



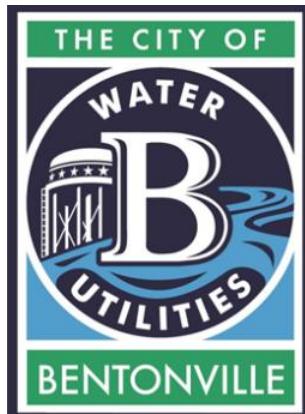
Innovative approaches
Practical results
Outstanding service

COMPREHENSIVE CAPITAL IMPROVEMENT PLAN

Prepared for:

Bentonville Water Utilities

January 2026



Prepared by:

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- Appendix A: Summary of CIP Costs by Year
- Appendix B: Annual CIP Snapshots
- Appendix C: Project Information Forms
- Appendix D: CIP Project Overlap Maps
- Appendix E: Water Line Condition Assessment Constituent Maps
- Appendix F: Gravity Main Condition Assessment Constituent Maps



1.0 INTRODUCTION

The City of Bentonville Water Utilities (BWU) retained Freese and Nichols, Inc. (FNI) to provide services associated with compiling, coordinating, and managing a comprehensive water utilities capital improvement plan (comprehensive CIP), that includes water distribution and storage systems, sanitary sewer collection systems, and Water Resource Recovery Facility (WRRF) improvements. BWU has recently completed studies on its water distribution system, sanitary sewer collection system, and WRRF. The goal of this effort is to compile and prioritize capital improvements identified in those studies, along with upcoming projects, into one comprehensive CIP.

1.1 SCOPE OF WORK

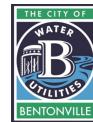
The scope of work consists of the following tasks:

CIP Data Collection, Reviews, and Recommendations: FNI collected and reviewed existing studies and improvement plans for BWU's water distribution system, sanitary sewer collection system, and WRRF. Based on the collected data, FNI created CIP templates, compiled and prioritized projects, adjusted cost estimates, and prepared a CIP workbook for multiple planning horizons.

FNI recommended annual CIP replacement programs to manage and sustain assets and address aging infrastructure. These programs were based on industry standards for asset lifespans, including tanks, pump stations, Lift Stations, and pipelines. FNI also conducted an asset renewal evaluation for water distribution lines and sanitary sewer mains based on available data and made recommendations for the advancement of Bentonville's recently implemented asset management program using risk-based assessment (RBA) criteria.

Finally, FNI prepared this final report and presented results to the Bentonville Utility Board and City Council.

Conduct Annual Comprehensive CIP Updates: FNI will provide annual updates to the comprehensive CIP to reflect BWU's current requirements, budgets, and any changes resulting from new studies, growth trends, or financing opportunities. FNI will adjust existing projects, add new ones as needed, and use the 5-year planning horizon to guide the upcoming year's CIP. To support these updates, FNI will facilitate two workshops each year to review progress, costs, schedules, and finalize project selections for the next budget year.



Tables showing the comprehensive CIP are included in **Appendix A**. Copies of the annual CIPs are included in **Appendix B**.

1.2 LIST OF ABBREVIATIONS

The frequently used abbreviations in this report are presented in **Table 1-1**.

Table 1-1: List of Abbreviations

Abbreviation	Definition
AACE	American Association of Cost Engineers
AWWA	American Water Works Association
BWU	Bentonville Water Utilities
CCI	Construction Cost Index
CCTV	Closed-Circuit Television
CIP	Capital Improvement Plan
CPI	Consumer Price Index
DR	Dimension Ratio
ENR	Engineering News-Record
EST	Elevated Storage Tank
FNI	Freese and Nichols, Inc.
GIS	Geographic Information System
gpm	Gallons per Minute
GST	Ground Storage Tank
hp	Horsepower
LF	Linear Foot/Feet
LS	Lift Station
MG	Million Gallons
MGD	Million Gallons per Day
OPCC	Opinion of Probably Construction Costs
PACP	Pipeline Assessment Certification Program
PIF	Project Information Form
PVC	Polyvinyl Chloride
RBA	Risk-Based Assessment
ROW	Right-of-Way
SSES	Sanitary Sewer Evaluation Study
SWPPP	Stormwater Pollution Prevention Plan
WRRF	Water Resource Recovery Facility



2.0 PROJECT INFORMATION FORM (PIF) DEVELOPMENT

In coordination with BWU, FNI developed PIFs for each CIP project included in the comprehensive CIP. Copies of the PIFs for each project are included in **Appendix C**. The purpose of the PIFs is to compile key data for each project into a brief, standardized document. Because data was sourced from several reports conducted by various consultants, FNI reviewed data for each project and extracted key elements to include in the PIFs. Because of the diverse data sources utilized, not all PIF data elements were available for each project. To establish consistency between PIFs and populate all key data fields, assumptions and adjustments were made in some instances. Data sources and assumptions used to populate the PIFs are presented in the following sections.

2.1 PRIMARY DATA SOURCES

The information used to develop the PIFs came from several different data sources provided to FNI by BWU. These included previously completed studies such as master plans, sanitary sewer evaluation studies (SSES), capital improvement plans, and engineering reports. A list of previous studies and reports used in PIF development is provided below:

- *Bentonville Water Utilities Water Master Plan Update* (April 2024)
- *Sewer Collection Analysis and Peak Flow Management Program – Part II* (March 2025)
- *Bentonville Spring Creek Interceptor Preliminary Engineering Report* (May 2024)
- *Bentonville Town Branch Sewer Improvements: RDII Analysis and CIP Evaluation* (September 2025)

In addition to the studies listed above, BWU provided specific project data such as project descriptions, maps, estimated project schedules, and cost estimates for additional projects planned by BWU staff. This information was also used in PIF development. Throughout the PIF development process, as more up-to-date information became available to BWU and was provided to FNI, this updated information was incorporated into the PIFs. This typically applied to project schedules and cost estimate data as more detailed estimates were available. Some PIF updates were also made based on feedback and additional information provided by BWU during workshop meetings and periodic review of the draft PIFs.



2.2 PIF COMPONENTS

The following data was included in each PIF:

- Project Name/Description/Objective
- Project Type
- Finance Options, Project Delivery Method, and Drivers
- Schedule
- Opinion of Probable Construction Cost
- Current and Escalated Project Costs for Each Project Phase

Each PIF element is broken down in **Sections 2.2.1 – 2.2.5**.

2.2.1 Project Name/Description

Project names and descriptions were compiled from the various data sources described in **Section 2.1**. In some cases, the project descriptions provided in previous studies were abbreviated to better align with the goal of the PIFs to be a brief snapshot of each project. For projects where existing descriptions were not available, FNI developed descriptions based on the data provided by BWU, including project maps and cost estimates.

2.2.2 Project Type

Each project was categorized into one of three broad CIP categories:

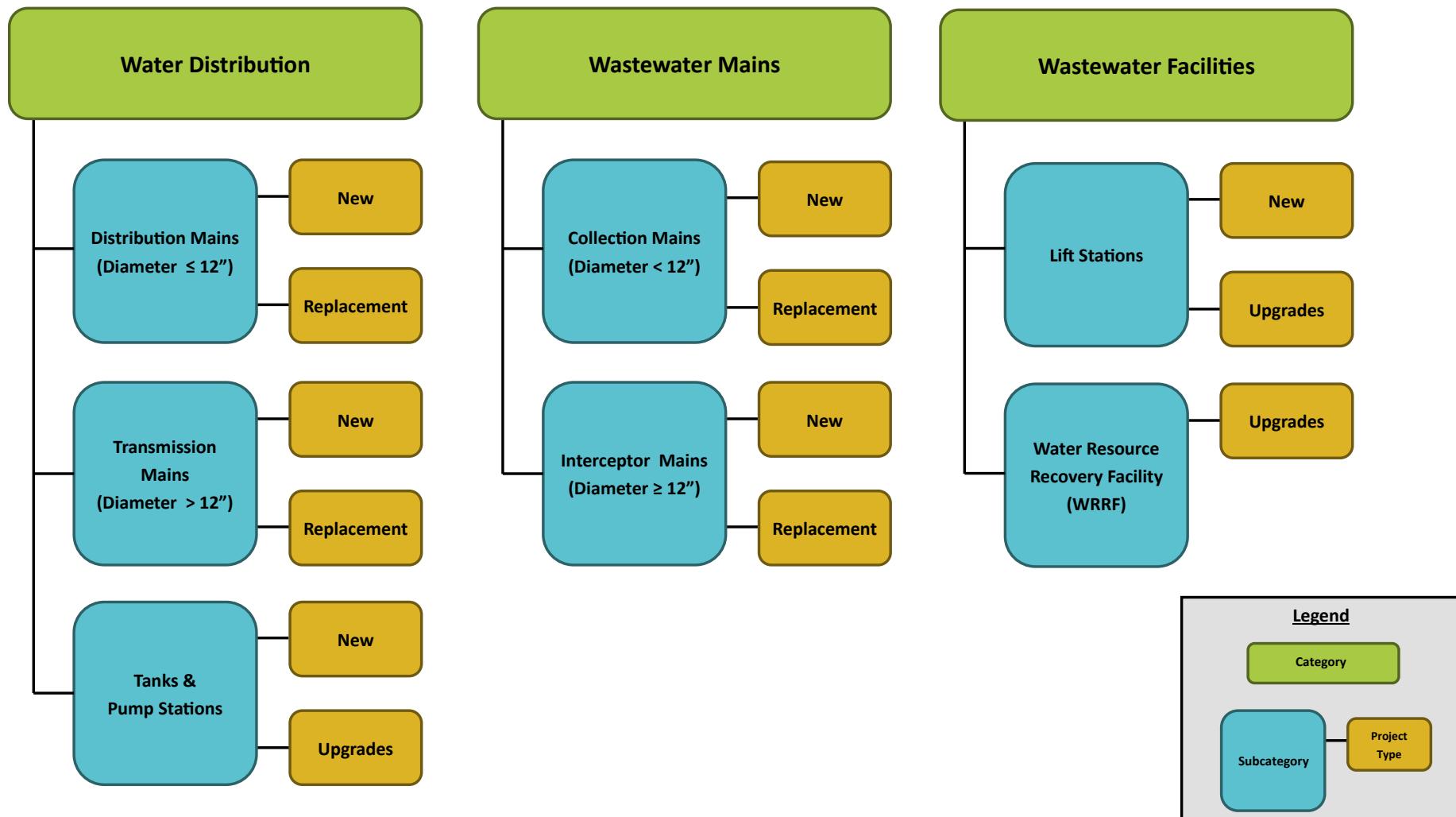
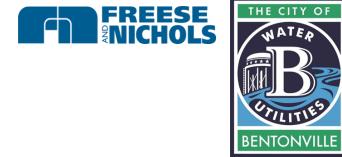
- **Water Distribution** – Includes all water transmission and distribution infrastructure, including tanks, pump stations, and water lines of all sizes.
- **Wastewater Mains** – Includes all collection and interceptor gravity and force mains.
- **Wastewater Facilities** – Includes Lift Stations and the WRRF.

Each project was further categorized into subcategories, as illustrated in **Figure 2-1**.

Project ID numbers were assigned based on project type and anticipated start date. Project IDs for Water Distribution begin with “WD”, Wastewater Mains begin with “WWM”, and Wastewater Facilities with “WW”. For example, the Water Distribution project with the earliest start date, *48" Supply Transmission Main Extension*, was assigned a project ID of WD01.

Figure 2-1

City of Bentonville
CIP Project Categorization Hierarchy





2.2.3 Finance Options, Project Delivery Method, and Drivers

Finance options for individual projects were not included in source studies used to compile project information. Finance options were populated in the PIFs for projects in progress or expected to be undertaken in the near future, where financial details are more clearly defined later in the report. This field was populated via input from BWU staff.

Project drivers and planned delivery methods were also populated for projects where information is available. Near-term projects were more likely to have information on likely delivery methods, and this field was populated based on input from BWU staff. Project drivers were derived from existing engineering consultant reports and studies, supplemented by BWU staff information.

2.2.4 Schedule

The estimated schedule for each project includes three main phases: Professional Services, Easement/Right-of-Way (ROW) Acquisition, and Construction.

- **Professional Services:** Includes all pre-construction services including planning, design, permitting, surveying, and coordination activities; construction phase services including construction administration, testing (when applicable), and observation performed by the contracted consultant(s).
- **Easement/ROW Acquisition:** Includes property owner outreach, surveying and appraisal, negotiation, and final acquisition of required easements or right of way.
- **Construction:** Covers all field activities related to the removal of existing infrastructure and installation of new improvements by contractor(s).

Anticipated start dates and durations for each schedule phase were determined on a project-by-project basis depending on the level of detail provided by BWU. For some projects, the Professional Services phase is already underway or completed, so the project schedule is therefore known. For other projects, the previous studies or project information provided by BWU included anticipated start dates and durations for each schedule phase. For projects where no detailed schedule information was available, FNI relied on estimated project start dates provided by BWU along with the following assumptions to develop the PIF schedules:

- FNI used historical schedule data from similar project types to estimate durations for the professional services and construction phases.



- Easement/ROW Acquisition begins at the 30% mark of the professional services phase and takes an average of 6 months to complete.
- Construction phase begins two months after Pre-Construction Professional Services and Easement/ROW Acquisition phases are complete.

The assumptions listed above were used only in the absence of more recent detailed schedule information provided by BWU. Once more detailed schedule information is known, the PIF schedules should be updated to reflect the most up-to-date information.

2.2.5 Opinion of Probable Construction Costs

Each PIF includes an opinion of probable construction costs (OPCC) which provides individual line items for project materials and services, construction contingency, professional services cost, and easement acquisition costs. Data sources for the OPCCs varied depending on different factors such as project type, anticipated start date, and availability of detailed cost estimates. For any projects where the design phase has already begun, the most current OPCC data available to BWU was used. For the remaining projects that have not begun design, cost estimates from previous studies and individual project information were used to populate the OPCCs for each PIF. In some cases, the project information provided only included a total project cost estimate. For these projects, FNI developed more detailed OPCCs with individual line items and contingencies using the assumptions described in **Section 3.1**. FNI also updated OPCC data for projects that had previously estimated itemized costs using the same assumptions to ensure consistency across all CIP projects. **Section 3.0** below provides additional details on the cost estimation process.

2.3 INTER-DEPARTMENTAL REVIEW

FNI developed GIS based maps depicting the 40-capacity driven water and wastewater projects' potential overlaps with Transportation, Drainage, and Parks (Trailways) Department projects. The maps were developed using available maps from Bentonville websites. **Figure 2-2** shows all of Bentonville's identified Water, Wastewater, Transportation, Drainage, and Park Trailways projects. Each PIF includes notes and maps showing possible overlaps with the applicable city departments to present interdepartmental coordination opportunities. **Appendix D** includes maps showing overlaps with each respective department.

Legend

- Water Project
- Sewer Project
- Road Project
- Trail Project
- Stormwater Project
- Service Boundary
- Bentonville City Limit

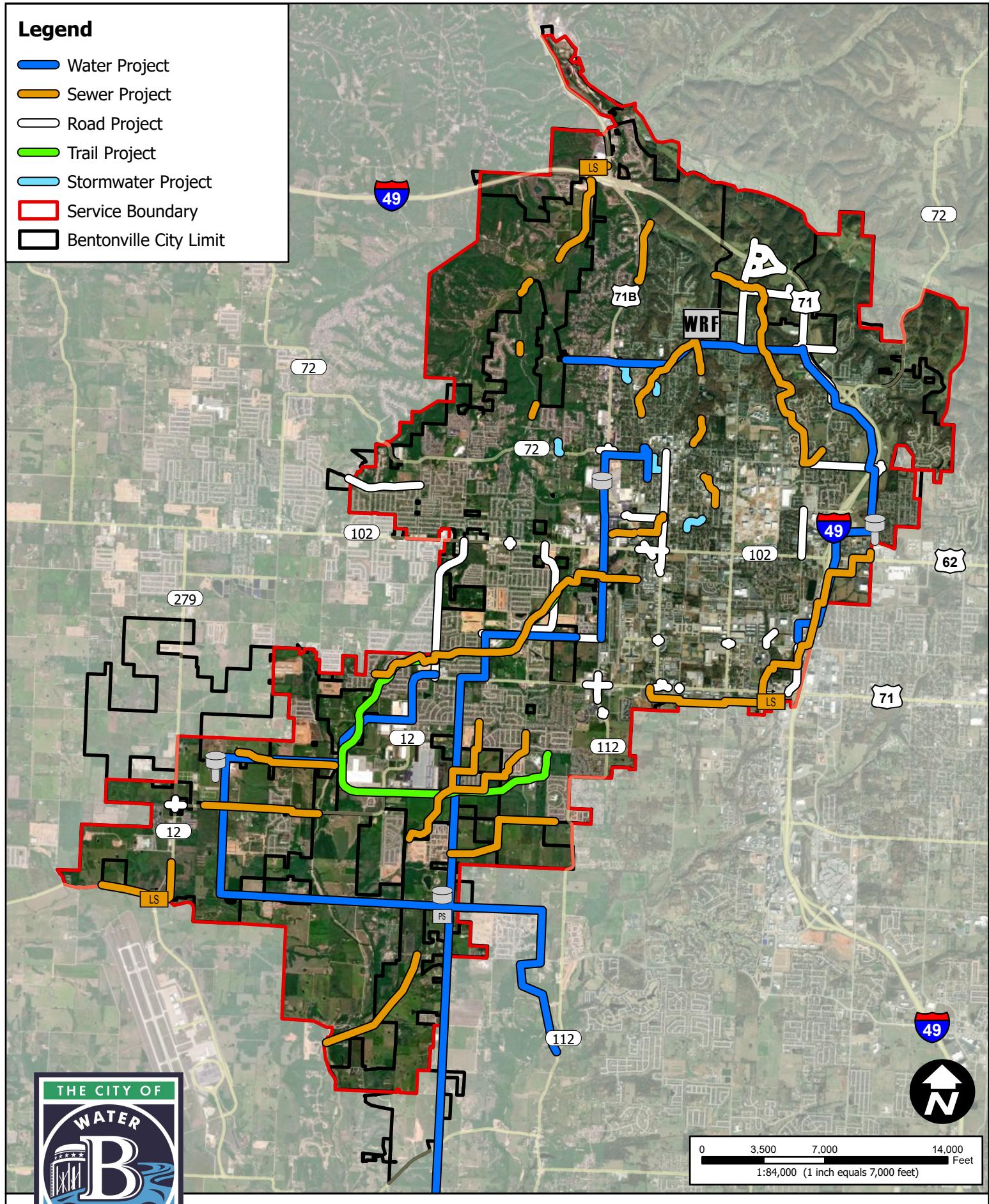


FIGURE 2-2
All Project Locations
Bentonville Water Utilities Capital Improvement Plan 2025





3.0 COST ESTIMATING

Challenges associated with having cost estimates prepared by several firms include defining what is accounted for within each line item, establishing a base year for project costs so that inflation is consistent, and verifying that cost estimates for each project are consistent with each other in terms of their scope and contents. As part of this project, FNI was tasked with normalizing cost estimates from multiple water and wastewater system studies to establish a consistent basis of comparison and enable direct, cross-project cost evaluation.

3.1 COST ESTIMATION ASSUMPTIONS

The costs presented in the PIFs were based on project studies, CIP projects currently under design, and bid tab data from local and regional projects. Assumptions were made based on industry standards and discussions with BWU to standardize costs where needed. Assumptions used in PIF cost estimates are outlined in the following sections.

3.1.1 Mobilization

Mobilization is set at 5% of the total construction costs. This allowance excludes traffic control, stormwater pollution prevention plan (SWPPP), clearing and grubbing, and utility relocations. It covers contractor start-up and close-out activities such as project administration, transporting equipment and materials to and from the site, establishing staging areas and temporary facilities, preparing equipment and crews, securing insurance, bonding, and permits, and final demobilization and site cleanup. The percentage reflects industry standards for projects of similar size and type.

3.1.2 Traffic Control

The traffic control price is set at a price per month based on the specified construction duration listed in each PIF. This allowance includes the installation and maintenance of barricades, cones, barrels, and signage; provision of flaggers and other personnel as required; setup and adjustment of detour routes; maintenance of temporary striping and pavement markings; and removal of traffic control devices at the conclusion of the project. The monthly rate reflects typical industry practice for projects of similar size and type.



3.1.3 Stormwater Pollution Prevention Plan (SWPPP)

SWPPP cost is set at 1% of the total construction cost. This excludes costs associated with traffic control, mobilization, clearing and grubbing, and utility relocation. The allowance covers preparation and implementation of the SWPPP, including installation and maintenance of erosion and sediment controls such as silt fence, inlet protection, and stabilized construction entrances, as well as routine inspection, documentation, and removal of temporary measures at project completion. The percentage assigned reflects industry norms and accounts for the preliminary nature of these projects, including undefined limits of disturbance and stormwater compliance requirements.

3.1.4 Clearing and Grubbing

The quantity of clearing and grubbing is determined by taking the total length of new pipeline to be installed, multiplying this by a 30-foot width, converting to acres, and then using each specific project map to determine what percentage of the total length requires clearing and grubbing. This percentage varies based on the project description and proposed route. A unit land cost of \$10,000 per acre was used. The allowance includes removal of trees, brush, stumps, and other vegetation within the designated corridor, stripping of topsoil as necessary, disposal of organic debris, and basic site preparation to provide a clear and stable work area for construction.

3.1.5 Utility Relocation

The utility relocation cost is set at 2% of total construction costs. This excludes costs associated with mobilization, traffic control, SWPPP, and clearing and grubbing. The allowance covers coordination with utility owners, identification and protection of existing lines, temporary support or adjustment of utilities during construction, relocation of water, gas, electric, or telecommunications lines as required, and restoration of affected utility services. It also includes trenching, backfilling, and pavement repair directly associated with utility adjustments. The percentage assigned reflects industry standards for projects of similar size and type.

3.1.6 Boring

Cost per linear foot (LF) of boring includes all launch and receive pits, casing, carrier pipe, materials, labor, and equipment necessary for a typical auger-style boring. This allowance also covers excavation and backfilling of pits, shoring or stabilization as required, installation of casing spacers and end seals,



dewatering if necessary, removal and disposal of excess spoil, and restoration of disturbed areas at the pit locations. The cost is intended to represent a complete, in-place boring installation suitable for crossing under roadways, railroads, or other surface features.

3.1.7 Rock Excavation

Rock excavation is assumed at 0.04 cubic yards per LF of newly installed pipeline. This value is based on the ratio between cubic yards of rock excavation and newly installed pipeline observed on the Spring Creek Vaughn Gravity Sewer Line project. The allowance covers mechanical breaking of rock using hoe-ram or similar equipment, removal and hauling of excavated material, and disposal of spoil. It also accounts for the additional labor, equipment wear, and slower production rates typically associated with mechanical rock excavation.

3.1.8 Pavement Restoration

The area of pavement restoration is calculated based on the total LF of new line to be installed multiplied by the pipe width in feet, plus an additional four feet to account for working space in the trench. This square foot value is converted to square yards and then multiplied by a percentage based on each specific project and the portion of the pipeline anticipated to be under paving. This percentage varies depending on the project description and proposed route. The allowance includes placement and compaction of base material and the installation of new pavement to match the existing thickness and type.

3.1.9 Easement Acquisition Cost

Easement acquisition costs are assumed to cover the purchase of easement rights from property owners, along with related activities such as appraisal, survey, and legal descriptions, title research, negotiation, preparation of easement documents, and recording fees. For projects with detailed and up-to-date bid tab data or design OPCCs, the easement acquisition costs provided were used. For projects where detailed and up-to-date cost estimate data, including easement acquisition costs, were not available, the following assumptions were used to estimate acquisition costs:

- For Water Transmission Main projects, easement acquisition cost is set at 10% of the construction subtotal, including contingency, consistent with the assumptions used in the 2024 *Bentonville Water Utilities Water Master Plan Update*. The percentage assigned reflects industry standards for projects of similar size and type.



- For Wastewater Interceptor Mains projects, BWU provided land area and parcel information for projects where it was available. Costs were estimated by applying the unit costs listed below which were also provided by BWU.
 - \$13,500 per parcel for appraisal and acquisition
 - \$25,000 per acre for permanent 20' wide easement in rural areas
 - \$2,500 per acre for temporary 10' wide easement
 - \$5 per square foot for permanent 20' wide easement in urban areas
- For non-linear projects, like storage tanks, pump stations, and Lift Stations, the same unit cost assumptions were used for projects where BWU does not currently own the required property. For those projects where BWU owns the required property, no additional easement costs would be required.

3.1.10 Professional Services Cost

Professional services were calculated as a percentage of the construction subtotal, including contingency. Percentages vary by project type to reflect differences in design complexity, permitting requirements, multi-disciplinary engineering needs, and construction-phase support. The following planning-level percentages were applied, consistent with industry practice for municipal infrastructure projects:

- 13% for linear infrastructure (waterlines, gravity sewers, force mains), reflecting survey, alignment design, utility coordination, and typical restoration/appurtenances.
- 18% for Lift Stations, reflecting civil, structural, mechanical, electrical, and controls engineering, as well as startup and testing oversight.
- 18% for storage tanks (ground and elevated), reflecting structural, geotechnical, coatings, and site civil design, along with intensive inspection requirements.

Using a tiered approach ensures the CIP more accurately reflects the engineering effort required for each type of project. These percentages were further defined based on:

- Pre-construction services including planning, design, permitting assistance, surveying, geotechnical investigations, preparation of bid documents, and coordination activities; and
- Construction phase services including construction administration, testing (when applicable), and observation



3.1.11 Cost Escalation Factor

To account for continuously rising construction costs, a cost escalation factor to predict future construction costs was applied. Using escalated costs ensures the cost estimation reflects the anticipated cost of infrastructure at the time of award of professional services, easement acquisition, and construction, rather than current-year dollars.

FNI utilized a conservative escalation rate of 5% per year for high-level planning and budgeting purposes. This is consistent with BWU's recent *Wastewater Development Fee Report*. The 5% escalation factor provides a conservative approach to long-term cost estimating and accounts for future uncertainty in project costs.

3.2 COST CLASSIFICATIONS

Except where design-level cost data was available, cost estimates for each improvement are based on planning level data and classify as a Class 5 cost estimate defined by the American Association of Cost Engineers (AACE), summarized in **Table 3-1**. Cost classifications are identified in each PIF in the "AACE Class" field.



Table 3-1: American Association of Cost Engineers Cost Classification

Estimate Class	Level of Project Definition (as a % of completion) * of design deliverables	End Use	Expected Accuracy Range * not % contingency	Preparation Effort (Degree of effort relative index of 1)
Class 5	0% to 2%	Screening of feasibility * Master Plan, Feasibility Study	L: -20% to -30%	1
			H: +30% to +50%	
Class 4	1% to 15%	Concept study or feasibility *Preliminary Engineering Report	L: -10% to -20%	2 to 4
			H: +20% to +30%	
Class 3	10% to 40%	Budget authorization or control *30% Design Deliverables	L: -5% to -15%	3 to 10
			H: +10% to +20%	
Class 2	30% to 75%	Control or bid/tender * 60% Design Deliverables	L: -5% to -10%	5 to 20
			H: +5% to +15%	
Class 1	65% to 100%	Check estimate or bid/tender * 90 – 100% Design Deliverables	L: -3% to -5%	10 to 100
			H: +3% to +10%	

3.3 INFRASTRUCTURE REPLACEMENT COST ANALYSIS

3.3.1 Gravity Sewer Main Replacement Cost Methodology

To determine the replacement cost of BWU's existing gravity sewer system, FNI relied on bid tabulation data rather than planning-level engineer's estimates. Using bid results provides the most accurate, market-based cost representation because it reflects contractor pricing, regional conditions, material availability, and competitive bidding influences. In contrast, the cost estimates included in the PIF workbook are generally AACE Class 5 planning estimates with high contingency and a wide expected accuracy range, making them less appropriate for valuation of existing assets.

For this analysis, FNI used bid data from the Spring Creek Vaughn Gravity Sewer Project, bid in November 2025. This project is directly comparable because it involved replacement of similar gravity sewer infrastructure using current construction practices and market conditions.



Three bids were received; however, the bid submitted by Contractor A was excluded because that contractor was already mobilized on-site for a separate project, artificially lowering their pricing. The two remaining competitive bids were:

- **Contractor B:** \$2,581,630
- **Contractor C:** \$3,330,878

The average of these two bids is \$2,956,254, representing the most reasonable projected construction cost for the work.

The project consisted of 2,479 LF of new 18-inch gravity sewer pipeline, and 2,660 LF of 24-inch main, resulting in a total project cost of:

$$\frac{\$2,956,254}{5,139 \text{ LF}} = \$575.26 \text{ per LF}$$

Since approximately 48% of the project was 18-inch main, and 52% was 24-inch main, FNI used an average size of 21-inch main to normalize this cost across pipe sizes, the value was converted to a cost per diameter-inch per LF:

$$\frac{\$575.26}{21"} = \$27.39 \text{ per diameter-inch per LF}$$

Because future replacement projects will require engineering, environmental coordination, survey, and bid-phase services, a 13% allowance is applied for professional services. This results in an adjusted replacement cost of:

$$\$27.39 \times 1.13 = \$30.95 \text{ per diameter-inch per LF}$$

Based on this analysis, FNI used **\$30 per diameter-inch per LF** as the planning-level unit replacement cost for the City's existing gravity sewer system.

3.3.2 Force Main Replacement Cost Methodology

Unlike the gravity sewer system, BWU does not have recent bid tabulation data specific to force main replacement projects. Because no directly comparable bid results are available, we cannot apply the same



market-based approach used for gravity mains. To maintain consistency and transparency, we anchored the force main valuation to the established gravity main unit cost and then applied a documented cost increase to account for the additional requirements of pressure-class construction.

Even though gravity mains are typically installed deeper, force mains consistently cost more per diameter inch due to the following factors:

1. Pressure-Class Pipe Requirements

Polyvinyl Chloride (PVC) Dimension Ratio (DR) 18 and DR 14 have significantly thicker walls and higher pressure ratings than standard DR 26 gravity sewer pipe. This results in substantially higher material cost per LF.

2. Specialized Pressure Appurtenances

Force mains require air release valves, isolation valves, restrained joints, thrust blocks, and pressure-rated fittings. These components are not required, or are minimally required, in gravity sewer systems, and they increase the average cost per LF of force main construction.

3. Testing and Commissioning Requirements

Force mains must undergo hydrostatic pressure testing, leakage testing, and disinfection procedures that exceed the requirements for gravity mains.

4. Construction Complexity and Risk

Even at shallower depths, force main installation involves tighter alignment tolerances, more robust restraint systems, and more complex tie-ins. Contractors typically price this added risk into their bids.

Starting with the previously established replacement cost for gravity sewer, which is \$30 per diameter inch per LF, FNI applied a modest increase to account for the added materials, appurtenances, testing, and construction complexity required for pressure mains. This results in a recommended planning-level replacement cost of **\$40 per diameter inch per LF** for PVC force mains.

3.3.3 Water Main Replacement Cost Methodology

Utilizing bid tabulation data and the recent engineer's estimate for the I Street 48-inch Supply Transmission Main Extension project, FNI was able to determine planning-level replacement costs for waterlines. The I Street 100% design plans reflect fully developed quantities, selected materials, and defined construction methods.

Additionally, using a 100% engineer's estimate minimizes the risk associated with unknowns that would typically be present in earlier-phase estimates, where higher contingencies and broader markups are



often included. Because this estimate is tied directly to a completed design, it provides a reasonable and well-supported basis for valuing BWU's existing water line assets.

The engineer's estimate identified a construction subtotal of \$13,852,000. After including a 2.5% construction contingency and professional services, the anticipated total project cost is \$15,384,000. The project includes 9,300 LF of new water line, which yields an all-in unit cost of:

$$\frac{\$16,044,000}{9,300 \text{ LF}} = \$1,725.16 \text{ per LF}$$

The project primarily consists of 48-inch water line. Converting this cost to a diameter-inch basis results in:

$$\frac{\$1,725.16}{48"} = \$35.94 \text{ per diameter inch per LF}$$

Similarly, when viewing the bid tabulation data from a different project (Highway 112 Water Line), the average cost per diameter-inch/linear foot for the entire project resulted in \$34.45 per diameter inch per LF. Based on this analysis, FNI recommends that BWU use a planning-level unit replacement cost of **\$35 per diameter inch per LF** for water system improvements.



4.0 ASSET RENEWAL EVALUATION

As part of the comprehensive CIP, FNI was tasked with evaluating and recommending CIP annual renewal programs to manage and sustain BWU's assets to address aging infrastructure. The term "asset renewal" includes rehabilitating, replacing, and/or upgrading existing infrastructure. The aim of the asset renewal evaluation is to develop a more comprehensive CIP that includes both growth-related improvements and renewal improvements. FNI understands that BWU implemented a work order management program through CityWorks, effective January 1, 2026. The asset renewal programs will become better defined as data is added to BWU's work order management program.

Effective asset renewal planning requires an understanding of the current and expected future condition of system assets as they age and deteriorate over time. Categorizing the installed assets according to their probability of failure (a function of the asset condition) and the potential consequence of failure (a function of the size, type of asset, and location in the system) forms the basis of an RBA prioritization of asset renewal needs. Thus, asset condition assessment, consequence of failure assessment, and renewal risk rating all serve a critical purpose in rehabilitation and inspection program prioritization efforts and overall asset management planning.

FNI's asset renewal evaluation was based on a high-level overview of BWU's water and wastewater infrastructure, including pipelines and facilities, using asset summary information provided by BWU staff. Pipelines include water distribution mains, water transmission mains, and wastewater collection and interceptor mains. Facilities include water storage tanks, pump stations, wastewater Lift Stations, and the WRRF. The evaluation is intended to provide the estimated overall average annual costs to renew assets over the long-term lifespans of the different asset categories. FNI's evaluation did not include a review of any specific assets, and the average annual renewal costs are not intended to be used as annual budgets but, rather, as a big picture indication of what average level of investment would likely be needed over time to stay on top of asset renewal needs.

Renewal risk is quantified as the product of the probability of structural asset failure and the consequence of the expected impact of that asset failure. The highest risks to the BWU distribution and collection systems are associated with assets where the chances of structural asset failure occurring are relatively high (e.g., an old asset with a history of structural failures) and where such a failure would be expected to have major impacts (e.g., widespread interruptions of service to customers and businesses, or large discharges of wastewater to sensitive water bodies).



Conducting a full RBA was outside the scope of this study. Instead, FNI leveraged available data to assess asset conditions and provide initial insights into where the poorest-performing infrastructure most urgently needing replacement is likely located. Recommendations for future incorporation of more comprehensive criticality and risk metrics into an asset renewal prioritization methodology are discussed in **Section 6.3**.

4.1 WATER LINE CONDITION ASSESSMENT

4.1.1 Water Line Condition Parameters

In a renewal RBA, asset condition represents likelihood of failure. Condition parameters and scoring are typically based on a combination of physical data (e.g., material, age, soil corrosivity, and other visual inspection data) and maintenance history, which are used to develop an estimate of the assumed condition of each line.

BWU provided detailed data on the total length of water distribution mains and water transmission mains in its system by pipe material and diameter. Water mains with diameters of 12" or less are considered distribution mains, while those with diameters greater than 12" are considered transmission mains. This data is provided in **Table 4-1** and displayed in **Figure 4-1** for existing water distribution mains, and in **Table 4-2** and **Figure 4-2** for water transmission mains. For water distribution mains, most of the existing system is made up of PVC, with the majority being 8" in diameter. The existing water transmission main system includes several material types. The smaller transmission mains from 16" to 24" are made up of a combination PVC, ductile iron, and cast iron, while the 48" mains are made of pre-stressed concrete.

Table 4-1: Existing Water Distribution Mains by Diameter and Material Type

Pipe Diameter (in)	Pipe Length by Material Type (LF)						
	PVC	Asbestos Cement	Ductile Iron	Cast Iron	Galvanized	Unknown	Total
<4	26,919	3,068	27	14,527	6,541	11,639	62,721
6	175,860	128,327	6,887	13,770	0	23,480	348,323
8	1,003,383	31,592	25,547	8,151	0	35,963	1,104,636
10	47	0	26	2	0	2	76
12	242,537	11,862	56,104	21,498	0	10,346	342,347
Total Length (LF)	1,448,745	174,849	88,592	57,947	6,541	81,430	1,858,104
% of Total	78.0%	9.4%	4.8%	3.1%	0.3%	4.4%	100.0%

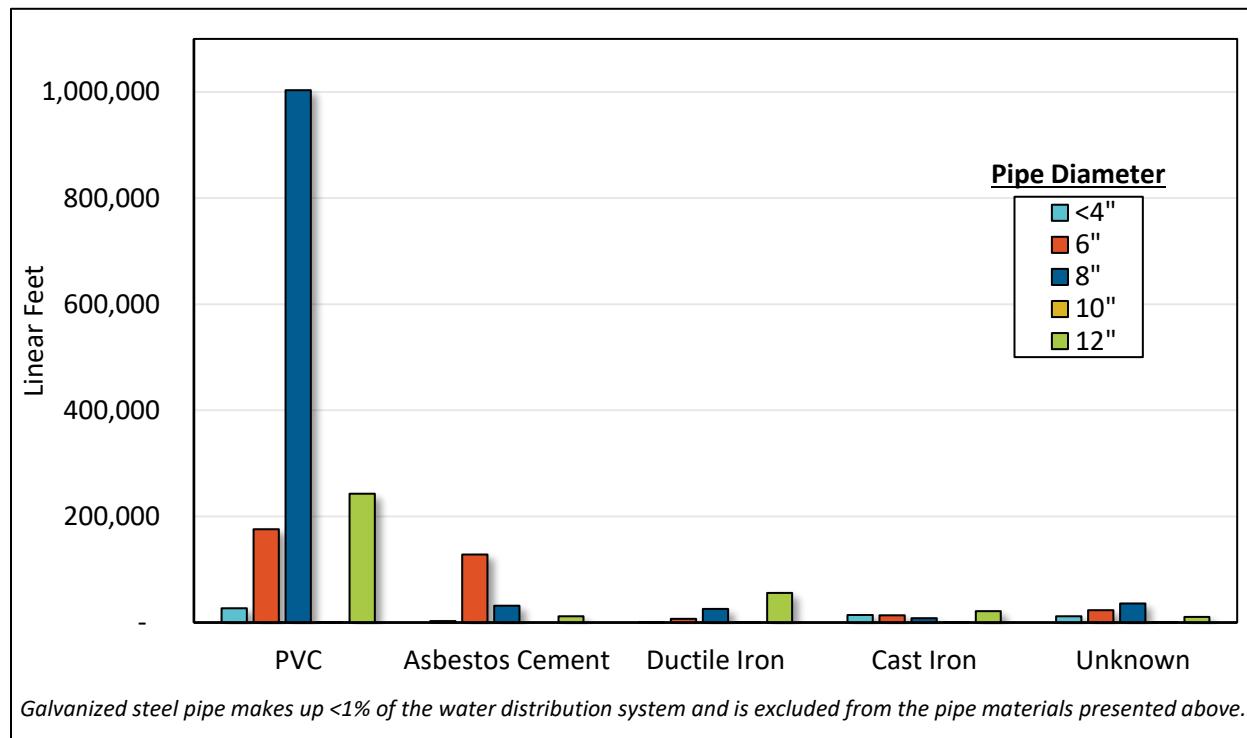
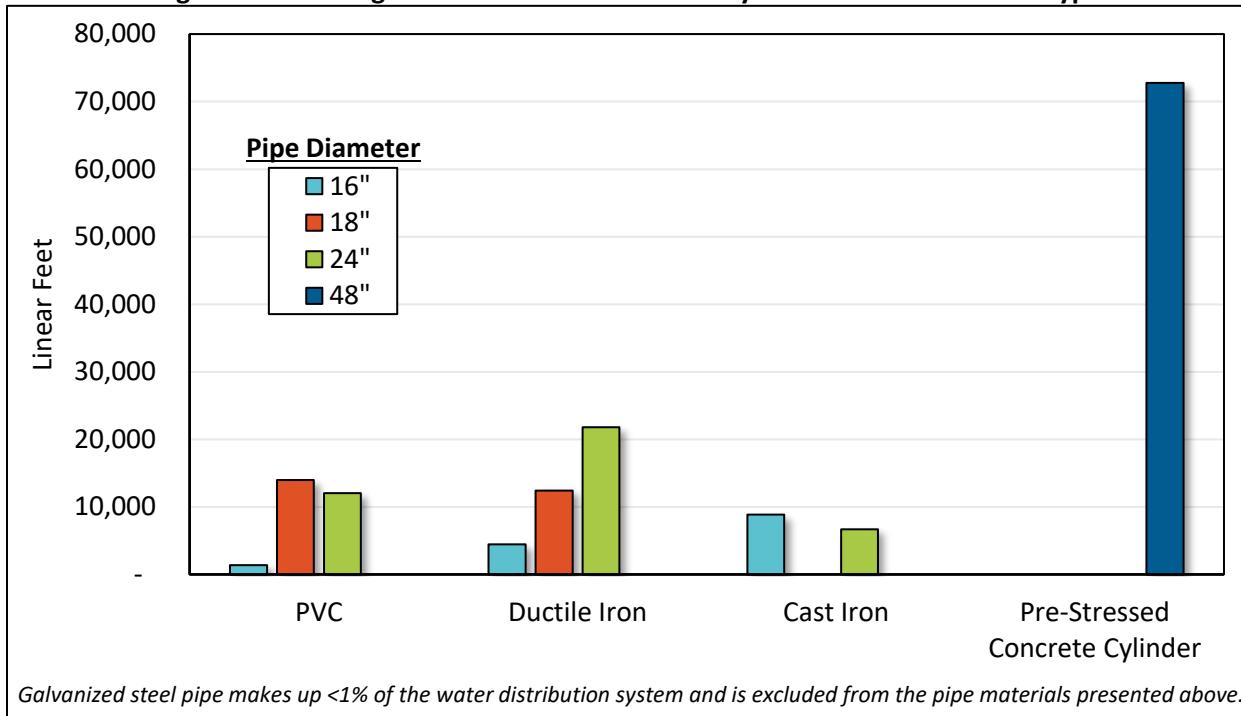
Figure 4-1: Existing Water Distribution Mains by Diameter and Material Type

Table 4-2: Existing Water Transmission Mains by Diameter and Material Type

Pipe Diameter (in)	Pipe Length by Material Type (LF)					
	PVC	Ductile Iron	Cast Iron	Pre-Stressed Concrete	Unknown	Total
16	1,367	4,461	8,877	0	19	14,724
18	13,966	12,405	0	0	0	26,371
24	12,040	21,816	6,669	0	234	40,759
48	0	0	0	72,785	0	72,785
Total Length (LF)	27,373	38,683	15,546	72,785	252	154,639
% of Total	17.7%	25.0%	10.0%	47.1%	0.2%	100.0%

Figure 4-2: Existing Water Transmission Mains by Diameter and Material Type



After reviewing available data, FNI considered the material of water lines in the BWU distribution system when developing the condition score. FNI utilized the *Buried No Longer: Confronting America's Water Infrastructure Challenge* report published by the American Water Works Association (AWWA) to correlate pipe material to a range of years the material was generally installed. Soil corrosivity for concrete and metallic pipes was also considered. Parameter weighting was established based on similar risk-based assessments performed by FNI. Intrinsic pipe characteristics (age and material) were weighted more



heavily than estimated environmental conditions (soil corrosivity) in evaluating the condition score of the pipe. The weighting and scoring for each of the parameters utilized in the water line condition assessment are summarized in **Table 4-3**.

