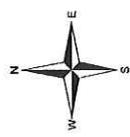


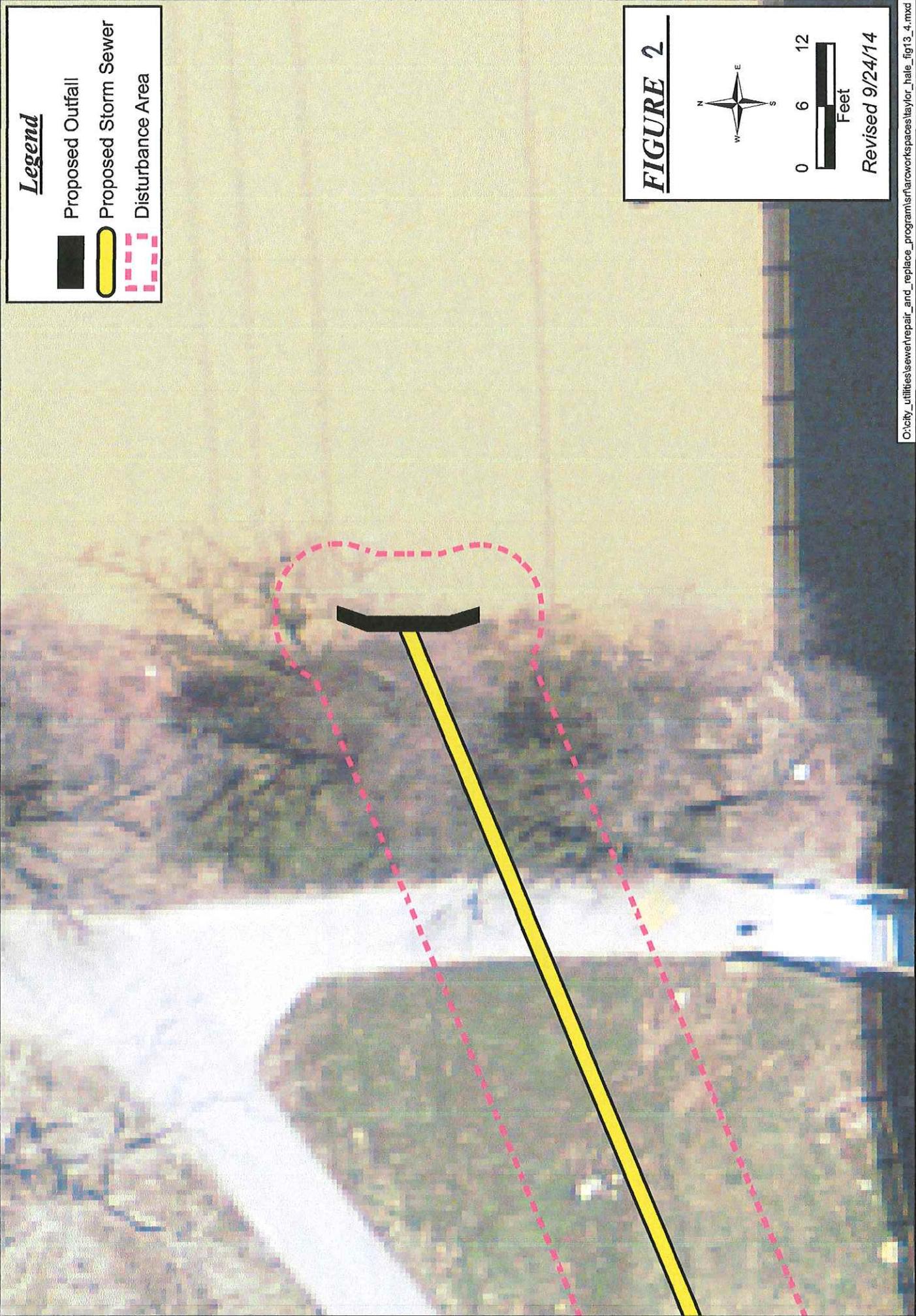
FIGURE 1



Revised 9/24/14



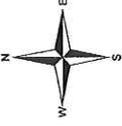
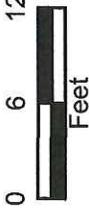
TAYLOR/HALE SEWER SEPARATION PHASE 2



