

**ADAMS COUNTY REGIONAL SEWER DISTRICT
2018 SANITARY SEWER IMPROVEMENTS
ADAMS COUNTY, INDIANA**

PROJECT SUMMARY

PUBLIC HEARING

November 9, 2018 @ 12:00 p.m.

PROJECT PURPOSE:

The primary purpose for the proposed 2018 Sanitary Sewer Improvements project is to affect the relief of failing individual, on-site septic systems currently serving existing residential and commercial development. Each of the proposed service areas lies outside of the boundaries of an established municipal sewer service provider and in each instance the District will act as a financing mechanism to fund the costs associated with the construction of an appropriate sanitary sewer collection system.

PROJECT DESCRIPTION:

The proposed project can be broken down into seven distinct separate projects and consist of the following: (1) Linn Grove, an installation of new gravity collection sewers coupled with a regional lift station; (2) Rivare (Bobo), an installation of new gravity collection sewers and grinder pump stations coupled with a regional lift station; (3) Barrington Woods, an installation of new pressure collection sewers and grinder pump stations; (4) Preble, an installation of new gravity and pressure collection sewers and grinder pump stations coupled with a regional lift station; (5) Peterson, an installation of new pressure collection sewers and grinder pump stations; (6) Monmouth Extended, an installation of new pressure collection sewers and grinder pump stations; and (7) Clem's Lake, an installation of new pressure collection sewers and grinder pump stations. Each of the septic elimination projects will be connected into the City of Decatur or the City of Berne's municipal collection system for sewage treatment.

FEASIBLE ALTERNATIVES:

1. No Action Alternative

This option would require the District to do nothing or take a course of 'No Action' and continue to maintain their existing collection systems and pump stations and pursue no new regions which are currently in need of municipal sewer service. This option is not realistic

due to the pressing needs of many of the area's residents, nor is it in line with the District's philosophy with respect to unsewered areas, not to mention the increased pressure for action in many areas from the Adams County Department of Health. Failure to act in many cases may lead to enforcement actions by the AC DOH with respect to individual properties and/or costly septic system replacements.

2. Line Grove (Selected Plan Figures 3A-1 – 3A-6)

The project area is located in Hartford Township, T 25N R 13E, Sections 1, 2, 3 & 11 and in Wabash Township, T 25N R 14E, Sections 5, 6 & 7, Linn Grove & Berne Quadrangles. The proposed Service Area is centered at the intersection of CR 700 S and Water Street and lies on the west bank of the Wabash River. The proposed point of connection is an 8-inch gravity sewer west of Village Way and northwest of Carrington Way in Berne. The Service Area contains approximately 70 structures which all possess individual, on-site septic systems for sewage disposal. Many of the systems no longer meet current codes. The District intends to service the entire area with gravity sewers, a lift station and transmission force main. There would also be an opportunity for the property owners along the transmission main between Linn Grove and Berne to connect to the municipal sewer via grinder pump system. Although not the cheapest or most expensive alternative, this alternative provides the ability to construct a conventional gravity sewer collection system in a fairly compact area that requires less maintenance and provides more capacity for future development. The new sewers would be designed to accept sanitary flows only and would involve the construction of new house service laterals by the property owners on private property, as well as the decommissioning of their existing septic systems.

This alternative consists of the following work:

- 5,230 LF of 8-inch Gravity Sewer
- 22,500 LF of 6-inch Force Main
- 270 LF of 6-inch Force Main (River Crossing)
- 20 Manholes
- Lift Station
- Flow Metering Structure