Table 4-3: Water Line Condition Assessment Parameters

Weighting	Parameter	Criteria	Points
50%	Material	Asbestos Cement	10
		Cast Iron or Galvanized Steel	8
		Pre-Stressed Concrete or Unknown	6
		Ductile Iron	3
		PVC	1
40%	Estimated Age	Older than 50 Years	10
		Between 25 and 49 Years or Unknown	6
		Less than 25 Years	2
10%	Soil Corrosivity*	Metallic or Concrete Pipe in Highly Corrosive Soil	10
		Metallic or Concrete Pipe in Moderately Corrosive Soil	6
		Metallic or Concrete Pipe in Minimally Corrosive Soil	4
		Corrosion-Resistant Pipe and/or Non-Corrosive Soil	1

*Based on NRCS Corrosion Risk

4.1.2 Water Line Condition Assessment Results

Water line condition scores were calculated for each segment by totaling the weighted individual scores for each parameter. The water line condition scores were then grouped into ranges, and qualitative scores of Poor to Good condition were assigned. The definitions for each scoring range are presented in **Table 4-4**. Results of the water line condition assessment are summarized in **Table 4-5**. Results of the water line condition assessment are shown on **Figure 4-3**. Mapping of condition component parameter scoring is included in **Appendix E**.

**Table 4-4: Water Line Condition Scoring Ranges and Categories**

Condition Category	Definition
Poor	Poor condition, improvements recommended or required to maintain reliability
Fair	Fair condition, improvements recommended to improve performance or efficiency
Good	Good condition, minor to no improvements recommended to enhance performance

Table 4-5: Water Line Condition Assessment Results

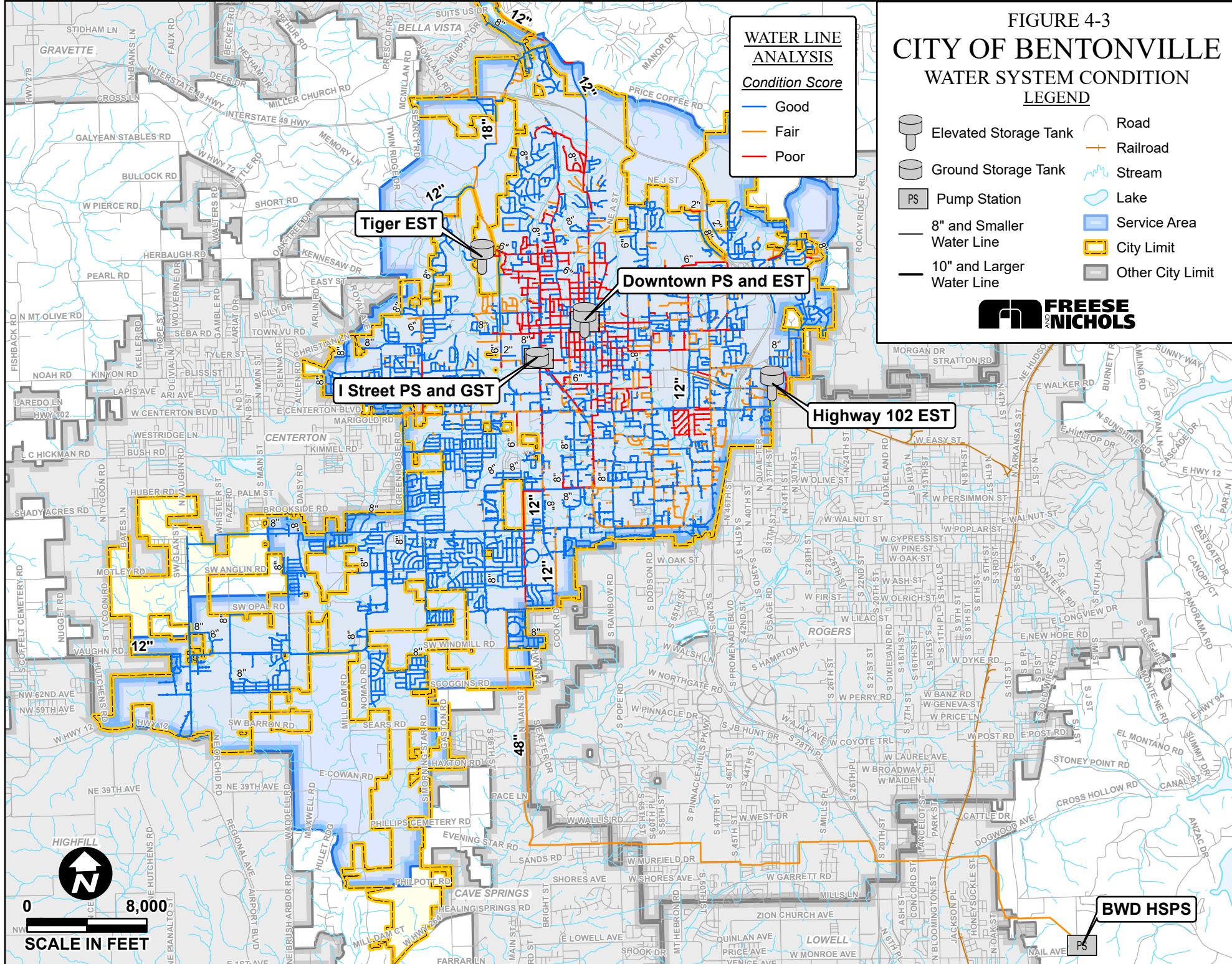
Condition Category	Total Length (miles)	Total Length (%)
Poor	48.5	12.4%
Fair	57.1	14.6%
Good	285.6	73.0%
Total	391.2	100.0%

FIGURE 4-3

CITY OF BENTONVILLE

WATER SYSTEM CONDITION LEGEND

LEGEND





4.2 WASTEWATER MAIN CONDITION ASSESSMENT

4.2.1 Wastewater Main Condition Parameters

Similar to the water line condition parameters, condition parameters and scoring for wastewater mains are typically based on a combination of physical data such as material, age, visual inspection data, and operational data (maintenance history, and history of sanitary sewer overflows) which are used to develop an estimate of the assumed condition of each line.

BWU provided detailed data on the total length of wastewater mains in their system by pipe material and diameter. Data was provided for both gravity mains and force mains. Wastewater mains with diameters of 10" or less are considered collections mains, while those with diameters greater than 10" are considered interceptor mains. Wastewater pipeline material data is provided in **Table 4-6** and displayed in **Figure 4-4** for gravity collection mains, in **Table 4-7** and **Figure 4-5** for gravity interceptor mains, and in **Table 4-8** and **Figure 4-6** for both collection and interceptor force mains. PVC is the most prevalent material type among all types of wastewater mains comprising over 84% of both gravity and force mains. A small percentage of gravity mains are comprised of older materials that are no longer widely used, like clay tile, vitrified clay, and cast iron. Pipeline segments made of these materials should be prioritized for replacement. Approximately 8% of gravity collection mains and 14% of gravity interceptor mains are of unknown material. Investigations should be conducted to determine the unknown pipe material to determine if replacement should be prioritized.

Table 4-6: Existing Wastewater Gravity Collection Mains by Diameter and Material Type

Pipe Diameter (in)	Pipe Length by Material Type (LF)							
	PVC	Clay Tile	Vitrified Clay	Cast Iron	Ductile Iron	ABS Plastic	Unknown	Total
<4	10,562	67	0	0	0	0	62,598	73,227
6	179,392	2,571	26,676	0	38	0	2,112	210,789
8	975,685	3,186	21,748	492	1,981	6,889	39,685	1,049,666
10	39,768	1,024	8,603	0	2,866	1,123	3,229	56,613
Total Length (LF)	1,205,407	6,848	57,027	492	4,885	8,012	107,623	1,390,295
% of Total	86.7%	0.5%	4.1%	0.0%	0.4%	0.6%	7.7%	100.0%

Figure 4-4: Existing Wastewater Gravity Collection Mains by Diameter and Material Type

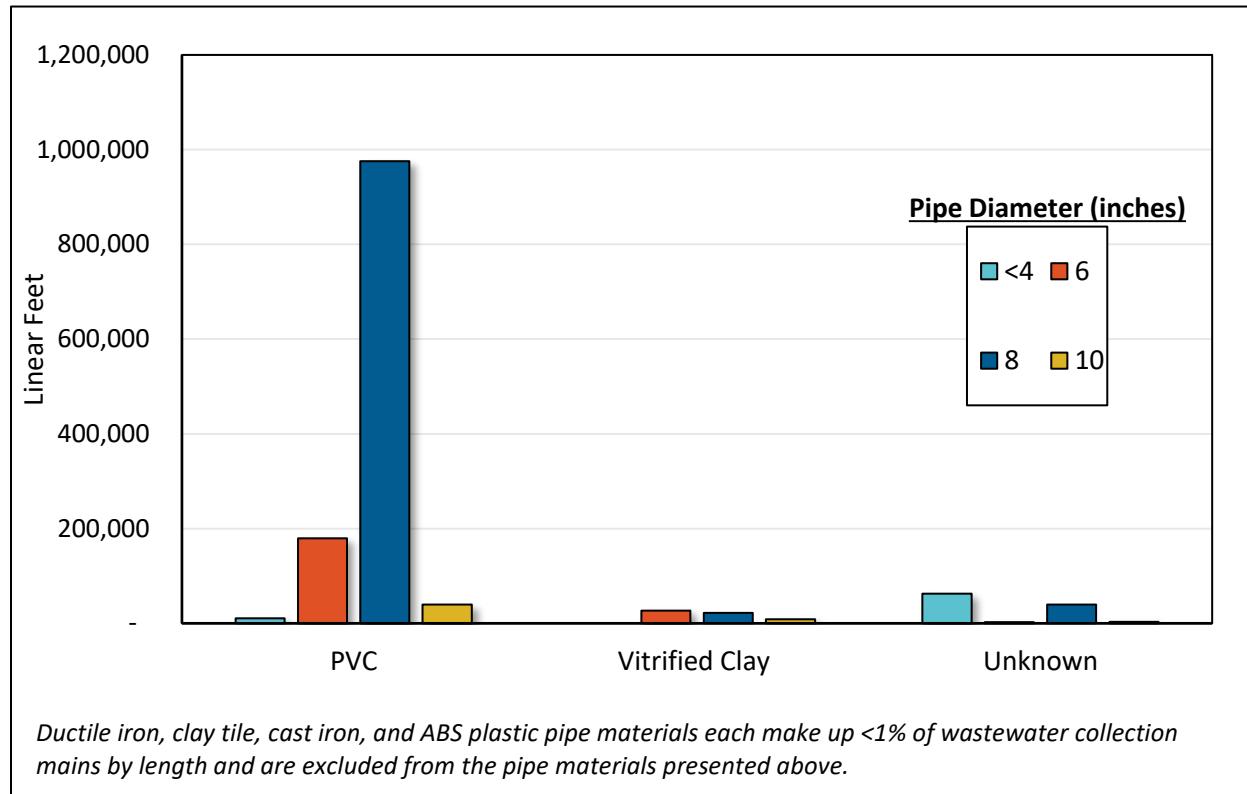


Table 4-7: Existing Wastewater Gravity Interceptor Mains by Diameter and Material Type

Pipe Diameter (in)	Pipe Length by Material Type (LF)						
	PVC	Clay Tile	Vitrified Clay	Ductile Iron	ABS Plastic	Unknown	Total
12	78,294	40	16,147	1,502	0	5,336	101,318
15	6,212	0	490	0	0	408	7,110
18	44,326	161	2,816	3,055	278	4,035	54,670
24	31,322	0	1,068	428	0	12,672	45,490
30	689	0	0	920	2,583	0	4,192
36	465	0	0	1,250	8,458	9,367	19,540
Total Length (LF)	161,308	201	20,520	7,156	11,319	31,816	232,320
% of Total	69.4%	0.1%	8.8%	3.1%	4.9%	13.7%	100.0%

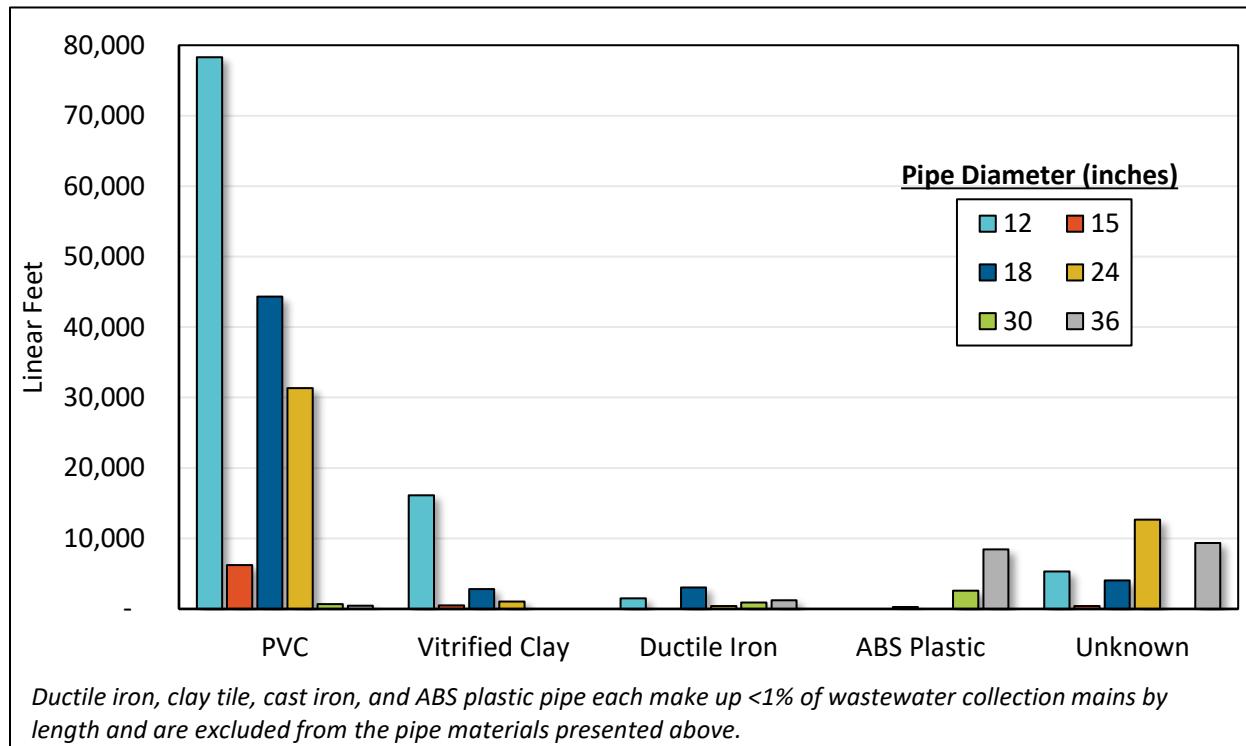
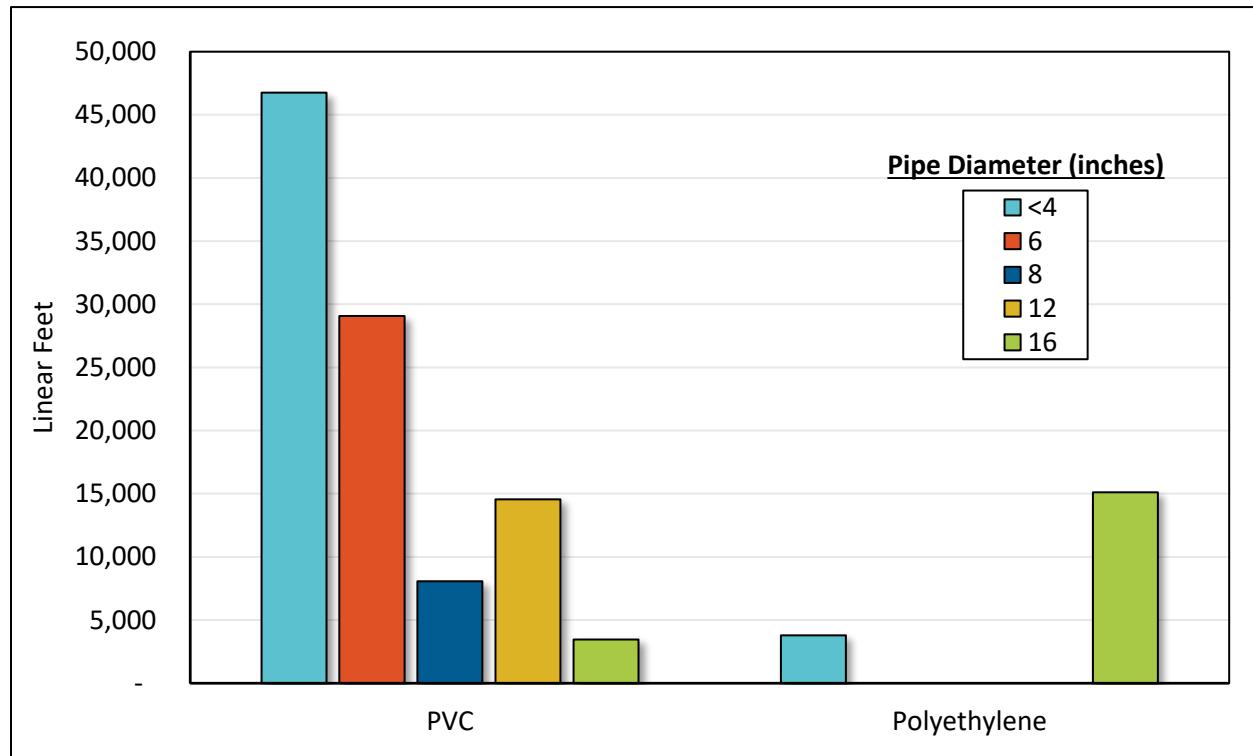
Figure 4-5: Existing Wastewater Gravity Interceptor Mains by Diameter and Material Type

Table 4-8: Existing Wastewater Force Mains by Diameter and Material Type

Pipe Diameter (in)	Pipe Length by Material Type (LF)		
	PVC	Unknown	Total
Collection Force Mains			
≤4	46,747	3,799	50,546
6	29,065	0	29,065
8	8,058	0	8,058
Interceptor Force Mains			
12	14,568	0	14,568
16	3,452	15,106	18,558
Total Length (LF)	101,890	18,905	120,795
% of Total	84.3%	15.7%	100.0%

Figure 4-6: Existing Wastewater Force Mains by Diameter and Material Type





After reviewing available data, FNI considered the material of wastewater mains in the BWU collection system when developing the condition score. FNI utilized the *Buried No Longer: Confronting America's Water Infrastructure Challenge* report published by the American Water Works Association (AWWA) to correlate pipe material to a range of years the material was generally installed. Soil corrosivity for concrete and metallic pipes was also considered. Parameter weighting was established based on similar risk-based assessments performed by FNI. Intrinsic pipe characteristics (age and material) were weighted more heavily than estimated environmental conditions (soil corrosivity) in evaluating the condition score of the pipe. The weighting and scoring for each of the parameters utilized in the wastewater main condition assessment are summarized in **Table 4-9**.

Table 4-9: Wastewater Main Condition Assessment Parameters

Weighting	Parameter	Criteria	Points
50%	Material	Vitrified Clay or Clay Tile	10
		Cast Iron	8
		Unknown or DIP	6
		PVC	1
40%	Estimated Age	Older than 50 Years	10
		Between 25 and 49 Years or Unknown	6
		Less than 25 Years	2
10%	Soil Corrosivity*	Metallic or Concrete Pipe in Highly Corrosive Soil	10
		Metallic or Concrete Pipe in Moderately Corrosive Soil	6
		Metallic or Concrete Pipe in Minimally Corrosive Soil	4
		Corrosion-Resistant Pipe and/or Non-Corrosive Soil	1

*Based on NRCS Corrosion Risk



4.2.2 Wastewater Main Condition Assessment Results

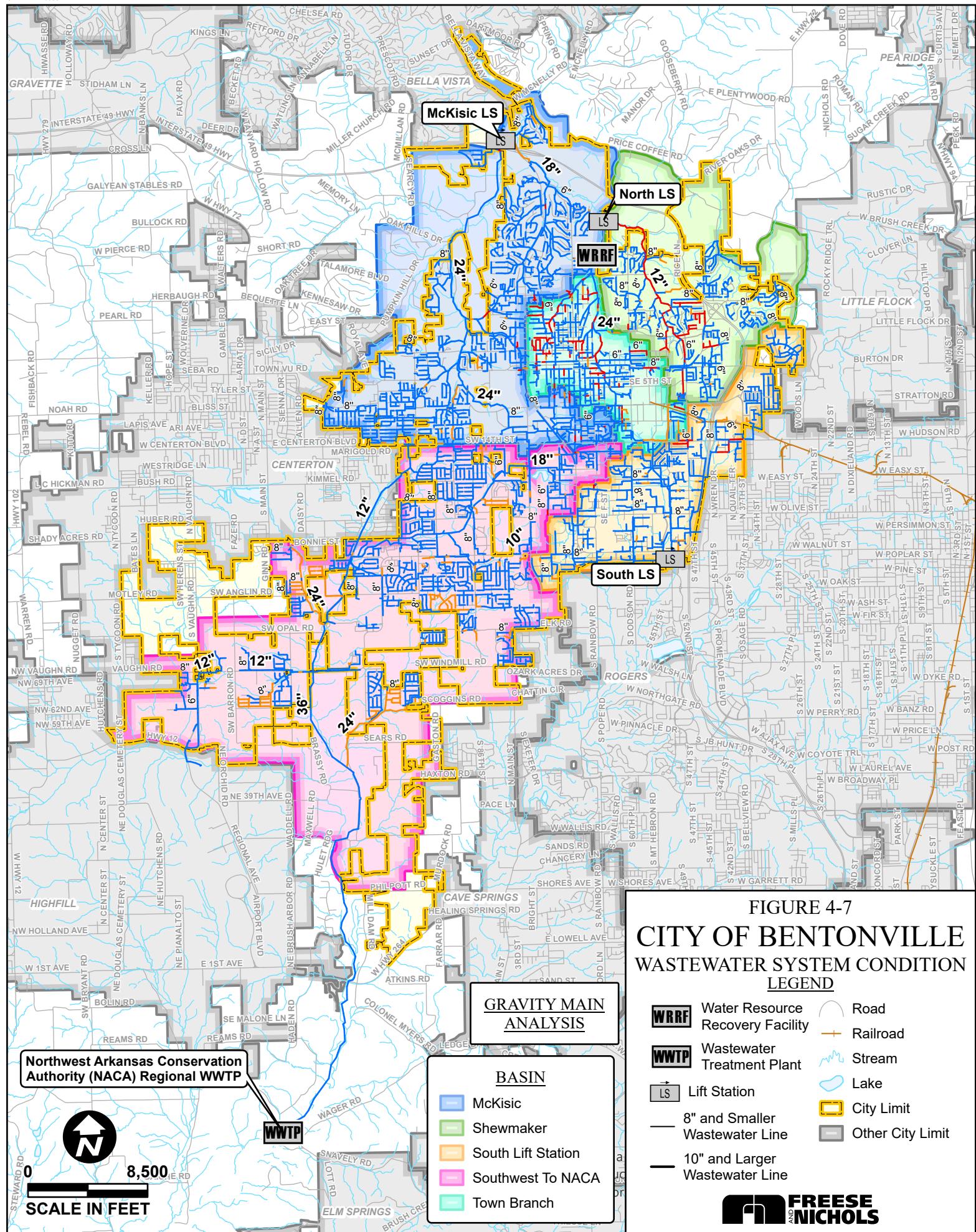
Wastewater main condition scores were calculated for each segment by totaling the weighted individual scores for each parameter. The wastewater main condition scores were then grouped into ranges, and qualitative scores of Poor to Good condition were assigned. The definitions for each scoring range are presented in **Table 4-10**. Results of the wastewater main condition assessment are summarized in **Table 4-11**. Results of the wastewater main condition assessment are shown on **Figure 4-7**. Mapping of condition component parameter scoring is included in **Appendix F**.

Table 4-10: Wastewater Main Condition Scoring Ranges and Categories

Condition Category	Definition
Poor	Poor condition, improvements recommended or required to maintain reliability
Fair	Fair condition, improvements recommended to improve performance or efficiency
Good	Good condition, minor to no improvements recommended to enhance performance

Table 4-11: Wastewater Main Condition Assessment Results

Condition Category	Total Length (miles)	Total Length (%)
Poor	14.4	4.7%
Fair	20.0	6.5%
Good	272.9	88.8%
Total	307.3	100.0%





5.0 BUDGET ANALYSIS

A budget analysis was conducted to aggregate estimated CIP expenditure on an annual basis from both capacity driven CIP projects and annual asset replacement program. The following sections describe how annual expenditures were estimated for capacity-driven and renewal-driven infrastructure improvements.

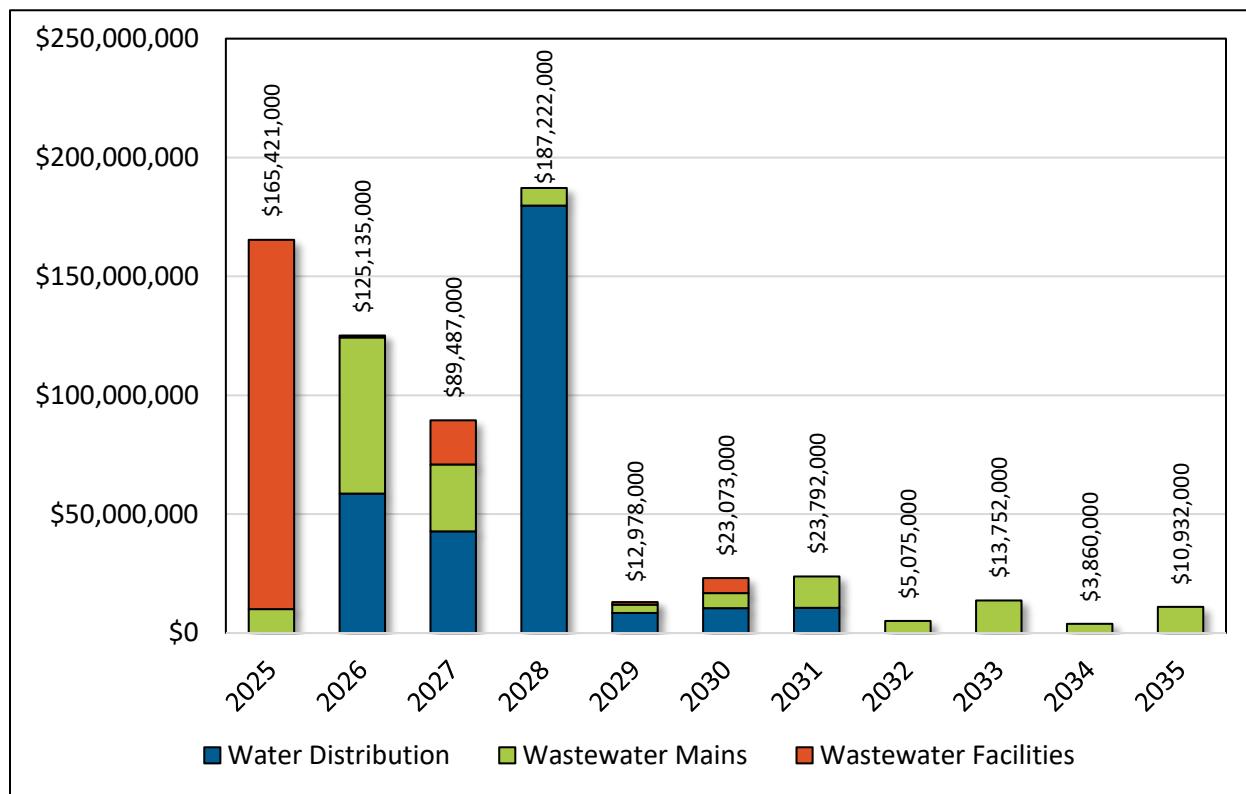
5.1 CAPACITY DRIVEN CIP PROJECTS

The comprehensive CIP includes 40 projects across the water and wastewater system where the primary driver is infrastructure capacity limitations. These include projects that have already begun, and others that are anticipated to begin over the next 10 years (2025-2035). The projects are broken out by asset type as follows:

- Water Distribution
 - 8 New Transmission Mains
 - 3 New Tanks/Pump Stations
 - 1 Upgrade Tank/Pump Station
- Wastewater Mains
 - 5 New Interceptors
 - 18 Replacement Interceptors
- Wastewater Facilities
 - 1 New Lift Station
 - 3 Lift Station Upgrades
 - 1 WRRF Upgrade

Estimated spending by year for each project was determined by summing the total cost for each project phase for the anticipated year each phase will take place. For example, if the professional services and easement acquisition phase will take place in 2030, while the construction phase will take place in 2031, then the spending for each phase would be applied to their respective years. The aggregated spending for all 40 capacity driven CIP projects by year is shown in **Figure 5-1**. The majority of spending for these projects occurs from 2025 to 2028 with several large infrastructure improvements such as the WRRF upgrade, Western Corridor 48" Transmission Main, and several other improvements for water transmission mains, storage tanks, pump station, and wastewater interceptor mains. Total CIP project spending through 2035 is approximately \$675 million.

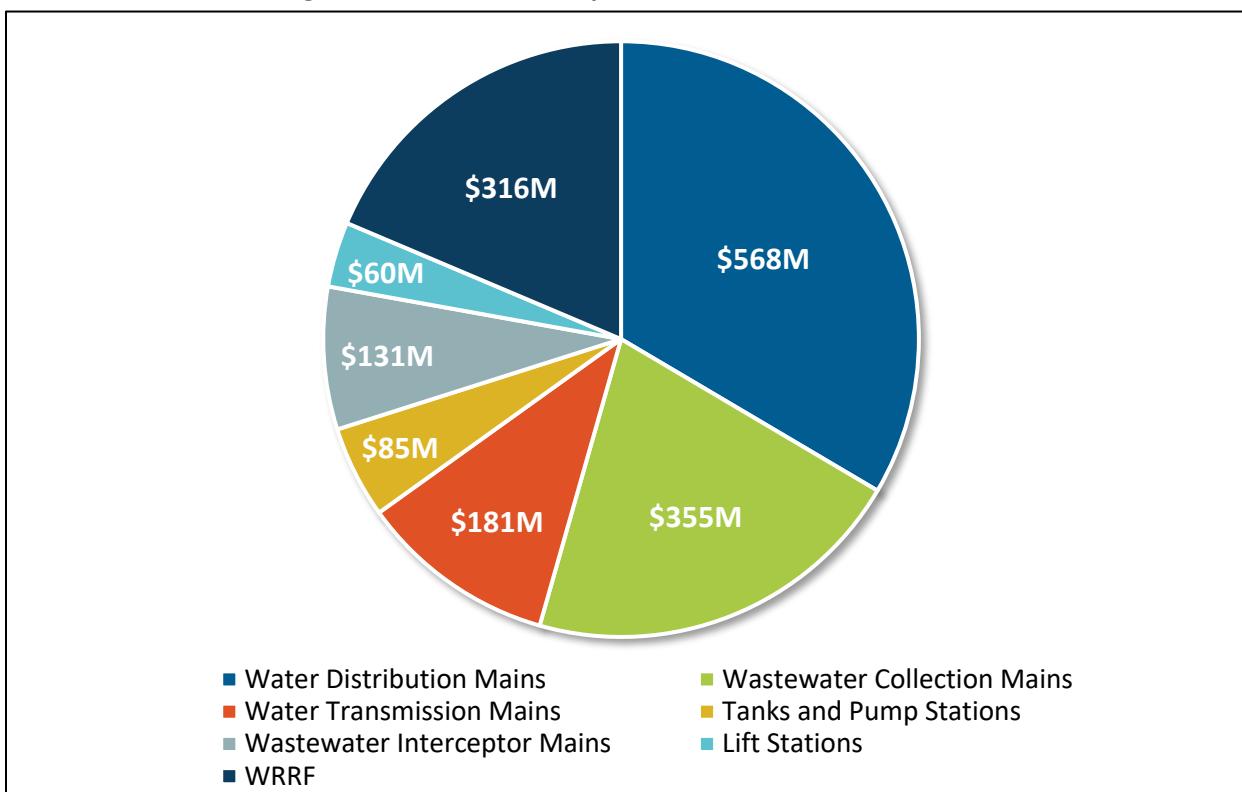
Figure 5-1: Estimated Capacity Driven CIP Project Spending by Year (2025-2035)



5.2 ANNUAL ASSET REPLACEMENT PROGRAM

In addition to the planned capacity driven CIP projects, FNI recommends that BWU include an annual budget for replacement programs to manage and sustain assets and address aging infrastructure. The projected average annual investment levels for the different asset types were estimated in several different ways, depending on factors such as the availability of existing data from BWU, the previously discussed capacity driven CIP projects, and the asset renewal evaluation results. The framework for understanding the estimated level of investment required to proactively renew the system began with the development of a high-level approximation of the cost to replace the full BWU system. This estimate was developed by applying the unit replacement costs for each asset type provided in **Section 3.3** to the existing system. Total estimated replacement costs derived in this manner for each asset type are shown in **Figure 5-2**. The total estimated replacement costs for all asset types in 2025 dollars using this methodology is approximately \$1.7 billion.

Figure 5-2: Total Asset Replacement Costs in 2025 Dollars



5.2.1 Water and Wastewater Mains

To estimate the long-term average annual spending level for proactive asset renewal of water and wastewater mains, FNI next determined the average annual percentage of each existing asset type that would need to be replaced, over decades, to continually renew assets as they reach the end of their life expectancy (based on the average industry-accepted lifespan). This was estimated based on pipeline material for water mains and wastewater mains, as described in **Section 4.0**. The annual replacement percentage was calculated, assuming that 100% of the asset type would be replaced by the end of its average lifespan. For example, the weighted average estimated lifespan of the existing water distribution mains is 80 years. So, on average over decades, approximately 1.25% of the water distribution mains would need to be replaced annually to achieve 100% replacement after 80 years. The estimated initial annual replacement cost in 2025 dollars for both water and wastewater mains using this approach is shown in **Table 5-1**.



Table 5-1: Average Annual Investment Level for Water and Wastewater Mains

Asset Type	Average Lifespan (Years)	Annual Replacement Percentage	Total Estimated Replacement Cost (2025 Dollars)	Average Annual Replacement Cost (2025 Dollars)	Average Annual Replacement Cost (2026 Dollars)
Water Mains					
Distribution Mains	80	1.25%	\$568,203,000	\$7,103,000	\$7,681,000
Transmission Mains	80	1.25%	\$181,375,000	\$2,267,000	\$2,452,000
Total Water Mains			\$749,578,000	\$9,370,000	\$10,133,000
Wastewater Mains					
Collection Mains	75	1.33%	\$354,709,000	\$4,729,000	\$5,115,000
<i>Interceptor Mains*</i>	75	1.33%	<i>\$131,278,000</i>	<i>\$1,750,000</i>	<i>\$1,893,000</i>
Total Wastewater Mains			\$485,987,000	\$6,479,000	\$7,008,000
Total			\$1,235,565,000	\$15,849,000	\$17,141,000

The estimated annual asset replacement spending levels through 2050 were determined by applying both a growth factor to account for projected population growth and a cost escalation factor to the initial annual replacement cost in 2025 dollars. The growth factor used for water and wastewater mains is 3% with a cost escalation factor of 5%. Compounding the 3% growth and 5% cost escalation factor results in an 8.15% annual cost increase as shown on Table 5-1.

Eighteen of the capacity driven projects will replace undersized segments of BWU's interceptor mains. BWU's in this category of asset demonstrates that BWU is actively investing at levels consistent with renewal of interceptor mains within the 75-year average lifespan. Therefore, at the time of this report, FNI is not recommending additional replacement of wastewater interceptors through an annual renewal program*

It is important to note that these estimates do not represent budget planning figures. They simply reflect, by use of an average annual cost figure, a big picture perspective on the level of investment that might be needed, over time, to renew segments of the system as they "age out", based on industry standards for average lifespans. This information is helpful for understanding the scale of long-term renewal program that is needed to operate proactively.

The actual amount budgeted year over year will be driven by actual needs as identified and projected through operations, maintenance, inspection, and repair of the system and use of an RBA process. Overall, BWU's water and wastewater system is relatively young. As a result, moving toward a more proactive scheme for system renewal may require higher levels of spending in the next 5 to 10 years to replace parts



of the system that were installed 70+ years ago, followed by lower levels of renewal spending in subsequent years until the younger parts of the system approach the end of their average lifespan.

5.2.2 Storage Tanks and Pump Stations

BWU currently owns and operates three elevated storage tanks, two ground storage tanks, and two pump stations. A list of BWU's tanks and pump stations is shown in **Table 5-2**.

Table 5-2: BWU Tanks, Pump Stations, and Estimated Replacement Costs

Asset	Capacity	Estimated Replacement Cost
Elevated Storage Tanks (ESTs)		
Tiger	2 MG	\$15,000,000
Downtown	0.5 MG	\$3,750,000
Highway 102	1 MG	\$7,500,000
Ground Storage Tanks (GSTs)		
I Street	3 MG	\$15,000,000
I Street	6 MG	\$30,000,000
Total Estimated Replacement Cost for Tanks		\$71,250,000
Pump Stations		
I Street		
4 Pumps & Appurtenances	13.5 MGD	\$12,150,000
Downtown		
Pump 1	1.5 MGD	\$1,350,000
Total Estimated Replacement Cost for Pump Stations		\$13,500,000

Notes:

1. EST Replacement Cost \$/gal: \$7.50
2. GST Replacement Cost \$/gal: \$5.00
3. Pump Station Replacement Cost \$/MGD: \$900,000

The estimated replacement costs are based on \$7.50/gallon for elevated storage tanks (ESTs), \$5.00/gallon for ground storage tanks (GSTs), and \$900,000/MGD of total capacity for pump stations. The industry estimated lifespan of tanks varies significantly. The AWWA Effective Useful Life estimating tool places the lifespans of concrete GSTs between 30 and 70 years without rehabilitation, and between 50 and 100 years with multiple rehabilitations. Metal GSTs and all ESTs have estimated lifespans of 30 to 50 years with no rehabilitation. FNI understands that BWU has performed routine inspections, maintenance, and rehabilitation, including re-painting and re-coating, of water tanks and pump stations.



For this study, FNI has assumed an average lifespan of 50 years for tanks and 30 years for pump stations, which results in an annual replacement of 2% for tanks and 3.33% for pump stations, as shown in **Table 5-3**.

Table 5-3: Average Annual Investment Level for Water Facilities

Asset Type	Average Lifespan (Years)	Annual Replacement Percentage	Total Estimated Replacement Cost (2025 Dollars)	Average Annual Replacement Cost (2025 Dollars)	Average Annual Replacement Cost (2026 Dollars)
Storage Tanks	50	2.00%	\$71,250,000	\$1,425,000	\$1,561,000
Pump Stations	30	3.33%	\$13,500,000	\$450,000	\$493,000
Total Water Facilities			\$84,750,000	\$1,875,000	\$2,054,000

BWU is planning to replace the 3 MG I Street GST with a 6 MG GST and rehabilitate the I Street Pump Station within the 5-year planning horizon. The total estimated costs of the projects is \$26.5 million. The planned projects demonstrate that BWU is actively investing in the asset renewal of aging tanks and pump station facilities within their 50- and 30-year respective, expected average lifespans.

While addressing the major facilities is planned, BWU staff continue the replacement of major components for water facilities such as pumps, motors, controllers, and other related assets. The I Street Pump Station includes two 250 hp pumps and two 75 hp pumps. As a general rule, the pumps can serve for approximately 9 years before needing to be replaced. Motors typically can serve a few years less. In the case of both 250 hp and 75 hp units, the pumps are replaced when they reach the end of their service life. The BWU staff typically maintains a spare electric motor for both the 250 hp and 75 hp units. Electric motors for the 75 hp pumps typically are not rebuilt. These motors are relatively common and replacement units can typically be procured in a week or two when one fails. Motors for the 250 hp units are somewhat different in construction and can typically be rebuilt once or twice before needing to be totally replaced. For this comprehensive CIP, FNI estimated that the average annual cost to replace the major components is \$100,000/year plus 4.33% growth and a 5% cost escalation factor (net compound annual increase equals 9.5%).



5.2.3 Wastewater Lift Stations

BWU currently owns and operates 59 Lift Stations (LS), shown in **Table 5-4**.