Legend

-  Proposed Outfall
-  Proposed Storm Sewer
-  Disturbance Area

FIGURE 2

Revised 9/24/14

Sector 33 (003-215-33001/33074)

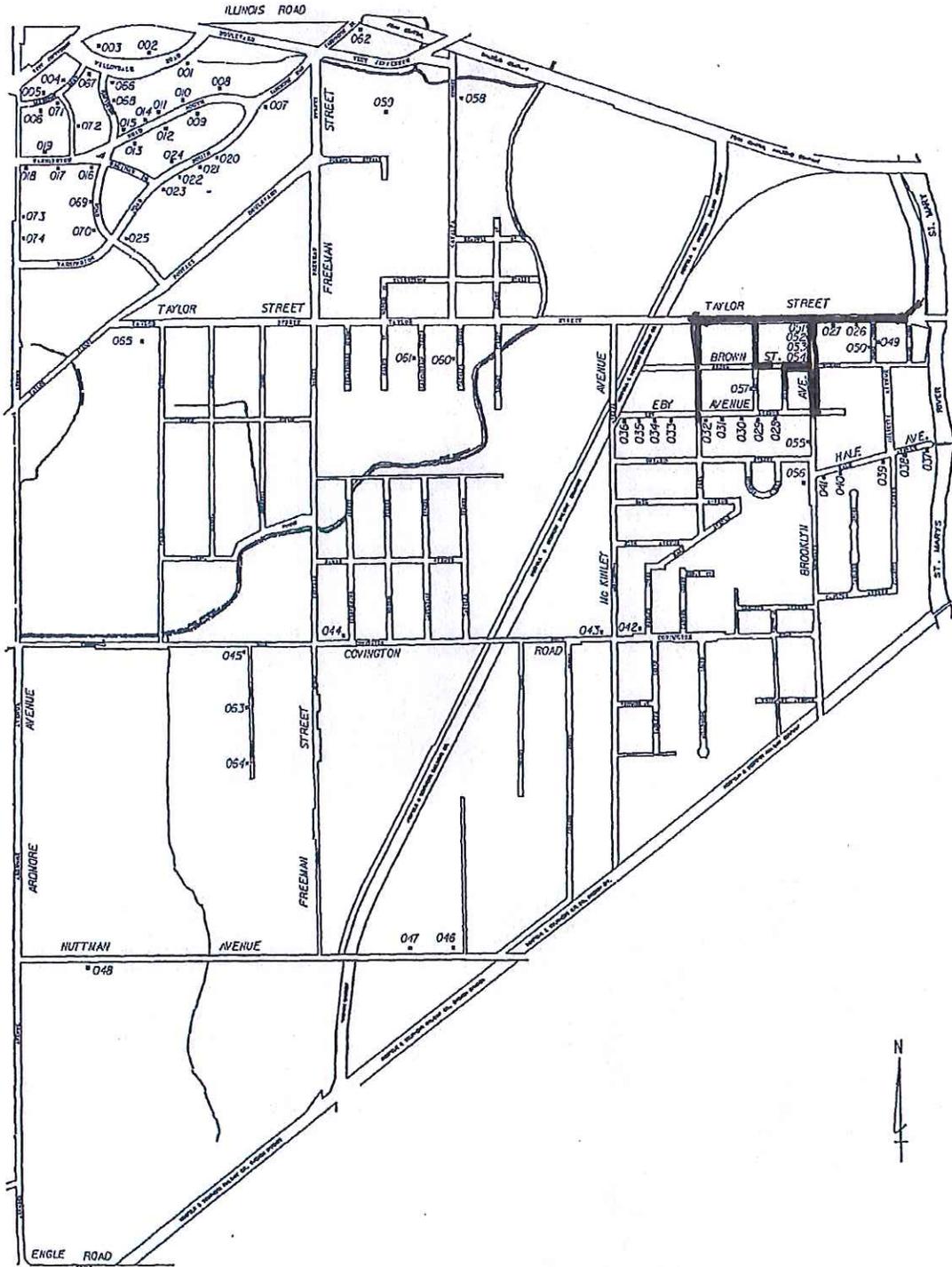
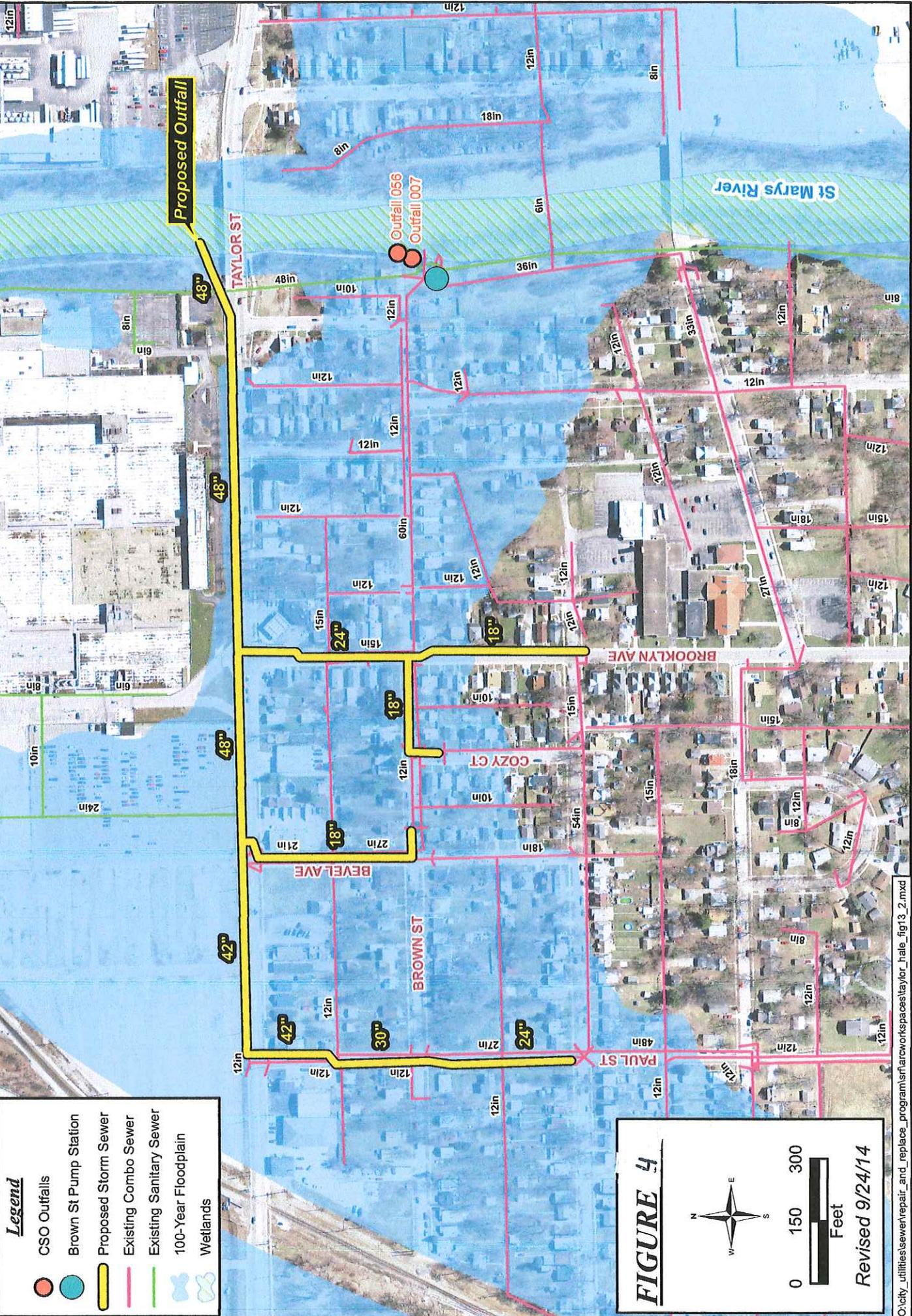


Figure 3: from the Allen County Interim Report Historic Sites and Structures Inventory



TAYLOR/HALE SEWER SEPARATION PHASE 2



Legend

- CSO Outfalls
- Brown St Pump Station
- Proposed Storm Sewer
- Existing Combo Sewer
- Existing Sanitary Sewer
- 100-Year Floodplain
- Wetlands

FIGURE 4

Revised 9/24/14