3. Rivare (Bobo) (Selected Plan Figures 4A-1 – 4A-6)

The project area is located in St. Mary's Township, T 27N R 15E, Sections 6, 7, 8 & 9 and in Washington Township, T 27N R 14E, Sections 1 & 12, Wren & Decatur Quadrangles. The

proposed Service Area is centered at the intersection of SR 101 and CR 450 N in the eastern portion of the county, north of the Pleasant Mills and east of Decatur. The proposed point of connection is an 8-inch gravity sewer at the intersection of N. Piqua Road and Twin Lakes Drive in Decatur. The Service Area contains approximately 56 structures which all possess individual, on-site septic systems for sewage disposal. Many of the systems no longer meet current codes. The District intends to service the entire area with gravity sewers, a lift station and transmission force main. Costs have been included for the connection of property owners along the transmission force main between Rivare and Decatur via grinder pump system. Although not the cheapest or most expensive alternative, this alternative provides the ability to construct a conventional gravity sewer collection system in a fairly compact area that requires less maintenance and provides more capacity for future development. The new sewers would be designed to accept sanitary flows only and would involve the construction of new house service laterals by the property owners on private property, as well as the decommissioning of their existing septic systems.

This alternative consists of the following work:

- 4,500 LF of 8-inch Gravity Sewer
- 17,800 LF of 6-inch Force Main
- 3,300 LF 2-inch Low Pressure Sewer
- 16 Manholes
- Lift Station
- Flow Metering Structure
- 26 Grinder Pump Stations

4. Barrington Woods (Selected Plan Figures 5A-9 – 5A-12)

The project area is located in Root Township, T 28N R 14E, Sections 28 & 29, Decatur Quadrangle. The proposed Service Area is located in the northwestern portion of the county, directly northwest of Decatur along Winchester Road. The proposed point of connection is an 8-inch gravity sewer at the intersection of Winchester Road and Tiger's Trail in Decatur. The Service Area contains approximately 42 structures including the Barrington Woods addition and Prestress Services Industries, LLC which all possess individual, on-site septic systems for sewage disposal. Many of the systems no longer meet current codes. The District intends to service the entire area with small diameter, low pressure collection sewers coupled with grinder pump stations. Costs have been included for the connection of property owners along the force main route between CR 750 N and Decatur via grinder pump system. The new sewers would be designed to accept sanitary flows only and would involve the

construction of new house service laterals by the property owners on private property, as well as the decommissioning of their existing septic systems.

This alternative consists of the following work:

- 2,700 LF 3-inch Low Pressure Sewer
- 7,000 LF 2-inch Low Pressure Sewer
- Flow Metering Structure
- 35 Grinder Pump Stations

5. Preble (Selected Plan Figures 6A-6 – 6A-10)

The project area is located in Preble Township, T 27N R 13E, Sections 35 & 36, in Kirkland Township, T 28N R 13E, Sections 1 & 2, and in Root Township, T 28N R 14E, Sections 31, 32 & 33, Preble & Decatur Quadrangles. The proposed Service Area is centered at the intersection of U.S. 224 and CR 400 W due west of Decatur along US 224. The proposed point of connection is an 18-inch gravity sewer at the intersection of US 224 and 17th Street in Decatur. The Service Area contains approximately 59 structures which all possess individual, on-site septic systems for sewage disposal. Many of the systems no longer meet current codes. The District intends to service the entire area with gravity sewers, a lift station and transmission force main. Some of the area would also be serviced with small diameter, low pressure collection sewers coupled with grinder pump stations. There would also be an opportunity for the property owners along the transmission force main between Preble and Decatur to connect to the municipal sewer via grinder pump system. The new sewers would be designed to accept sanitary flows only and would involve the construction of new house service laterals by the property owners on private property, as well as the decommissioning of their existing septic systems.