Table 5-4: Existing Lift Stations and Total Horsepower

Lift Station Number and Name	Pump Horsepower and Brand	Pumps Installed	Installed Horsepower
LS #1 Mckissic	85 hp Flygt	5	425
LS #1 Mckissic	10 hp Flygt	4	40
LS #2 South	48 hp Fairbanks-Morse	3	144
LS #3 HWY 102	7.5 hp Flygt	2	23
LS #4 Lexington	5 hp Hydromatic	2	10
LS #5 North	38.7 hp Fairbanks-Morse	5	194
LS #6 Parkview	2 hp Hydromatic	2	4
LS #7 Autumn Hills	5 hp Hydromatic	2	10
LS #8 Wood Creek	5 hp Hydromatic	2	10
LS #9 Rice Rd	15 hp Hydromatic	2	30
LS #10 Krystal Heights	15 hp Flygt	2	30
LS #11 Stonehedge	5 hp Hydromatic	2	10
LS #12 Blueberry	15 hp Hydromatic	2	30
LS #13 Beau Terre South	5 hp Hydromatic	2	10
LS #14 Harbour	2 hp Hydromatic	2	4
LS #15 Willow Banks	2 hp Hydromatic	2	4
LS #16 AR Bank	5 hp Hydromatic	2	10
LS #17 Salvation Army	6.5 hp Hydromatic	2	13
LS #18 Hanover	5 hp Hydromatic	2	10
LS #19 Marina	10 hp Hydromatic	2	20
LS #20 Clarendon Heights	7.5 hp Flygt	2	15
LS #21 Meadow Woods	2 hp Hydromatic	2	4
LS #22 Orchards Park	2 hp Hydromatic	2	4
LS #23 Vaughn	10 hp Flygt	2	20
LS #24 Firestone	5 hp Hydromatic	2	10
LS #25 Medical Center	5 hp Flygt	2	10
LS #27 Walmart	5 hp Hydromatic	2	10
LS #28 Autumn Wood	2 hp Flygt	2	4
LS #29 Beau Terre North	7.5 hp Hydromatic	2	15
LS #30 Abby	2 hp Hydromatic	2	4
LS #31 Straube	5 hp Hydromatic	2	10
LS #32 Nightingale	7.5 hp Hydromatic	2	15
LS #33 Kensington	7.5 hp Hydromatic	2	15
LS #34 Saddlebrook	2 hp Hydromatic	2	4
LS #35 Kingsbury	7.5 hp Hydromatic	2	15
LS #37 College Place	10 hp Hydromatic	2	20

Lift Station Number and Name	Pump Horsepower and Brand	Pumps Installed	Installed Horsepower
LS #38 Windwood	5 hp HCP	2	10
LS #39 Allencroft	7.5 hp Hydromatic	2	15
LS #40 Fairwinds	5 hp HCP	2	10
LS #41 Creekstone	15 hp Flygt	2	30
LS #42 Lockmoor Club	10 hp Flygt	2	20
LS #43 Briar Chase	5 hp Flygt	2	10
LS #44 White Oak Trails	7.5 hp Flygt	2	15
LS #45 Chickadee	3 hp Flygt	2	6
LS #46 Windmill	7.5 hp Flygt	2	15
LS #47 Stoneburrow	12 hp Flygt	2	24
LS #48 Wildwood	10 hp Flygt	2	20
LS #49 Kerlaw Castle	10 hp Flygt	2	20
LS #50 Stonegate	2.9 hp Homa	2	6
LS #51 Morning Star	15 hp Flygt	2	30
LS #52 Oaklawn Hills	11 hp Flygt	2	22
LS #53 Thornbrook	20 hp Flygt	2	40
LS #54 Elm Tree	3 hp Zolar / Yeomans	2	6
LS #55 Grammercy Park	23 hp Flygt	2	46
LS #56 Angel Falls	6 hp Flygt	2	12
LS #57 Central Park	20 hp Flygt	2	40
LS #58 Highland Park	5 hp Flygt	2	10
LS #59 Brighton Cottages	20 hp Hydromatic	2	40
LS #60 Campus	45 hp Flygt	3	135
LS #61 Edgar Estates	5 hp HCP	2	10
Total		129	1,750

The replacement costs for Lift Stations is dependent upon numerous factors including pump size, depth and diameter of the wet well, overall capacity, control system, backup generators, site conditions, piping configurations, and other site-specific conditions. To determine an overall approximate replacement cost for all 59 existing Lift Stations FNI used historic and market information. Approximate values for each station were compiled and a total replacement cost of \$60,000,000 was estimated.

Assuming an average lifespan of 50 years results in allocating 2% per year in average replacement costs, as shown in **Table 5-5**.

**Table 5-5: Average Annual Investment Level for Wastewater Lift Stations**

Asset Type	Average Lifespan (Years)	Annual Replacement Percentage	Total Estimated Replacement Cost (2025 Dollars)	Average Annual Replacement Cost (2025 Dollars)	Average Annual Replacement Cost (2026 Dollars)
Lift Stations (59)	50	2.00%	\$60,000,000	\$1,200,000	\$1,315,000

BWU is planning to upgrade Lift Stations #1, McKissic (Turner) as part of Project WW05 and Lift Station #2, South as part of Projects WW02 and WW04 within the 5-year planning horizon. The total costs of the projects are estimated at \$25.8 million. The planned Lift Station upgrades demonstrate that BWU is actively investing at levels for the asset renewal of Lift Stations within the 50-year average lifespans.

In addition to the two major Lift Station upgrades noted above, BWU plans to construct multiple interceptor projects that will eliminate these 7 Lift Stations:

- Lift Station #23, Vaughn Road (Project WWM01)
- Lift Station #46, Windmill (Project WWM11)
- Lift Station #48, Wildwood (Project WWM19)
- Lift Station #51, Morningstar (Project WWM15)
- Lift Station #57, Central Park (Project WWM11)
- Lift Station #59, Brighton Cottages (Project WWM19)
- Lift Station #61 Edgar Estates (Project WWM15)

While addressing renewal of two major Lift Stations is planned along with the elimination of 7 smaller Lift Stations, BWU staff continue the replacement of major components for Lift Stations such as pumps, motors, controllers, and other related assets. Wastewater pumps typically face harsher and more extreme conditions than water pumps. From greater flow variations, greater range of temperatures, and the presence of abrasive and/or corrosive chemicals, wastewater pumps generally do not serve as long as water pumps in terms of volume pumped or hours of operation.

Pumps below 7.5 hp can sometimes be repaired and put back into service when they fail, however the cost of repair work is typically more than 50% of the cost of a new unit. Accordingly, BWU operators rarely rebuild or repair these units when one fails.



Pumps 7.5 hp and larger can typically be repaired or rebuilt for less than half the cost of a new unit. It is common for a pump and/or motor to be rebuilt 2 or more times. This may include replacement of bearings, impeller(s), interior surfacing and/or rewinding of the motor.

Based on FNI's discussions with BWU operators and regional norms replacement of around 9 pumps below 7.5 hp each year and 8 pumps 7.5 hp and above each year will be expected.

For this comprehensive CIP, FNI estimated that the average annual cost to replace the major Lift Station components is \$200,000 per year plus 4.33% growth and a 5% cost escalation factor (net compound annual increase equals 9.5%).

5.2.4 Water Resource Recovery Facility (WRRF)

A feasibility study concluded there was a clear financial advantage for expanding the capacity of BWU's existing WRRF from 4 million gallons per day (MGD) to 7.9 MGD as opposed to pumping more flow to a regional treatment plant. Bentonville City Council approved this \$152.7 million project in 2024. This project increases the capacity of the WRRF by enhancing the existing basins and equipment to support an increased population of microorganisms and enhance unit efficiency. With more and better microorganisms, the WRRF will provide the treatment capacity demanded by the growing city. This project also includes screening, advanced grit removal, mixed liquor suspended solids selectors, biological nutrient removal, advanced phosphorus removal, innovative clarification, parallel filtration, ultraviolet disinfection, effluent pumping, and architectural improvements.

WRRFs typically have an overall lifespan of 40 to 50 years (ASCE Infrastructure Report Card in 2021). BWU performs regular maintenance and rehabilitation of WRRF components, such that BWU's upgraded overall WRRF is expected to have a 50+ year lifespan. Based on an average cost of \$40 per gallon to replace the WRRF, an overall replacement value of \$316M for the 7.9 MGD WRRF was estimated. Assuming an average lifespan of 50 years results in allocating 2% per year in average replacement costs, as shown in **Table 5-6.**

Table 5-6: Average Annual Investment Level for the WRRF

Asset Type	Average Lifespan (Years)	Annual Replacement Percentage	Total Estimated Replacement Cost (2025 Dollars)	Average Annual Replacement Cost (2025 Dollars)	Average Annual Replacement Cost (2026 Dollars)
WRRF	50	2.00%	\$316,000,000	\$6,320,000	\$6,636,000



The current \$152.7 million investment in the WRRF demonstrates that BWU is actively investing for renewal of the WRRF within the expected 50-year lifespan.

While addressing renewal of the WRRF is underway, BWU staff will continue replacement of components such as pumps, motors, controllers, blowers, screw presses, diffuser assemblies, classifiers, rotors, cloth media filters, and other mechanical equipment. Additional equipment and filter media will be associated with the intensification upgrade. On average, most of the major components are expected to last about 15 to 20 years when properly maintained. A replacement value on the equipment at the WRRF would likely be in the range of 25 to 40% of the WRRF's value. BWU staff have proven to be highly skilled and handle many of the WRRF's component replacements in-house, with the remainder handled by specialized outside contractors. FNI estimates that the average annual cost to replace the major components is \$2.5 million per year plus 4.33% growth and a 5% cost escalation factor (net compound annual increase equals 9.5%). The costs for specific WRRF component replacements for the annual renewal program in this comprehensive CIP were provided by BWU staff and are currently less than \$2.5 million per year.



6.0 RECOMMENDATIONS

Following a comprehensive evaluation of BWU's capital improvement and asset renewal programs, FNI has developed targeted recommendations to help the utility strengthen its planning and operational procedures. These recommendations are designed to support BWU in maintaining and enhancing its high level of service, ensuring long-term system reliability, cost efficiency, and resilience for its customers.

6.1 CAPITAL PLANNING AND COORDINATION

FNI recommends BWU continue to use lifecycle cost analyses to guide investment strategies, while fostering collaboration between engineering, operations, and finance teams. To optimize capital planning, FNI recommends coordinating project scheduling with other city departments, such as Streets, to minimize disruptions and capture cost efficiencies. Annual updates to the CIP Project Information Forms should be made to track evolving budget needs and scope changes, ensuring transparency and alignment with long-term objectives. Additionally, FNI recommends BWU track local and regional bid tab estimates to keep water and wastewater system unit costs accurate and up to date.

6.2 WATER AND WASTEWATER SYSTEM MASTER PLANNING

FNI also supports BWU's plan to conduct a comprehensive Wastewater Master Plan to provide a long-term roadmap for system capacity, regulatory compliance, and asset renewal needs. This plan will evaluate current infrastructure performance, forecast future flows based on growth and development trends, and identify critical system vulnerabilities. Incorporating hydraulic modeling, condition assessment data, and risk-based prioritization will ensure the plan supports both operational reliability and strategic capital investment. Additionally, the master plan should align with regional planning efforts and integrate sustainability and resilience measures to address climate impacts and evolving regulatory requirements.

BWU completed a Water Master Plan in April 2024. FNI recommends a master plan update cycle of at least once every ten years. Updates could be triggered sooner if unexpected or rapid development changes occur within Bentonville. Annual validation of planning assumptions such as growth rates, project implementation, and other pertinent information can ensure the quality of CIP planning.



6.3 ASSET MANAGEMENT

FNI understands BWU is implementing a work order management program through CityWorks, effective January 1, 2026 as a vital step in advancing strategic asset management. As BWU's asset management program develops, additional data, such as asset installation dates, condition assessments, inspection reports, work order histories, service issues, main breaks, leak detection surveys, and other relevant asset information will be incorporated into the asset management system.

FNI recommends that the asset management program include criticality metrics and risk scores. In a RBA, asset criticality is generally defined as the measure of the consequence of an asset failure through loss of service, damage, regulatory impact, and/or impact to the public (users). Accordingly, social, environmental, and economic parameters are used to judge the consequence of asset failure. Criticality parameters could include metrics such as the number of customers served, the number of critical customers served (e.g., hospitals and schools), intersections with railroads, floodplains, or environmentally sensitive areas, or depth of pipe, for example. The component condition and criticality scores are then multiplied to establish the total risk score for each asset, which serves as the basis for developing renewal recommendations.

This approach will enable prioritization of assets based on both likelihood and consequence of failure, ensuring resources are allocated where they have the greatest impact. Developing a robust RBA requires continued population of Geographic Information System (GIS) asset data and systematic collection of Closed-Circuit Television (CCTV) and inspection records to improve visibility into asset health. Additionally, leveraging CityWorks maintenance data will provide valuable insights into operational history and failure trends. By integrating these datasets into a unified risk model, BWU can transition from reactive to predictive planning, supporting more informed renewal decisions and long-term resilience. In the long term, strategically managing the infrastructure portfolio through a fully-informed and ever improving asset management program can help optimize lifecycle spending by strategically balancing operations and maintenance relative to capital spending to best address service level expectations with available funds.

The following is a summary of recommendations intended to provide a road map for BWU to perform a full RBA in the future.



6.3.1 GIS Data

BWU currently has an extensive water and wastewater GIS including pipe material and size for 96% of BWU's 2 million feet of water mains, and 91% of BWU's 1.75 million feet of wastewater mains. BWU staff continues to build upon the GIS including additional attributes when available. As the GIS is further developed, FNI recommends:

1. Populate, at a minimum, a unique identifier (ID), asset type (pressure pipe, force main, gravity main, etc.), pipe material, and date installed information in the water and wastewater asset databases.
2. Begin linking assets in the dataset to as-built drawings or field maps, where available.
3. Store dynamic data fields, such as work order information, in CityWorks rather than in the GIS dataset.
4. When adding information in the asset dataset, populate a "Data Source" field to track where the information was collected from (i.e. as-builts, survey data, contours, etc.)
5. Populate as-built dates from drawings as the hyperlinks are added to the asset dataset.
6. Populate pipeline invert information where available.
7. Create a GIS layer of critical customers, sensitive environmental features, and any areas of difficult, limited or restricted accessibility.

6.3.2 Work Order Data

Water and Wastewater Systems

1. Populate the *Pipe Material* field whenever possible to verify information that will be tracked in GIS.
2. Minimize the number of fields in the CityWorks database to reduce confusion and streamline work management business processes.

Water System

1. Categorize work order type (e.g., leak repair, valve exercise, meter replacement).
2. Track customer complaints related to pressure or water quality.

Wastewater System

1. Integrate available CCTV data with CityWorks.
2. For sanitary sewer overflows, track *Overflow Stop* and *Gallons per Minute (gpm)* fields to indicate the estimated time at which a blockage was cleared and the approximate overflow rate.
3. Record multiple manhole and pipe IDs in overflow work orders to indicate the assets investigated, not just the manhole that was overflowing. In other words, a manhole overflowing is not generally the primary issue. It is important to identify the pipeline where the potential blockage or restriction is present.
4. Capture manhole material on any manhole inspection forms in CityWorks and populate into GIS.



6.3.3 Risk-Based Assessment Software

FNI recommends investing in an off-the-shelf RBA software package in order to continue updating the RBA based on changes in water and wastewater system infrastructure moving forward. Many commercially available platforms provide robust tools for streamlining the RBA process for both linear and vertical assets and include vendor-supported assistance for troubleshooting and implementation needs. It is advisable to avoid proprietary software that may be phased out in the future or may not offer reliable long-term support.

6.3.4 CCTV

FNI recommends investing in an ongoing CCTV inspection of the wastewater collection system with a goal of capturing a certain percentage of the system per year. Data quality is key and can be assured by requiring inspection results to comply with Pipeline Assessment Certification Program (PACP). For example, inspectors should input the entire manhole ID and wastewater pipe ID during the inspection rather than afterwards, which is expensive and can result in errors in the database. Further, inspectors should input the entire upstream and downstream manhole ID AND the wastewater pipe ID similar to what is presented on **Figure 6-1** and **Figure 6-2**. CCTV inspection deliverables should include the following:

- CCTV inspection report (hard copy and digital copy)
- All media files, including images and videos
- A standard PACP database of the inspected infrastructure

The standard PACP database is compatible with most RBA software applications and will facilitate the future importation of CCTV PACP inspection results into the assessment model.



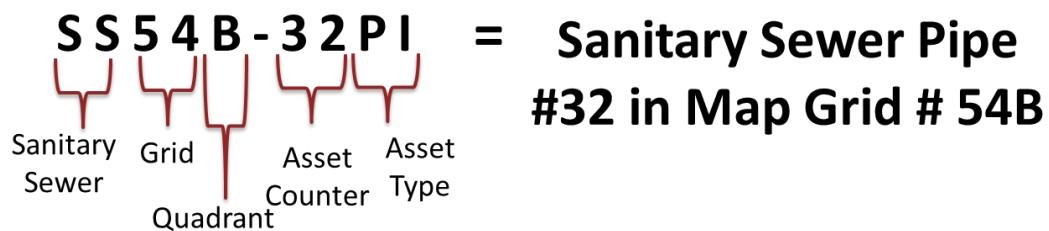
Figure 6-1: Manhole Unique Identifier

SS 54 B - 48 M H = **Manhole #48 in Map Grid # 54B**



Figure 6-2: Sewer Line Unique Identifier

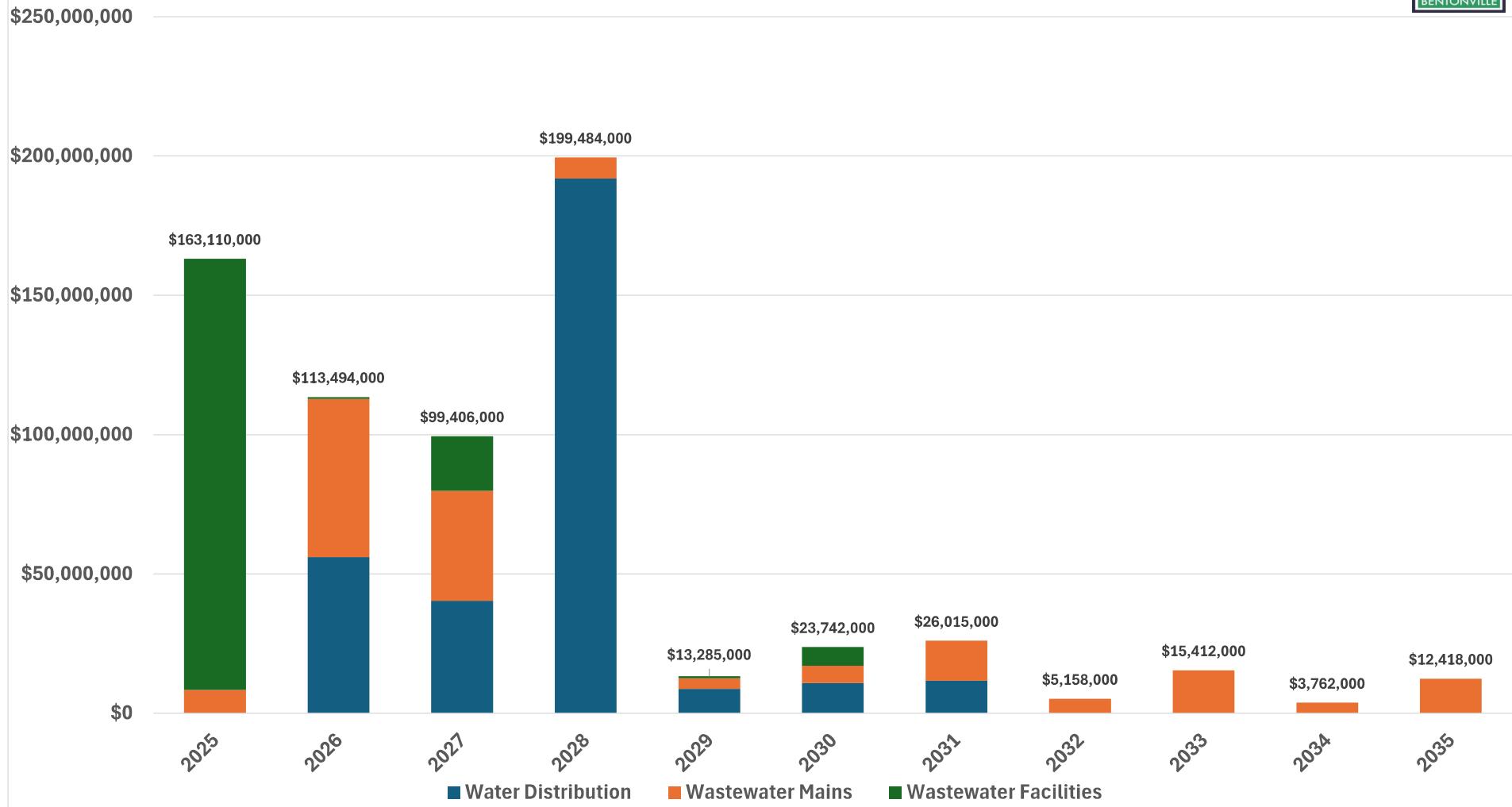
SS 54 B - 32 P I = **Sanitary Sewer Pipe #32 in Map Grid # 54B**



APPENDIX A:

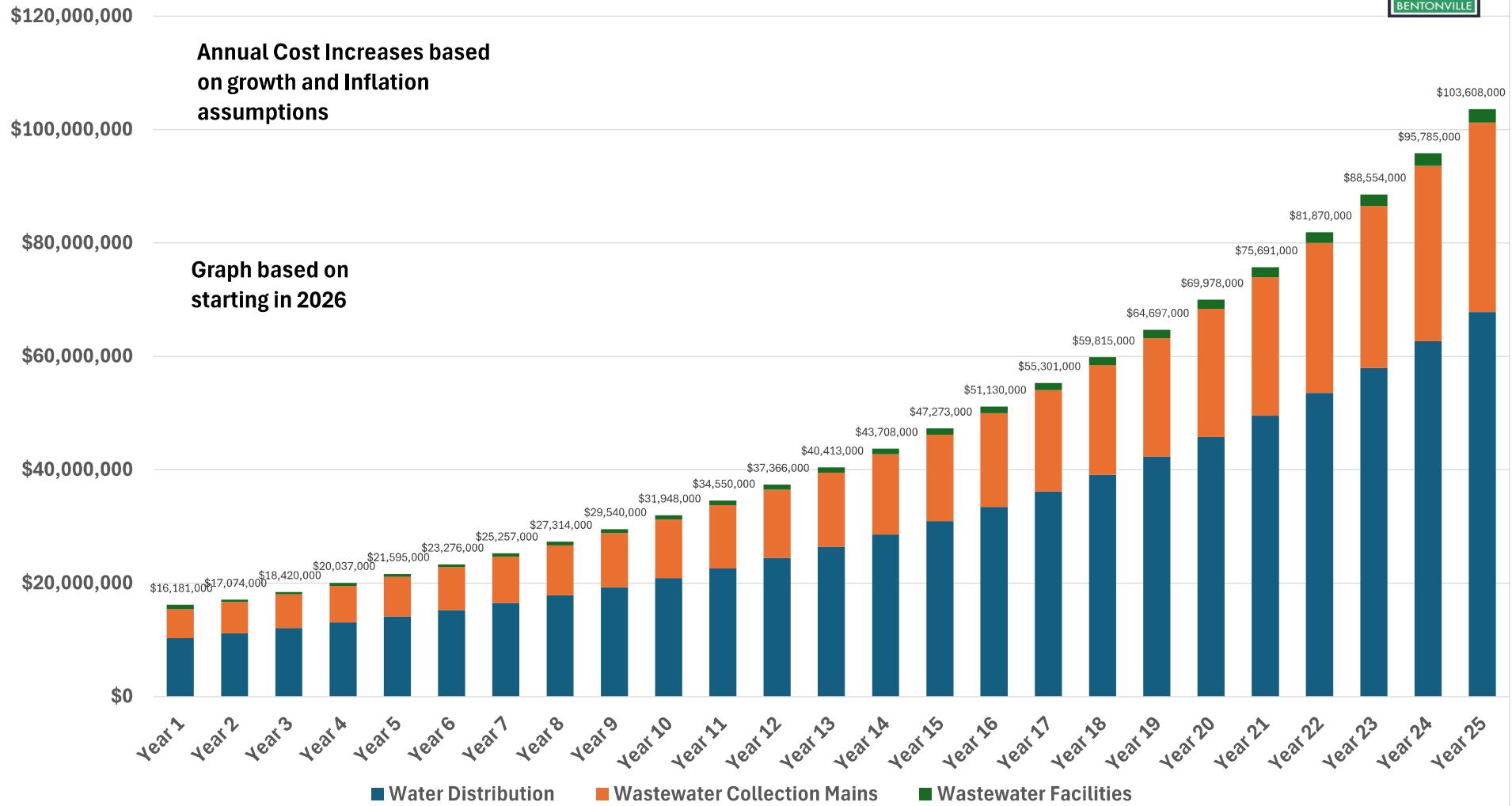
SUMMARY OF CIP COSTS BY YEAR

CIP Plan - Projects Only

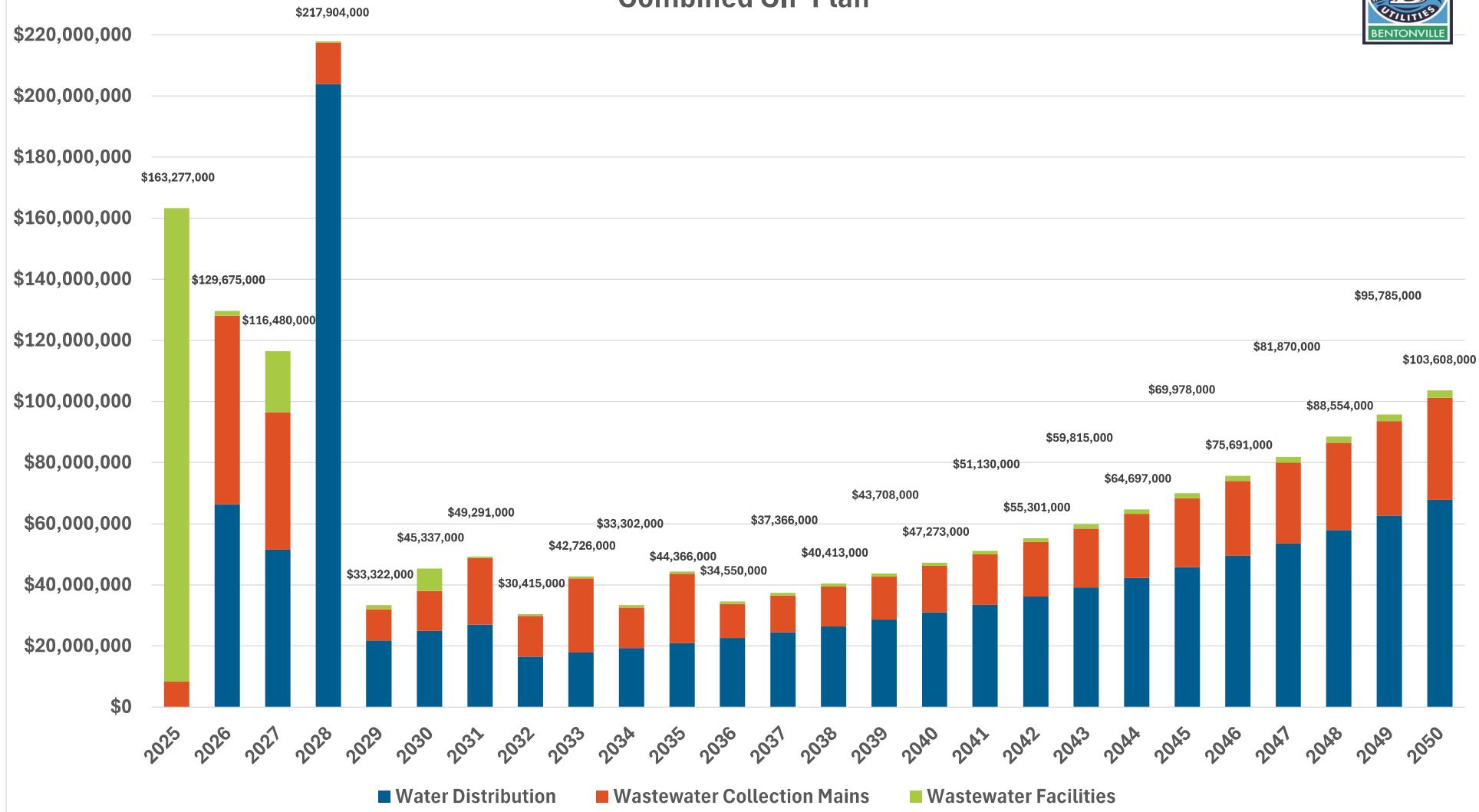
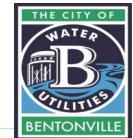




CIP Plan -Annual Program Only



City of Bentonville Combined CIP Plan



BENTONVILLE WATER UTILITIES
DRAFT COMPREHENSIVE CAPITAL IMPROVEMENT PLAN

ID	PROJECT NAME	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	
WATER DISTRIBUTION																												
<i>Distribution Mains - New</i>																												
WDD1	Transmission Mains - New	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WDD2	4th Supply Transmission Main Extension	\$ -	\$ 15,330,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WDD3	East Loop 24" Mobility to Hwy 102 tank site	\$ -	\$ 7,840,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WDD4	Western Corridor Transmission Main 44"	\$ -	\$ 13,052,000	\$ -	\$ 79,113,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WDD5	Transmission Main - 24" (to the SW Elevated Storage Tank)	\$ -	\$ -	\$ 2,049,000	\$ 11,791,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WDD6	Transmission Main - 24" (to the SW Elevated Storage Tank)	\$ -	\$ -	\$ 2,049,000	\$ 20,004,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WDD7	Transmission Main - 24" (to the SW Elevated Storage Tank)	\$ -	\$ -	\$ 2,049,000	\$ 20,004,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WDD8	Northeast Loop Phase 1 - 24"	\$ -	\$ -	\$ 896,000	\$ 7,227,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WDD9	Central Transmission Main - 24"	\$ -	\$ -	\$ -	\$ -	\$ 1,521,000	\$ 8,796,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
WDD10	Northeast Loop Phase 2 - 24"	\$ -	\$ -	\$ -	\$ -	\$ 2,025,000	\$ 11,653,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal - Transmission Mains-New	\$ -	\$ 36,231,000	\$ 5,524,000	\$ 111,764,000	\$ 8,748,000	\$ 10,781,000	\$ 11,653,000	\$ -																			
<i>Distribution Mains - Replacement</i>																												
WDA-RPD	Annual Replacements - Water Distribution Mains	\$ -	\$ 7,700,000	\$ 8,328,000	\$ 9,007,000	\$ 9,741,000	\$ 10,355,000	\$ 11,994,000	\$ 12,923,000	\$ 13,327,000	\$ 14,413,000	\$ 15,588,000	\$ 16,858,000	\$ 18,232,000	\$ 19,718,000	\$ 21,325,000	\$ 23,063,000	\$ 24,943,000	\$ 26,297,000	\$ 29,175,000	\$ 31,553,000	\$ 34,125,000	\$ 36,906,000	\$ 39,914,000	\$ 43,167,000	\$ 46,685,000	\$ 50,490,000	
WDA-RWD	Annual ROW Relocations - Water Distribution Mains	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Subtotal - Distribution Mains - Replacement	\$ -	\$ 7,700,000	\$ 8,328,000	\$ 9,007,000	\$ 9,741,000	\$ 10,355,000	\$ 11,994,000	\$ 12,923,000	\$ 13,327,000	\$ 14,413,000	\$ 15,588,000	\$ 16,858,000	\$ 18,232,000	\$ 19,718,000	\$ 21,325,000	\$ 23,063,000	\$ 24,943,000	\$ 26,297,000	\$ 29,175,000	\$ 31,553,000	\$ 34,125,000	\$ 36,906,000	\$ 39,914,000	\$ 43,167,000	\$ 46,685,000	\$ 50,490,000	
<i>Transmission Mains - Replacement</i>																												
WDA-RPT	Annual Replacements - Water Transmission Mains	\$ -	\$ 2,500,000	\$ 2,704,000	\$ 2,924,000	\$ 3,162,000	\$ 3,420,000	\$ 3,699,000	\$ 4,000,000	\$ 4,326,000	\$ 4,675,000	\$ 5,060,000	\$ 5,472,000	\$ 5,918,000	\$ 6,400,000	\$ 6,922,000	\$ 7,486,000	\$ 8,096,000	\$ 8,756,000	\$ 9,470,000	\$ 10,242,000	\$ 11,980,000	\$ 12,956,000	\$ 14,012,000	\$ 15,154,000	\$ 16,389,000		
WDA-RWT	Annual ROW Relocations - Water Transmission Mains	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Subtotal - Transmission Mains - Replacement	\$ -	\$ 2,500,000	\$ 2,704,000	\$ 2,924,000	\$ 3,162,000	\$ 3,420,000	\$ 3,699,000	\$ 4,000,000	\$ 4,326,000	\$ 4,675,000	\$ 5,060,000	\$ 5,472,000	\$ 5,918,000	\$ 6,400,000	\$ 6,922,000	\$ 7,486,000	\$ 8,096,000	\$ 8,756,000	\$ 9,470,000	\$ 10,242,000	\$ 11,980,000	\$ 12,956,000	\$ 14,012,000	\$ 15,154,000	\$ 16,389,000		
<i>Table & Pump Stations - New</i>																												
WDD11	Northwest Storage Tank - 2 MG	\$ -	\$ 16,781,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WDD12	Southwest Treatment Tank - 2 MG	\$ -	\$ 2,904,000	\$ 18,612,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WDD13	SV-61A Pump Station - 6 MG	\$ -	\$ 1,702,000	\$ 6,153,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Subtotal Production - New	\$ -	\$ 16,781,000	\$ 19,286,000	\$ 80,146,000	\$ -																						
<i>Table & Pump Stations - Upgrades</i>																												
WDD14	I Street CST - 6 MG	\$ -	\$ 3,118,000	\$ 24,555,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WDA-UTP	Annual Tank/Pump Station Upgrades	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000		
	Subtotal Production - Upgrades	\$ -	\$ 3,218,000	\$ 24,665,000	\$ 121,000	\$ 133,000	\$ 146,000	\$ 160,000	\$ 175,000	\$ 192,000	\$ 210,000	\$ 230,000	\$ 250,000	\$ 276,000	\$ 302,000	\$ 331,000	\$ 363,000	\$ 398,000	\$ 436,000	\$ 478,000	\$ 524,000	\$ 574,000	\$ 629,000	\$ 689,000	\$ 755,000	\$ 827,000	\$ 906,000	
	TOTAL WATER DELIVERY	\$ -	\$ 66,389,000	\$ 51,907,000	\$ 203,962,000	\$ 21,764,000	\$ 24,882,000	\$ 26,906,000	\$ 16,498,000	\$ 17,845,000	\$ 19,302,000	\$ 20,478,000	\$ 22,582,000	\$ 24,426,000	\$ 26,420,000	\$ 28,575,000	\$ 30,917,000	\$ 33,437,000	\$ 36,785,000	\$ 40,817,000	\$ 44,212,000	\$ 48,441,000	\$ 52,433,000	\$ 56,847,000	\$ 61,260,000	\$ 67,785,000		
WASTEWATER MAINS																												
<i>Collection Mains - New</i>																												
WWPM14	Subtotal - Mains-New	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WWPM15	Collection Mains - Replacement	\$ -	\$ 5,100,000	\$ 5,516,000	\$ 5,066,000	\$ 6,452,000	\$ 6,078,000	\$ 7,547,000	\$ 8,102,000	\$ 8,827,000	\$ 9,546,000	\$ 10,324,000	\$ 11,165,000	\$ 12,075,000	\$ 13,059,000	\$ 14,123,000	\$ 15,274,000	\$ 16,519,000	\$ 17,865,000	\$ 19,321,000	\$ 20,896,000	\$ 22,599,000	\$ 24,441,000	\$ 26,433,000	\$ 28,587,000	\$ 30,917,000	\$ 33,437,000	
WWPM16	Annual ROW Relocations - WW Collection Mains	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WWPM17	Subtotal - Collection Mains Replacement	\$ -	\$ 5,100,000	\$ 5,516,000	\$ 5,066,000	\$ 6,452,000	\$ 6,078,000	\$ 7,547,000	\$ 8,102,000	\$ 8,827,000	\$ 9,546,000	\$ 10,324,000	\$ 11,165,000	\$ 12,075,000	\$ 13,059,000	\$ 14,123,000	\$ 15,274,000	\$ 16,519,000	\$ 17,865,000	\$ 19,321,000	\$ 20,896,000	\$ 22,599,000	\$ 24,441,000	\$ 26,433,000	\$ 28,587,000	\$ 30,917,000	\$ 33,437,000	
WWPM18	Opel Basin Lift Station	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WWPM19	Moringstar Sewer Main Extension	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
WWPM20	Moringstar North Branch Main Extension	\$ -																										

APPENDIX B:
ANNUAL CIP SNAPSHOTS

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Bentonville Water Utilities

CIP Year 2025

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WASTEWATER MAINS				
<i><u>Interceptor Mains - Replacement</u></i>				
WWM01	Vaughn-Spring Creek SW Regional Airport Blvd Basin Alt. 1	Pre-Construction Professional Services, Acquisition, Construction	\$1,997,000	Development Fee
WWM03	Shewmaker Basin Phase 1 (SM-25.1)	Pre-Construction Professional Services, Acquisition	\$992,000	Development Fee
WWM04	Shewmaker Basin Phase 2 (SM-25.2)	Pre-Construction Professional Services, Acquisition	\$2,481,000	Development Fee
WWM05	Town Branch Basin West (TB 25.1 and TB 45.1)	Pre-Construction Professional Services	\$581,000	Development Fee
WWM06	Town Branch Basin East (TB-25.2, TB-30.1, TB-40.1 and TB-45.2)	Pre-Construction Professional Services	\$921,000	Development Fee
WWM02	SL-25.1: Replace 7633' of 12" main with 18/24"	Pre-Construction Professional Services	\$821,000	Development Fee
<i><u>Interceptor Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITIES				
<i><u>Lift Stations - Upgrades</u></i>				
WW02	SL-South Lift Station Option 2, Part 1	Pre-Construction Professional Services	\$1,998,000	Development Fee
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$167,000	TBD
WW01	WRRF Upgrades	Pre-Construction Professional Services, Construction	\$152,759,000	SRF/Development Fee
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$162,717,000



Bentonville Water Utilities

CIP Year 2026

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Transmission Mains - New</u></i>				
WD01	48" Supply Transmission Main Extension	Construction Professional Services, Construction	\$15,330,000	SRF
WD02	East Loop 24" Moberly to Hwy 102 tank site	Construction Professional Services, Construction	\$7,849,000	TBD
WD06	Western Corridor Transmission Main 48"	Pre-Construction Professional Services, Acquisition	\$13,052,000	TBD
<i><u>Transmission Mains - New Subtotal</u></i>				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains	Construction	\$7,700,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains	Construction	\$2,500,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - New</u></i>				
WD03	Northeast Elevated Storage Tank - 2 MG	Construction Professional Services, Construction	\$16,701,000	TBD
<i><u>Tanks & Pump Stations - New Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WD05	I Street GST - 6 MG	Pre-Construction Professional Services	\$3,118,000	TBD
WDA-UTP	Annual Tank/Pump Station Upgrades	Construction	\$100,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains	Construction	\$5,100,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
<i><u>Interceptor Mains - Replacement</u></i>				
WWM07	Shell Basin - west of 443-5263 (Thornberry LS)	Pre-Construction Professional Services, Acquisition	\$1,045,000	Development Fee
WWM08	NWA Regional Airport Basin, Southbound gravity line (Old Farm Gravity)	Pre-Construction Professional Services, Acquisition	\$160,000	Development Fee
WWM03	Shewmaker Basin Phase 1 (SM-25.1)	Construction Professional Services, Construction	\$8,580,000	Development Fee
WWM04	Shewmaker Basin Phase 2 (SM-25.2)	Construction Professional Services, Construction	\$23,422,000	Development Fee
WWM05	Town Branch Basin West (TB 25.1 and TB 45.1)	Construction Professional Services, Construction	\$6,948,000	Development Fee
WWM06	Town Branch Basin East (TB-25.2, TB-30.1, TB-40.1 and TB-45.2)	Construction Professional Services, Construction	\$11,016,000	Development Fee
WWM02	SL-25.1: Replace 7633' of 12" main with 18/24"	Acquisition	\$222,000	Development Fee
WWM09	South Lift Station Basin SL-25.2: Replace 11916' of 8/12/18" main with 18/24"	Pre-Construction Professional Services, Acquisition	\$1,508,000	Development Fee
WWM10	SL-30.1: Replace 1872' of 18" main with 24/30"	Pre-Construction Professional Services, Acquisition, Construction Professional Services, Construction	\$4,505,000	Development Fee
<i><u>Interceptor Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITIES				
<i><u>Lift Stations - New</u></i>				
WW03	Old Farm LS-NWA Natl Airport Basin East Improv Alt 2 (New LS, FM, Gravity Main)	Pre-Construction Professional Services	\$454,000	Development Fee
<i><u>Lift Stations - New Subtotal</u></i>				
<i><u>Lift Stations - Upgrades</u></i>				
WW02	SL-South Lift Station Option 2, Part 1	Acquisition	\$256,000	Development Fee
WWA-LSU	Annual Lift Station Upgrades	Construction	\$200,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WRRF Upgrades	Construction	\$588,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				
\$130,354,000				



Bentonville Water Utilities

CIP Year 2027

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Transmission Mains - New</u></i>				
WD04A	Transmission Main - 24" (to the SW Elevated Storage Tank)	Pre-Construction Professional Services, Acquisition	\$2,049,000	TBD
WD07A	Transmission Main - 36" (connecting to SW GST)	Pre-Construction Professional Services, Acquisition	\$3,475,000	TBD
<i><u>Transmission Mains - New Subtotal</u></i>				\$5,524,000
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$8,328,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				\$8,328,000
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$2,704,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				\$2,704,000
Tanks & Pump Stations - New				
WD04B	Southwest Elevated Storage Tank - 2 MG	Pre-Construction Professional Services	\$2,364,000	TBD
WD07B	SW GST & Pump Station - 6 MG	Pre-Construction Professional Services, Acquisition	\$7,922,000	TBD
<i><u>Tanks & Pump Stations - New Subtotal</u></i>				\$10,286,000
Tanks & Pump Stations - Upgrades				
WD05	I Street GST - 6 MG	Construction Professional Services, Construction	\$24,555,000	TBD
WDA-UTP	Annual Tank/Pump Station Upgrades		\$110,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				\$24,665,000
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$5,516,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				\$5,516,000
<i><u>Interceptor Mains - Replacement</u></i>				
WWM07	Shell Basin - west of 443-5263 (Thornberry LS)	Construction Professional Services, Construction	\$12,712,000	Development Fee
WWM08	NWA Regional Airport Basin, Southbound gravity line (Old Farm Gravity)	Construction Professional Services, Construction	\$1,940,000	Development Fee
WWM02	SL-25.1: Replace 7633' of 12" main with 18/24"	Construction Professional Services, Construction	\$10,190,000	Development Fee
WWM09	South Lift Station Basin SL-25.2: Replace 11916' of 8/12/18" main with 18/24"	Construction Professional Services, Construction	\$14,597,000	Development Fee
<i><u>Interceptor Mains - Replacement Subtotal</u></i>				\$39,439,000
WASTEWATER FACILITIES				
<i><u>Lift Stations - New</u></i>				
WW03	Old Farm LS-NWA Natl Airport Basin East Improv Alt 2 (New LS,FM,Gravity Main)	Construction Professional Services, Construction	\$3,666,000	Development Fee
<i><u>Lift Stations - New Subtotal</u></i>				\$3,666,000
<i><u>Lift Stations - Upgrades</u></i>				
WW02	SL-South Lift Station Option 2, Part 1	Construction Professional Services, Construction	\$15,936,000	Development Fee
WWA-LSU	Annual Lift Station Upgrades		\$219,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				\$16,155,000
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$197,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				\$197,000
CIP Total				
\$116,480,000				



