

**ADAMS COUNTY REGIONAL SEWER DISTRICT
2021-2022 SANITARY SEWER IMPROVEMENTS
ADAMS COUNTY, INDIANA**

PROJECT SUMMARY

PUBLIC HEARING

August 13, 2021 @ 12:30 p.m.

PROJECT PURPOSE:

The primary purpose for the proposed 2021-2022 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 five distinct separate projects and consist of the following: (1) Sunnybrook Addition-CR 100W-CR 200W, an installation of new gravity and pressure collection sewers with grinder pump stations coupled with a regional lift station; (2) Magley-CR 600 W, an installation of new gravity and pressure collection sewers with grinder pump stations coupled with a regional lift station; (3) Oakwood Addition (Yost Woods) Fringe-CR 300 N, an installation of new gravity and pressure collection sewers with grinder pump stations; (4) NW Winchester Road-CR 200 W, an installation of new pressure collection sewers and grinder pump stations; and (5) Clem's Lake South-US 224, 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'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. Sunnybrook Addition-CR 100 W-CR 200 W (Selected Plan Figure 3A)

The project area is located in Root Township, T 28N R 14E, Sections 5, 6, 7 & 8, Hoagland Quadrangle. The proposed Service Area is centered at the intersection of CR 1000 N and CR 100 W and lies on US 27 to the northwest of the District's existing Monmouth-Roe Acres Service Area. The proposed point of connection is an existing 8-inch gravity sewer west of Roe Drive along CR 900 N. The Service Area contains approximately 86 structures which all possess individual, on-site septic systems for sewage disposal. The service area also contains one (1) mobile home park (formerly Oakridge Estates) with 120 trailer pads which has a package wastewater treatment facility with NPDES discharge permit. Many of the individual septic systems no longer meet current codes and the MHP's treatment facility has had operational problems/violations. The District intends to service the entire area with gravity and pressure collection sewers coupled with grinder pump stations, two (2) lift stations and transmission force main. 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 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:

- 2,440 LF of 8-inch Gravity Sewer
- 14,430 LF of 6-inch Force Main
- 300 LF of 6-inch Force Main (Railroad Crossings)
- 8,310 LF of 4-inch Force Main
- 5,030 LF of 2-inch Low Pressure Sewer
- 8 Manholes
- 2 Lift Stations
- 56 Grinder Pump Stations

3. Magley-CR 600 W (Selected Plan Figure 4A)

The project area is located in Preble Township, T 28N R 13E, Sections 27, 33 & 34 and in Kirkland Township, T 27N R 13E, Sections 2, 3 & 4, Preble Quadrangle. The proposed

Service Area is centered at the intersection of US 224 and CR 600 W to the west of the District's existing Preble Service Area. The proposed point of connection is an existing 8-inch gravity sewer to the west of CR 400 W and south of US 224 in Preble. The Service Area contains approximately 49 structures which all possess individual, on-site septic systems for sewage disposal. Many of the individual systems no longer meet current codes. The District intends to service the entire area with gravity and pressure collection sewers coupled with grinder pump stations, a lift station and transmission force main. Costs have been included for the connection of property owners along the transmission force main between Magley and Preble 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:

- 2,200 LF of 8-inch Gravity Sewer
- 8,900 LF of 4-inch Force Main
- 2,700 LF 2-inch Low Pressure Sewer
- 3,000 LF 2-inch Low Pressure Sewer
- 8 Manholes
- Lift Station
- 24 Grinder Pump Stations

4. Oakwood Addition (Yost Woods) Fringe-CR 300 N (Selected Plan Figure 5)

The project area is located in Washington Township, T 27N R 14E, Sections 14, 16, 21 & 22, Decatur Quadrangle. The proposed Service Area is located just south of the intersection of US 27 and US 33, directly south of Decatur along US 27. The proposed point of connection is an existing 8-inch gravity sewer north of the intersection of CR 450 N and US 27 (13th Street) in Decatur. The Service Area contains approximately 44 structures not including the Oakwood Addition which all possess individual, on-site septic systems for sewage disposal. Many of the individual systems no longer meet current codes. The District intends to service the entire area with gravity and 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:

- 1,000 LF of 8-inch Gravity Sewer
- 2,500 LF 3-inch Low Pressure Sewer
- 12,200 LF 2-inch Low Pressure Sewer
- 4 Manholes
- Flow Metering Structure
- 36 Grinder Pump Stations

5. NW Winchester Road-CR 200 W (Selected Plan Figure 6)

The project area is located in Root Township, T 28N R 14E, Sections 18, 19, 20 & 29, Hoagland & Decatur Quadrangles. The proposed Service Area is centered at the intersection of Winchester Road and CR 200 W to the north and west of the District's existing Barrington Woods Service Area. The proposed point of connection is an existing 3-inch pressure sewer along Winchester Road due south of the Grandstaff Ditch. The Service Area contains approximately 64 structures which all possess individual, on-site septic systems for sewage disposal. Many of the individual 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:

- 6,050 LF 4-inch Low Pressure Sewer
- 4,000 LF 3-inch Low Pressure Sewer
- 7,200 LF 2-inch Low Pressure Sewer
- 61 Grinder Pump Stations

6. Clem's Lake South-US 224 (Selected Plan Figure 7)

The project area is located in Root and Union Townships, T 28N R 14E & R 15E, Sections 31 & 36, Decatur & Wren Quadrangles. The proposed Service Area is centered at the intersection of CR 300 E and US 224 Drive directly east of Decatur and south of the District's existing Clem's Lake Service Area. The proposed point of connection is an existing 3-inch pressure sewer south of the intersection of E. Belmont Road and CR 200 E. The Service Area contains approximately 77 structures which all possess individual, on-site

septic systems for sewage disposal. Many of the individual 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:

- 7,650 LF 3-inch Low Pressure Sewer
- 8,300 LF 2-inch Low Pressure Sewer
- 70 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.

Sunnybrook Addition-CR 100 W-CR 200 W; The estimated project costs for the implementation of the proposed improvements is \$3,278,800.

Magley-CR 600 W; The estimated project costs for the implementation of the proposed improvements is \$1,868,100.

Oakwood Addition (Yost Woods) Fringe-CR 300 N; The estimated project costs for the implementation of the proposed improvements is \$1,677,500.

NW Winchester Road-CR 200 W; The estimated project costs for the implementation of the proposed improvements is \$2,440,000.

Clem's Lake South-US 224; The estimated project costs for the implementation of the proposed improvements is \$2,935,600.

The total planning level estimated 2021-2022 Sanitary Sewer Improvements Project Costs are \$12,200,000.

PROJECT SCHEDULE:

Milestone	Estimated Date
Submit ‘SRF – Preliminary Engineering Report (PER)’ to IFA	April 2021
Commence Sanitary Sewer Improvements Design	July 2021
SRF PER Approval	September 2021
Submit Plans & Specifications to IDEM	December 2021
Issuance of IDEM Construction Permits	February 2022
Advertise for Bids	January 2022
Begin Bond Initiation Process	February 2022
Receipt of Bids	February 2022
Completion of Financing & Issuance of Notice to Proceed	March-April 2022
Substantial Completion of Construction	March 2023
Initiation of Operation/Completion	April 2023
One Year Performance Certification Date	April 2024

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 where as 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 new 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.