This alternative consists of the following work:

- 2,660 LF of 8-inch Gravity Sewer
- 20,800 LF of 6-inch Force Main
- 4,700 LF 2-inch Low Pressure Sewer
- 12 Manholes
- Lift Station
- Flow Metering Structure
- 15 Grinder Pump Stations

6. Peterson (Selected Plan Figures 7A-3 – 7A-4)

The project area is located in Kirkland Township, T 27N R 13E, Sections 1, 2, 11 & 12, Preble Quadrangle. The proposed Service Area is centered at the intersection of CR 400 W and CR 500 N due west of Decatur and south of Preble. The proposed point of connection is an 8-inch gravity sewer at the intersection of CR 400 W and an alley to the south of US 224 in Preble. The Service Area contains approximately 33 structures which all possess individual, on-site septic systems for sewage disposal. Many of the systems no longer meet current codes. The District intends to service the entire area with small diameter, low pressure collection sewers coupled with grinder pump stations. The new sewers would be designed to accept sanitary flows only and would involve the construction of new house service laterals by the property owners on private property, as well as the decommissioning of their existing septic systems.

This alternative consists of the following work:

- 2,900 LF 3-inch Low Pressure Sewer
- 6,400 LF 2-inch Low Pressure Sewer
- 27 Grinder Pump Stations

7. Monmouth Extended (Selected Plan Figures 8A-1 – 8A-3)

The project area is located in Root Township, T 28N R 14E, Sections 14, 15, 16, 22 & 23, Hoagland Quadrangle. The proposed Service Area is centered at the intersection of CR 900 N and CR 100 E directly north of Decatur. The proposed point of connection is a 4-inch pressure sewer to the east of the intersection of CR 000 and CR 900 N. The Service Area contains approximately 38 structures which all possess individual, on-site septic systems for sewage disposal. Many of the systems no longer meet current codes. The District intends to service the entire area with small diameter, low pressure collection sewers coupled with grinder pump stations. The new sewers would be designed to accept sanitary flows only and would involve the construction of new house service laterals by the property owners on private property, as well as the decommissioning of their existing septic systems.

This alternative consists of the following work:

- 2,900 LF 3-inch Low Pressure Sewer
- 4,300 LF 2-inch Low Pressure Sewer
- 30 Grinder Pump Stations

8. Clem's Lake (Selected Plan Figure 9A-1 – 9A-3)

The project area is located in Root Township, T 28N R 14E, Sections 24, 25, 26, 35 & 36, Decatur Quadrangle. The proposed Service Area is centered at the intersection of N 200 E and E Lakeside Drive directly northeast of Decatur. The proposed point of connection is an 8-inch gravity sewer at the intersection of E. Bellmont Road and Bell Brook Blvd. in Decatur. The Service Area contains approximately 55 structures which all possess individual, on-site septic systems for sewage disposal. Many of the systems no longer meet current codes. The District intends to service the entire area with small diameter, low pressure collection sewers coupled with grinder pump stations. The new sewers would be designed to accept sanitary flows only and would involve the construction of new house service laterals by the property owners on private property, as well as the decommissioning of their existing septic systems.

This alternative consists of the following work:

- 5,100 LF 3-inch Low Pressure Sewer
- 6,200 LF 2-inch Low Pressure Sewer
- 42 Grinder Pump Stations

PROJECT COST:

The following are preliminary construction cost estimates for the implementation of the proposed sanitary sewer systems to service new service areas in regions where failing septic systems are creating environmental concerns. The following estimates include the direct and indirect costs to construct the proposed improvements and are broken down by individual service area. The estimates have been derived from current construction cost figures and have not been adjusted to reflect any future inflation.

Linn Grove; The estimated project costs for the implementation of the proposed improvements is \$2,662,800.

Rivare (Bobo); The estimated project costs for the implementation of the proposed improvements is \$2,262,800.

Barrington Woods; The estimated project costs for the implementation of the proposed improvements is \$886,600.

Preble; The estimated project costs for the implementation of the proposed improvements is \$2,292,000.

Peterson; The estimated project costs for the implementation of the proposed improvements is \$688,600.

Monmouth Extended; The estimated project costs for the implementation of the proposed improvements is \$670,900.

Clem's Lake; The estimated project costs for the implementation of the proposed improvements is \$954,300.

The total planning level estimated 2018 Sanitary Sewer Improvements Project Costs are \$10,418,000.