Bentonville Water Utilities

CIP Year 2028

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Transmission Mains - New</u></i>				
WD06	Western Corridor Transmission Main 48"	Construction Professional Services, Construction	\$79,113,000	TBD
WD04A	Transmission Main - 24" (to the SW Elevated Storage Tank)	Construction Professional Services, Construction	\$11,791,000	TBD
WD07A	Transmission Main - 36" (connecting to SW GST)	Construction Professional Services, Construction	\$20,004,000	TBD
WD08	Northeast Loop Phase I - 24"	Pre-Construction Professional Services, Acquisition	\$856,000	TBD
<i><u>Transmission Mains - New Subtotal</u></i>				\$111,764,000
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$9,007,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				\$9,007,000
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$2,924,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				\$2,924,000
<i><u>Tanks & Pump Stations - New</u></i>				
WD04B	Southwest Elevated Storage Tank - 2 MG	Construction Professional Services, Construction	\$18,612,000	TBD
WD07B	SW GST & Pump Station - 6 MG	Construction Professional Services, Construction	\$61,534,000	TBD
<i><u>Tanks & Pump Stations - New Subtotal</u></i>				\$80,146,000
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$121,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				\$121,000
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$5,966,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				\$5,966,000
<i><u>Interceptor Mains - New</u></i>				
WWM11	Central Park Sewer Main Extension	Pre-Construction Professional Services, Acquisition	\$550,000	Development Fee
<i><u>Interceptor Mains - New Subtotal</u></i>				\$550,000
<i><u>Interceptor Mains - Replacement</u></i>				
WWM12	MK-40.1: Replace 2214' of 12" main with 18"	Pre-Construction Professional Services, Acquisition, Construction Professional Services, Construction	\$2,664,000	Development Fee
WWM13	MK-45.1: Replace 1237' of 18" main with 24"	Pre-Construction Professional Services, Acquisition, Construction Professional Services, Construction	\$4,360,000	Development Fee
<i><u>Interceptor Mains - Replacement Subtotal</u></i>				\$7,024,000
WASTEWATER FACILITIES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$240,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				\$240,000
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$162,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				\$162,000
CIP Total				\$217,904,000



Bentonville Water Utilities

CIP Year 2029

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Transmission Mains - New</u></i>				
WD08	Northeast Loop Phase I - 24"	Construction Professional Services, Construction Pre-Construction Professional Services,	\$7,227,000	TBD
WD09	Central Transmission Main - 24"	Acquisition	\$1,521,000	TBD
<i><u>Transmission Mains - New Subtotal</u></i>				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$9,741,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$3,162,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$133,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$6,452,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
<i><u>Interceptor Mains - New</u></i>				
WWM11	Central Park Sewer Main Extension	Construction Professional Services, Construction	\$3,753,000	Development Fee
<i><u>Interceptor Mains - New Subtotal</u></i>				
WASTEWATER FACILITIES				
<i><u>Lift Stations - Upgrades</u></i>				
WW04	SL-South Lift Station Option 2, Part 2	Pre-Construction Professional Services	\$784,000	Development Fee
WWA-LSU	Annual Lift Station Upgrades		\$263,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$286,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$33,322,000



Bentonville Water Utilities

CIP Year 2030

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Transmission Mains - New</u></i>				
WD09	Central Transmission Main - 24"	Construction Professional Services, Construction	\$8,756,000	TBD
WD10	Northeast Loop Phase II - 24"	Pre-Construction Professional Services, Acquisition	\$2,025,000	TBD
	<i><u>Transmission Mains - New Subtotal</u></i>		\$10,781,000	
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$10,535,000	TBD
	<i><u>Distribution Mains - Replacement Subtotal</u></i>		\$10,535,000	
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$3,420,000	TBD
	<i><u>Transmission Mains - Replacement Subtotal</u></i>		\$3,420,000	
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$146,000	TBD
	<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>		\$146,000	
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$6,978,000	TBD
	<i><u>Collection Mains - Replacement Subtotal</u></i>		\$6,978,000	
<i><u>Interceptor Mains - New</u></i>				
WWM14	Opal Road Basin	Pre-Construction Professional Services, Acquisition	\$383,000	Development Fee
WWM15	Morningstar Sewer Main Extension	Pre-Construction Professional Services, Acquisition	\$1,434,000	Development Fee
	<i><u>Interceptor Mains - New Subtotal</u></i>		\$1,817,000	
<i><u>Interceptor Mains - Replacement</u></i>				
WWM16	NWA National Airport Basin, Southwest	Pre-Construction Professional Services, Acquisition	\$174,000	Development Fee
WWM17	MK-25.1: Replace 3167' of 8/10" main with 12"	Pre-Construction Professional Services, Acquisition, Construction Professional Services, Construction	\$3,107,000	Development Fee
WWM18	MK-35.1: Replace 462' of 18" main with 24"	Pre-Construction Professional Services, Acquisition, Construction Professional Services, Construction	\$1,106,000	Development Fee
	<i><u>Interceptor Mains - Replacement Subtotal</u></i>		\$4,387,000	
WASTEWATER FACILITIES				
<i><u>Lift Stations - Upgrades</u></i>				
WW05	MK-Turner Lift Station	Pre-Construction Professional Services, Construction Professional Services, Construction	\$612,000	Development Fee
WW04	SL-South Lift Station Option 2, Part 2	Construction Professional Services, Construction	\$6,145,000	Development Fee
WWA-LSU	Annual Lift Station Upgrades		\$288,000	
	<i><u>Lift Stations - Upgrades Subtotal</u></i>		\$7,045,000	
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$228,000	TBD
	<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>		\$228,000	
CIP Total				\$45,337,000



Bentonville Water Utilities

CIP Year 2031

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Transmission Mains - New</u></i>				
WD10	Northeast Loop Phase II - 24"	Construction Professional Services, Construction	\$11,653,000	TBD
<i><u>Transmission Mains - New Subtotal</u></i>				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$11,394,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$3,699,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$160,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$7,547,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
<i><u>Interceptor Mains - New</u></i>				
WWM14	Opal Road Basin	Construction Professional Services, Construction	\$3,492,000	Development Fee
WWM15	Morningstar Sewer Main Extension	Construction Professional Services, Construction	\$8,924,000	Development Fee
WWM19	Morningstar North Branch Sewer Main Extension	Pre-Construction Professional Services, Acquisition	\$419,000	Development Fee
<i><u>Interceptor Mains - New Subtotal</u></i>				
<i><u>Interceptor Mains - Replacement</u></i>				
WWM16	NWA National Airport Basin, Southwest	Construction Professional Services, Construction	\$1,527,000	Development Fee
<i><u>Interceptor Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITIES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$315,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$161,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$49,291,000



Bentonville Water Utilities

CIP Year 2032

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$12,323,000	TBD
	<i><u>Distribution Mains - Replacement Subtotal</u></i>		\$12,323,000	
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$4,000,000	TBD
	<i><u>Transmission Mains - Replacement Subtotal</u></i>		\$4,000,000	
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$175,000	TBD
	<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>		\$175,000	
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$8,162,000	TBD
	<i><u>Collection Mains - Replacement Subtotal</u></i>		\$8,162,000	
<i><u>Interceptor Mains - New</u></i>				
WWM19	Morningstar North Branch Sewer Main Extension	Construction Professional Services, Construction	\$3,480,000	Development Fee
WWM20	Haxton Rd Basin 10,000' of 12" main	Pre-Construction Professional Services, Acquisition	\$637,000	Development Fee
	<i><u>Interceptor Mains - New Subtotal</u></i>		\$4,117,000	
<i><u>Interceptor Mains - Replacement</u></i>				
WWM21	MK-40.2: Replace 6179' of 24" main with 30"	Pre-Construction Professional Services, Acquisition	\$1,041,000	Development Fee
	<i><u>Interceptor Mains - Replacement Subtotal</u></i>		\$1,041,000	
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$345,000	TBD
	<i><u>Lift Stations - Upgrades Subtotal</u></i>		\$345,000	
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$252,000	TBD
	<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>		\$252,000	
CIP Total				
			\$30,415,000	



Bentonville Water Utilities

CIP Year 2033

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$13,327,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$4,326,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$192,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$8,827,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
<i><u>Interceptor Mains - New</u></i>				
WWM20	Haxton Rd Basin 10,000' of 12" main	Construction Professional Services, Construction	\$5,641,000	Development Fee
<i><u>Interceptor Mains - New Subtotal</u></i>				
<i><u>Interceptor Mains - Replacement</u></i>				
WWM21	MK-40.2: Replace 6179' of 24" main with 30"	Construction Professional Services, Construction	\$9,771,000	Development Fee
<i><u>Interceptor Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITIES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$378,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$264,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$42,726,000



Bentonville Water Utilities

CIP Year 2034

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$14,413,000	TBD
	<i><u>Distribution Mains - Replacement Subtotal</u></i>		\$14,413,000	
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$4,679,000	TBD
	<i><u>Transmission Mains - Replacement Subtotal</u></i>		\$4,679,000	
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$210,000	TBD
	<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>		\$210,000	
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$9,546,000	TBD
	<i><u>Collection Mains - Replacement Subtotal</u></i>		\$9,546,000	
<i><u>Interceptor Mains - Replacement</u></i>				
WWM22	Shell Basin - east of 443-5263 (Thornberry LS)	Pre-Construction Professional Services, Acquisition	\$1,022,000	Development Fee
WWM23	MK-45.2: Replace 717' of 24" main with 30"	Pre-Construction Professional Services, Acquisition, Construction Professional Services, Construction	\$2,740,000	Development Fee
	<i><u>Interceptor Mains - Replacement Subtotal</u></i>		\$3,762,000	
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$414,000	TBD
	<i><u>Lift Stations - Upgrades Subtotal</u></i>		\$414,000	
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$278,000	TBD
	<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>		\$278,000	
CIP Total				\$33,302,000



Bentonville Water Utilities

CIP Year 2035

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$15,588,000	TBD
	<i><u>Distribution Mains - Replacement Subtotal</u></i>		\$15,588,000	
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$5,060,000	TBD
	<i><u>Transmission Mains - Replacement Subtotal</u></i>		\$5,060,000	
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$230,000	TBD
	<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>		\$230,000	
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$10,324,000	TBD
	<i><u>Collection Mains - Replacement Subtotal</u></i>		\$10,324,000	
<i><u>Interceptor Mains - Replacement</u></i>				
WWM22	Shell Basin - east of 443-5263 (Thornberry LS)	Construction Professional Services, Construction	\$12,418,000	Development Fee
	<i><u>Interceptor Mains - Replacement Subtotal</u></i>		\$12,418,000	
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$454,000	TBD
	<i><u>Lift Stations - Upgrades Subtotal</u></i>		\$454,000	
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$292,000	TBD
	<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>		\$292,000	
CIP Total				\$44,366,000



Bentonville Water Utilities

CIP Year 2036

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$16,858,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$5,472,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$252,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$11,165,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$497,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$306,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$34,550,000



Bentonville Water Utilities

CIP Year 2037

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$18,232,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$5,918,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$276,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$12,075,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$544,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$321,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				
\$37,366,000				



Bentonville Water Utilities

CIP Year 2038

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$19,718,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$6,400,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$302,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$13,059,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$596,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$338,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$40,413,000



Bentonville Water Utilities

CIP Year 2039

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$21,325,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$6,922,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$331,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$14,123,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$653,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$354,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total			\$43,708,000	



Bentonville Water Utilities

CIP Year 2040

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$23,063,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$7,486,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$363,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$15,274,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$715,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$372,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$47,273,000



Bentonville Water Utilities

CIP Year 2041

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$24,943,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$8,096,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$398,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$16,519,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$783,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$391,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$51,130,000



Bentonville Water Utilities

CIP Year 2042

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$26,976,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$8,756,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$436,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$17,865,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$858,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$410,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$55,301,000



Bentonville Water Utilities

CIP Year 2043

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$29,175,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$9,470,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$478,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$19,321,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$940,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$431,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				
\$59,815,000				



Bentonville Water Utilities

CIP Year 2044

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$31,553,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$10,242,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$524,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$20,896,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$1,030,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$452,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$64,697,000



Bentonville Water Utilities

CIP Year 2045

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$34,125,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$11,077,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$574,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$22,599,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$1,128,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$475,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$69,978,000



Bentonville Water Utilities

CIP Year 2046

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$36,906,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$11,980,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$629,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$24,441,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$1,236,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$499,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$75,691,000



Bentonville Water Utilities

CIP Year 2047

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$39,914,000	TBD
	<i><u>Distribution Mains - Replacement Subtotal</u></i>		\$39,914,000	
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$12,956,000	TBD
	<i><u>Transmission Mains - Replacement Subtotal</u></i>		\$12,956,000	
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$689,000	TBD
	<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>		\$689,000	
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$26,433,000	TBD
	<i><u>Collection Mains - Replacement Subtotal</u></i>		\$26,433,000	
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$1,354,000	TBD
	<i><u>Lift Stations - Upgrades Subtotal</u></i>		\$1,354,000	
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$524,000	TBD
	<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>		\$524,000	
CIP Total				\$81,870,000



Bentonville Water Utilities

CIP Year 2048

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$43,167,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$14,012,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$755,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$28,587,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$1,483,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$550,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$88,554,000



Bentonville Water Utilities

CIP Year 2049

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$46,685,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$15,154,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$827,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$30,917,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$1,625,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$577,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total				\$95,785,000



Bentonville Water Utilities

CIP Year 2050

ID	PROJECT NAME	PHASE	BUDGET	FUNDING
WATER DISTRIBUTION				
<i><u>Distribution Mains - Replacement</u></i>				
WDA-RPD	Annual Replacements - Water Distribution Mains		\$50,490,000	TBD
<i><u>Distribution Mains - Replacement Subtotal</u></i>				
<i><u>Transmission Mains - Replacement</u></i>				
WDA-RPT	Annual Replacements - Water Transmission Mains		\$16,389,000	TBD
<i><u>Transmission Mains - Replacement Subtotal</u></i>				
<i><u>Tanks & Pump Stations - Upgrades</u></i>				
WDA-UTP	Annual Tank/Pump Station Upgrades		\$906,000	TBD
<i><u>Tanks & Pump Stations - Upgrades Subtotal</u></i>				
WASTEWATER MAINS				
<i><u>Collection Mains - Replacement</u></i>				
WWMA-RPC	Annual Replacements WW Collection Mains		\$33,437,000	TBD
<i><u>Collection Mains - Replacement Subtotal</u></i>				
WASTEWATER FACILITES				
<i><u>Lift Stations - Upgrades</u></i>				
WWA-LSU	Annual Lift Station Upgrades		\$1,780,000	TBD
<i><u>Lift Stations - Upgrades Subtotal</u></i>				
<i><u>Water Resource Recovery Facility (WRRF)</u></i>				
WWA-WRU	Annual WWRF Upgrades		\$606,000	TBD
<i><u>Water Resource Recovery Facility (WRRF) Subtotal</u></i>				
CIP Total			\$103,608,000	

APPENDIX C:
PROJECT INFORMATION FORMS

Bookmark Summary

[WD01](#)
[WD02](#)
[WD03](#)
[WD04A](#)
[WD04B](#)
[WD05](#)
[WD06](#)
[WD07](#)
[WD07B](#)
[WD08](#)
[WD09](#)
[WD10](#)
[WDA-RPD](#)
[WDA-RWD](#)
[WDA-RPT](#)
[WDA-RWT](#)
[WDA-UTP](#)
[WWM01](#)
[WWM02](#)
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[WWM11](#)
[WWM12](#)
[WWM13](#)
[WWM14](#)
[WWM15](#)
[WWM16](#)
[WWM17](#)
[WWM18](#)
[WWM19](#)
[WWM20](#)

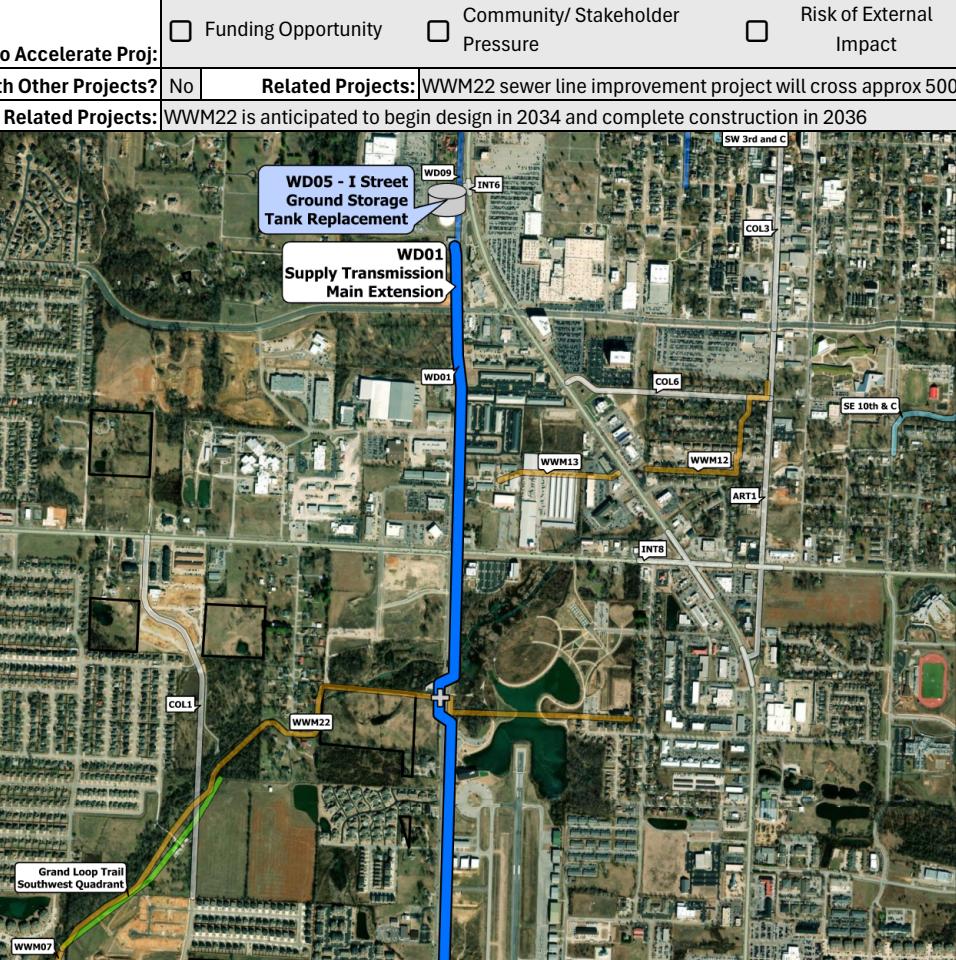
WWM21
WWM22
WWM23
WWMA-RPC
WWMA-RWC
WW01
WW02
WW03
WW04
WW05
WWA-LSU
WWA-WRU



Bentonville Water Utilities

WD01

PROJECT OVERVIEW

CIP Category:	WATER DISTRIBUTION		Project Number:		
CIP Subcategory:	Transmission Mains - New				
Project Name:	48" Supply Transmission Main Extension				
Project Description:	Project includes installation of new 48" transmission main along I Street from 28th Street SW to 8th Street SW, where it will connect to the I Street Pump Station (Garver Water Master Plan CIP Project 1).		EXECUTIVE SUMMARY Total Escalated Project Cost: \$ 17,854,000 Project Needed by: 2028 Status: In Bidding Process		
Project Objectives:	Connect the existing 48" line from Beaver Water District and extend 48" pipe to the I Street Pump/Tank Station to provide better system connectivity and improved flow.		BWU Staff Contact Information Name: _____ Phone: _____ Email: _____		
Finance Options:	<input checked="" type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Grant <input type="checkbox"/> TBD		<input type="checkbox"/> Cash Reserves <input type="checkbox"/> Development Fee <input type="checkbox"/> WIFIA <input type="checkbox"/> Other		
Planned Project Delivery:	Design Bid Build				
JUSTIFICATION					
Key Project Drivers:	Reduce Head Loss, Increase Maximum System Capacity				
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input checked="" type="checkbox"/> Other: Capacity limitations during peak demands				
Sequence with Other Projects?	No	Related Projects:	WWM22 sewer line improvement project will cross approx 500ft N of Thaden Airfield Terminal building		
Status of Related Projects:	WWM22 is anticipated to begin design in 2034 and complete construction in 2036				
 <div style="position: absolute; top: 450px; left: 800px;"> Legend  Project Overlay Points </div> <div style="position: absolute; top: 620px; left: 800px;"> This figure is for planning purposes only, not for construction </div> <div style="position: absolute; top: 750px; left: 800px;">  </div> <div style="position: absolute; top: 800px; left: 800px;">  0 500 1,000 2,000 Feet </div> <div style="position: absolute; top: 850px; left: 800px;">  </div>					
Additional Notes:	2024 Master Plan Update by Garver estimates capacity threshold to trigger the project necessity would be 26.5 MGD MDD				

PLANNED SCHEDULE

Phase	Award Dates	Completion Dates	Total Months
Professional Services:	Mar-24	Nov-25	20
Easement/ROW Acquisition:	Aug-24	Mar-25	6
Construction:	Jan-26	Apr-27	15
Status:	In Bidding Process		38

COST AND FUNDING

Opinion of Probable Cost				AACE Class:	1
Item	Description	Quantity	Unit	Unit Price	Total
1	48" Water Line Under Pavement	7,200	LF	\$ 865	\$ 6,228,000
2	48" Water Line Under Grass/Sod	1,350	LF	\$ 800	\$ 1,080,000
3	48" X 36" Tee (Welded Steel)	1	EA	\$ 24,000	\$ 24,000
4	48" X 24" Tee (Welded Steel)	1	EA	\$ 18,000	\$ 18,000
5	48" X 24" Reducer (Welded Steel)	1	EA	\$ 16,000	\$ 16,000
6	Connect to Existing 48" Pccp Water Line	1	EA	\$ 45,000	\$ 45,000
7	66" Steel Casing, 48" Steel Carrier, Trenchless	593	LF	\$ 3,300	\$ 1,957,000
8	Flowable Fill	175	CY	\$ 200	\$ 35,000
9	36" Water Line Under Pavement	24	LF	\$ 650	\$ 16,000
10	36" Water Line Under Grass/Sod	80	LF	\$ 600	\$ 48,000
11	24" Water Line Under Pavement	53	LF	\$ 430	\$ 23,000
12	Connect to Existing 24" Di Water Line	1	EA	\$ 22,000	\$ 22,000
13	54" Steel Casing, 36" Dip Carrier, Trenchless	92	LF	\$ 2,700	\$ 248,000
14	Encasement of Existing Sewer Line	72	LF	\$ 250	\$ 18,000
15	Connect to Existing 6" Hydrant Lead	1	EA	\$ 2,500	\$ 3,000
16	16" Water Line Under Grass/Sod	70	LF	\$ 285	\$ 20,000
17	16X16" Tapping Sleeve and Valve	1	EA	\$ 25,000	\$ 25,000
18	8" Blow off Valves, incl. Vault (inline)	3	EA	\$ 43,000	\$ 129,000
19	6" Combination Air Release Valves, incl. Vault (inline)	1	EA	\$ 30,000	\$ 30,000
20	8" Blow off Valves, incl. Vault (offset)	4	EA	\$ 50,000	\$ 200,000
21	6" Combination Air Release Valves, incl. Vault (offset)	6	EA	\$ 35,000	\$ 210,000
22	Leak Detection Assembly	1	EA	\$ 40,000	\$ 40,000
23	Full Depth Pavement Repair	6,736	SY	\$ 110	\$ 741,000
24	Sidewalk	1,466	SY	\$ 90	\$ 132,000
25	Mill and Overlay	17,415	SY	\$ 55	\$ 958,000
26	Curb and Gutter Replacement	1,209	LF	\$ 65	\$ 79,000
27	Block Sodding Surface Restoration	2,913	SY	\$ 7	\$ 20,000
28	48" Isolation Valves	4	EA	\$ 120,000	\$ 480,000
29	48" Butterfly Valve (Provided By BWU)	1	EA	\$ 20,000	\$ 20,000
30	36" Isolation Valves	2	EA	\$ 85,000	\$ 170,000
31	24" Gate Valve	1	EA	\$ 45,000	\$ 45,000
32	Ductile Iron Fittings	4	TONS	\$ 20,000	\$ 80,000
33	Cathodic Protection	1	LS	\$ 200,000	\$ 200,000
34	Traffic Control	1	LS	\$ 250,000	\$ 250,000
35	Concrete Generator Pad (14'X10')	15	SY	\$ 400	\$ 6,000
36	Generator With Ats, 20 Kw	1	EA	\$ 18,000	\$ 18,000
37	Diesel Tank (500 Gal)	1	EA	\$ 10,000	\$ 10,000
38	24" Stainless Steel Waterline in Tiger Tank	8	LF	\$ 550	\$ 4,000
39	18" Stainless Steel Waterline in Tiger Tank	10	LF	\$ 425	\$ 4,000
40	Stainless Steel Fittings in Tiger Tank	0.5	TONS	\$ 12,000	\$ 6,000
41	24" Butterfly Valve With Modulating Capabilities	1	EA	\$ 55,000	\$ 55,000
42	Remote Electric Hydraulic Valve Actuator	1	EA	\$ 14,000	\$ 14,000
43	Connection of Actuator to Existing Scada System	1	EA	\$ 10,000	\$ 10,000
44	Tree Removal	8	EA	\$ 1,200	\$ 10,000
45	Clearing and Grubbing	1	LS	\$ 25,000	\$ 25,000
46	SWPPP	1	LS	\$ 50,000	\$ 50,000
47	Utility Relocation (2%)	1	LS	\$ 274,000	\$ 274,000
48	Arkansas Habitat Conservation Fund Payment for USFWS Coordination	1	LS	\$ 30,000	\$ 30,000
	Subtotal:				\$ 14,126,000
	Construction Contingency:	2.5%			\$ 353,000
	Construction Subtotal with Contingency:				\$ 14,479,000
	Pre-Construction Professional Services Cost:	8%			\$ 1,158,000
	Construction Professional Services Cost:	5%			\$ 724,000

	Acquisition Cost:	10%			\$ 1,448,000
			2025 TOTAL UNESCALATED PROJECT COSTS =		\$ 17,809,000
<i>Date for Cost Basis</i>	<i>Phase</i>		<i>Year Planned</i>		<i>Escalated Costs</i>
Nov-25	Pre-Construction Professional Services:		2024	\$	1,158,000
	Acquisition:		2024	\$	1,366,000
	Construction Professional Services:		2026	\$	730,000
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>		2026	\$	14,600,000
5.00%				TOTAL ESCALATED PROJECT COSTS =	\$ 17,854,000



Bentonville Water Utilities

WD02

PROJECT OVERVIEW

		Project Number: WD02			
CIP Category: WATER DISTRIBUTION		Project Number: WD02			
CIP Subcategory: Transmission Mains - New					
Project Name: East Loop 24" Moberly to Hwy 102 tank site					
Project Description: Project includes installation of a new 24" line (some of the path is parallel to I49) from the existing 24" line at Moberly Lane to North Water Tower Road, where it will connect to the existing 24" line near the Highway 102 Tank Site. (Garver Water Master Plan CIP Project 2).		EXECUTIVE SUMMARY			
		Total Escalated Project Cost: \$ 9,167,000			
		Project Needed by: 2028			
		Status:			
Project Objectives: Project will resolve the existing transmission capacity deficiency and provide capacity to meet the projected demands in the Core growth area.		BWU Staff Contact Information			
		Name:			
		Phone:			
		Email:			
Finance Options:		<input type="checkbox"/> State Revolving Funds	<input type="checkbox"/> Municipal Bonds	<input type="checkbox"/> Cash Reserves	<input type="checkbox"/> Development Fee
		<input type="checkbox"/> Grant	<input checked="" type="checkbox"/> TBD	<input type="checkbox"/> WIFIA	<input type="checkbox"/> Other
Planned Project Delivery:		JUSTIFICATION			
Key Project Drivers: Insufficient capacity, High velocities, Excessive head losses					
Triggers to Accelerate Proj:		<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:
Sequence with Other Projects? No		Related Projects: Overlaps with sewer line improvement project WWM23			
Status of Related Projects:					
Additional Notes:		Arkansas Department of Transportation (ARDOT) coordination and right-of-way/easement acquisition will likely be necessary for this water line. Portions of the alignment along Interstate-49 from Southeast 28th Street to the Arkansas Missouri Trail may need to be revised during detailed design based on the right-of-way and roadway alignments.			

PLANNED SCHEDULE							
Phase	Award Dates		Completion Dates		Total Months		
Professional Services:	Mar-24		Mar-25		12		
Easement/ROW Acquisition:	Jun-24		Dec-24		6		
Construction:	Jan-26		Apr-27		15		
Status:					38		
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	5		
Item	Description		Quantity	Unit	Unit Price		
1	Mobilization (5%)		1	LS	\$ 261,000		
2	Traffic Control		15	MO	\$ 6,000		
3	SWPPP (1%)		1	LS	\$ 52,500		
4	Clearing and Grubbing		2.98	AC	\$ 10,000		
5	Utility Relocation (2%)		1	LS	\$ 104,500		
6	24" Water Transmission Main by Open Cut		10,060	LF	\$ 360		
7	24" Water Main and 36" Steel Casing by Bore (Interstate 49)		500	LF	\$ 1,800		
8	24" Water Main and 36" Steel Casing by Bore (SE 14th Street)		250	LF	\$ 1,800		
9	24"x24" Waterline Connection		2	EA	\$ 31,000		
10	Trench Safety		10,060	LF	\$ 5		
11	Rock Excavation		402	CY	\$ 325		
	Subtotal:				\$ 5,757,000		
	Construction Contingency:		30%		\$ 1,727,000		
	Construction Subtotal with Contingency:				\$ 7,484,000		
	Pre-Construction Professional Services Cost:		9%		\$ 674,000		
	Construction Professional Services Cost:		4%		\$ 299,000		
	Acquisition Cost:		10%		\$ 748,000		
	2025 TOTAL UNESCALATED PROJECT COSTS =				\$ 9,205,000		
Date for Cost Basis	Phase		Year Planned		Escalated Costs		
Nov-25	Pre-Construction Professional Services:		2024		\$ 620,000		
	Acquisition:		2024		\$ 698,000		
	Construction Professional Services:		2026		\$ 302,000		
Annual Future Cost Escalation	Construction:		2026		\$ 7,547,000		
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 9,167,000		



Bentonville Water Utilities

WD03

PROJECT OVERVIEW

		Project Number: WD03	
CIP Category: WATER DISTRIBUTION		Project Number: WD03	
CIP Subcategory: Tanks & Pump Stations - New			
Project Name: Northeast Elevated Storage Tank - 2 MG			
Project Description: Project includes addition of a new 2-MG elevated storage tank (EST) at Highway 102 Tank Site on North Water Tower Road. This is in addition to the existing tank and on a multi-use site. (Garver Water Master Plan CIP Project 3)		EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$ 19,159,000	
		Project Needed by: 2028	
Project Objectives: Stabilize pressures and compensate for transmission capacity limitations during periods of peak demands. The additional storage volume will also contribute to emergency storage needed to keep pace with increasing average retail demands.		Status: Planned	
		BWU Staff Contact Information	
		Name: _____	
Phone: _____			
Email: _____			
Finance Options: <input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input checked="" type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other			
Planned Project Delivery:			
JUSTIFICATION			
Key Project Drivers: Pressure Stabilization, Capacity Limitation, Demand Growth, Emergency Storage			
Triggers to Accelerate Proj: <input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:			
Sequence with Other Projects? No		Related Projects: _____	
Status of Related Projects:			
Additional Notes: Garver CIP estimates capacity threshold to trigger the project necessity would be a retail ADD of 12.5 MGD			

PLANNED SCHEDULE									
Phase	Award Dates		Completion Dates		Total Months				
Professional Services:	Mar-24		Mar-25		12				
Easement/ROW Acquisition:	Jun-24		Dec-24		6				
Construction:	Jan-26		Jan-28		24				
Status:	Planned				46				
COST AND FUNDING									
Opinion of Probable Cost					AACE Class:				
Item	Description	Quantity	Unit	Unit Price	Total				
1	2 MG EST	1	LS	\$ 12,000,000	\$ 12,000,000				
2	Yard Piping	1	LS	\$ 250,000	\$ 250,000				
	<i>Subtotal:</i>				\$ 12,250,000				
	<i>Construction Contingency:</i>	30%			\$ 3,675,000				
	<i>Construction Subtotal with Contingency:</i>				\$ 15,925,000				
	<i>Pre-Construction Professional Services Cost:</i>	14%			\$ 2,230,000				
	<i>Construction Professional Services Cost:</i>	4%			\$ 637,000				
	<i>Acquisition Cost:</i>	87,120	SF	\$ 5	\$ 436,000				
	2025 TOTAL UNESCALATED PROJECT COSTS =								
<i>Date for Cost Basis</i>	<i>Phase</i>	<i>Year Planned</i>		<i>Escalated Costs</i>					
Nov-25	Pre-Construction Professional Services:	2024		\$ 2,051,000					
	Acquisition:	2024		\$ 407,000					
	Construction Professional Services:	2026		\$ 642,000					
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>	2026		\$ 16,059,000					
5.00%	TOTAL ESCALATED PROJECT COSTS =								
	\$ 19,159,000								



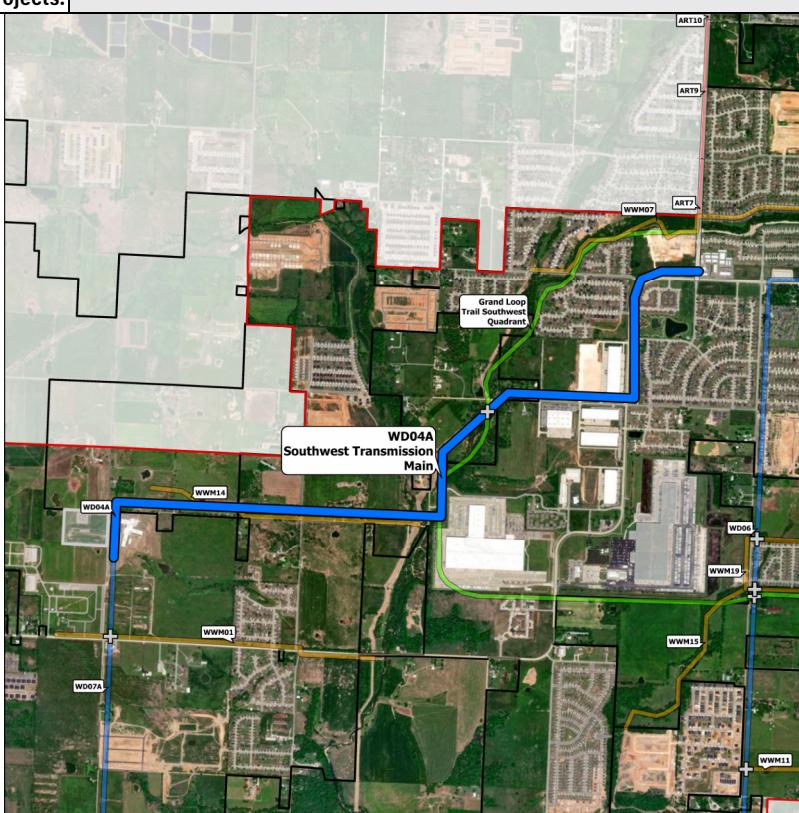
Bentonville Water Utilities

WD04A

PROJECT OVERVIEW

CIP Category:	WATER DISTRIBUTION	Project Number:		
CIP Subcategory:	Transmission Mains - New			
Project Name:	Transmission Main - 24" (to the SW Elevated Storage Tank)			
Project Description:	This project includes installation of a 24" transmission main along Opal Road from the 2 MG SW EST site to Southwest Regional Airport Boulevard, where it will connect to an existing 18" line. This is one piece of the included infrastructure for Garver Water Master Plan CIP Project 5, which also includes installation of a 2 MG EST (described in WD04B).		EXECUTIVE SUMMARY	
Project Objectives:	Improve pressure stability and compensate for transmission capacity limitations during peak demand periods by adding storage capacity on southwest side of service area. The additional storage volume will also contribute to emergency storage needed to keep pace with increasing retail demands. Proposed transmission main will resolve existing transmission limitations at the tank site and provide capacity to meet the projected demands in the area.		Total Escalated Project Cost:	\$ 13,840,000
Finance Options:	<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input checked="" type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other		Project Needed by:	2028
Planned Project Delivery:			Status:	Planned

JUSTIFICATION				
Key Project Drivers:	Capacity Limitation, Demand Growth			
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input checked="" type="checkbox"/> Other: Capacity Limitation			
Sequence with Other Projects?	Yes	Related Projects:	WD04B. Overlaps with sewer, road, and trail improvement projects.	
Status of Related Projects:				

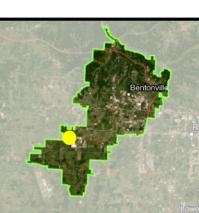


Legend
+ Project Overlap Points

This figure is for planning purposes only, not for construction



0 750 1,500 3,000 Feet



Additional Notes:

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-27	Jan-28		12			
Easement/ROW Acquisition:	Apr-27	Oct-27		6			
Construction:	Mar-28	Mar-30		24			
Status:	Planned			38			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class: 5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 350,500	\$ 351,000		
2	Traffic Control	24	MO	\$ 6,000	\$ 144,000		
3	SWPPP (1%)	1	LS	\$ 70,500	\$ 71,000		
4	Clearing and Grubbing	4.65	AC	\$ 10,000	\$ 47,000		
5	Utility Relocation (2%)	1	LS	\$ 140,500	\$ 141,000		
6	24" Water Transmission Main by Open Cut	16,885	LF	\$ 360	\$ 6,079,000		
7	24"x18" Waterline Connection	1	EA	\$ 24,000	\$ 24,000		
8	24"x12" Waterline Connection	2	EA	\$ 18,000	\$ 36,000		
9	Pavement Restoration	5,628	SY	\$ 100	\$ 563,000		
10	Trench Safety	16,885	LF	\$ 5	\$ 84,000		
11	Rock Excavation	675	CY	\$ 325	\$ 220,000		
	Subtotal:				\$ 7,760,000		
	Construction Contingency:	30%			\$ 2,328,000		
	Construction Subtotal with Contingency:				\$ 10,088,000		
	Pre-Construction Professional Services Cost:	9%			\$ 908,000		
	Construction Professional Services Cost:	4%			\$ 404,000		
	Acquisition Cost:	10%			\$ 1,009,000		
		2025 TOTAL UNESCALATED PROJECT COSTS =					
<i>Date for Cost Basis</i>	<i>Phase</i>	<i>Year Planned</i>		<i>Escalated Costs</i>			
Nov-25	Pre-Construction Professional Services:	2027		\$ 963,000			
	Acquisition:	2027		\$ 1,086,000			
	Construction Professional Services:	2028		\$ 454,000			
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>	2028		\$ 11,337,000			
5.00%		TOTAL ESCALATED PROJECT COSTS =					
		\$ 13,840,000					



Bentonville Water Utilities

WD04B

PROJECT OVERVIEW

CIP Category:

WATER DISTRIBUTION

Project Number:

CIP Subcategory:

Tanks & Pump Stations - New

Project Name:

Southwest Elevated Storage Tank - 2 MG

Project Description:

This project includes installation of a new 2-MG elevated storage tank (EST) on a City-owned site near Southwest Barron Road. This is one piece of the included infrastructure for Garver Water Master Plan CIP Project 5, which also includes installation of a 24" transmission main. (described in WD04A)

EXECUTIVE SUMMARY

Total Escalated Project Cost: \$ 20,976,000

Project Needed by: 2028

Status: Planned

Help stabilize pressures and compensate for transmission capacity limitations during periods of peak demands by adding additional storage capacity on the southwest side of the service area. The additional storage volume will also contribute to emergency storage needed to keep pace with increasing average retail demands. The proposed transmission main will resolve the existing transmission capacity limitations at the tank site and provide capacity to meet the projected demands in the area.

BWU Staff Contact Information

Name:

Phone:

Email:

Project Objectives:

State Revolving Funds Municipal Bonds Cash Reserves Development Fee

Finance Options:

Grant

TBD

WIFIA

Other

Planned Project Delivery:

JUSTIFICATION

Key Project Drivers:

Capacity Limitation, Demand Growth, Emergency Storage

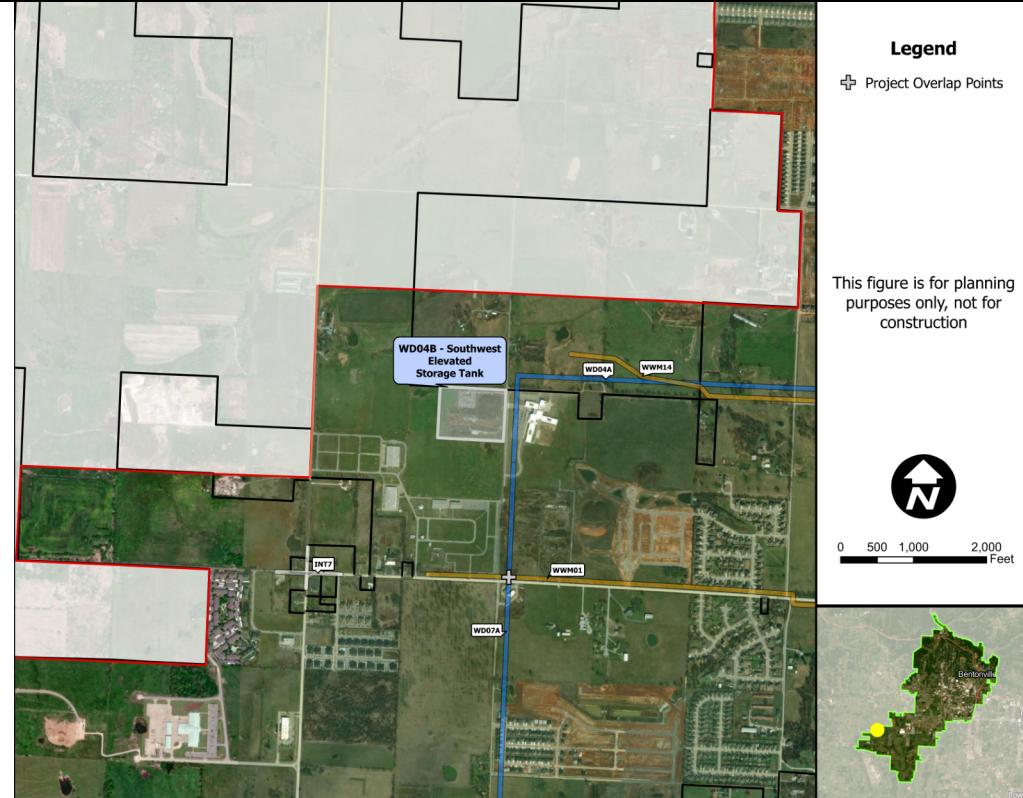
Triggers to Accelerate Proj:

Funding Opportunity Community/ Stakeholder Pressure Risk of External Impact Other: Capacity Limitation

Sequence with Other Projects?

Yes Related Projects: WD04A

Status of Related Projects:



Additional Notes: Garver CIP estimates capacity threshold to trigger the project necessity would be a retail ADD of 19.5 MGD

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-27	Jan-28		12			
Easement/ROW Acquisition:	Apr-27	Oct-27		6			
Construction:	Mar-28	Aug-29		18			
Status:	Planned			32			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class: 5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	2 MG EST	1	LS	\$ 12,000,000	\$ 12,000,000		
2	Yard Piping	1	LS	\$ 250,000	\$ 250,000		
	<i>Subtotal:</i>				\$ 12,250,000		
	<i>Construction Contingency:</i>	30%			\$ 3,675,000		
	<i>Construction Subtotal with Contingency:</i>				\$ 15,925,000		
	<i>Pre-Construction Professional Services Cost:</i>	14%			\$ 2,230,000		
	<i>Construction Professional Services Cost:</i>	4%			\$ 637,000		
	<i>Acquisition Cost:</i>	N/A					
					2025 TOTAL UNESCALATED PROJECT COSTS = \$ 18,792,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2027		\$ 2,364,000			
	Acquisition:	2027		\$ -			
	Construction Professional Services:	2028		\$ 716,000			
Annual Future Cost Escalation	Construction:	2028		\$ 17,896,000			
5.00%		TOTAL ESCALATED PROJECT COSTS =		\$ 20,976,000			



Bentonville Water Utilities

WD05

PROJECT OVERVIEW

		Project Number: WD05	
CIP Category: WATER DISTRIBUTION		Project Number: WD05	
CIP Subcategory: Tanks & Pump Stations - Upgrades			
Project Name: I Street GST - 6 MG			
Project Description: This project includes installation of a new 6-MG ground storage tank (GST) at the existing I Street Tank Site, where it will replace the existing 3-MG GST. It is anticipated that yard piping improvements and a pump station with an operation center upgrade will also be completed as part of this project. (Garver Water Master Plan CIP Project 6)		EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$ 27,673,000	
		Project Needed by: 2028	
		Status: Planned	
Project Objectives: Provide additional 3 MG of emergency storage. PS improvements will address limitations of the existing configuration and allow more operational flexibility for filling and pumping operations.		BWU Staff Contact Information	
		Name: _____	
		Phone: _____	
		Email: _____	
Finance Options: <input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input checked="" type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other			
Planned Project Delivery:		JUSTIFICATION	
Key Project Drivers: Projected Demand Growth, Increase Storage Capacity			
Triggers to Accelerate Proj: <input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input checked="" type="checkbox"/> Other: Capacity Limitation			
Sequence with Other Projects? No		Related Projects: _____	
Status of Related Projects:		<img alt="Aerial map of Bentonville, Arkansas, showing the location of the I Street Ground Storage Tank Replacement project. The project area is outlined in blue and labeled 'WD05 - I Street Ground Storage Tank Replacement'. The map includes street names like NW 2nd & C, NW 3rd and C, NW Trails End and C, and various water main labels (WWM21, WWM99, INT10, INT6, INT9, WDO1, WWM13, WWM12, ART1, INT8, INT5, COL1, COL3, COL11, COL12, INT11, INT12, INT13, INT14, INT15, INT16, INT17, INT18, INT19, INT20, INT21, INT22, INT23, INT24, INT25, INT26, INT27, INT28, INT29, INT30, INT31, INT32, INT33, INT34, INT35, INT36, INT37, INT38, INT39, INT40, INT41, INT42, INT43, INT44, INT45, INT46, INT47, INT48, INT49, INT50, INT51, INT52, INT53, INT54, INT55, INT56, INT57, INT58, INT59, INT60, INT61, INT62, INT63, INT64, INT65, INT66, INT67, INT68, INT69, INT70, INT71, INT72, INT73, INT74, INT75, INT76, INT77, INT78, INT79, INT80, INT81, INT82, INT83, INT84, INT85, INT86, INT87, INT88, INT89, INT90, INT91, INT92, INT93, INT94, INT95, INT96, INT97, INT98, INT99, INT100, INT101, INT102, INT103, INT104, INT105, INT106, INT107, INT108, INT109, INT110, INT111, INT112, INT113, INT114, INT115, INT116, INT117, INT118, INT119, INT120, 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PLANNED SCHEDULE								
Phase	Award Dates	Completion Dates	Total Months					
Professional Services:	Jan-26	Jan-27	12					
Easement/ROW Acquisition:	Apr-26	Oct-26	6					
Construction:	Mar-27	Aug-28	18					
Status:	Planned			32				
COST AND FUNDING								
Opinion of Probable Cost					AACE Class:			
Item	Description	Quantity	Unit	Unit Price	Total			
1	6 MG GST	1	LS	\$ 10,500,000	\$ 10,500,000			
2	Demolition of Existing 3 MG GST	1	LS	\$ 240,000	\$ 240,000			
3	Pump Station and Operation Center Upgrades	1	LS	\$ 6,000,000	\$ 6,000,000			
4	Site Piping Improvements	1	LS	\$ 250,000	\$ 250,000			
	Subtotal:				\$ 16,990,000			
	Construction Contingency:	30%			\$ 5,097,000			
	Construction Subtotal with Contingency:				\$ 22,087,000			
	Pre-Construction Professional Services Cost:	14%			\$ 3,092,000			
	Construction Professional Services Cost:	4%			\$ 883,000			
	Acquisition Cost:	N/A						
	2025 TOTAL UNESCALATED PROJECT COSTS =				\$ 26,062,000			
Date for Cost Basis	Phase	Year Planned	Escalated Costs					
Nov-25	Pre-Construction Professional Services:	2026	\$ 3,118,000					
	Acquisition:	2026	\$ -					
	Construction Professional Services:	2027	\$ 944,000					
Annual Future Cost Escalation	Construction:	2027	\$ 23,611,000					
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 27,673,000			



Bentonville Water Utilities

WD06

PROJECT OVERVIEW

CIP Category:

WATER DISTRIBUTION

Project Number:

CIP Subcategory:

Transmission Mains - New

Project Name:

Western Corridor Transmission Main 48"

Project Description:

Project includes installation of new 48" transmission main from the Beaver Water District, Western Corridor Pump Station (under construction as of Nov 2025) to connect into existing 48" pipe, near 28th Street SW and I Street. (Garver Water Master Plan CIP Project 4)

EXECUTIVE SUMMARY

Total Escalated Project Cost: \$ 92,165,000

Project Needed by: 2028

Status: Planned

Project Objectives:

The new transmission main will connect the Western Corridor PS (Beaver Water District) to existing 48" transmission main. This will provide a second point of supply and strengthen supply in the southern part of town. This will increase total supply capacity for the existing BWD HSPS and 48" transmission main.

BWU Staff Contact Information

Name:

Phone:

Email:

Finance Options:

State Revolving Funds Municipal Bonds Cash Reserves Development Fee
 Grant TBD WIFIA Other

Planned Project Delivery:

Design Bid Build

JUSTIFICATION

Key Project Drivers:

Capacity Increase, Supply Redundancy, Future Water Demand

Triggers to Accelerate Proj:

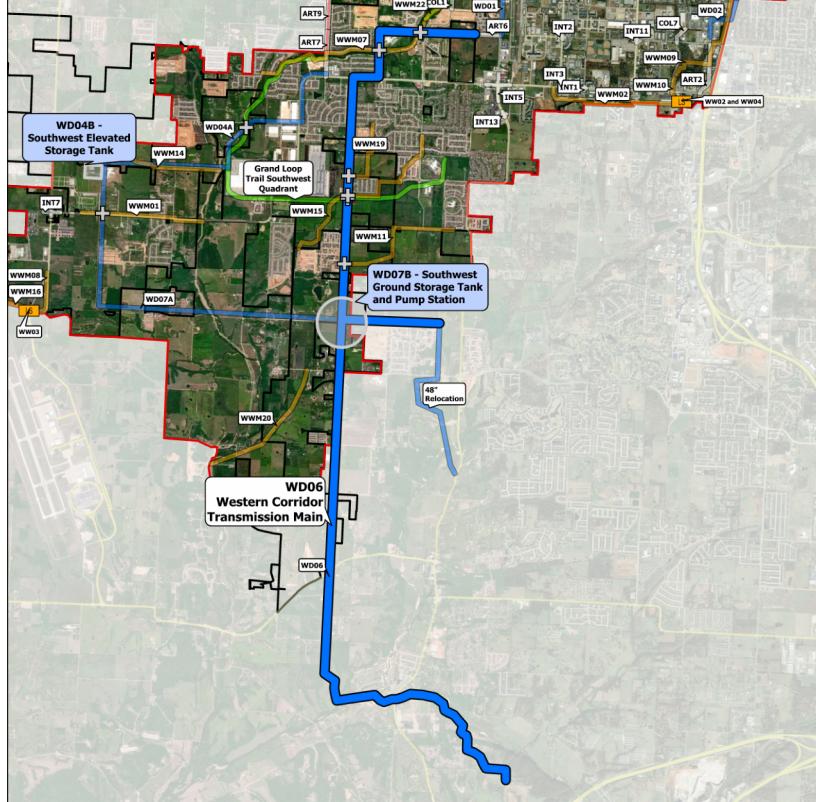
Funding Opportunity Community/ Stakeholder Pressure Risk of External Impact Other:

Sequence with Other Projects?

Yes Related Projects: WD01. Overlaps with sewer line improvement projects and trail project.

Status of Related Projects:

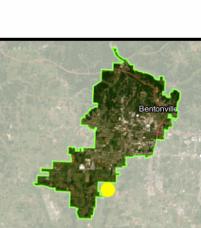
Pending



Legend

+ Project Overlay Points

This figure is for planning purposes only, not for construction



Additional Notes: Garver CIP estimates capacity threshold to trigger the project necessity would be 30 MGD MDD

PLANNED SCHEDULE								
Phase	Award Dates	Completion Dates	Total Months					
Professional Services:	Mar-26	Feb-28	24					
Easement/ROW Acquisition:	Oct-26	Apr-27	6					
Construction:	Apr-28	Apr-30	24					
Status:	Planned			50				
COST AND FUNDING								
Opinion of Probable Cost					AACE Class: 5			
Item	Description	Quantity	Unit	Unit Price	Total			
1	Mobilization (5%)	1	LS	\$ 2,354,000	\$ 2,354,000			
2	Traffic Control	24	MO	\$ 6,000	\$ 144,000			
3	SWPPP (1%)	1	LS	\$ 471,000	\$ 471,000			
4	Clearing and Grubbing	17	AC	\$ 10,000	\$ 170,000			
5	Utility Relocation (2%)	1	LS	\$ 942,000	\$ 942,000			
6	48" Water Transmission Main by Open Cut	61,346	LF	\$ 720	\$ 44,169,000			
7	48" Water Main and 54" Steel Casing by Bore (Spring Creek)	125	LF	\$ 1,220	\$ 153,000			
8	48" Water Main and 54" Steel Casing by Bore (Hwy 264)	250	LF	\$ 3,200	\$ 800,000			
9	Pavement Restoration	5,453	SY	\$ 100	\$ 545,000			
10	48"x48" Waterline Connection (Supply Transmission Main)	1	EA	\$ 63,000	\$ 63,000			
11	48"x18" Waterline Connection	1	EA	\$ 59,500	\$ 60,000			
12	48"x36" Waterline Connection (SW Supply Transmission Main)	1	EA	\$ 61,000	\$ 61,000			
13	48"x48" Waterline Connection (Relocated Line)	1	EA	\$ 63,000	\$ 63,000			
14	48" Waterline Connection (BWD Western Corridor Pump Station)	1	EA	\$ 60,000	\$ 60,000			
15	Trench Safety	61,346	LF	\$ 5	\$ 307,000			
16	Rock Excavation	2,454	CY	\$ 325	\$ 797,000			
17	Temporary & Permanent Easements (est. 10%)				\$ -			
	Subtotal:				\$ 51,159,000			
	Construction Contingency:	30%			\$ 15,348,000			
	Construction Subtotal with Contingency:				\$ 66,507,000			
	Pre-Construction Professional Services Cost:	9%			\$ 5,985,630			
	Construction Professional Services Cost:	5%			\$ 3,325,350			
	Acquisition Cost:	10%			\$ 6,651,000			
2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 82,468,980			
Date for Cost Basis	Phase	Year Planned		Escalated Costs				
Nov-25	Pre-Construction Professional Services:	2026		\$ 6,085,000				
	Acquisition:	2026		\$ 6,967,000				
	Construction Professional Services:	2028		\$ 3,767,000				
Annual Future Cost Escalation	Construction:	2028		\$ 75,346,000				
5.00%	TOTAL ESCALATED PROJECT COSTS =			\$ 92,165,000				



Bentonville Water Utilities

WD07A

PROJECT OVERVIEW

		Project Number: WD07A	
CIP Category: WATER DISTRIBUTION		Project Number: WD07A	
CIP Subcategory: Transmission Mains - New			
Project Name: Transmission Main - 36" (connecting to SW GST)			
Project Description: This project includes installation of a new 36" transmission main that will connect the Western Corridor Transmission Main and the Southwest elevated storage tank (EST) site. This is one portion of Garver Water Master Plan CIP Project 7 which also includes a new 6 MG GST and 10 MGD pump station (WD07B).		EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$ 23,479,000	
		Project Needed by: 2033	
		Status: Planned	
Project Objectives: Connect the Southwest EST to the Western Corridor transmission main, providing additional storage redundancy and system connectivity.		BWU Staff Contact Information	
		Name: _____	
		Phone: _____	
		Email: _____	
Finance Options:		<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input checked="" type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other	
Planned Project Delivery:			
JUSTIFICATION			
Key Project Drivers: Capacity Limitation, Demand Growth			
Triggers to Accelerate Proj:		<input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input checked="" type="checkbox"/> Other: Capacity Limitation	
Sequence with Other Projects? Yes		Related Projects: WD07B. Overlaps with sewer line improvement project	
Status of Related Projects:			
Additional Notes: Garver CIP estimates capacity threshold to trigger the project necessity would be a retail ADD of 19.5 MGD			

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-27	Jan-28		12			
Easement/ROW Acquisition:	Apr-27	Oct-27		6			
Construction:	Mar-28	Aug-29		18			
Status:	Planned			32			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 602,500	\$ 603,000		
2	Traffic Control	18	MO	\$ 6,000	\$ 108,000		
3	SWPPP (1%)	1	LS	\$ 112,000	\$ 112,000		
4	Clearing and Grubbing	5.58	AC	\$ 10,000	\$ 56,000		
5	Utility Relocation (2%)	1	LS	\$ 241,000	\$ 241,000		
6	36" Water Transmission Main by Open Cut	20,147	LF	\$ 540	\$ 10,879,000		
7	36" Water Main and 48" Steel Casing by Bore (Little Osage Creek)	100	LF	\$ 2,400	\$ 240,000		
8	36"x24" Waterline Connection (SW EST Transmission Main)	1	EA	\$ 32,000	\$ 32,000		
9	Main)	1	EA	\$ 61,000	\$ 61,000		
10	Trench Safety	20,147	LF	\$ 5	\$ 101,000		
11	Pavement Restoration	4,701	SY	\$ 100	\$ 470,000		
12	Rock Excavation	806	CY	\$ 325	\$ 262,000		
		Subtotal:			\$ 13,165,000		
		Construction Contingency:	30%		\$ 3,950,000		
		Construction Subtotal with Contingency:			\$ 17,115,000		
		Pre-Construction Professional Services Cost:	9%		\$ 1,540,000		
		Construction Professional Services Cost:	4%		\$ 685,000		
		Acquisition Cost:	10%		\$ 1,712,000		
2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 21,052,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2027		\$ 1,633,000			
	Acquisition:	2027		\$ 1,842,000			
	Construction Professional Services:	2028		\$ 770,000			
<i>Annual Future Cost Escalation</i>	Construction:	2028		\$ 19,234,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =			\$ 23,479,000			



Bentonville Water Utilities

WD07B

PROJECT OVERVIEW

CIP Category: WATER DISTRIBUTION

Project Number:

CIP Subcategory: Tanks & Pump Stations - New

Project Name: SW GST & Pump Station - 6 MG

Project Description: This project includes installation of a new 6-MG ground storage tank (GST) and a 10-MGD pump station (PS). The GST and PS are part of Garver Water Master Plan CIP Project 7 which includes a 36" transmission main that will connect the Western Corridor Transmission Main and the Southwest elevated storage tank (EST) site (WD04B).

EXECUTIVE SUMMARY

Total Escalated Project Cost: \$ 69,456,000

Project Needed by: 2033

Status: Planned

Project Objectives: Increase emergency storage with a GST near the Western Corridor transmission main that can be filled directly from the BWD supply and pumped into the distribution system. A new PS at this location will provide additional operational flexibility during both normal and emergency operations.

BWU Staff Contact Information

Name:

Phone:

Email:

Finance Options: State Revolving Funds Municipal Bonds Cash Reserves Development Fee
 Grant TBD WIFIA Other

Planned Project Delivery:

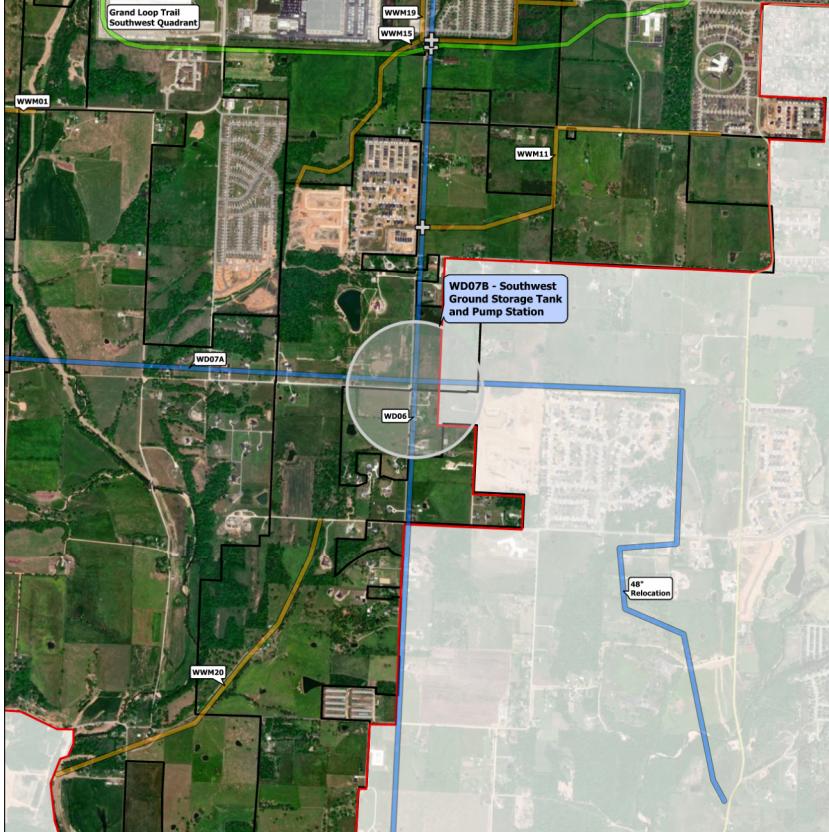
JUSTIFICATION

Key Project Drivers: Capacity Limitation, Demand Growth, Emergency Storage

Triggers to Accelerate Proj: Funding Opportunity Community/ Stakeholder Pressure Risk of External Impact Other: Capacity Limitation

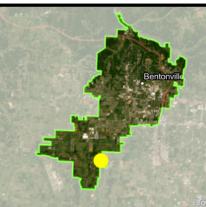
Sequence with Other Projects? Yes **Related Projects:** WD04B, WD07A

Status of Related Projects:



This figure is for planning purposes only, not for construction

0 750 1,500 3,000 Feet



Additional Notes: Garver CIP estimates capacity threshold to trigger the project necessity would be a retail ADD of 19.5 MGD

PLANNED SCHEDULE									
Phase	Award Dates		Completion Dates		Total Months				
Professional Services:	Jan-27		Jan-28		12				
Easement/ROW Acquisition:	Apr-27		Oct-27		6				
Construction:	Mar-28		Aug-29		18				
Status:	Planned				32				
COST AND FUNDING									
Opinion of Probable Cost					AACE Class: 5				
Item	Description	Quantity	Unit	Unit Price	Total				
1	6 MG GST	1	LS	\$ 10,500,000	\$ 10,500,000				
2	10 MGD Booster PS	1	LS	\$ 30,000,000	\$ 30,000,000				
	<i>Subtotal:</i>				\$ 40,500,000				
	<i>Construction Contingency:</i>	30%			\$ 12,150,000				
	<i>Construction Subtotal with Contingency:</i>				\$ 52,650,000				
	<i>Pre-Construction Professional Services Cost:</i>	14%			\$ 7,371,000				
	<i>Construction Professional Services Cost:</i>	4%			\$ 2,106,000				
	<i>Acquisition Cost:</i>	2	AC	\$50,000	\$ 100,000				
		2025 TOTAL UNESCALATED PROJECT COSTS =							
<i>Date for Cost Basis</i>	<i>Phase</i>	<i>Year Planned</i>		<i>Escalated Costs</i>					
Nov-25	Pre-Construction Professional Services:	2027		\$ 7,814,000					
	Acquisition:	2027		\$ 108,000					
	Construction Professional Services:	2028		\$ 2,367,000					
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>	2028		\$ 59,167,000					
5.00%		TOTAL ESCALATED PROJECT COSTS =							
		\$ 69,456,000							



Bentonville Water Utilities

WD08

PROJECT OVERVIEW

CIP Category: WATER DISTRIBUTION

Project Number:

CIP Subcategory: Transmission Mains - New

Project Name: Northeast Loop Phase I - 24"

Project Description: This project includes installation of a new 24" line along Tiger Boulevard from the Tiger Elevated Storage Tank (EST) to J Street, where it will connect to the existing 12" line. This line is anticipated to be extended in the future to loop to other larger water mains in the Core growth area. (Garver Water Master Plan CIP Project 8)

EXECUTIVE SUMMARY

Total Escalated Project Cost: \$ 8,083,000

Project Needed by: 2033

Status: Planned

Project Objectives: Provide capacity to meet projected system demands in the area and avoid excessive head losses and pressure fluctuations.

BWU Staff Contact Information

Name:

Phone:

Email:

Finance Options: State Revolving Funds Municipal Bonds Cash Reserves Development Fee
 Grant TBD WIFIA Other

Planned Project Delivery:

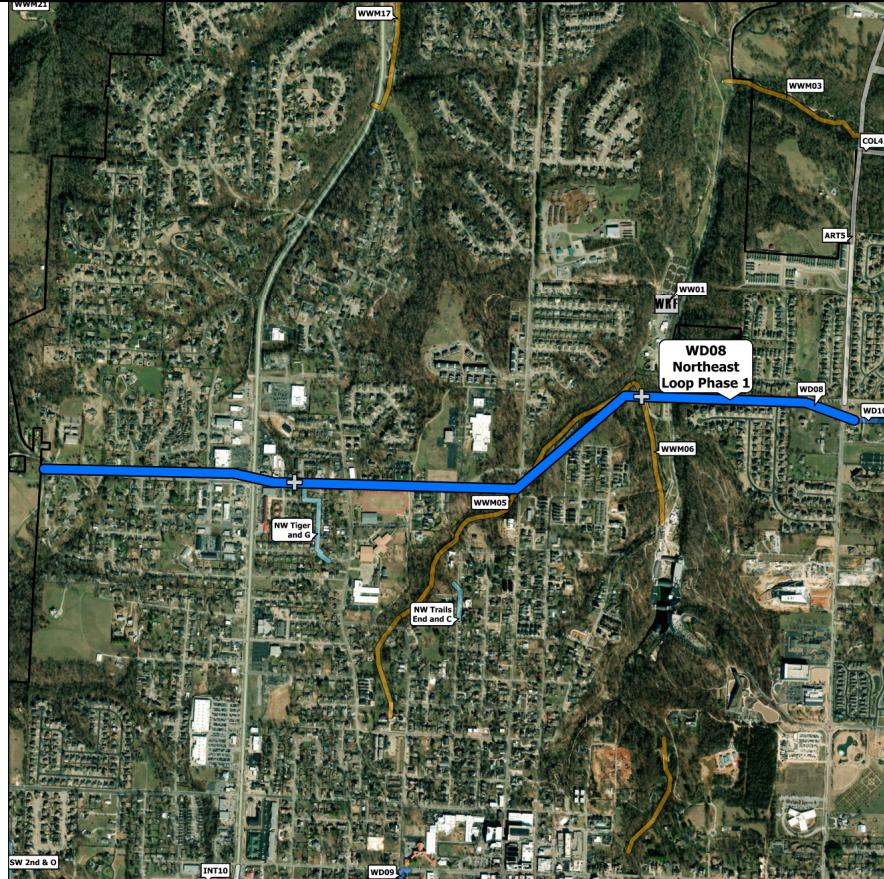
JUSTIFICATION

Key Project Drivers: Capacity Limitation, Demand Growth

Triggers to Accelerate Proj: Funding Opportunity Community/ Stakeholder Pressure Risk of External Impact Other: Capacity Limitation

Sequence with Other Projects? No **Related Projects:** Overlaps with sewer line improvement and stormwater projects

Status of Related Projects:



Legend

+ Project Overlap Points

This figure is for planning purposes only, not for construction



0 500 1,000 2,000 Feet

Additional Notes:

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-28	Jan-29		12			
Easement/ROW Acquisition:	Apr-28	Oct-28		6			
Construction:	Mar-29	Sep-30		18			
Status:	Planned			32			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class: 5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 203,500	\$ 204,000		
2	Traffic Control	18	MO	\$ 6,000	\$ 108,000		
3	SWPPP (1%)	1	LS	\$ 41,000	\$ 41,000		
4	Clearing and Grubbing	2.25	AC	\$ 10,000	\$ 22,000		
5	Utility Relocation (2%)	1	LS	\$ 81,500	\$ 82,000		
6	24" Water Transmission Main by Open Cut	7,907	LF	\$ 360	\$ 2,847,000		
7	24" W Main and 36" Steel Case by Bore (Walton Boulevard)	250	LF	\$ 1,800	\$ 450,000		
8	24"x12" Waterline Connection	3	EA	\$ 18,000	\$ 54,000		
9	24"x24" Waterline Connection	1	EA	\$ 26,000	\$ 26,000		
10	24" Waterline Connection (To North East Loop Phase 2)	1	EA	\$ 20,000	\$ 20,000		
11	Trench Safety	7,907	LF	\$ 5	\$ 40,000		
12	Pavement Restoration	5,271	SY	\$ 100	\$ 527,000		
13	Rock Excavation	316	CY	\$ 325	\$ 103,000		
	Subtotal:				\$ 4,524,000		
	Construction Contingency:	30%			\$ 1,357,000		
	Construction Subtotal with Contingency:				\$ 5,881,000		
	Pre-Construction Professional Services Cost:	9%			\$ 529,000		
	Construction Professional Services Cost:	4%			\$ 235,000		
	Acquisition Cost:	4%			\$ 235,000		
				2025 TOTAL UNESCALATED PROJECT COSTS =	\$ 6,880,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2028		\$ 590,000			
	Acquisition:	2028		\$ 266,000			
	Construction Professional Services:	2029		\$ 278,000			
Annual Future Cost Escalation	Construction:	2029		\$ 6,949,000			
5.00%		TOTAL ESCALATED PROJECT COSTS =		\$ 8,083,000			



Bentonville Water Utilities

WD09

PROJECT OVERVIEW

		Project Number: WD09	
CIP Category: WATER DISTRIBUTION		Project Number: WD09	
CIP Subcategory: Transmission Mains - New			
Project Name: Central Transmission Main - 24"			
Project Description: This project includes installation of new 24" lines from the I Street Tank Site along Walton Boulevard, where the lines will connect to the Core Transmission Loops. (Garver Water Master Plan CIP Project 9)		EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$ 10,277,000	
		Project Needed by: 2033	
		Status: Planned	
Project Objectives: Provide additional system capacity to meet increasing demands in the northern and eastern parts of the service area. Reduce potential excessive head losses and pressure fluctuations from projected demands.		BWU Staff Contact Information	
		Name: _____	
		Phone: _____	
		Email: _____	
Finance Options: <input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input checked="" type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other			
Planned Project Delivery:			
JUSTIFICATION			
Key Project Drivers: Capacity Limitation, Demand Growth			
Triggers to Accelerate Proj: <input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input checked="" type="checkbox"/> Other: Capacity Limitation			
Sequence with Other Projects? Yes		Related Projects: WD01. Overlaps with road improvement project	
Status of Related Projects:			
			
Additional Notes:			

PLANNED SCHEDULE								
Phase	Award Dates	Completion Dates	Total Months					
Professional Services:	Jan-29	Jan-30	12					
Easement/ROW Acquisition:	Apr-29	Oct-29	6					
Construction:	Mar-30	Sep-31	18					
Status:	Planned			32				
COST AND FUNDING								
Opinion of Probable Cost					AACE Class:			
Item	Description	Quantity	Unit	Unit Price	Total			
1	Mobilization (5%)	1	LS	\$ 200,500	\$ 201,000			
2	Traffic Control	18	MO	\$ 6,000	\$ 109,000			
3	SWPPP (1%)	1	LS	\$ 40,500	\$ 41,000			
4	Clearing and Grubbing	2.76	AC	\$ 10,000	\$ 28,000			
5	Utility Relocation (2%)	1	LS	\$ 95,000	\$ 95,000			
6	24" Water Transmission Main by Open Cut	9,780	LF	\$ 360	\$ 3,521,000			
7	24" Water Main and 36" Steel Casing by Bore (Walton)	250	LF	\$ 1,800	\$ 450,000			
8	36"x24" Waterline Connection	1	EA	\$ 32,000	\$ 32,000			
9	24"x12" Waterline Connection	1	EA	\$ 18,000	\$ 18,000			
10	24"x16" Waterline Connection	1	EA	\$ 21,000	\$ 21,000			
11	Trench Safety	9,780	LF	\$ 5	\$ 49,000			
12	Pavement Restoration	5,216	SY	\$ 100	\$ 522,000			
13	Rock Excavation	391	CY	\$ 325	\$ 127,000			
	Subtotal:				\$ 5,214,000			
	Construction Contingency:	30%			\$ 1,564,000			
	Construction Subtotal with Contingency:				\$ 6,778,000			
	Pre-Construction Professional Services Cost:	9%			\$ 610,000			
	Construction Professional Services Cost:	4%			\$ 271,000			
	Acquisition Cost:	10%			\$ 678,000			
			2025 TOTAL UNESCALATED PROJECT COSTS =					
<i>Date for Cost Basis</i>	<i>Phase</i>		<i>Year Planned</i>	<i>Escalated Costs</i>				
Nov-25	Pre-Construction Professional Services:		2029	\$ 715,000				
	Acquisition:		2029	\$ 806,000				
	Construction Professional Services:		2030	\$ 337,000				
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>		2030	\$ 8,419,000				
5.00%				TOTAL ESCALATED PROJECT COSTS =				
				\$ 10,277,000				



Bentonville Water Utilities

WD10

PROJECT OVERVIEW

		Project Number: WD10	
CIP Category: WATER DISTRIBUTION			
CIP Subcategory: Transmission Mains - New			
Project Name: Northeast Loop Phase II - 24"			
Project Description: This project includes completion of the 24" loop started with the Northeast Loop Phase I project. This project will extend from NE Tiger Boulevard and run south parallel to Interstate-49 down to Southeast 8th Street, where it will connect to the existing 24" line. (Garver Water Master Plan CIP Project 10)		EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$ 13,678,000	
		Project Needed by: 2033	
		Status: Planned	
Project Objectives: Provide capacity to meet projected system demands in the area and avoid excessive head losses and pressure fluctuations.		BWU Staff Contact Information	
		Name: 	
		Phone: 	
		Email: 	
Finance Options: <input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input checked="" type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other			
Planned Project Delivery:			
JUSTIFICATION			
Key Project Drivers: Capacity Limitation, Demand Growth			
Triggers to Accelerate Proj: <input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input checked="" type="checkbox"/> Other: Capacity Limitation			
Sequence with Other Projects? Yes		Related Projects: WD08. Overlaps with sewer line and road improvement projects	
Status of Related Projects:			
Additional Notes:			

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jun-30	Jun-31		12			
Easement/ROW Acquisition:	Sep-30	Mar-31		6			
Construction:	Aug-31	Jan-33		18			
Status:	Planned			32			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class:		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 293,000	\$ 293,000		
2	Traffic Control	18	MO	\$ 6,000	\$ 108,000		
3	SWPPP (1%)	1	LS	\$ 59,000	\$ 59,000		
4	Clearing and Grubbing	3.23	AC	\$ 10,000	\$ 32,000		
5	Utility Relocation (2%)	1	LS	\$ 117,500	\$ 118,000		
6	24" Water Transmission Main by Open Cut	11,021	LF	\$ 360	\$ 3,968,000		
7	24" Water Main and 36" Steel Casing by Bore (Interstate 49)	500	LF	\$ 1,800	\$ 900,000		
8	24"x12" Waterline Connection	200	LF	\$ 1,800	\$ 360,000		
9	24"x24" Waterline Connection	1	EA	\$ 18,000	\$ 36,000		
10	24"x24" Waterline Connection	1	EA	\$ 26,000	\$ 26,000		
11	Trench Safety	11,021	LF	\$ 5	\$ 55,000		
12	Pavement Restoration	3,674	SY	\$ 100	\$ 367,000		
13	Rock Excavation	441	CY	\$ 325	\$ 143,000		
	Subtotal:				\$ 6,465,000		
	Construction Contingency:	30%			\$ 1,940,000		
	Construction Subtotal with Contingency:				\$ 8,405,000		
	Pre-Construction Professional Services Cost:	9%			\$ 756,000		
	Construction Professional Services Cost:	4%			\$ 336,000		
	Acquisition Cost:	10%			\$ 841,000		
2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 10,338,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2030		\$ 951,000			
	Acquisition:	2030		\$ 1,074,000			
	Construction Professional Services:	2031		\$ 448,000			
Annual Future Cost Escalation	Construction:	2031		\$ 11,205,000			
5.00%		TOTAL ESCALATED PROJECT COSTS =		\$ 13,678,000			

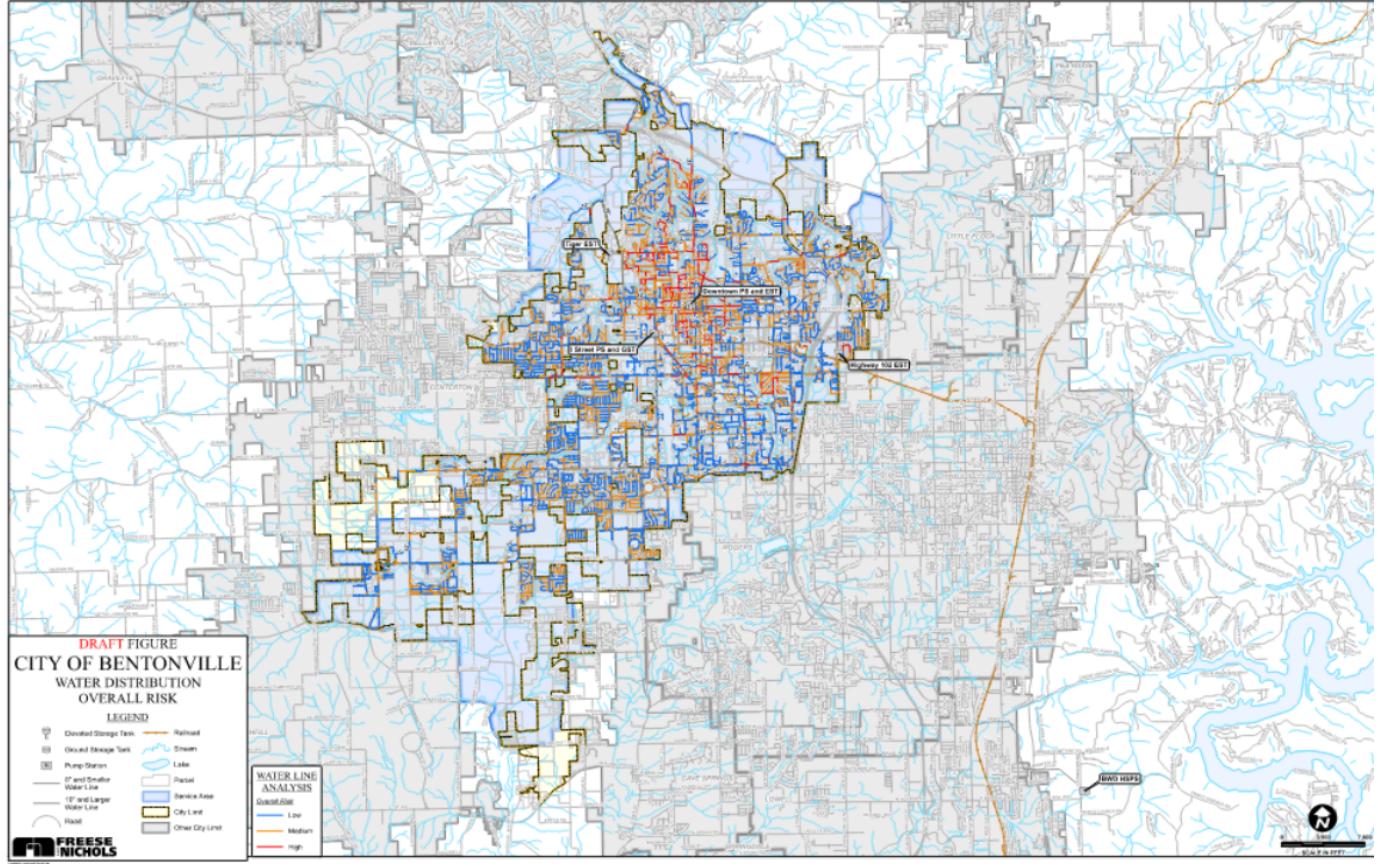


Bentonville Water Utilities

WDA-RPD

PROJECT OVERVIEW

CIP Category:	WATER DISTRIBUTION			
CIP Subcategory:	Distribution Mains - Replacement			
Project Name:	Annual Replacements - Water Distribution Mains			
Project Description:	An annual budget for the replacement of aging water distribution mains.			
	EXECUTIVE SUMMARY			
	Total Escalated Project Cost:	\$ 7,700,000		
Project Needed by:	Undetermined			
Project Objectives:	Replacing water distribution mains that are approaching or exceeding the end of their useful lifespan based on risk based asset management criteria including pipe age, condition, main break history, inadequate capacity, system deficits, and/or operational resiliency			
	BWU Staff Contact Information			
	Name:			
	Phone:			
Finance Options:	<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Grant	<input type="checkbox"/> Municipal Bonds <input checked="" type="checkbox"/> TBD	<input type="checkbox"/> Cash Reserves <input type="checkbox"/> WIFIA	<input type="checkbox"/> Development Fee <input type="checkbox"/> Other
Planned Project Delivery:	JUSTIFICATION			
Key Project Drivers:	Reduce System Vulnerability, Main Breaks and Water Loss; Improve Customer Level of Service and Fireflow			
Triggers to Accelerate Proj.:	<input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:			
Sequence with Other Projects?	No	Related Projects:		
Status of Related Projects:				



Initial focus is replacing aging undersized asbestos cement (AC), cast iron (CI), and galvanized iron (GI) pipe with 8" or larger PVC mains. The **\$7.7M** estimated escalated cost for 2026 is based on replacing an average of 1.25% of BWU's distribution mains per year based on an average 80 year lifespan. Future year costs will be based on system growth and inflation assumptions, currently 3% and 5%, respectively. *This program may be supported using both CIP and O&M funding.*

Additional Notes:

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-26	Jul-26		6			
Easement/ROW Acquisition:	Feb-26	Aug-26		6			
Construction:	Sep-26	May-27		8			
Status:	Planned			16			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class:		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Replace aging/undersized AC, CI, and/or GI Mains with 8" PVC	1	LS	\$ 7,700,000	\$ 7,700,000		
2					\$ -		
	Subtotal:				\$ 7,700,000		
	Construction Contingency:	Included in unit cost					
	Construction Subtotal with Contingency:				\$ 7,700,000		
	Pre-Construction Professional Services Cost:	Included in unit cost					
	Construction Professional Services Cost:	Included in unit cost					
	Acquisition Cost:	Included in unit cost					
	2026 TOTAL UNESCALATED PROJECT COSTS =						
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Sep-26	Pre-Construction Professional Services:	2026					
	Acquisition:	2026					
	Construction Professional Services:	2026					
Annual Future Cost Escalation	Construction:	2026		\$ 7,700,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =						
	\$ 7,700,000						



Bentonville Water Utilities

WDA-RWD

PROJECT OVERVIEW

		Project Number:		
CIP Category:	WATER DISTRIBUTION			
CIP Subcategory:	Distribution Mains - Replacement			
Project Name:	Annual ROW Relocations - Water Distribution Mains			
Project Description:	Relocating water distribution mains within the Arkansas Department of Transportation (ARDOT) Right of Way (ROW). Distribution main relocations to comply with ARDOT ROW requirements.		EXECUTIVE SUMMARY	
			Total Escalated Project Cost:	\$ -
			Project Needed by:	
			Status:	If Required
Project Objectives:	Distribution main relocations to comply with ARDOT ROW requirements.		BWU Staff Contact Information	
			Name:	
			Phone:	
			Email:	
Finance Options:	<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Grant	<input type="checkbox"/> Municipal Bonds <input checked="" type="checkbox"/> TBD	<input type="checkbox"/> Cash Reserves <input type="checkbox"/> WIFIA	<input type="checkbox"/> Development Fee <input type="checkbox"/> Other
Planned Project Delivery:				
JUSTIFICATION				
Key Project Drivers:	As required by ARDOT. Potential to oversize existing mains.			
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:			
Sequence with Other Projects?	No	Related Projects:		
Status of Related Projects:				
<small>Include Vicinity Map(s)</small>				
Additional Notes:	A majority of the project costs are for these projects are funded by ARDOT. The program is included to identify known projects that BWU will be managing during the year. The project also may include upsizing of existing mains if warranted.			