PROJECT SCHEDULE:

Milestone	Estimated Date
Submit 'SRF – Facility Plan (PER)' to IDEM	August 2018
Commence Sanitary Sewer System Extension Design	February 2019
Facility Plan (SRF PER) Approval	March 2019
Submit Plans & Specifications to IDEM	June 2019
Issuance of IDEM Construction Permits	August 2019
Advertise for Bids	August 2019
Begin Bond Initiation Process	September 2019
Receipt of Bids	September 2019
Completion of Financing & Issuance of Notice to Proceed	October 2019
Substantial Completion of Construction	August 2020
Initiation of Operation/Completion	September 2020
One Year Performance Certification Date	September 2021

ENVIRONMENTAL IMPACTS:

1. Soils & Geology - The soils and geology of the service areas will not be adversely affected by the proposed project. All construction will be done within existing road right-of-way or on land previously disturbed by construction except where as indicated within each project area.

2. Disturbed-Undisturbed Land – Again, the proposed projects will be constructed on previously disturbed land except as where indicated in each project area. The District will be constructing a lift station in several of the proposed Service Areas and may need to conduct an archeological survey for these sites. A similar survey may need to be conducted in other potential easement areas previously undisturbed by construction.

3. Historic, Architectural & Archaeological Sites – We reviewed the DNR’s list of Federal and State registered properties in Adams County to identify listed structures within the Planning Area. We also reviewed the Indiana SHAARD GIS mapping to uncover all known historical sites within the proposed project areas. There are a few historic structures in the area which will be receiving sewer service as a result of this project; however, the structures will not be altered. Once again, all construction will halt immediately in the event of a historical discovery or the unearthing of artifacts. There are no alluvial soils in any of the project sites, so no archeological discoveries are expected.
4. Wetlands – The proposed sewer alignments don’t cross any wetlands in any of the service areas; therefore, the proposed project will not impact any wetlands.
5. Hydraulics – The project will not adversely affect any outstanding state resource waters. Directional drilling will be utilized to mitigate any impacts on streams that are in the path of the systems.
6. Floodways – To limit impact on FEMA defined floodways, vegetation will be restored following the completion of construction. No proposed structures will be built within the floodway and typical erosion mitigation controls will be utilized.
7. Groundwater Hydrology – Groundwater in the project service areas will not be affected.
8. Endangered Plants and Animals – The construction in the project service areas will not negatively impact any state or federally-listed endangered species or their habitat.
9. Prime Agricultural Farmland – According to the State Conservationist office, the project will not cause a conversion of prime farmland and the project areas and routes do not contain prime, unique, statewide or local important farmland.
10. Air Quality – The air quality will be impacted by emissions from construction equipment. All exhaust will be required to go through a muffler to help alleviate air and noise pollution. There are no plans to utilize chemicals that may release hazardous air pollutants. Since the project area doesn’t lie within an air quality maintenance area, there will be no active monitoring of the air. Burning of construction materials will be prohibited.
11. National Natural Landmarks - This project will not impact any National Natural

Landmarks.

12. Open Space and Recreational Opportunities - The proposed project will neither create nor destroy open space and/or recreational opportunities.
13. Induced Impacts - The proposed sanitary sewer improvements projects will allow the District to provide sewer service to new areas in a variety of locations throughout the county. The new sanitary sewage systems will eliminate failing, on-site septic systems and provide users with municipal sanitary sewer service. It is unknown whether or not these sanitary sewer systems will create or attract new development. It is dependent more so on the location of the service area and the availability of undeveloped land adjacent to the sewers within the new service area. The District will ensure, through the authority of its Board and local zoning laws, that future development will not adversely impact environmentally sensitive areas by enforcing the requirements and guidelines of the IDNR, U.S. Fish & Wildlife Service, IDEM and the Adams County Drainage Board.
14. Mitigation Measures – Mitigation measures exist for this project as relates to stream crossings. The District will make every effort to comply with the mitigation measures previously discussed as well as any new measures set forth in the formal environmental evaluation.