PLANNED SCHEDULE					
Phase	Award Dates	Completion Dates		Total Months	
Professional Services:	Jan-26	Jul-26		6	
Easement/ROW Acquisition:				0	
Construction:	Sep-26	May-27		8	
Status:	If Required				16

COST AND FUNDING					
Opinion of Probable Cost				AACE Class:	
Item	Description	Quantity	Unit	Unit Price	Total
1	Distribution Main Relocation	1	LS	\$	-
				\$	-
	<i>Subtotal:</i>			\$	-
	Construction Contingency:			\$	-
	<i>Construction Subtotal with Contingency:</i>			\$	-
	Pre-Construction Professional Services Cost:	9%		\$	-
	Construction Professional Services Cost:	4%		\$	-
	Acquisition Cost:			\$	-
				2026 TOTAL UNESCALATED PROJECT COSTS =	\$ -
Date for Cost Basis	Phase	Year Planned		Escalated Costs	
Jan-26	Pre-Construction Professional Services:	2026		\$	-
	Acquisition:	\$		\$	-
	Construction Professional Services:	2026		\$	-
Annual Future Cost Escalation	Construction:	2026		\$	-
5.00%		TOTAL ESCALATED PROJECT COSTS =		\$	-

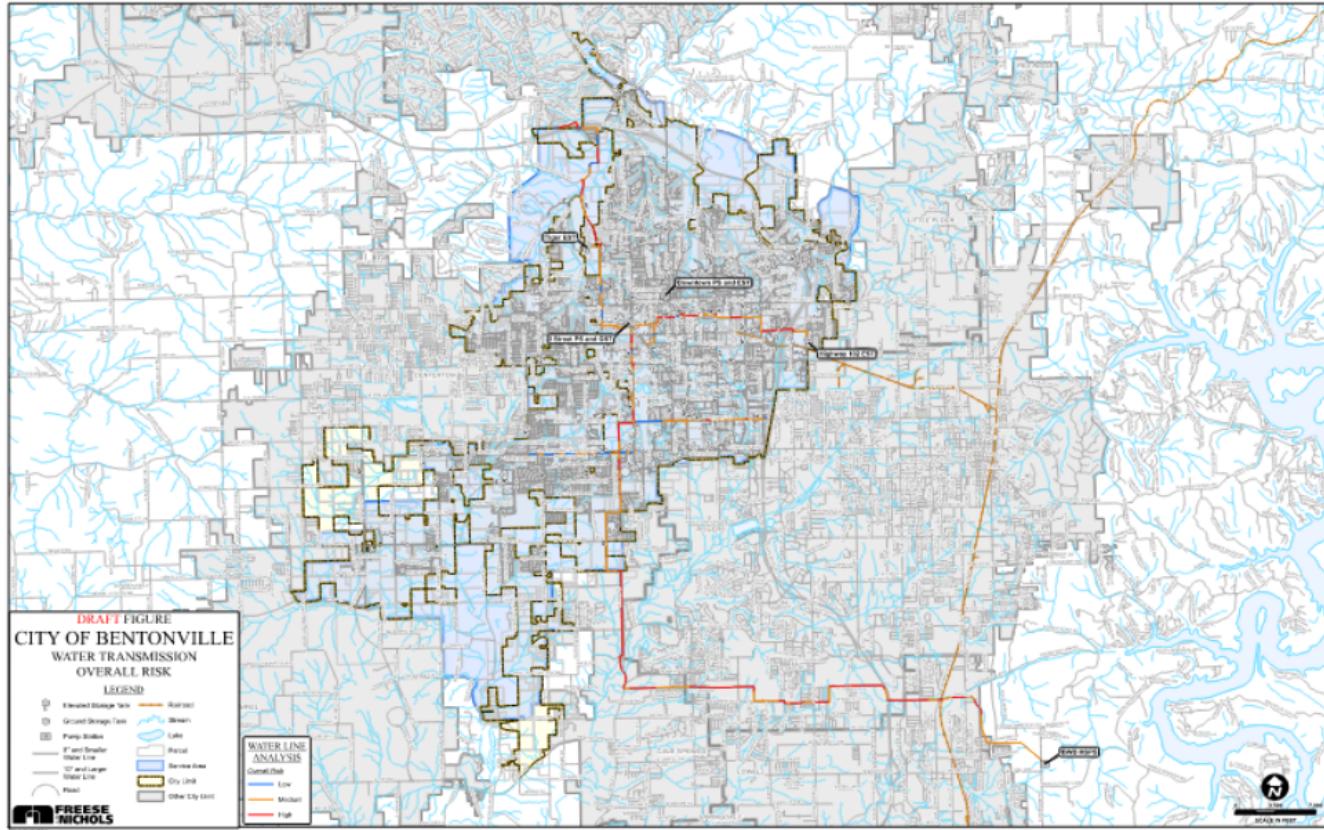


Bentonville Water Utilities

WDA-RPT

PROJECT OVERVIEW

CIP Category:	WATER DISTRIBUTION			Project Number:			
CIP Subcategory:	Transmission Mains - Replacement						
Project Name:	Annual Replacements - Water Transmission Mains						
Project Description:	Replacing aging water transmission mains			EXECUTIVE SUMMARY			
Project Objectives:	Replacing water transmission mains that are approaching or exceeding the end of their useful lifespan based on risk based asset management criteria including pipe age, condition, main break history, inadequate capacity, system deficits, and/or operational resiliency			Total Escalated Project Cost:	\$	2,500,000	
				Project Needed by:			
				Status:	Planned		
Finance Options:	<input type="checkbox"/> State Revolving Funds	<input type="checkbox"/> Municipal Bonds	<input type="checkbox"/> Cash Reserves	<input type="checkbox"/> Development Fee			
<input type="checkbox"/> Grant	<input checked="" type="checkbox"/> TBD	<input type="checkbox"/> WIFIA	<input type="checkbox"/> Other				
Planned Project Delivery:	JUSTIFICATION						
Key Project Drivers:	Reduce System Vulnerability, Main Breaks and Water Loss; Improve Customer Level of Service and Fireflow						
Triggers to Accelerate Proj.:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:			
Sequence with Other Projects?	No	Related Projects:					
Status of Related Projects:							



Additional Notes: The **\$2.5M** estimated escalated cost for 2026 is based on replacing an average of 1.25% of BWU's transmission mains per year based on an average 80 year lifespan. Future year costs will be based on an system growth and inflation assumptions, currently 3% and 5%, respectively. The specific projects will be selected using risk based criteria.

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-26	Jul-26		6			
Easement/ROW Acquisition:	Feb-26	Aug-26		6			
Construction:	Sep-26	May-27		8			
Status:	Planned			16			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class:		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Replace transmission mains	1	LS	\$ 2,500,000	\$ 2,500,000		
2					\$ -		
	Subtotal:				\$ 2,500,000		
	Construction Contingency:	Included in unit cost					
	Construction Subtotal with Contingency:				\$ 2,500,000		
	Pre-Construction Professional Services Cost:	Included in unit cost					
	Construction Professional Services Cost:	Included in unit cost					
	Acquisition Cost:	Included in unit cost					
	2026 TOTAL UNESCALATED PROJECT COSTS =						
<i>Date for Cost Basis</i>	<i>Phase</i>	<i>Year Planned</i>		<i>Escalated Costs</i>			
Sep-26	Pre-Construction Professional Services:	2026		\$ -			
	Acquisition:	2026		\$ -			
	Construction Professional Services:	2026		\$ -			
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>	2026		\$ 2,500,000			
5.00%		TOTAL ESCALATED PROJECT COSTS =					
		\$ 2,500,000					

	<h1>Bentonville Water Utilities</h1>			
			WDA-RWT	
PROJECT OVERVIEW				
CIP Category:	WATER DISTRIBUTION		Project Number:	
CIP Subcategory:	Transmission Mains - Replacement			
Project Name:	Annual ROW Relocations - Water Transmission Mains			
Project Description:	<p>Relocating water transmission mains within the Arkansas Department of Transportation (ARDOT) Right of Way (ROW).</p>		EXECUTIVE SUMMARY	
			Total Escalated Project Cost:	\$ -
			Project Needed by:	Undetermined
			Status:	If Required
Project Objectives:	<p>Transmission main relocations to comply with ARDOT ROW requirements.</p>		BWU Staff Contact Information	
			Name:	
			Phone:	
			Email:	
Finance Options:	<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input checked="" type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input checked="" type="checkbox"/> Other			
Planned Project Delivery:				
JUSTIFICATION				
Key Project Drivers:	As required by ARDOT. Potential to oversize existing mains.			
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:			
Sequence with Other Projects?	No	Related Projects:		
Status of Related Projects:				
Include Vicinity Map(s)				
Additional Notes:	A majority of the project costs are funded by ARDOT. The program is included to identify known projects that BWU will be managing during the year. The project also may include upsizing of existing mains if warranted.			

PLANNED SCHEDULE								
Phase	Award Dates	Completion Dates	Total Months					
Professional Services:	Jan-26	Jul-26	6					
Easement/ROW Acquisition:			0					
Construction:	Sep-26	May-27	8					
Status:	If Required			16				
COST AND FUNDING								
Opinion of Probable Cost					AACE Class:			
Item	Description	Quantity	Unit	Unit Price	Total			
1	Transmission Main Relocation	LS		\$	-			
				\$	-			
	<i>Subtotal:</i>			\$	-			
	Construction Contingency:			\$	-			
	<i>Construction Subtotal with Contingency:</i>			\$	-			
	Pre-Construction Professional Services Cost:	9%		\$	-			
	Construction Professional Services Cost:	4%		\$	-			
	Acquisition Cost:			\$	-			
2026 TOTAL UNESCALATED PROJECT COSTS =					\$ -			
Date for Cost Basis	Phase	Year Planned	Escalated Costs					
Jan-26	Pre-Construction Professional Services:	2026	\$	-				
	Acquisition:		\$	-				
	Construction Professional Services:	2026	\$	-				
Annual Future Cost Escalation	Construction:	2026	\$	-				
5.00%	TOTAL ESCALATED PROJECT COSTS =			\$	-			



Bentonville Water Utilities

WDA-UTP

PROJECT OVERVIEW

CIP Category:	WATER DISTRIBUTION		Project Number:
	Tanks & Pump Stations - Upgrades		
	Annual Upgrades - Water Tanks & Pump Stations		
Project Description:	EXECUTIVE SUMMARY		
	Upgrading aging water tanks and pump stations, including major components such as pumps, motors and controllers		
	Total Escalated Project Cost: \$ 100,000		
	Project Needed by:		
Project Objectives:	Status: Planned		
	Upgrading, or possibly replacing, water tanks and pump stations, including major components, that are approaching or exceeding the end of their useful lifespan based on risk based asset management criteria including age, condition, inadequate capacity, system deficits, and/or operational resiliency		
	BWU Staff Contact Information		
	Name:		
Finance Options:	Phone:		
	Email:		
	<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input type="checkbox"/> Development Fee		
	<input type="checkbox"/> Grant <input checked="" type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other		
Planned Project Delivery:			
JUSTIFICATION			
Key Project Drivers:	Reduce System Vulnerability, Operational Efficiency, Capacity,		
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:		
Sequence with Other Projects?	Yes	Related Projects:	WD05
Status of Related Projects:	Include Vicinity Map(s)		
Additional Notes:	The \$100K estimated cost for 2026 is based on the average annual costs for BWU personnel to replace a portion of BWU's major tank and pump station components, such as pumps, motors, and controllers. Future year costs will be based on system growth and inflation assumptions, currently 4.33% and 5%, respectively. BWU is replacing the 3MG tank and upgrading the I street station with project WD05. Therefore, this item is not based on replacing additional tanks based on an average 50 year lifespan, or pump stations based on an average 30 year lifespan.		

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-26	Mar-26		2			
Easement/ROW Acquisition:				0			
Construction:	Apr-26	Dec-26		8			
Status:	Planned			12			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class:		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Average cost per year (starting in 2026)	1	LS	\$ 100,000	\$ 100,000		
2					\$ -		
	Subtotal:				\$ 100,000		
	Construction Contingency:	Included in unit cost					
	Construction Subtotal with Contingency:				\$ 100,000		
	Pre-Construction Professional Services Cost:	Included in unit cost					
	Construction Professional Services Cost:	Included in unit cost					
	Acquisition Cost:	Included in unit cost					
					2026 TOTAL UNESCALATED PROJECT COSTS = \$ 100,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Apr-26	Pre-Construction Professional Services:	2026		\$ -			
	Acquisition:	\$ -		\$ -			
	Construction Professional Services:	2026		\$ -			
Annual Future Cost Escalation	Construction:	2026		\$ 100,000			
5.00%		TOTAL ESCALATED PROJECT COSTS =		\$ 100,000			



Bentonville Water Utilities

WWM01

PROJECT OVERVIEW

		Project Number: WWM01	
CIP Category:		Template	
WASTEWATER MAINS		<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar
CIP Subcategory: Interceptor Mains - Replacement		<input type="checkbox"/> McKisic	<input type="checkbox"/> Shell
Project Name: Vaughn-Spring Creek SW Regional Airport Blvd Basin Alt. 1		<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS
Project Description: Southwest Regional Airport Boulevard Basin Alternative 1 proposes a new, deeper gravity line to replace the existing line that runs along Southwest Regional Airport Boulevard that would allow the Vaughn lift station to be taken out of service. The project includes acquiring additional easements for the gravity line and replacing existing manholes.		<input checked="" type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch
Project Objectives: Increase capacity in the area to serve future projected growth. Abandon the Vaughn LS to reduce long-term operation and maintenance costs.		<input type="checkbox"/> Other	
Finance Options: <input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other		Project Needed by: 2025	
Planned Project Delivery:		Status: In Bidding Process	
EXECUTIVE SUMMARY			
Total Escalated Project Cost:		\$1,997,000	
Project Needed by:		2025	
Status:		In Bidding Process	
BWU Staff Contact Information			
Name:			
Phone:			
Email:			
JUSTIFICATION			
Key Project Drivers: Capacity Limitations, Future Growth			
Triggers to Accelerate Proj: <input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:			
Sequence with Other Projects? No		Related Projects: Overlaps with water transmission line project WDM07A.	
Status of Related Projects:			
Additional Notes:			

PLANNED SCHEDULE									
Phase	Award Dates	Completion Dates		Total Months					
Professional Services:	Jan-25	Oct-25		10					
Easement/ROW Acquisition:	May-25	Oct-25		6					
Construction:	Dec-25	May-27		16					
Status:	In Bidding Process				28				
COST AND FUNDING									
Opinion of Probable Cost					AACE Class:				
Item	Description	Quantity	Unit	Unit Price	1				
1	Roadway Construction Control	1	LS	\$ 3,000	\$ 3,000				
2	Trench and Excavation Safety Systems	1	LS	\$ 15,000	\$ 15,000				
3	Clearing and Grubbing	1	LS	\$ 59,450	\$ 59,450				
4	Materials Testing	1	LS	\$ 7,500	\$ 7,500				
5	Trenching 0'-10' Deep	2,730	LF	\$ 40	\$ 109,200				
6	Trenching 10'-15' Deep	523	LF	\$ 50	\$ 26,150				
7	Trenching 15-20' Deep	349	LF	\$ 60	\$ 20,940				
8	Trenching 20-25' Deep	956	LF	\$ 70	\$ 66,920				
9	Trenching 25'-30' Deep	414	LF	\$ 80	\$ 33,120				
10	Rock Excavation	200	CY	\$ 300	\$ 60,000				
11	5' Dia. Sanitary Sewer Manhole, <6' Depth	17	EA	\$ 5,800	\$ 98,600				
12	5' Dia. DROP Sanitary Sewer Manhole, <6' Depth	1	EA	\$ 8,500	\$ 8,500				
13	Additional Manhole Depth (5' Dia. Manhole)	117	VF	\$ 325	\$ 38,025				
14	18" PVC (SDR-26) Installation	340	LF	\$ 77	\$ 26,180				
15	18" PVC (SDR-26) Complete-in-Place	2,139	LF	\$ 110	\$ 235,290				
16	24" PVC (SDR-26) Complete-in-Place	2,576	LF	\$ 130	\$ 334,880				
17	36" Bored Steel Encasement	84	LF	\$ 1,100	\$ 92,400				
18	Rip-Rap	10	SY	\$ 60	\$ 600				
19	Class 7 Base	1,200	CY	\$ 46	\$ 55,200				
20	Remove & Replace Existing Asphalt Pavement	495	SY	\$ 31	\$ 15,345				
21	Remove & Replace Curb and Gutter	152	LF	\$ 29	\$ 4,408				
22	Remove & Replace Concrete Sidewalk	90	SY	\$ 80	\$ 7,200				
23	Remove/Abandon Existing Sanitary Sewer	1	LS	\$ 20,200	\$ 20,200				
24	Demo/Salvage Existing Lift Station	1	LS	\$ 15,000	\$ 15,000				
25	Erosion Control	1	LS	\$ 26,200	\$ 26,200				
26	Traffic Control	1	LS	\$ 7,500	\$ 7,500				
27	Mobilization	1	LS	\$ 31,200	\$ 31,200				
28	Bypass Pumping	1	LS	\$ 100,000	\$ 100,000				
29	Appraisal & Acquisition per parcel (total in Acquisition with 15% contingency)								
30	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	1.5	Acres	\$ 25,000					
31	Temp. Easement (10' wide) (total in Acquisition with 15% contingency)	1.5	Acres	\$ 2,500					
	Subtotal:				\$ 1,518,000				
	Construction Contingency:				\$ 300,000				
	Construction Subtotal with Contingency:				\$ 1,818,000				
	Pre-Construction Professional Services Cost:				\$ 117,500				
	Construction Professional Services Cost:								
	Acquisition Cost:	1	LS	\$ 41,250	\$ 47,000				
2025 TOTAL UNESCALATED PROJECT COSTS = \$ 1,983,000									
<i>Date for Cost Basis</i>	Phase	Year Planned		Escalated Costs					
Nov-25	Pre-Construction Professional Services:	2025		\$ 118,000					
	Acquisition:	2025		\$ 46,000					
	Construction Professional Services:	2025		\$ -					
<i>Annual Future Cost Escalation</i>	Construction:	2025		\$ 1,833,000					
5.00%	TOTAL ESCALATED PROJECT COSTS = \$ 1,997,000								



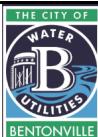
Bentonville Water Utilities

WWM02

PROJECT OVERVIEW

CIP Category:	WASTEWATER MAINS	Project Number:	
		<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar
CIP Subcategory:	Interceptor Mains - Replacement	<input type="checkbox"/> McKisic	<input type="checkbox"/> Shell
		<input type="checkbox"/> Shewmaker	<input checked="" type="checkbox"/> South LS
Project Name:	SL-25.1: Replace 7633' of 12" main with 18/24"	<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch
		<input type="checkbox"/> Other	
Project Description:	Project SL-25.1 is located in subbasins SLS1 and SLS3 and contains the western portion of the modeled pipe in the basin. Potential surcharging of the pipes in this project is estimated to occur in the 2025 horizon. This project includes upsizing 4,915 feet of 12" pipe to 18" and upsizing 2,718 feet of 12" pipe to 24"	EXECUTIVE SUMMARY	
		Total Escalated Project Cost:	\$11,233,000
		Project Needed by:	2025
		Status:	Under Design/Easement Acquisition
Project Objectives:	Increase sewer main capacity to prevent potential surcharging in the future.	BWU Staff Contact Information	
		Name:	
		Phone:	
Finance Options:	<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Grant	<input type="checkbox"/> Municipal Bonds	<input type="checkbox"/> Cash Reserves
		<input type="checkbox"/> TBD	<input checked="" type="checkbox"/> WIFIA
Planned Project Delivery:		JUSTIFICATION	
Key Project Drivers:	Capacity Limitations, Future Growth		
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact
Sequence with Other Projects?	Yes	Related Projects:	WW02
Status of Related Projects:			
Additional Notes:	An approximately 1,800 feet section located between a residential and commercial development of this project would be a good candidate for pipe bursting to reduce the impact of construction.		

PLANNED SCHEDULE									
Phase	Award Dates	Completion Dates			Total Months				
Professional Services:	Dec-25	Mar-27			15				
Easement/ROW Acquisition:	Jan-26	Mar-27			13				
Construction:	May-27	Jul-28			14				
Status:	Under Design/Easement Acquisition								
COST AND FUNDING									
Opinion of Probable Cost					AACE Class:	5			
Item	Description	Quantity	Unit	Unit Price	Total				
1	Mobilization (5%)	1	LS	\$ 319,000	\$ 319,000				
2	Traffic Control	14	MO	\$ 6,000	\$ 84,000				
3	SWPPP (1%)	1	LS	\$ 64,000	\$ 64,000				
4	Clearing and Grubbing	2.10	AC	\$ 10,000	\$ 21,000				
5	Utility Relocation (2%)	1	LS	\$ 128,000	\$ 128,000				
6	18" PVC Gravity Sewer by Open Cut	4,915	LF	\$ 290	\$ 1,425,000				
7	24" PVC Gravity Sewer by Open Cut	2,718	LF	\$ 375	\$ 1,019,000				
8	Trench Safety	7,633	LF	\$ 5	\$ 38,000				
9	Trenching Additional Depth 20'-25'	7,633	LF	\$ 150	\$ 1,145,000				
10	5' Cast in Place Manhole (10' to 15' deep)	24	EA	\$ 22,000.00	\$ 528,000				
11	Additional Manhole Depth	216	VF	\$ 500	\$ 108,000				
12	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 786,000	\$ 786,000				
13	18" PVC Gravity Sewer and 30" Steel Casing by Bore	150	LF	\$ 1,500	\$ 225,000				
14	24" PVC Gravity Sewer and 36" Steel Casing by Bore	400	LF	\$ 1,800	\$ 720,000				
15	Rock Excavation	305	CY	\$ 100	\$ 31,000				
16	Pavement Restoration	2,544	SY	\$ 80	\$ 204,000				
17	Remove Existing Manholes	24	EA	\$ 3,000	\$ 72,000				
18	Removal of Existing Pipe	7,633	LF	\$ 10	\$ 76,000				
19	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	38,165	SF	\$ 5					
	Subtotal:				\$ 6,993,000				
	Construction Contingency:	30%			\$ 2,098,000				
	Construction Subtotal with Contingency:				\$ 9,091,000				
	Pre-Construction Professional Services Cost:	9%			\$ 818,000				
	Construction Professional Services Cost:	4%			\$ 364,000				
	Acquisition Cost:	1	LS	\$ 190,825	\$ 219,000				
	2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 10,492,000			
Date for Cost Basis	Phase		Year Planned		Escalated Costs				
Nov-25	Pre-Construction Professional Services:		2025 \$ 821,000						
	Acquisition:		2026 \$ 222,000						
	Construction Professional Services:		2027 \$ 392,000						
Annual Future Cost Escalation	Construction:		2027 \$ 9,798,000						
5.00%	TOTAL ESCALATED PROJECT COSTS =					\$ 11,233,000			



Bentonville Water Utilities

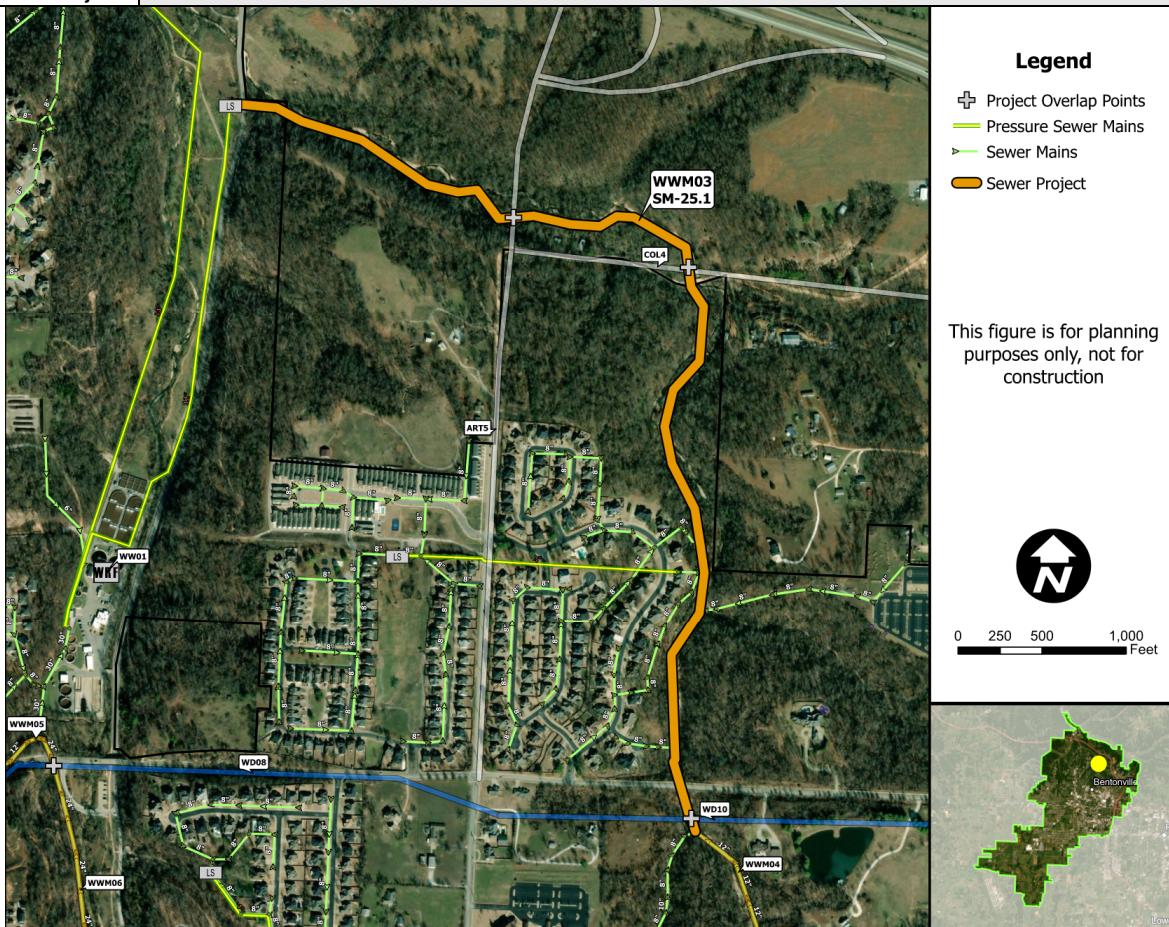
WWM03

PROJECT OVERVIEW

CIP Category:	WASTEWATER MAINS	Project Number:			
		Basin(s):	<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar	
CIP Subcategory:	Interceptor Mains - Replacement		<input type="checkbox"/> McKisic	<input type="checkbox"/> Shell	
			<input checked="" type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS	
Project Name:	Shewmaker Basin Phase 1 (SM-25.1)		<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch	
Project Description:	Project SM-25.1 is located in subbasin SM1 and is immediately upstream of the North Lift Station. Potential surcharging of the pipes in this project are estimated to occur in the 2025 horizon. This project includes upsizing 6,578 feet of 12" pipe to 24" and 337 feet of 18" to 24"				
Project Objectives:	Increase sewer main capacity to prevent potential surcharging in the future.	EXECUTIVE SUMMARY			
		Total Escalated Project Cost:		\$9,572,000	
		Project Needed by:		2025	
		Status:		Under Design/Easement Acquisition	
Finance Options:	BWU Staff Contact Information				
	Name:				
	Phone:				
Email:					
Planned Project Delivery:					

JUSTIFICATION

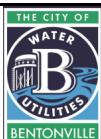
Key Project Drivers:	Capacity Limitations, Future Growth			
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:
Sequence with Other Projects?	Yes	Related Projects:	WWM04. Overlaps with water line, sewer line, and road projects	
Status of Related Projects:				



Additional Notes:

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Feb-25	Apr-26		14			
Easement/ROW Acquisition:	Jun-25	Apr-26		10			
Construction:	Jun-26	Jul-27		13			
Status:	Under Design/Easement Acquisition				29		
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	1		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Erosion Control Maintenance	1	LS	\$ 70,000	\$ 70,000		
2	Traffic Control	1	LS	\$ 35,000	\$ 35,000		
3	Mobilization	1	LS	\$ 425,000	\$ 425,000		
4	Trench Excavation Safety	1	LS	\$ 150,000	\$ 150,000		
5	Construction Staking	1	LS	\$ 30,000	\$ 30,000		
6	Bonds and Insurance	1	LS	\$ 127,500	\$ 127,500		
7	Clearing and Grubbing	5	AC	\$ 30,000	\$ 150,000		
8	Site Restoration	1	LS	\$ 200,000	\$ 200,000		
9	Acceptance Testing - Manholes	28	EA	\$ 500	\$ 14,000		
10	Acceptance Testing - Pipe	6,444	LF	\$ 1	\$ 6,444		
11	Material and Acceptance Testing	1	LS	\$ 30,000	\$ 30,000		
12	Dewatering	1	LS	\$ 120,000	\$ 120,000		
13	Groundwater Mitigation Dam	30	EA	\$ 1,500	\$ 45,000		
14	12" SDR-26 PVC Gravity Sewer Pipe	140	LF	\$ 180	\$ 25,200		
15	24" SDR-26 PVC Gravity Sewer Pipe (0'-10' cover)	5,281	LF	\$ 360	\$ 1,901,160		
16	24" SDR-26 PVC Gravity Sewer Pipe (10'-15' cover)	49	LF	\$ 400	\$ 19,600		
17	24" HDPE DR-19 DIPS Fused Gravity Sewer	384	LF	\$ 525	\$ 201,600		
18	24" Restrained PVC Gravity Sewer Pipe	556	LF	\$ 450	\$ 250,200		
19	30" SDR-26 PVC Gravity Sewer Pipe (0'-10' Cover)	304	LF	\$ 725	\$ 220,400		
20	30" SDR-26 PVC Gravity Sewer Pipe (10'-15' Cover)	77	LF	\$ 825	\$ 63,525		
21	30" Restrained PVC Gravity Sewer Pipe	34	LF	\$ 750	\$ 25,500		
22	Remove 12" Gravity Sewer Pipe	1,408	LF	\$ 95	\$ 133,760		
23	Remove 8" Gravity Sewer Pipe	140	LF	\$ 40	\$ 5,600		
24	Cast in Place 5' Dia. Manhole (6'-12' Depth) with MIC & Cystalline Admixture	26	EA	\$ 12,840	\$ 333,840		
25	Cast in Place 5' Dia. Manhole (12'-18' Depth) with MIC & Cystalline Admixture	2	EA	\$ 15,840	\$ 31,680		
26	Cast in Place 6' Dia. Manhole (6'-12' Depth) with MIC & Cystalline Admixture	1	EA	\$ 16,500	\$ 16,500		
27	Cast in Place 6' Dia. Manhole (12'-18' Depth) with MIC & Cystalline Admixture	1	EA	\$ 20,300	\$ 20,300		
28	Manhole Liner	304	VF	\$ 300	\$ 91,200		
29	Core Existing Manhole	3	EA	\$ 3,600	\$ 10,800		
30	Remove Existing 4' Dia. Manhole	6	EA	\$ 2,500	\$ 15,000		
31	Bypass Pumping	1	LS	\$ 450,000	\$ 450,000		
32	30" Steel Encasement by Open Cut	46	LF	\$ 750	\$ 34,500		
33	36" Steel Encasement by Open Cut	476	LF	\$ 800	\$ 380,800		
34	42" Steel Encasement by Open Cut	24	LF	\$ 900	\$ 21,600		
35	Concrete Encasement	145	SY	\$ 75	\$ 10,875		
36	Fleximat Stream Restoration	10,047	SF	\$ 15	\$ 150,705		
37	6" Gravel Access Road	1,085	SY	\$ 50	\$ 54,250		
38	24" Double Barrel RCP	90	EA	\$ 225	\$ 20,250		
39	24" Flare End Section	4	EA	\$ 2,500	\$ 10,000		
40	Metal Guardrail	137	LF	\$ 100	\$ 13,700		
41	Straw Wattle	5,728	LF	\$ 20	\$ 114,560		
42	Asphalt Road Backfill and Pavement Repair	153	SY	\$ 150	\$ 22,950		
43	Dirt Road Repair	38	SY	\$ 50	\$ 1,900		
44	Rock Excavation	750	CY	\$ 300	\$ 225,000		
45	Undercut and Stone Backfill	1,430	CY	\$ 50	\$ 71,500		
46	Gravel Road Backfill and Repair	1	EA	\$ 20,000	\$ 20,000		
47	Utility Relocations	1	LS	\$ 10,000	\$ 10,000		

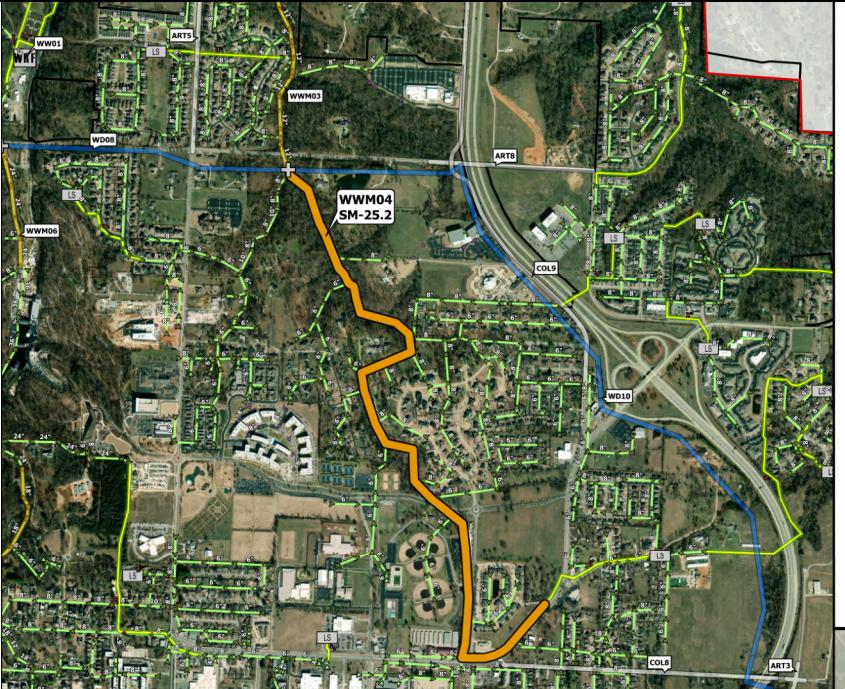
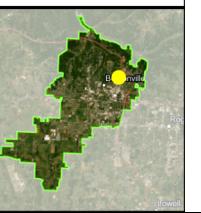
48	Temporary Construction Easements	6	AC	\$ 10,000	\$ 60,000
49	Permanent Utility Easements	3	AC	\$ 100,000	\$ 300,000
50	Utility Spot Digging	1	LS	\$ 10,000	\$ 10,000
51	Lift Station Coring, Bypass Pumping and Construction Sequencing	1	LS	\$ 100,000	\$ 100,000
	<i>Subtotal:</i>				\$ 6,491,000
	Construction Contingency:	20%			\$ 1,298,000
	<i>Construction Subtotal with Contingency:</i>				\$ 7,789,000
	Pre-Construction Professional Services Cost:				\$ 560,000
	Construction Professional Services Cost:				\$ 587,000
	Acquisition Cost:	See line items			\$ 432,000
				2025 TOTAL UNESCALATED PROJECT COSTS =	\$ 9,368,000
<i>Date for Cost Basis</i>	Phase		Year Planned		Escalated Costs
Nov-25	Pre-Construction Professional Services:		2025	\$	560,000
	Acquisition:		2025	\$	432,000
	Construction Professional Services:		2026	\$	587,000
<i>Annual Future Cost Escalation</i>	Construction:		2026	\$	7,993,000
5.00%				TOTAL ESCALATED PROJECT COSTS =	\$ 9,572,000



Bentonville Water Utilities

WWM04

PROJECT OVERVIEW

CIP Category:		WASTEWATER MAINS		Project Number:			
CIP Subcategory:		Interceptor Mains - Replacement		<input type="checkbox"/> Haxton Road <input type="checkbox"/> Nomad-Morningstar <input type="checkbox"/> McKisic <input type="checkbox"/> Shell <input checked="" type="checkbox"/> Shewmaker <input type="checkbox"/> South LS <input type="checkbox"/> Spr Crk-Vaughn <input type="checkbox"/> Town Branch <input type="checkbox"/> Other			
Project Name:		Shewmaker Basin Phase 2 (SM-25.2)		Basin(s):			
Project Description:		<p>Project SM-25.2 is located in subbasins SM1 and SM2 and is immediately upstream of Project SM-25.1. Potential surcharging of the pipes in this project are estimated to occur in the 2025 horizon. This project includes upsizing 3,949 feet of 10" pipe with 18" and 2,500 feet of 12" pipe with 18".</p>		EXECUTIVE SUMMARY			
				Total Escalated Project Cost:		\$25,903,000	
				Project Needed by:		2025	
				Status:		Under Design/Easement Acquisition	
Project Objectives:		<p>Increase sewer main capacity to prevent potential surcharging in the future.</p>		BWU Staff Contact Information			
				Name:			
				Phone:			
				Email:			
Finance Options:		<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA		<input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Other			
Planned Project Delivery:		JUSTIFICATION					
Key Project Drivers:		Capacity Limitations, Future Growth					
Triggers to Accelerate Proj:		<input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure		<input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:			
Sequence with Other Projects?		Yes Projects: WWM03					
Status of Related Projects:		 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  </div> <p>Legend</p> <ul style="list-style-type: none"> Project Overlap Points Pressure Sewer Mains Sewer Mains Sewer Project <p>This figure is for planning purposes only, not for construction</p> <p>0 500 1,000 2,000 Feet</p>					
Additional Notes:		Project is listed as Interceptor Mains Replacement, but also includes 7 MGD Lift Station (Wastewater Facilities)					

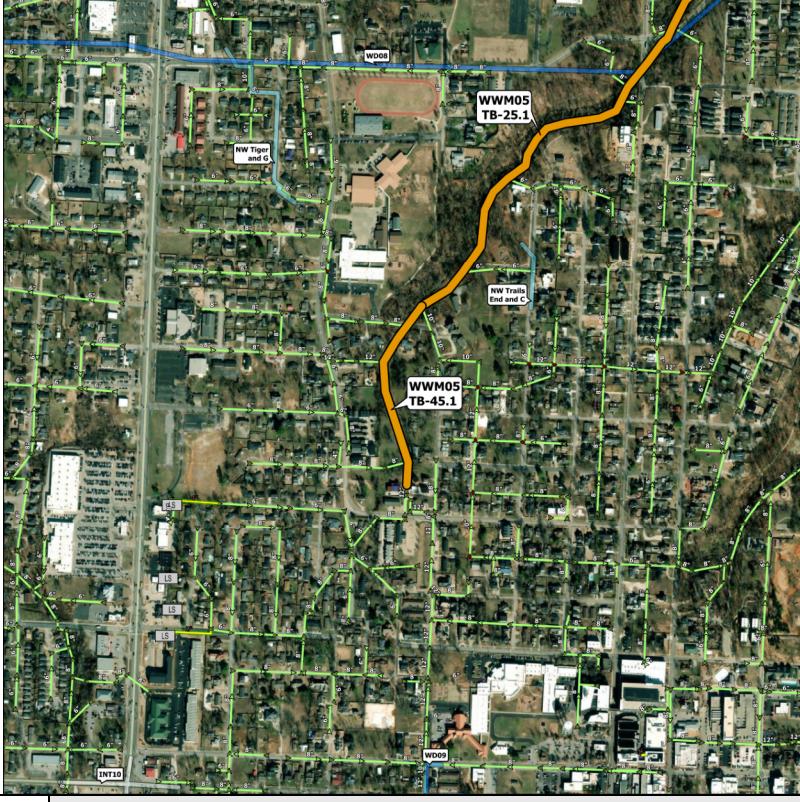
PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Feb-25	Apr-26		14			
Easement/ROW Acquisition:	Jun-25	Apr-26		10			
Construction:	Jun-26	Jun-27		12			
Status:	Under Design/Easement Acquisition				28		
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	1		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Erosion Control	1	LS	\$ 150,000	\$ 150,000		
2	Traffic Control	1	LS	\$ 50,000	\$ 50,000		
3	Mobilization	1	LS	\$ 1,000,000	\$ 1,000,000		
4	Construction Staking	1	LS	\$ 75,000	\$ 75,000		
5	Bonds and Insurance	1	LS	\$ 420,000	\$ 420,000		
6	Site Restoration	1	LS	\$ 200,000	\$ 200,000		
7	Material and Acceptance Testing	1	LS	\$ 50,000	\$ 50,000		
8	Dewatering	1	LS	\$ 100,000	\$ 100,000		
9	Groundwater Mitigation Dam	30	EA	\$ 1,500	\$ 45,000		
10	24" Gravity Sewer	1,000	LF	\$ 360	\$ 360,000		
11	18" Gravity Sewer	8,000	LF	\$ 270	\$ 2,160,000		
12	8" Gravity Sewer	50	LF	\$ 120	\$ 6,000		
13	4" Gravity Sewer	50	LF	\$ 50	\$ 3,000		
14	18" Force Main	3,400	LF	\$ 270	\$ 918,000		
15	Trench Safety	12,500	LF	\$ 5	\$ 63,000		
16	Cast in Place 6' Dia. Manhole (6'-12' Depth) w/ Liner	40	EA	\$ 30,000	\$ 1,200,000		
17	Bypass Pumping	1	LS	\$ 1,350,000	\$ 1,350,000		
18	Abandonment of Existing Force Main (CLSM Fill)	3,600	CY	\$ 150	\$ 540,000		
19	18" PVC Gravity Sewer and 30" Steel Casing by Bore	180	LF	\$ 1,500	\$ 270,000		
20	7 MGD Lift Station	1	LS	\$ 10,000,000	\$ 10,000,000		
21	Demo/Conversion of Existing Lift Station to Storage	1	LS	\$ 1,000,000	\$ 1,000,000		
22	USACE Bat & Wetland Mitigation	1	LS	\$ 100,000	\$ 100,000		
23	Rock Excavation	3,125	CY	\$ 100	\$ 313,000		
24	Undercut and Stone Backfill	4,200	CY	\$ 40	\$ 168,000		
25	Pavement Restoration	833	SY	\$ 100	\$ 83,000		
26	Utility Relocations	1	LS	\$ 50,000	\$ 50,000		
27	Temporary Construction Easements (total in Acquisition with 5% contingency)	5	AC	\$ 50,000			
28	Permanent Utility Easements (total in Acquisition with 5% contingency)	1	AC	\$ 500,000			
29	Utility Spot Digging	1	LS	\$ 10,000	\$ 10,000		
	Subtotal:				\$ 20,684,000		
	Construction Contingency:	5%			\$ 1,034,000		
	Construction Subtotal with Contingency:				\$ 21,718,000		
	Pre-Construction Professional Services Cost:				\$ 1,709,000		
	Construction Professional Services Cost:				\$ 1,064,000		
	Acquisition Cost:	1	LS	\$ 750,000	\$ 788,000		
2025 TOTAL UNESCALATED PROJECT COSTS = \$ 25,279,000							
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2025		\$ 1,709,000			
	Acquisition:	2025		\$ 772,000			
	Construction Professional Services:	2026		\$ 1,064,000			
Annual Future Cost Escalation	Construction:	2026		\$ 22,358,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =			\$ 25,903,000			



Bentonville Water Utilities

WWM05

PROJECT OVERVIEW

		Project Number:	
CIP Category:		WASTEWATER MAINS	
CIP Subcategory:		Interceptor Mains - Replacement	
Project Name:		Town Branch Basin West (TB 25.1 and TB 45.1)	
Project Description:		Project TB-25.1 is located in subbasin TB1 slightly upstream of the WRRF. Potential surcharging of the pipes in this project are estimated to occur in the 2025 horizon. This project includes upsizing 4,019 feet of 12" pipe to 18". Project TB-45.1 is located in subbasin TB3 and is immediately upstream of Project TB-25.1. Potential surcharging of the pipes in this project is estimated to occur during the 2045 horizon. This project includes upsizing 1,378 feet of 12" pipe to 18".	
Project Objectives:		Increase sewer main capacity to prevent potential surcharging in the future.	
Finance Options:		<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other	
Planned Project Delivery:		JUSTIFICATION	
Key Project Drivers:		Capacity Limitations, Future Growth	
Triggers to Accelerate Proj.:		<input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:	
Sequence with Other Projects?		No Related Projects: Overlaps with water and sewer line projects	
Status of Related Projects:		 <p>Legend</p> <ul style="list-style-type: none">Project Overlay PointsPressure Sewer MainsSewer MainsSewer Project <p>This figure is for planning purposes only, not for construction</p> <p>0 250 500 1,000 Feet</p>	
Additional Notes:			

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	May-25	Apr-26		11			
Easement/ROW Acquisition:	Aug-25	Feb-26		6			
Construction:	Aug-26	Jun-27		10			
Status:	Under Design/Easement Acquisition				25		
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	3		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 236,000	\$ 236,000		
2	Erosion Control & Maintenance	1	LS	\$ 70,000	\$ 70,000		
3	Maintenance of Traffic	1	LS	\$ 45,000	\$ 45,000		
4	Trench Excavation Safety	1	LS	\$ 150,000	\$ 150,000		
5	Construction Staking	1	LS	\$ 30,000	\$ 30,000		
6	Bonds and Insurance	1	LS	\$ 10,500	\$ 11,000		
7	Clearing and Grubbing	5	AC	\$ 50,000	\$ 250,000		
8	Site Restoration	1	LS	\$ 250,000	\$ 250,000		
9	Acceptance Testing - Manholes	364	EA	\$ 500	\$ 182,000		
10	Acceptance Testing - Pipe	5,755	LF	\$ 1	\$ 6,000		
11	Material and Acceptance Testing	1	LS	\$ 30,000	\$ 30,000		
12	Dewatering	1	LS	\$ 60,000	\$ 60,000		
13	18" SDR-26 PVC Sewer Line	5,755	LF	\$ 270	\$ 1,554,000		
14	Cast in Place 5' Dia. Manhole (6'-12' Depth)	36	EA	\$ 20,000	\$ 720,000		
15	Manhole Liner	328	VF	\$ 300	\$ 98,000		
16	Remove Existing Manhole	32	EA	\$ 4,000	\$ 128,000		
17	Bypass Pumping	1	LS	\$ 300,000	\$ 300,000		
18	USACE Bat & Wetland Mitigation	1	LS	\$ 50,000	\$ 50,000		
19	Utility Relocations	1	LS	\$ 50,000	\$ 50,000		
20	Temporary Construction Easements	1	AC	\$ 30,000	\$ 30,000		
21	Permanent Utility Easements	0.6	AC	\$ 100,000	\$ 60,000		
22	Utility Spot Digging	1	LS	\$ 40,000	\$ 40,000		
23	Paving Repair	750	SY	\$ 150	\$ 113,000		
24	Soft Surface Trail Reroute & Restoration	1	LS	\$ 200,000	\$ 200,000		
25	Rock Excavation	1	LS	\$ 300,000	\$ 300,000		
Subtotal:				\$ 4,873,000			
Construction Contingency:				\$ 1,462,000			
Construction Subtotal with Contingency:				\$ 6,335,000			
Pre-Construction Professional Services Cost:				\$ 570,000			
Construction Professional Services Cost:				\$ 253,000			
Acquisition Cost:				\$ 117,000			
2025 TOTAL UNESCALATED PROJECT COSTS =							
\$ 7,275,000							
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2025		\$ 570,000			
	Acquisition:	2025		\$ 116,000			
	Construction Professional Services:	2026		\$ 262,000			
Annual Future Cost Escalation	Construction:	2026		\$ 6,560,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 7,508,000		



Bentonville Water Utilities

WWM06

PROJECT OVERVIEW

CIP Category:	WASTEWATER MAINS	Project Number:	
		<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar
CIP Subcategory:	Interceptor Mains - Replacement	<input type="checkbox"/> McKisic	<input type="checkbox"/> Shell
		<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS
Project Name:	Town Branch Basin East (TB-25.2, TB-30.1, TB-40.1 and TB-45.2)	Basin(s):	<input type="checkbox"/> Spr Crk-Vaughn <input checked="" type="checkbox"/> Town Branch
		<input type="checkbox"/> Other	
Project Description:	Combination of four separate sewer main segment replacements on the east side of the Town Branch basin. TB-25.2, TB-30.1, TB-40.1, and TB-45.2. TB-25.2 includes upsizing 317 ft of 12" pipe to 18". TB-30.1 includes upsizing 1,543 ft of 12" and 500 ft of 15" pipe to 18". TB-40.1 includes upsizing 1,595 ft of 18" pipe to 24". TB-45.2 includes upsizing 1,780 ft of 24" pipe to 30". All projects are now planned for the 2025 horizon after the recent study completed by Garver.	EXECUTIVE SUMMARY	
		Total Escalated Project Cost:	\$11,846,000
		Project Needed by:	2025
		Status:	Under Design/Easement Acquisition
Project Objectives:	Increase sewer main capacity to prevent potential surcharging in the future.	BWU Staff Contact Information	
		Name:	
		Phone:	
		Email:	
Finance Options:	<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other		
Planned Project Delivery:	JUSTIFICATION		
Key Project Drivers:	Capacity Limitations, Future Growth		
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:
Sequence with Other Projects?	No	Related Projects:	Overlap with water line project
Status of Related Projects:			
Additional Notes:			

PLANNED SCHEDULE										
Phase	Award Dates	Completion Dates		Total Months						
Professional Services:	May-25	Apr-26		11						
Easement/ROW Acquisition:	Aug-25	Feb-26		6						
Construction:	Aug-26	Jun-27		10						
Status:	Under Design/Easement Acquisition			25						
COST AND FUNDING										
Opinion of Probable Cost				AACE Class:	3					
Item	Description	Quantity	Unit	Unit Price	Total					
1	Mobilization (5%)	1	LS	\$ 375,000	\$ 375,000					
2	Erosion Control & Maintenance	1	LS	\$ 80,000	\$ 80,000					
3	Traffic Control	1	LS	\$ 45,000	\$ 45,000					
4	Trench Excavation Safety	1	LS	\$ 180,000	\$ 180,000					
5	Construction Staking	1	LS	\$ 60,000	\$ 60,000					
6	Bonds and Insurance	1	LS	\$ 172,500	\$ 173,000					
7	Clearing and Grubbing	4	AC	\$ 50,000	\$ 200,000					
8	Site Restoration	1	LS	\$ 500,000	\$ 500,000					
9	Acceptance Testing - Manholes	80	EA	\$ 500	\$ 40,000					
10	Acceptance Testing - Pipe	4,678	LF	\$ 1	\$ 5,000					
11	Material and Acceptance Testing	1	LS	\$ 90,000	\$ 90,000					
12	Dewatering	1	LS	\$ 140,000	\$ 140,000					
13	30" SDR-26 PVC Sewer Line	1,616	LF	\$ 550	\$ 889,000					
14	24" SDR-26 PVC Sewer Line	1,320	LF	\$ 360	\$ 475,000					
15	24" SDR-26 PVC Sewer Line Via Trenchless	260	LF	\$ 1,200	\$ 312,000					
16	18" SDR-26 PVC Sewer Line	1,742	LF	\$ 270	\$ 470,000					
17	Cast in Place 6' Dia. Manhole (6'-12' Depth)	8	EA	\$ 25,000	\$ 200,000					
18	Cast in Place 5' Dia. Manhole (6'-12' Depth)	18	EA	\$ 20,000	\$ 360,000					
19	Manhole Liner	218	VF	\$ 300	\$ 65,000					
20	Remove Existing Manhole	15	EA	\$ 4,000	\$ 60,000					
21	Bypass Pumping	1	LS	\$ 775,000	\$ 775,000					
22	USACE Bat & Wetland Mitigation	1	LS	\$ 110,000	\$ 110,000					
23	Utility Relocations	1	LS	\$ 130,000	\$ 130,000					
24	Temporary Construction Easements	3	AC	\$ 30,000	\$ 90,000					
25	Permanent Utility Easements	3	AC	\$ 100,000	\$ 300,000					
26	Utility Spot Digging	1	LS	\$ 90,000	\$ 90,000					
27	Sidewalk and Demolition and Replacement	1	LS	\$ 20,000	\$ 20,000					
28	30" DIP Sewer Line	200	LF	\$ 1,050	\$ 210,000					
29	Paving Repair	1,300	SY	\$ 150	\$ 195,000					
30	Soft Surface Trail Reroute & Restoration	1	LS	\$ 200,000	\$ 200,000					
31	Confined LOC Method Multiplier	1	LS	\$ 320,000	\$ 320,000					
32	Limited Work Hours Multiplier	1	LS	\$ 160,000	\$ 160,000					
33	Pedestrian Greenway Reroute	1	LS	\$ 100,000	\$ 100,000					
34	36" Steel Casing & Restrained Pipe	150	LF	\$ 525	\$ 79,000					
35	Greenway Repair	360	SY	\$ 250	\$ 90,000					
36	Rock Excavation	1	LS	\$ 280,000	\$ 280,000					
Subtotal:				\$ 7,478,000						
Construction Contingency:				\$ 2,243,000						
Construction Subtotal with Contingency:				\$ 9,721,000						
Pre-Construction Professional Services Cost:				\$ 875,000						
Construction Professional Services Cost:				\$ 389,000						
Acquisition Cost:				\$ 507,000						
2025 TOTAL UNESCALATED PROJECT COSTS = \$ 11,492,000										
<i>Date for Cost Basis</i>		Phase	Year Planned	Escalated Costs						
Nov-25		Pre-Construction Professional Services:	2025	\$ 875,000						
		Acquisition:	2025	\$ 501,000						
		Construction Professional Services:	2026	\$ 403,000						
<i>Annual Future Cost Escalation</i>		Construction:	2026	\$ 10,067,000						
5.00%		TOTAL ESCALATED PROJECT COSTS = \$ 11,846,000								



Bentonville Water Utilities

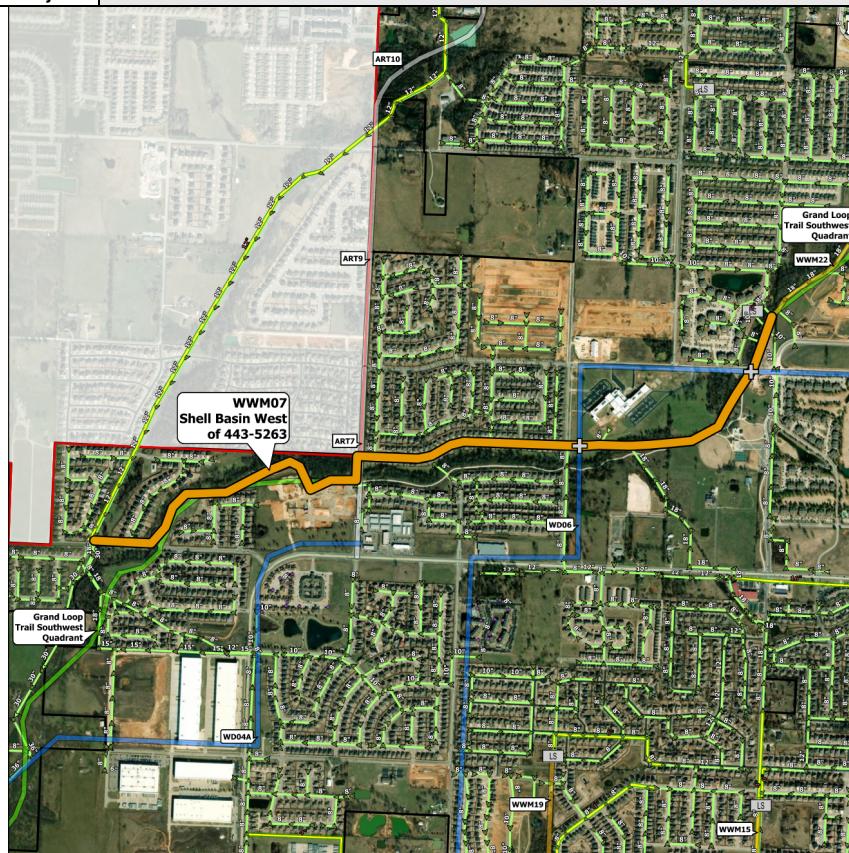
WWM07

PROJECT OVERVIEW

CIP Category:	WASTEWATER MAINS	Project Number:	
		Template	
		<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar
CIP Subcategory:	Interceptor Mains - Replacement	<input type="checkbox"/> McKisic	<input checked="" type="checkbox"/> Shell
		<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS
		<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch
Project Name:	Shell Basin - west of 443-5263 (Thornberry LS)	Basin(s):	
		<input type="checkbox"/> Other	
Project Description:	18" to 24",	EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$13,757,000	
		Project Needed by: 2026	
Project Objectives:		Status: Planned	
		BWU Staff Contact Information	
		Name: _____	
Finance Options:	□ State Revolving Funds □ Grant	Phone: _____	
		□ Municipal Bonds □ TBD	
		□ Cash Reserves □ WIFIA	
□ Development Fee □ Other			
Planned Project Delivery:			

JUSTIFICATION

Key Project Drivers:	
Triggers to Accelerate Proj:	
Funding Opportunity <input checked="" type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:	
Sequence with Other Projects?	Yes Related Projects: WWM06. Overlaps with water line, sewer line, trail, and road projects
Status of Related Projects:	



Additional Notes:

PLANNED SCHEDULE									
Phase	Award Dates	Completion Dates		Total Months					
Professional Services:	Jan-26	Dec-26		12					
Easement/ROW Acquisition:	Mar-26	Dec-26		10					
Construction:	Mar-27	Mar-28		12					
Status:	Planned			26					
COST AND FUNDING									
Opinion of Probable Cost					AACE Class: 5				
Item	Description	Quantity	Unit	Unit Price	Total				
1	Mobilization (5%)	1	LS	\$ 403,500	\$ 404,000				
2	Traffic Control	12	MO	\$ 6,000	\$ 72,000				
3	SWPPP (1%)	1	LS	\$ 81,000	\$ 81,000				
4	Clearing and Grubbing	2.75	AC	\$ 10,000	\$ 28,000				
5	Utility Relocation (2%)	1	LS	\$ 161,500	\$ 162,000				
6	24" PVC Gravity Sewer by Open Cut	10,000	LF	\$ 360	\$ 3,600,000				
7	24" PVC Gravity Sewer and 36" Steel Casing by Bore	1,200	LF	\$ 1,800	\$ 2,160,000				
8	Trench Safety	10,000	LF	\$ 5	\$ 50,000				
9	Removal of Existing Pipe	10,000	LF	\$ 10	\$ 100,000				
10	5' Cast in Place Manhole (10' to 15' deep)	25	EA	\$ 22,000	\$ 550,000				
11	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 1,000,000	\$ 1,000,000				
12	Pavement Restoration	5,000	SY	\$ 80	\$ 400,000				
13	Rock Excavation	400	CY	\$ 325	\$ 130,000				
14	Remove Existing Manholes	25	EA	\$ 3,000	\$ 75,000				
15	Temp. Easement (10' wide) (total in Acquisition with 15% contingency)	2.30	AC	\$ 2,500					
	Subtotal:				\$ 8,812,000				
	Construction Contingency:	30%			\$ 2,644,000				
	Construction Subtotal with Contingency:				\$ 11,456,000				
	Pre-Construction Professional Services Cost:	9%			\$ 1,031,000				
	Construction Professional Services Cost:	4%			\$ 458,000				
	Acquisition Cost:	1	LS	\$ 5,739	\$ 7,000				
	2025 TOTAL UNESCALATED PROJECT COSTS =								
<i>Date for Cost Basis</i>	<i>Phase</i>	<i>Year Planned</i>		<i>Escalated Costs</i>					
Nov-25	Pre-Construction Professional Services:	2026		\$ 1,038,000					
	Acquisition:	2026		\$ 7,000					
	Construction Professional Services:	2027		\$ 489,000					
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>	<i>2027</i>		<i>\$ 12,223,000</i>					
5.00%	TOTAL ESCALATED PROJECT COSTS =								
	\$ 13,757,000								



Bentonville Water Utilities

WWM08

PROJECT OVERVIEW

		Project Number: WWM08	
CIP Category:		Template	
WASTEWATER MAINS		<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar
CIP Subcategory:		<input type="checkbox"/> McKisic	<input type="checkbox"/> Shell
Interceptor Mains - Replacement		<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS
Project Name: NWA Regional Airport Basin, Southbound gravity line (Old Farm Gravity)		<input checked="" type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch
		<input type="checkbox"/> Other	
Basin(s):			
Project Description:		EXECUTIVE SUMMARY	
Replace segments of the existing 8" gravity line running southbound along Southwest Regional Airport Boulevard. Segment from MH 562-766 to the proposed new lift station (WW03) will be upgraded to 12". Manholes will also be replaced.		Total Escalated Project Cost: \$2,100,000	
		Project Needed by: 2026	
		Status: Planned	
Project Objectives:		BWU Staff Contact Information	
		Name: _____	
		Phone: _____	
		Email: _____	
Finance Options:		<input type="checkbox"/> State Revolving Funds	<input type="checkbox"/> Municipal Bonds
		<input type="checkbox"/> Grant	<input type="checkbox"/> Cash Reserves
		<input type="checkbox"/> TBD	<input checked="" type="checkbox"/> Development Fee
		<input type="checkbox"/> WIFI	<input type="checkbox"/> Other
Planned Project Delivery:		JUSTIFICATION	
Key Project Drivers:		Capacity Limitations, Future Growth	
Triggers to Accelerate Proj:		<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure
		<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:
Sequence with Other Projects?		No	Related Projects: WWM16 and WW03
Status of Related Projects:			
Additional Notes:			

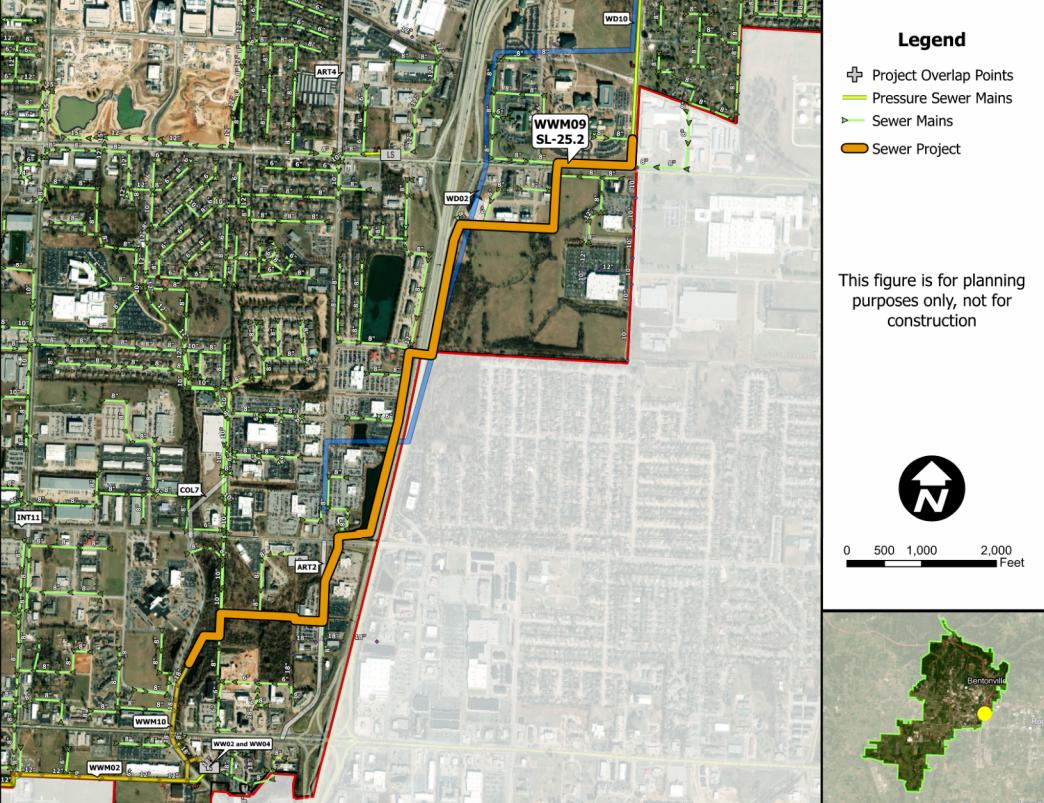
PLANNED SCHEDULE									
Phase	Award Dates	Completion Dates			Total Months				
Professional Services:	Jan-26	Jan-27			12				
Easement/ROW Acquisition:	Apr-26	Oct-26			6				
Construction:	Mar-27	Aug-28			18				
Status:	Planned				32				
COST AND FUNDING									
Opinion of Probable Cost					AACE Class:	5			
Item	Description	Quantity	Unit	Unit Price	Total				
1	Mobilization (5%)	1	LS	\$ 57,000	\$ 57,000				
2	Traffic Control	18	MO	\$ 6,000	\$ 108,000				
3	SWPPP (1%)	1	LS	\$ 11,500	\$ 12,000				
4	Clearing and Grubbing	0.75	AC	\$ 10,000	\$ 7,000				
5	Utility Relocation (2%)	1	LS	\$ 23,000	\$ 23,000				
6	12" PVC Gravity Sewer by Open Cut	2,717	LF	\$ 180	\$ 489,000				
7	12" PVC Gravity Sewer and 18" Steel Casing by Bore	150	LF	\$ 900	\$ 135,000				
8	Trench Safety	2,717	LF	\$ 5	\$ 14,000				
9	5' Cast in Place Manhole (10' to 15' deep)	10	EA	\$ 22,000	\$ 220,000				
10	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 134,000	\$ 134,000				
11	Pavement Restoration	453	SY	\$ 100	\$ 45,000				
12	Rock Excavation	109	CY	\$ 325	\$ 35,000				
13	Remove Existing Manholes	12	EA	\$ 3,000	\$ 36,000				
14	Removal of Existing Pipe	2,717	LF	\$ 10	\$ 27,000				
15	Temp. Easement (10' wide) (total in Acquisition with 15% contingency)	0.62	AC	\$ 2,500					
	Subtotal:				\$ 1,342,000				
	Construction Contingency:	30%			\$ 403,000				
	Construction Subtotal with Contingency:				\$ 1,745,000				
	Pre-Construction Professional Services Cost:	9%			\$ 157,000				
	Construction Professional Services Cost:	4%			\$ 70,000				
	Acquisition Cost:	1	LS	\$ 1,559	\$ 2,000				
2025 TOTAL UNESCALATED PROJECT COSTS =						\$ 1,974,000			
Date for Cost Basis	Phase	Year Planned			Escalated Costs				
Nov-25	Pre-Construction Professional Services:	2026			\$ 158,000				
	Acquisition:	2026			\$ 2,000				
	Construction Professional Services:	2027			\$ 75,000				
Annual Future Cost Escalation	Construction:	2027			\$ 1,865,000				
5.00%		TOTAL ESCALATED PROJECT COSTS =			\$ 2,100,000				



Bentonville Water Utilities

WWM09

PROJECT OVERVIEW

CIP Category:	WASTEWATER MAINS	Project Number:	
		<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar
CIP Subcategory:	Interceptor Mains - Replacement	<input type="checkbox"/> McKisic	<input type="checkbox"/> Shell
		<input type="checkbox"/> Shewmaker	<input checked="" type="checkbox"/> South LS
Project Name:	South Lift Station Basin SL-25.2: Replace 11916' of 8/12/18" main with 18/24"	<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch
		<input type="checkbox"/> Other	
Project Description:	Project SL-25.2 is located in subbasins SLS2, SLS4, and SLS5, and contains most of the northern portion of the modeled pipe in the South Lift Station Basin. Potential surcharging of the pipes in this project is estimated to occur in the 2025 horizon. This project includes upsizing 1,320 feet of 8" and 9,740 feet of 12" pipe to 18" and upsizing 856 feet of 18" pipe to 24"	EXECUTIVE SUMMARY	
		Total Escalated Project Cost:	\$16,105,000
Project Objectives:	Increase sewer main capacity to prevent potential surcharging in the future.	Project Needed by:	2026
		Status:	Planned
Finance Options:	<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other	Name:	
		Phone:	
Planned Project Delivery:		Email:	
JUSTIFICATION			
Key Project Drivers:	Capacity Limitations, Future Growth		
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:
Sequence with Other Projects?	No	Related Projects:	Overlap with water line project WD02
Status of Related Projects:			
Additional Notes:	replacement. The portion of the project that crosses Interstate 49 and continues downstream enters into commercial and residential areas where pipe bursting should be considered as a construction alternative.		

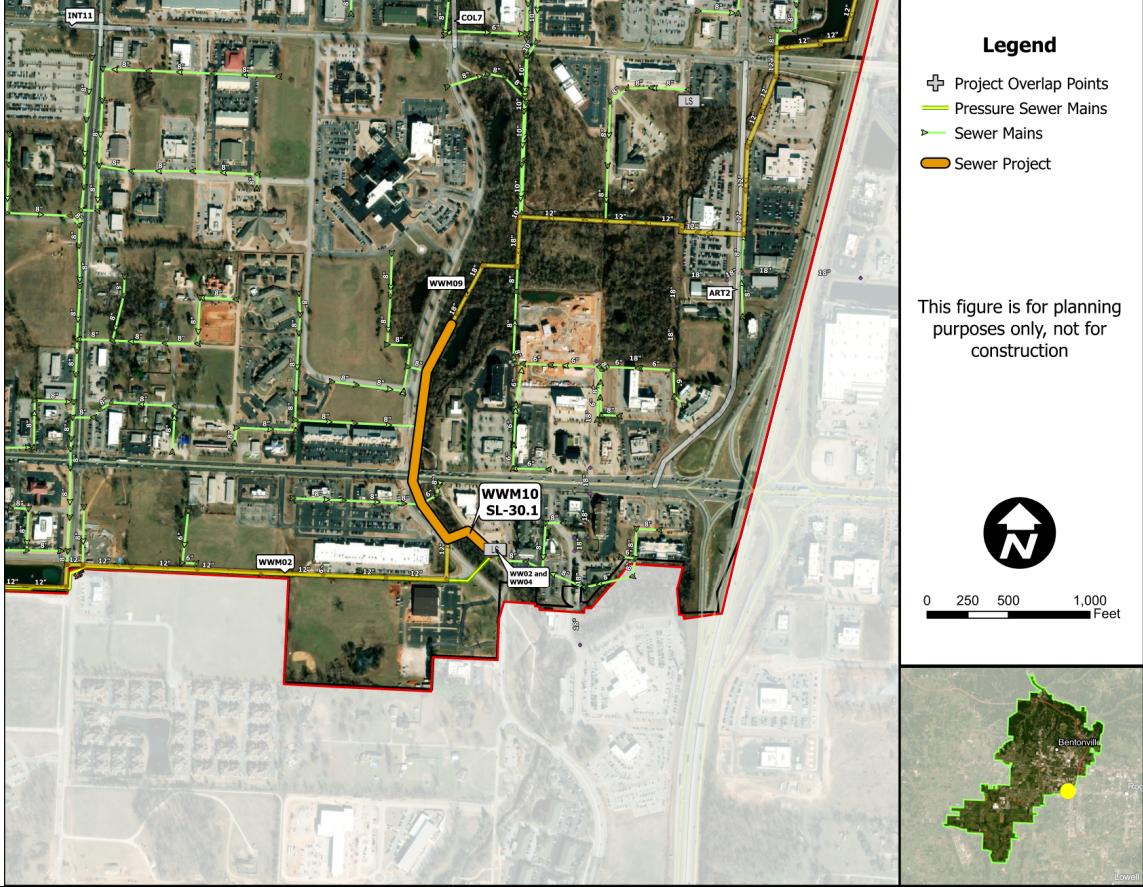
PLANNED SCHEDULE									
Phase	Award Dates	Completion Dates		Total Months					
Professional Services:	Jan-26	Sep-27		20					
Easement/ROW Acquisition:	Jul-26	Jan-27		6					
Construction:	Nov-27	Aug-29		21					
Status:	Planned			43					
COST AND FUNDING									
Opinion of Probable Cost					AACE Class:				
Item	Description	Quantity	Unit	Unit Price	5				
1	Mobilization (5%)	1	LS	\$ 445,000	\$ 445,000				
2	Traffic Control	21	MO	\$ 6,000	\$ 126,000				
3	SWPPP (1%)	1	LS	\$ 89,000	\$ 89,000				
4	Clearing and Grubbing	3.17	AC	\$ 10,000	\$ 32,000				
5	Utility Relocation (2%)	1	LS	\$ 178,000	\$ 178,000				
6	18" PVC Gravity Sewer by Open Cut	10,660	LF	\$ 290	\$ 3,091,000				
7	24" PVC Gravity Sewer by Open Cut	856	LF	\$ 375	\$ 321,000				
8	Trench Safety	11,516	LF	\$ 5	\$ 58,000				
9	Trenching Additional Depth 15'-20'	11,516	LF	\$ 100	\$ 1,152,000				
10	5' Cast in Place Manhole (10' to 15' deep)	44	EA	\$ 22,000	\$ 968,000				
11	Additional Manhole Depth	88	VF	\$ 500	\$ 44,000				
12	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 950,000	\$ 950,000				
13	Clearing and Grubbing	2,000	LF	\$ 15	\$ 30,000				
14	Bore	1,200	LF	\$ 1,500	\$ 1,800,000				
15	Rock Excavation	461	CY	\$ 100	\$ 46,000				
16	Pavement Restoration	1,919	SY	\$ 100	\$ 192,000				
17	Remove Existing Manholes	44	EA	\$ 3,000	\$ 132,000				
18	Removal of Existing Pipe	11,516	LF	\$ 10	\$ 115,000				
19	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	59,580	SF	\$ 5					
	Subtotal:				\$ 9,769,000				
	Construction Contingency:	30%			\$ 2,931,000				
	Construction Subtotal with Contingency:				\$ 12,700,000				
	Pre-Construction Professional Services Cost:	9%			\$ 1,143,000				
	Construction Professional Services Cost:	4%			\$ 508,000				
	Acquisition Cost:	1	LS	\$ 297,900	\$ 343,000				
	2025 TOTAL UNESCALATED PROJECT COSTS =								
<i>Date for Cost Basis</i>	<i>Phase</i>	<i>Year Planned</i>		<i>Escalated Costs</i>					
Nov-25	Pre-Construction Professional Services:	2026		\$ 1,153,000					
	Acquisition:	2026		\$ 355,000					
	Construction Professional Services:	2027		\$ 561,000					
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>	2027		\$ 14,036,000					
5.00%	TOTAL ESCALATED PROJECT COSTS =								
	\$ 16,105,000								



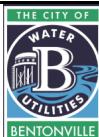
Bentonville Water Utilities

WWM10

PROJECT OVERVIEW

		Project Number: WWM10			
CIP Category:		Template			
WASTEWATER MAINS		<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar		
CIP Subcategory: Interceptor Mains - Replacement		<input type="checkbox"/> McKisic	<input type="checkbox"/> Shell		
Project Name: SL-30.1: Replace 1872' of 18" main with 24/30"		<input type="checkbox"/> Shewmaker	<input checked="" type="checkbox"/> South LS		
		<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch		
		<input type="checkbox"/> Other			
Project Description: Project SL-30.1 is located in subbasins SLS1 and SLS2 and is immediately upstream of the South Lift Station. Potential surcharging of the pipes in this project is estimated to occur in the 2030 horizon. This project includes upsizing 1,544 feet of 18" pipe to 24" and 328 feet of 18" pipe to 30".		Basin(s):			
		EXECUTIVE SUMMARY			
		Total Escalated Project Cost: \$4,505,000			
		Project Needed by: 2026			
		Status: Planned			
Project Objectives: Increase sewer main capacity to prevent potential surcharging in the future.		BWU Staff Contact Information			
		Name: _____			
		Phone: _____			
		Email: _____			
Finance Options:		<input type="checkbox"/> State Revolving Funds	<input type="checkbox"/> Municipal Bonds	<input type="checkbox"/> Cash Reserves	<input checked="" type="checkbox"/> Development Fee
		<input type="checkbox"/> Grant	<input type="checkbox"/> TBD	<input type="checkbox"/> WIFIA	<input type="checkbox"/> Other
Planned Project Delivery:					
JUSTIFICATION					
Key Project Drivers: Capacity Limitations, Future Growth					
Triggers to Accelerate Proj: <input type="checkbox"/> Funding Opportunity		<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:	
Sequence with Other Projects? No		Related Projects: Overlaps with road project			
Status of Related Projects:					
Additional Notes:					

PLANNED SCHEDULE									
Phase	Award Dates	Completion Dates		Total Months					
Professional Services:	Jan-26	Sep-26			8				
Easement/ROW Acquisition:	Mar-26	Sep-26			6				
Construction:	Nov-26	Apr-27			5				
Status:	Planned				15				
COST AND FUNDING									
Opinion of Probable Cost					AACE Class:	5			
Item	Description	Quantity	Unit	Unit Price	Total				
1	Mobilization (5%)	1	LS	\$ 132,000	\$ 132,000				
2	Traffic Control	5	MO	\$ 6,000	\$ 30,000				
3	SWPPP (1%)	1	LS	\$ 26,500	\$ 27,000				
4	Clearing and Grubbing	0.43	AC	\$ 20,000	\$ 9,000				
5	Utility Relocation (2%)	1	LS	\$ 53,000	\$ 53,000				
6	24" PVC Gravity Sewer by Open Cut	1,244	LF	\$ 375	\$ 467,000				
7	30" PVC Gravity Sewer by Open Cut	328	LF	\$ 460	\$ 151,000				
8	Trench Safety	1,572	LF	\$ 5	\$ 8,000				
9	Trenching Additional Depth 15'-20'	330	LF	\$ 100	\$ 33,000				
10	5' Cast in Place Manhole (10' to 15' deep)	44	EA	\$ 22,000	\$ 968,000				
11	Additional Manhole Depth	12	VF	\$ 500	\$ 6,000				
12	Pavement Restoration	284	SY	\$ 100	\$ 28,000				
13	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 327,000	\$ 327,000				
14	Clearing and Grubbing	1,000	LF	\$ 15	\$ 15,000				
15	24" PVC Gravity Sewer and 36" Steel Casing by Bore	300	LF	\$ 1,800	\$ 540,000				
16	Rock Excavation	63	CY	\$ 100	\$ 6,000				
17	Pavement Restoration	524	SY	\$ 80	\$ 42,000				
18	Remove Existing Manholes	11	EA	\$ 3,000	\$ 33,000				
19	Removal of Existing Pipe	1,572	LF	\$ 10	\$ 16,000				
20	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	9,360	SF	\$ 5					
	Subtotal:				\$ 2,891,000				
	Construction Contingency:	30%			\$ 867,000				
	Construction Subtotal with Contingency:				\$ 3,758,000				
	Pre-Construction Professional Services Cost:	9%			\$ 338,000				
	Construction Professional Services Cost:	4%			\$ 150,000				
	Acquisition Cost:	1	LS	\$ 46,800	\$ 54,000				
	2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 4,300,000			
Date for Cost Basis	Phase	Year Planned		Escalated Costs					
Nov-25	Pre-Construction Professional Services:	2026		\$ 341,000					
	Acquisition:	2026		\$ 55,000					
	Construction Professional Services:	2026		\$ 158,000					
Annual Future Cost Escalation	Construction:	2026		\$ 3,951,000					
5.00%	TOTAL ESCALATED PROJECT COSTS =					\$ 4,505,000			



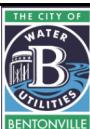
Bentonville Water Utilities

WWM11

PROJECT OVERVIEW

		Project Number: WWM11		Template
CIP Category: WASTEWATER MAINS		Basin(s):	<input type="checkbox"/> Haxton Road	<input checked="" type="checkbox"/> Nomad-Morningstar
CIP Subcategory: Interceptor Mains - New			<input type="checkbox"/> McKisic	<input type="checkbox"/> Shell
Project Name: Central Park Sewer Main Extension		<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS	
		<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch	
		<input type="checkbox"/> Other		
		EXECUTIVE SUMMARY		
		Total Escalated Project Cost:		\$4,303,000
		Project Needed by:		2028
		Status: Planned		
		BWU Staff Contact Information		
		Name: _____		
		Phone: _____		
		Email: _____		
Project Description: Extension of Central Park Sewer Main from existing 12" main to Central Park Lift Station.				
Project Objectives: Connect existing developments to existing 12" sewer main, take the existing lift station offline, and provide sewer service for future development.				
Finance Options: <input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other				
Planned Project Delivery:				
JUSTIFICATION				
Key Project Drivers:				
Triggers to Accelerate Proj:		<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact
Sequence with Other Projects?		No	Related Projects:	Overlaps with water line project
Status of Related Projects:				
Additional Notes:				

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-28	Oct-28		10			
Easement/ROW Acquisition:	Mar-28	Oct-28		8			
Construction:	Jan-29	Jan-30		12			
Status:	Planned			24			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class:		
Item	Description	Quantity	Unit	Unit Price	5		
1	Mobilization (5%)	1	LS	\$ 105,500	\$ 106,000		
2	Traffic Control	12	MO	\$ 6,000	\$ 72,000		
3	SWPPP (1%)	1	LS	\$ 21,500	\$ 22,000		
4	Clearing and Grubbing	2.06	AC	\$ 10,000	\$ 21,000		
5	Utility Relocation (2%)	1	LS	\$ 42,500	\$ 43,000		
6	8" PVC Gravity Sewer by Open Cut (10' to 15' deep)	3,235	LF	\$ 120	\$ 388,000		
7	12" PVC Gravity Sewer by Open Cut (10' to 15' deep)	4,235	LF	\$ 180	\$ 762,000		
8	Trench Safety	7,470	LF	\$ 5	\$ 37,000		
9	4' Cast in Place Manhole (10' to 15' deep)	24	EA	\$ 20,000	\$ 480,000		
10	Gravel Access Road	4,200	LF	\$ 55	\$ 231,000		
11	Core and Connect to Existing Manhole	1	EA	\$ 10,000	\$ 10,000		
12	Abandon Existing Lift Station and Force main	1	EA	\$ 100,000	\$ 100,000		
13	Rock Excavation	299	CY	\$ 325	\$ 97,000		
14					\$ -		
15	Appraisal & Acquisition per parcel (total in Acquisition with 15% contingency)	7	EA	\$ 13,500			
16	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	3.5	AC	\$ 25,000			
17	Temp. Easement (10' wide) (total in Acquisition with 15% contingency)	1.75	AC	\$ 2,500			
	Subtotal:				\$ 2,369,000		
	Construction Contingency:	30%			\$ 711,000		
	Construction Subtotal with Contingency:				\$ 3,080,000		
	Pre-Construction Professional Services Cost:	9%			\$ 277,000		
	Construction Professional Services Cost:	4%			\$ 123,000		
	Acquisition Cost:	1	LS	\$ 186,375	\$ 214,000		
2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 3,694,000		
<i>Date for Cost Basis</i>	<i>Phase</i>	<i>Year Planned</i>		<i>Escalated Costs</i>			
Nov-25	Pre-Construction Professional Services:	2028		\$ 309,000			
	Acquisition:	2028		\$ 241,000			
	Construction Professional Services:	2029		\$ 144,000			
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>	<i>2029</i>		<i>\$ 3,609,000</i>			
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 4,303,000		



Bentonville Water Utilities

WWM12

PROJECT OVERVIEW

CIP Category:	WASTEWATER MAINS	Project Number:	Template		
		<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar		
CIP Subcategory:	Interceptor Mains - Replacement	<input checked="" type="checkbox"/> McKisic	<input type="checkbox"/> Shell		
		<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS		
Project Name:	MK-40.1: Replace 2214' of 12" main with 18"	<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch		
		<input type="checkbox"/> Other			
Project Description:	Project MK-40.1 is located in subbasins MK12 and MK10, in southwest, downtown Bentonville. Potential surcharging of the pipes in this project is estimated to occur during the 2040 horizon. This project is in a residential neighborhood and includes upsizing 2,214 feet of 12" to 18".	EXECUTIVE SUMMARY			
		Total Escalated Project Cost:		\$2,664,000	
		Project Needed by:		2028	
		Status:		Planned	
				BWU Staff Contact Information	
Project Objectives:	Name: _____				
	Phone: _____				
	Email: _____				
Finance Options:	<input type="checkbox"/> State Revolving Funds	<input type="checkbox"/> Municipal Bonds	<input type="checkbox"/> Cash Reserves	<input checked="" type="checkbox"/> Development Fee	
	<input type="checkbox"/> Grant	<input type="checkbox"/> TBD	<input type="checkbox"/> WIFIA	<input type="checkbox"/> Other	
Planned Project Delivery:					
JUSTIFICATION					
Key Project Drivers:	Capacity Limitations, Future Growth				
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:	
Sequence with Other Projects?	No	Related Projects:	Overlaps with road project		
Status of Related Projects:	 <p>Legend</p> <ul style="list-style-type: none">Project Overlap PointsPressure Sewer MainsSewer MainsSewer Project <p>This figure is for planning purposes only, not for construction</p> <p>0 250 500 1,000 Feet</p>				
Additional Notes:					

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-28	Aug-28		8			
Easement/ROW Acquisition:	Mar-28	Aug-28		6			
Construction:	Oct-28	Apr-29		5			
Status:	Planned			15			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class:		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 69,000	\$ 69,000		
2	Traffic Control	5	MO	\$ 6,000	\$ 30,000		
3	SWPPP (1%)	1	LS	\$ 14,000	\$ 14,000		
4	Clearing and Grubbing	0.57	AC	\$ 20,000	\$ 11,000		
5	Utility Relocation (2%)	1	LS	\$ 27,500	\$ 28,000		
6	18" PVC Gravity Sewer by Open Cut	2,064	LF	\$ 270	\$ 557,000		
7	Trench Safety	2,064	LF	\$ 5	\$ 10,000		
8	5' Cast in Place Manhole (10' to 15' deep)	12	EA	\$ 22,000	\$ 264,000		
9	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 163,000	\$ 163,000		
10	18" PVC Gravity Sewer and 30" Steel Casing by Bore	150	LF	\$ 1,500	\$ 225,000		
11	Rock Excavation	83	CY	\$ 325	\$ 27,000		
12	Pavement Restoration	688	SY	\$ 100	\$ 69,000		
13	Remove Existing Manholes	12	EA	\$ 3,000	\$ 36,000		
14	Removal of Existing Pipe	2,064	LF	\$ 10	\$ 21,000		
15	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	11,070	SF	\$ 5			
	Subtotal:				\$ 1,524,000		
	Construction Contingency:	30%			\$ 457,000		
	Construction Subtotal with Contingency:				\$ 1,981,000		
	Pre-Construction Professional Services Cost:	9%			\$ 178,000		
	Construction Professional Services Cost:	4%			\$ 79,000		
	Acquisition Cost:	11,070	SF	\$ 5	\$ 64,000		
	2025 TOTAL UNESCALATED PROJECT COSTS =						
<i>Date for Cost Basis</i>	<i>Phase</i>	<i>Year Planned</i>					
Nov-25	Pre-Construction Professional Services:		2028	\$	198,000		
	Acquisition:		2028	\$	72,000		
	Construction Professional Services:		2028	\$	92,000		
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>		2028	\$	2,302,000		
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 2,664,000		



Bentonville Water Utilities

WWM13

PROJECT OVERVIEW

CIP Category:	WASTEWATER MAINS	Project Number:		Template	
		Basin(s):	<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar	<input checked="" type="checkbox"/> McKisic
CIP Subcategory:	<input type="checkbox"/> Shewmaker		<input type="checkbox"/> South LS	<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch
	<input type="checkbox"/> Other				
Project Name:	MK-45.1: Replace 1237' of 18" main with 24"				
Project Description:	Project MK-45.1 is located in subbasin MK10, slightly downstream of Project MK-40.1 in a commercial area. Potential surcharging of the pipes in this project is estimated to occur during the 2045 horizon. This project includes upsizing 1,237 feet of 18" pipe to 24".	EXECUTIVE SUMMARY			
		Total Escalated Project Cost:		\$4,360,000	
		Project Needed by:		2028	
		Status:		Planned	
Project Objectives:	Increase pipeline capacity to prevent potential surcharging in the future.	BWU Staff Contact Information			
		Name:			
		Phone:			
Finance Options:	<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Grant	<input type="checkbox"/> Municipal Bonds <input type="checkbox"/> TBD		<input type="checkbox"/> Cash Reserves <input type="checkbox"/> WIFIA	
		<input checked="" type="checkbox"/> Development Fee		<input type="checkbox"/> Other	
Planned Project Delivery:					
JUSTIFICATION					
Key Project Drivers:	Capacity Limitations, Future Growth				
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:	
Sequence with Other Projects?	No	Related Projects:			
Status of Related Projects:					
<p>Additional Notes:</p>					

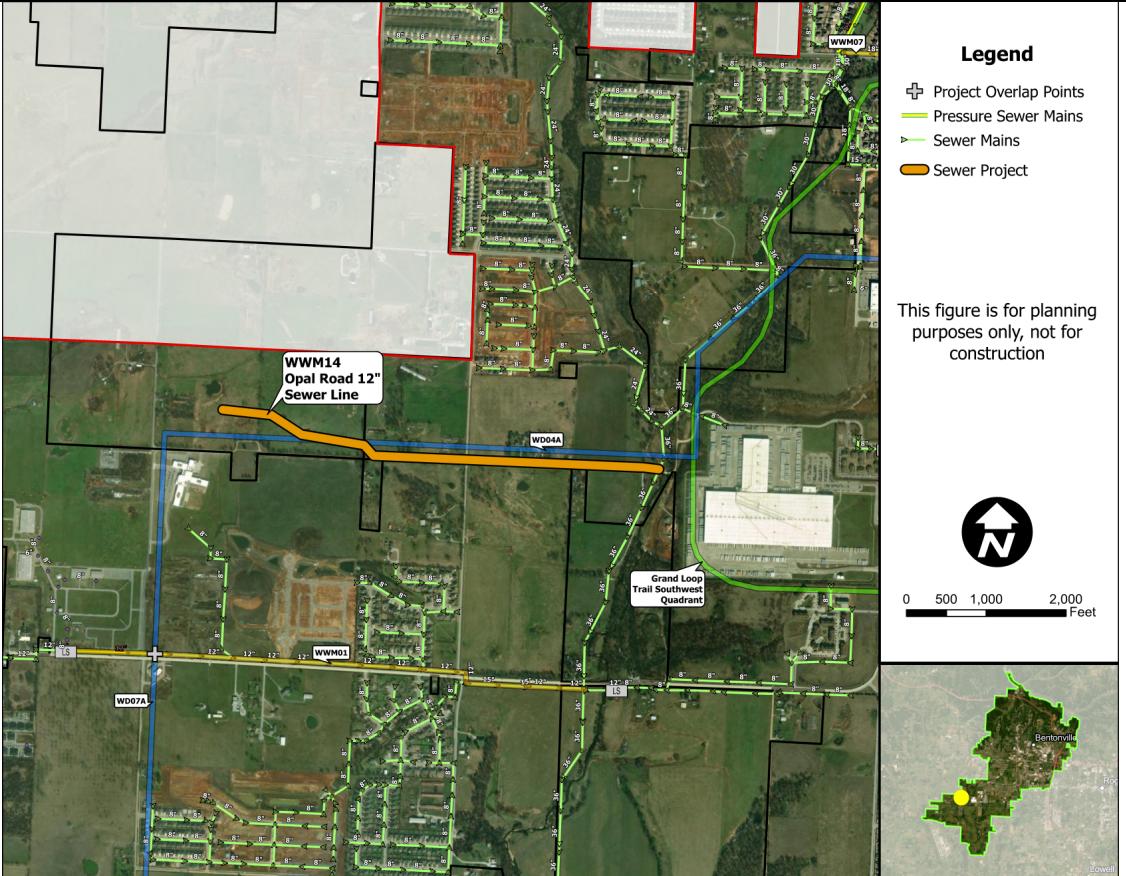
PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-28	Jul-28		7			
Easement/ROW Acquisition:	Mar-28	Jul-28		5			
Construction:	Sep-28	Mar-29		5			
Status:	Planned			14			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 116,500	\$ 117,000		
2	Traffic Control	5	MO	\$ 6,000	\$ 30,000		
3	SWPPP (1%)	1	LS	\$ 23,500	\$ 24,000		
4	Clearing and Grubbing	0.07	AC	\$ 20,000	\$ 1,000		
5	Utility Relocation (2%)	1.00	LS	\$ 47,000	\$ 47,000		
6	24" PVC Gravity Sewer by Open Cut	237	LF	\$ 360	\$ 85,000		
7	Trench Safety	237	LF	\$ 5	\$ 1,000		
8	5' Cast in Place Manhole (10' to 15' deep)	5	EA	\$ 22,000	\$ 110,000		
9	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 300,000	\$ 300,000		
10	24" PVC Gravity Sewer and 36" Steel Casing by Bore	1,000	LF	\$ 1,800	\$ 1,800,000		
11	Rock Excavation	9	CY	\$ 325	\$ 3,000		
12	Pavement Restoration	142	SY	\$ 100	\$ 14,000		
13	Remove Existing Manholes	5	EA	\$ 3,000	\$ 15,000		
14	Removal of Existing Pipe	237	LF	\$ 10	\$ 2,000		
15	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	6,185	SF	\$ 5			
	Subtotal:				\$ 2,549,000		
	Construction Contingency:	30%			\$ 765,000		
	Construction Subtotal with Contingency:				\$ 3,314,000		
	Pre-Construction Professional Services Cost:	9%			\$ 298,000		
	Construction Professional Services Cost:	4%			\$ 133,000		
	Acquisition Cost:	6,185	SF	\$ 5	\$ 36,000		
	2025 TOTAL UNESCALATED PROJECT COSTS =				\$ 3,781,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2028		\$ 332,000			
	Acquisition:	2028		\$ 40,000			
	Construction Professional Services:	2028		\$ 154,000			
Annual Future Cost Escalation	Construction:	2028		\$ 3,834,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 4,360,000		



Bentonville Water Utilities

WWM14

PROJECT OVERVIEW

		Bentonville Water Utilities		WWM14
		PROJECT OVERVIEW		
CIP Category:		WASTEWATER MAINS		Project Number:
CIP Subcategory:		Interceptor Mains - New		<input type="checkbox"/> Haxton Road <input type="checkbox"/> Nomad-Morningstar <input type="checkbox"/> McKisic <input type="checkbox"/> Shell <input type="checkbox"/> Shewmaker <input type="checkbox"/> South LS <input checked="" type="checkbox"/> Spr Crk-Vaughn <input type="checkbox"/> Town Branch <input type="checkbox"/> Other
Project Name:		Opal Road Basin		Basin(s):
Project Description:		Install a 12" PVC gravity line in the Opal Road Basin that will tie into the 36" NACA interceptor.		EXECUTIVE SUMMARY
Project Objectives:		Will establish connection to city sewer system in the Opal Road Basin to support future development.		Total Escalated Project Cost: \$3,875,000 Project Needed by: Undetermined Status: Planned
Finance Options:		<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other		BWU Staff Contact Information
Planned Project Delivery:				
JUSTIFICATION				
Key Project Drivers:		Future Development		
Triggers to Accelerate Proj:		<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other: Growth
Sequence with Other Projects?		No	Related Projects:	Overlaps with water line project
Status of Related Projects:				
Additional Notes:		Any additional infrastructure such as gravity lines or pump stations that would be needed to tie future developments into the proposed gravity line will be the responsibility of future developers.		

PLANNED SCHEDULE									
Phase	Award Dates	Completion Dates		Total Months					
Professional Services:	Jan-30	Oct-30		10					
Easement/ROW Acquisition:	Mar-30	Oct-30		8					
Construction:	Jan-31	Dec-31		12					
Status:	Planned			24					
COST AND FUNDING									
Opinion of Probable Cost					AACE Class:				
Item	Description	Quantity	Unit	Unit Price	Total				
1	Mobilization (5%)	1	LS	\$ 88,500	\$ 89,000				
2	Traffic Control	12	MO	\$ 6,000	\$ 71,000				
3	SWPPP (1%)	1	LS	\$ 18,000	\$ 18,000				
4	Clearing and Grubbing	1.61	AC	\$ 10,000	\$ 16,000				
5	Utility Relocation (2%)	1	LS	\$ 35,500	\$ 36,000				
6	12" PVC Gravity Sewer by Open Cut	5,858	LF	\$ 180	\$ 1,054,000				
7	4' Diameter Manhole (5-10 ft Depth)	15	EA	\$ 15,000	\$ 225,000				
8	4' Diameter Manhole (10-15 ft Depth)	1	EA	\$ 20,000	\$ 20,000				
9	4' Diameter Manhole (15-20 ft Depth)	4	EA	\$ 25,000	\$ 100,000				
10	Trench Safety	5,858	LF	\$ 5	\$ 29,000				
11	Pavement Restoration	2,604	SY	\$ 100	\$ 260,000				
12	Rock Excavation	234	CY	\$ 325	\$ 76,000				
13	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	2.69	AC	\$ 25,000					
	<i>Subtotal:</i>				\$ 1,994,000				
	<i>Construction Contingency:</i>	30%			\$ 598,000				
	<i>Construction Subtotal with Contingency:</i>				\$ 2,592,000				
	<i>Pre-Construction Professional Services Cost:</i>	9%			\$ 233,000				
	<i>Construction Professional Services Cost:</i>	4%			\$ 104,000				
	<i>Acquisition Cost:</i>	1	LS	\$ 67,000	\$ 77,000				
	2025 TOTAL UNESCALATED PROJECT COSTS =								
<i>Date for Cost Basis</i>	<i>Phase</i>	<i>Year Planned</i>		<i>Escalated Costs</i>					
Nov-25	Pre-Construction Professional Services:	2030		\$ 287,000					
	Acquisition:	2030		\$ 96,000					
	Construction Professional Services:	2031		\$ 135,000					
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>	2031		\$ 3,357,000					
5.00%	TOTAL ESCALATED PROJECT COSTS =								
	\$ 3,875,000								



Bentonville Water Utilities

WWM15

CIP Category:

WASTEWATER MAINS

Project Number:

<input type="checkbox"/>	Haxton Road	<input checked="" type="checkbox"/>	Nomad-Morningstar
<input type="checkbox"/>	McKisic	<input type="checkbox"/>	Shell
<input type="checkbox"/>	Shewmaker	<input type="checkbox"/>	South LS
<input type="checkbox"/>	Spr Crk-Vaughn	<input type="checkbox"/>	Town Branch
<input type="checkbox"/>	Other		

CIP Subcategory: Interceptor Mains - New

Project Name: Morningstar Sewer Main Extension

Basin(s):

Project Description: Extension of Morningstar sewer main from existing 18" main. Project will eliminate three lift stations.

EXECUTIVE SUMMARY

Total Escalated Project Cost: \$10,358,000

Project Needed by: Undetermined

Status: Planned

Project Objectives: Connect existing developments to existing 18" sewer main, take the existing lift station offline, and provide sewer service for future development.

BWU Staff Contact Information

Name:

Phone:

Email:

Finance Options: State Revolving Funds Municipal Bonds Cash Reserves Development Fee
 Grant TBD WIFIA Other

Planned Project Delivery:

JUSTIFICATION

Key Project Drivers:

Triggers to Accelerate Proj: Funding Opportunity Community/ Stakeholder Pressure Risk of External Impact Other:

Sequence with Other Projects? No Related Projects: WWM03. Overlaps with water line, sewer line, road, and trail projects

Status of Related Projects:



Legend

- Project Overlap Points
- Pressure Sewer Mains
- Sewer Mains
- Sewer Project

This figure is for planning purposes only, not for construction

Additional Notes:

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-30	Apr-31		15			
Easement/ROW Acquisition:	Apr-30	Apr-31		12			
Construction:	Jun-31	Dec-32		18			
Status:	Planned			35			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 224,500	\$ 225,000		
2	Traffic Control	18	MO	\$ 6,000	\$ 108,000		
3	SWPPP (1%)	1	LS	\$ 45,000	\$ 45,000		
4	Clearing and Grubbing	3.27	AC	\$ 10,000	\$ 33,000		
5	Utility Relocation (2%)	1	LS	\$ 90,000	\$ 90,000		
6	8" PVC Gravity Sewer by Open Cut (10' to 15' deep)	165	LF	\$ 120	\$ 20,000		
7	12" PVC Gravity Sewer by Open Cut (10' to 15' deep)	3,075	LF	\$ 180	\$ 554,000		
8	18" PVC Gravity Sewer by Open Cut (10' to 15' deep)	8,630	LF	\$ 270	\$ 2,330,000		
9	Trench Safety	11,870	LF	\$ 5	\$ 59,000		
10	4' Cast in Place Manhole (10' to 15' deep)	16	EA	\$ 20,000	\$ 320,000		
11	5' Cast in Place Manhole (10' to 15' deep)	27	EA	\$ 22,000	\$ 594,000		
12	Gravel Access Road	1,781	LF	\$ 33	\$ 59,000		
13	Core and Connect to Existing Manhole	2	EA	\$ 10,000	\$ 20,000		
14	Abandon and Remove Existing Gravity Sewer	695	LF	\$ 20	\$ 14,000		
15	Abandon Existing Lift Station and Force main	3	EA	\$ 100,000	\$ 300,000		
16	Pavement Restoration	659	SY	\$ 100	\$ 66,000		
17	Rock Excavation	475	CY	\$ 325	\$ 154,000		
18	Appraisal & Acquisition per parcel (total in Acquisition with 15% contingency)	27	EA	\$ 13,500			
19	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	5.09	AC	\$ 25,000			
20	Temp. Easement (10' wide) (total in Acquisition with 15% contingency)	2.55	AC	\$ 2,500			
Subtotal:				\$ 4,991,000			
Construction Contingency:				\$ 1,497,000			
Construction Subtotal with Contingency:				\$ 6,488,000			
Pre-Construction Professional Services Cost:				\$ 584,000			
Construction Professional Services Cost:				\$ 260,000			
Acquisition Cost:				1	LS		
				\$ 498,125	\$ 573,000		
2025 TOTAL UNESCALATED PROJECT COSTS =							
\$ 7,905,000							
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2030		\$ 719,000			
	Acquisition:	2030		\$ 715,000			
	Construction Professional Services:	2031		\$ 344,000			
Annual Future Cost Escalation	Construction:	2031		\$ 8,580,000			
5.00%					TOTAL ESCALATED PROJECT COSTS = \$ 10,358,000		



Bentonville Water Utilities

WWM16

PROJECT OVERVIEW

CIP Category:

WASTEWATER MAINS

CIP Subcategory: Interceptor Mains - New

Project Name: NWA National Airport Basin, Southwest

Project Number:

Template

Haxton Road
 McKisic
 Shewmaker
 Spr Crk-Vaughn
 Other

□ Nomad-Morningstar
□ Shell
□ South LS
□ Town Branch

Basin(s):

Project Description: Install a new gravity main that runs along the southern side of Southwest

Regional Airport Boulevard and will tie into the new Old Farm Lift Station

EXECUTIVE SUMMARY

Total Escalated Project Cost: \$1,701,000

Project Needed by: 2030

Status: Planned

BWU Staff Contact Information

Name:

Phone:

Email:

Project Objectives: XNA basin.

Finance Options: State Revolving Funds Municipal Bonds Cash Reserves Development Fee
 Grant TBD WIFIA Other

Planned Project Delivery:

JUSTIFICATION

Key Project Drivers: Capacity Limitations, Future Growth

Triggers to Accelerate Proj: Funding Opportunity Community/ Stakeholder Pressure Risk of External Impact Other:

Sequence with Other Projects? No Related Projects: Overlaps with sewer line projects

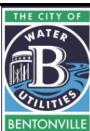
Status of Related Projects:



This figure is for planning purposes only, not for construction

Additional Notes:

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-30	Dec-30		12			
Easement/ROW Acquisition:	Mar-30	Dec-30		10			
Construction:	Feb-31	Aug-32		18			
Status:	Planned			32			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 34,500	\$ 35,000		
2	Traffic Control	18	MO	\$ 6,000	\$ 109,000		
3	SWPPP (1%)	1	LS	\$ 7,000	\$ 7,000		
4	Clearing and Grubbing	0.84	AC	\$ 20,000	\$ 17,000		
5	Utility Relocation (2%)	1	LS	\$ 14,000	\$ 14,000		
6	8" PVC Gravity Sewer by Open Cut	2,596	LF	\$ 120	\$ 312,000		
7	12" PVC Gravity Sewer by Open Cut	459	LF	\$ 180	\$ 83,000		
8	Trench Safety	3,055	LF	\$ 5	\$ 15,000		
9	4' Cast in Place Manhole (5' to 10' deep)	11	EA	\$ 15,000	\$ 165,000		
10	4' Cast in Place Manhole (10' to 15' deep)	3	EA	\$ 20,000	\$ 60,000		
11	Pavement Restoration	85	SY	\$ 100	\$ 8,000		
12	Rock Excavation	122	CY	\$ 325	\$ 40,000		
13	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	1.40	AC	\$ 25,000			
	Subtotal:				\$ 865,000		
	Construction Contingency:	30%			\$ 260,000		
	Construction Subtotal with Contingency:				\$ 1,125,000		
	Pre-Construction Professional Services Cost:	9%			\$ 101,000		
	Construction Professional Services Cost:	4%			\$ 45,000		
	Acquisition Cost:	1	LS	\$ 35,067	\$ 40,000		
				2025 TOTAL UNESCALATED PROJECT COSTS =	\$ 1,311,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2030		\$ 124,000			
	Acquisition:	2030		\$ 50,000			
	Construction Professional Services:	2031		\$ 59,000			
Annual Future Cost Escalation	Construction:	2031		\$ 1,468,000			
5.00%		TOTAL ESCALATED PROJECT COSTS =		\$ 1,701,000			



Bentonville Water Utilities

WWM17

PROJECT OVERVIEW

		Project Number: <input type="checkbox"/> Haxton Road <input type="checkbox"/> Nomad-Morningstar <input checked="" type="checkbox"/> McKisic <input type="checkbox"/> Shell <input type="checkbox"/> Shewmaker <input type="checkbox"/> South LS <input type="checkbox"/> Spr Crk-Vaughn <input type="checkbox"/> Town Branch <input type="checkbox"/> Other	
CIP Category: WASTEWATER MAINS		Template	
CIP Subcategory: Interceptor Mains - Replacement		Basin(s):	
Project Name: MK-25.1: Replace 3167' of 8/10" main with 12"			
Project Description: Project MK-25.1 is located in subbasins MK1 and MK3, upstream of the Turner Lift Station. Potential surcharging of the pipes in this project is estimated to occur in the 2025 horizon. This project crosses and then runs parallel to N Walton Blvd through mostly open green space and includes upsizing 482 feet of 8" and 2,685 feet of 10" pipe to 12".		EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$3,107,000	
		Project Needed by: Undetermined	
		Status: Planned	
Project Objectives: Increase pipeline capacity to prevent potential surcharging in the future.		BWU Staff Contact Information	
		Name: _____	
		Phone: _____	
Finance Options: <input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other		Email: _____	
JUSTIFICATION			
Key Project Drivers: Capacity Limitations, Future Growth			
Triggers to Accelerate Proj: <input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:			
Sequence with Other Projects? No		Related Projects: _____	
Status of Related Projects:			
Additional Notes:			

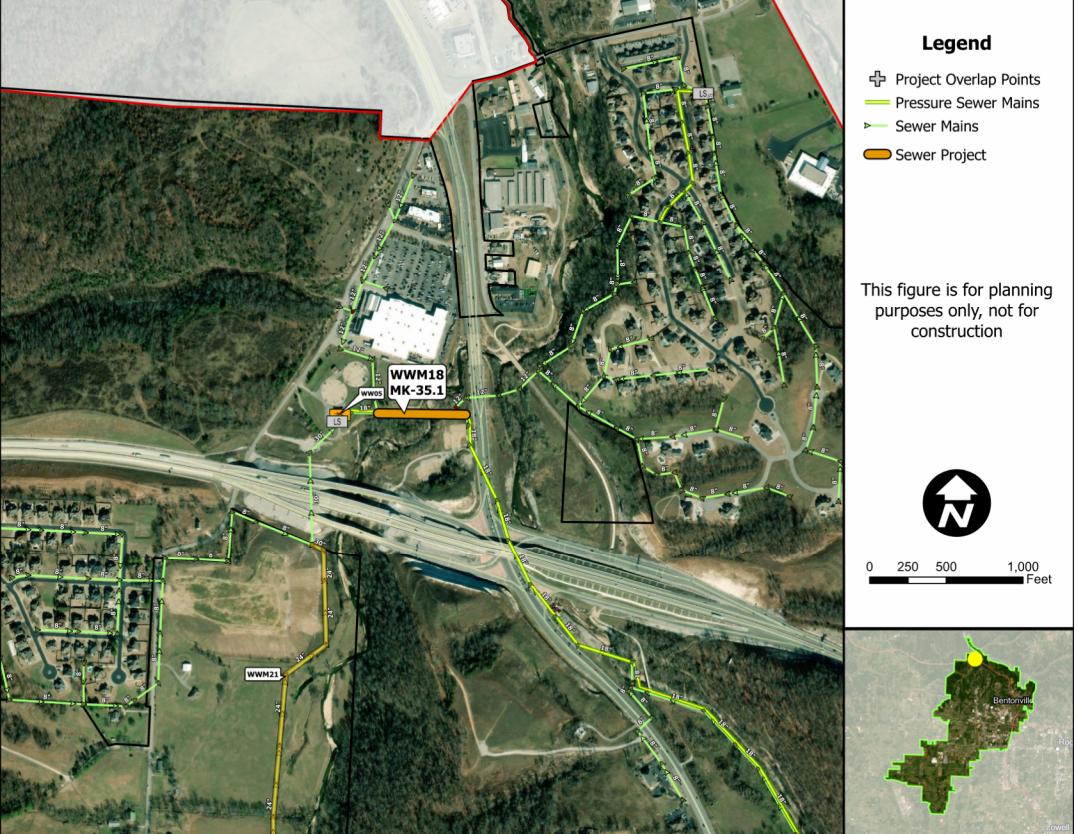
PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-30	Oct-30		9			
Easement/ROW Acquisition:	Mar-30	Oct-30		6			
Construction:	Dec-30	Jul-31		7			
Status:	Planned			18			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 70,500	\$ 71,000		
2	Traffic Control	7	MO	\$ 6,000	\$ 42,000		
3	SWPPP (1%)	1	LS	\$ 14,500	\$ 15,000		
4	Clearing and Grubbing	2.62	AC	\$ 10,000	\$ 26,000		
5	Utility Relocation (2%)	1	LS	\$ 28,500	\$ 29,000		
6	12" PVC Gravity Sewer by Open Cut	3,167	LF	\$ 180	\$ 570,000		
7	Trench Safety	3,167	LF	\$ 5	\$ 16,000		
8	4' Diameter Manhole (5-10 ft Depth)	13	EA	\$ 15,000	\$ 195,000		
9	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 158,000	\$ 158,000		
10	12" PVC Gravity Sewer and 18" Steel Casing by Bore	250	LF	\$ 900	\$ 225,000		
11	Rock Excavation	127	CY	\$ 325	\$ 41,000		
12	Pavement Restoration	1,584	SY	\$ 80	\$ 127,000		
13	Remove Existing Manholes	13	EA	\$ 3,000	\$ 39,000		
14	Removal of Existing Pipe	3,167	LF	\$ 10	\$ 32,000		
15	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	15,835	SF	\$ 5			
	Subtotal:				\$ 1,586,000		
	Construction Contingency:	30%			\$ 476,000		
	Construction Subtotal with Contingency:				\$ 2,062,000		
	Pre-Construction Professional Services Cost:	9%			\$ 186,000		
	Construction Professional Services Cost:	4%			\$ 82,000		
	Acquisition Cost:	1	LS	\$ 79,175	\$ 91,000		
	2025 TOTAL UNESCALATED PROJECT COSTS =				\$ 2,421,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2030		\$ 229,000			
	Acquisition:	2030		\$ 113,000			
	Construction Professional Services:	2030		\$ 106,000			
Annual Future Cost Escalation	Construction:	2030		\$ 2,659,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 3,107,000		



Bentonville Water Utilities

WWM18

PROJECT OVERVIEW

		Project Number: WWM18	
CIP Category: WASTEWATER MAINS		Template	
CIP Subcategory: Interceptor Mains - Replacement		<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar
Project Name: MK-35.1: Replace 462' of 18" main with 24"		<input checked="" type="checkbox"/> McKisic	<input type="checkbox"/> Shell
		<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS
		<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch
		<input type="checkbox"/> Other	
Project Description: Project MK-35.1 is located in subbasin MK1, directly upstream of the Turner Lift Station. Potential surcharging of the pipes in this project is estimated to occur during the 2035 horizon. This project is northwest of the Interstate 49/Highway 71 interchange and crosses McKisic Creek. This project includes upsizing 462 feet of 18" pipe to 24".		Basin(s):	
		EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$1,106,000	
		Project Needed by: Undetermined	
		Status: Planned	
Project Objectives: Increase pipeline capacity to prevent potential surcharging in the future.		BWU Staff Contact Information	
Finance Options: <input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other		Name: _____	
Planned Project Delivery:		Phone: _____	
		Email: _____	
JUSTIFICATION			
Key Project Drivers: Capacity Limitations, Future Growth			
Triggers to Accelerate Proj: <input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:			
Sequence with Other Projects? No		Related Projects: _____	
Status of Related Projects:		 <p>Legend</p> <ul style="list-style-type: none">Project Overlay PointsPressure Sewer MainsSewer MainsSewer Project <p>This figure is for planning purposes only, not for construction</p> <p>0 250 500 1,000 Feet</p>	
Additional Notes:			

PLANNED SCHEDULE									
Phase	Award Dates	Completion Dates		Total Months					
Professional Services:	Jan-30	Aug-30		7					
Easement/ROW Acquisition:	Mar-30	Aug-30		5					
Construction:	Oct-30	Mar-31		5					
Status:	Planned			14					
COST AND FUNDING									
Opinion of Probable Cost					AACE Class: 5				
Item	Description	Quantity	Unit	Unit Price	Total				
1	Mobilization (5%)	1	LS	\$ 25,500	\$ 26,000				
2	Traffic Control	5	MO	\$ 6,000	\$ 30,000				
3	SWPPP (1%)	1	LS	\$ 5,500	\$ 6,000				
4	Clearing and Grubbing	0.13	AC	\$ 20,000	\$ 3,000				
5	Utility Relocation (2%)	1	LS	\$ 10,500	\$ 11,000				
6	24" PVC Gravity Sewer by Open Cut	462	LF	\$ 365	\$ 169,000				
7	Trench Safety	462	LF	\$ 5	\$ 2,000				
8	5' Cast in Place Manhole (10' to 15' deep)	3	EA	\$ 22,000	\$ 66,000				
9	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 64,000	\$ 64,000				
10	24" PVC Gravity Sewer and 36" Steel Casing by Bore	100	LF	\$ 1,800	\$ 180,000				
11	Rock Excavation	18	CY	\$ 325	\$ 6,000				
12	Pavement Restoration	64	SY	\$ 80	\$ 5,000				
13	Remove Existing Manholes	3	EA	\$ 3,000	\$ 9,000				
14	Removal of Existing Pipe	462	LF	\$ 10	\$ 5,000				
15	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	2,310	SF	\$ 5					
	Subtotal:				\$ 582,000				
	Construction Contingency:	30%			\$ 175,000				
	Construction Subtotal with Contingency:				\$ 757,000				
	Pre-Construction Professional Services Cost:	9%			\$ 68,000				
	Construction Professional Services Cost:	4%			\$ 30,000				
	Acquisition Cost:	1	LS	\$ 11,550	\$ 13,000				
	2025 TOTAL UNESCALATED PROJECT COSTS =								
<i>Date for Cost Basis</i>	<i>Phase</i>	<i>Year Planned</i>		<i>Escalated Costs</i>					
Nov-25	Pre-Construction Professional Services:	2030		\$ 84,000					
	Acquisition:	2030		\$ 16,000					
	Construction Professional Services:	2030		\$ 38,000					
<i>Annual Future Cost Escalation</i>	<i>Construction:</i>	2030		\$ 968,000					
5.00%	TOTAL ESCALATED PROJECT COSTS =								
	\$ 1,106,000								



Bentonville Water Utilities

WWM19

PROJECT OVERVIEW

CIP Category:	WASTEWATER MAINS	Project Number:		
		<input type="checkbox"/> Haxton Road	<input checked="" type="checkbox"/> Nomad-Morningstar	
CIP Subcategory:	Interceptor Mains - New	<input type="checkbox"/> McKisic	<input type="checkbox"/> Shell	
		<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS	
Project Name:	Morningstar North Branch Sewer Main Extension	<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch	
		<input type="checkbox"/> Other		
Project Description:	Extension of Morningstar Sewer Main Extension (WWM15) from old Summerlin Lift Station north. Abandon Brighton Cottages and Wildwood Lift Stations.	EXECUTIVE SUMMARY		
		Total Escalated Project Cost:	\$3,899,000	
		Project Needed by:	Undetermined	
		Status:	Planned	
Project Objectives:	Connect existing developments to existing 18" sewer main and proposed Morningstar Sewer Main Extension project. Take existing lift station offline and provide sewer service for future developments.	BWU Staff Contact Information		
		Name:		
		Phone:		
		Email:		
Finance Options:	<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Grant	<input type="checkbox"/> Municipal Bonds <input type="checkbox"/> TBD	<input type="checkbox"/> Cash Reserves <input type="checkbox"/> WIFIA	<input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Other
Planned Project Delivery:				

JUSTIFICATION

Key Project Drivers:					
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:	
Sequence with Other Projects?	Yes	Related Projects:	WWM15. Overlaps with water line, sewer line, and road projects		
Status of Related Projects:					



Additional Notes:

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-31	Oct-31		10			
Easement/ROW Acquisition:	Mar-31	Oct-31		8			
Construction:	Jan-32	Dec-32		12			
Status:	Planned			24			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class: 5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 84,000	\$ 84,000		
2	Traffic Control	12	MO	\$ 6,000	\$ 71,000		
3	SWPPP (1%)	1	LS	\$ 17,000	\$ 17,000		
4	Clearing and Grubbing	1.34	AC	\$ 10,000	\$ 13,000		
5	Utility Relocation (2%)	1	LS	\$ 33,500	\$ 34,000		
6	8" PVC Gravity Sewer by Open Cut (10' to 15' deep)	1,680	LF	\$ 120	\$ 202,000		
7	12" PVC Gravity Sewer by Open Cut (10' to 15' deep)	3,195	LF	\$ 180	\$ 575,000		
8	Trench Safety	4,875	LF	\$ 5	\$ 24,000		
9	4' Cast in Place Manhole (10' to 15' deep)	21	EA	\$ 20,000	\$ 420,000		
10	Gravel Access Road	3,420	LF	\$ 55	\$ 188,000		
11	Abandon Existing Lift Station and Force main	2	EA	\$ 100,000	\$ 200,000		
12	Rock Excavation	195	CY	\$ 325	\$ 63,000		
13	Appraisal & Acquisition per parcel (total in Acquisition with 15% contingency)	4	EA	\$ 13,500			
14	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	1.28	AC	\$ 25,000			
15	Temp. Easement (10' wide) (total in Acquisition with 15% contingency)	1.02	AC	\$ 2,500			
	Subtotal:				\$ 1,891,000		
	Construction Contingency:	30%			\$ 567,000		
	Construction Subtotal with Contingency:				\$ 2,458,000		
	Pre-Construction Professional Services Cost:	9%			\$ 221,000		
	Construction Professional Services Cost:	4%			\$ 98,000		
	Acquisition Cost:	1	LS	\$ 88,550	\$ 102,000		
2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 2,879,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2031		\$ 286,000			
	Acquisition:	2031		\$ 133,000			
	Construction Professional Services:	2032		\$ 133,000			
Annual Future Cost Escalation	Construction:	2032		\$ 3,347,000			
5.00%		TOTAL ESCALATED PROJECT COSTS =		\$ 3,899,000			



Bentonville Water Utilities

WWM20

PROJECT OVERVIEW

		PROJECT OVERVIEW		
CIP Category:		Project Number:		Template
		<input checked="" type="checkbox"/> Haxton Road		<input type="checkbox"/> Nomad-Morningstar
CIP Subcategory:		<input type="checkbox"/> McKisic		<input type="checkbox"/> Shell
		<input type="checkbox"/> Shewmaker		<input type="checkbox"/> South LS
Project Name:		<input type="checkbox"/> Spr Crk-Vaughn		<input type="checkbox"/> Town Branch
		<input type="checkbox"/> Other		
Basin(s):				
Project Description:		EXECUTIVE SUMMARY		
		Total Escalated Project Cost:		\$6,278,000
		Project Needed by:		Undetermined
		Status:		Planned
Project Objectives:		BWU Staff Contact Information		
		Name:		
		Phone:		
		Email:		
Finance Options:		<input type="checkbox"/> State Revolving Fund	<input type="checkbox"/> Municipal Bonds	<input type="checkbox"/> Cash Reserves
		<input type="checkbox"/> Grant	<input type="checkbox"/> TBD	<input checked="" type="checkbox"/> Development Fee
				<input type="checkbox"/> Other
Planned Project Delivery:		JUSTIFICATION		
Key Project Drivers:				
Triggers to Accelerate Proj:		<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact
Sequence with Other Projects?		No	Projects:	
Status of Related Projects:				
Additional Notes:				

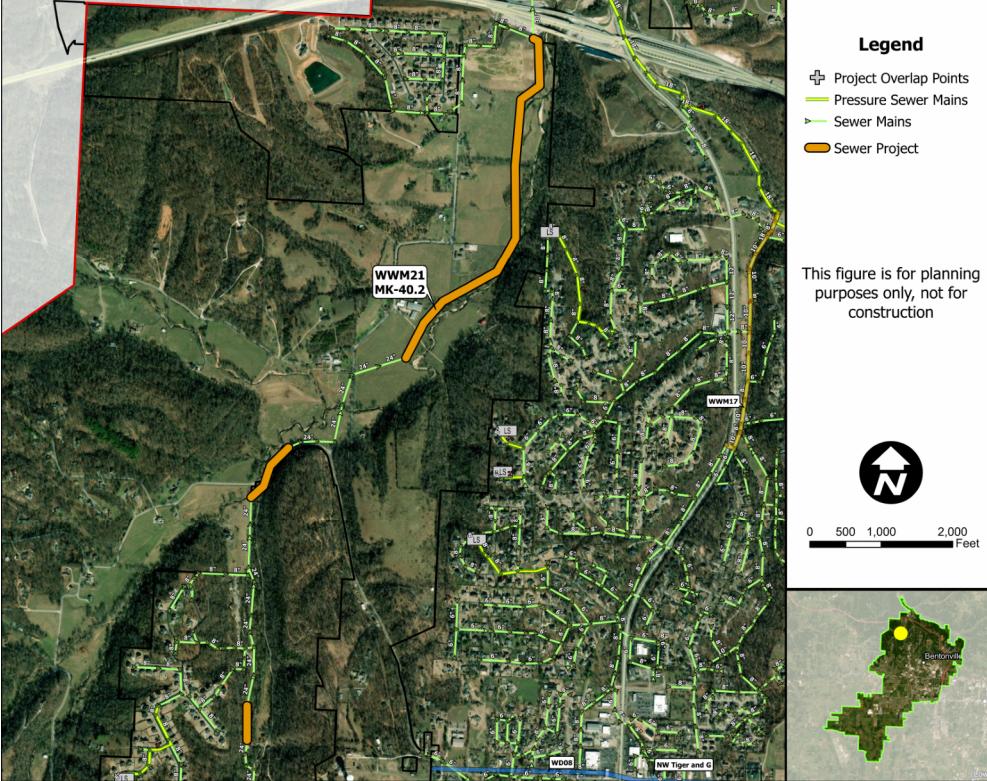
PLANNED SCHEDULE									
Phase	Award Dates	Completion Dates			Total Months				
Professional Services:	Jan-32	Apr-33			15				
Easement/ROW Acquisition:	Apr-32	Apr-33			12				
Construction:	Jun-33	Sep-34			15				
Status:	Planned				32				
COST AND FUNDING									
Opinion of Probable Cost					AACE Class:	5			
Item	Description	Quantity	Unit	Unit Price	Total				
1	Mobilization (5%)	1	LS	\$ 127,000	\$ 127,000				
2	Traffic Control	15	MO	\$ 6,000	\$ 90,000				
3	SWPPP (1%)	1	LS	\$ 25,500	\$ 26,000				
4	Clearing and Grubbing	2.75	AC	\$ 10,000	\$ 28,000				
5	Utility Relocation (2%)	1	LS	\$ 51,000	\$ 51,000				
6	12" PVC Gravity Sewer by Open Cut	10,000	LF	\$ 180	\$ 1,800,000				
7	Trench Safety	10,000	LF	\$ 5	\$ 50,000				
8	4' Diameter Manhole (5-10 ft Depth)	35	EA	\$ 15,000	\$ 525,000				
9	Pavement Restoration	278	SY	\$ 100	\$ 28,000				
10	Rock Excavation	400	CY	\$ 325	\$ 130,000				
11	Perm. Easement (20' wide) (total in Acquisition with contingency)	4.59	AC	\$25,000					
	Subtotal:				\$ 2,855,000				
	Construction Contingency:	30%			\$ 857,000				
	Construction Subtotal with Contingency:				\$ 3,712,000				
	Pre-Construction Professional Services Cost:	9%			\$ 334,000				
	Construction Professional Services Cost:	4%			\$ 148,000				
	Acquisition Cost:	1	LS	\$ 114,784	\$ 132,000				
2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 4,326,000				
Date for Cost Basis	Phase	Year Planned			Escalated Costs				
Nov-25	Pre-Construction Professional Services:	2032			\$ 455,000				
	Acquisition:	2032			\$ 182,000				
	Construction Professional Services:	2033			\$ 216,000				
Annual Future Cost Escalation	Construction:	2033			\$ 5,425,000				
5.00%	TOTAL ESCALATED PROJECT COSTS =					\$ 6,278,000			



Bentonville Water Utilities

WWM21

PROJECT OVERVIEW

		Project Number:	
			Basin(s):
<input checked="" type="checkbox"/> McKisic	<input type="checkbox"/> Shell		
CIP Category: WASTEWATER MAINS		<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS
CIP Subcategory: Interceptor Mains - Replacement		<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch
Project Name: MK-40.2: Replace 6179' of 24" main with 30"		<input type="checkbox"/> Other	
Project Description: Project MK-40.2 is located in subbasins MK5 and MK2, upstream of the Dogwood Lift Station. Potential surcharging of the pipes in this project is estimated to occur during the 2040 horizon. This project runs along McKisic Creek and includes upsizing four areas of existing 24" to 30", totaling 6,179 feet.		EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$10,812,000	
		Project Needed by: 2032	
		Status: Planned	
Project Objectives: Increase pipeline capacity to prevent potential surcharging in the future.		BWU Staff Contact Information	
		Name:	
		Phone:	
		Email:	
Finance Options: <input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other			
Planned Project Delivery:			
JUSTIFICATION			
Key Project Drivers: Capacity Limitations, Future Growth			
Triggers to Accelerate Proj: <input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:			
Sequence with Other Projects? No		Related Projects:	
Status of Related Projects:			
Additional Notes:			

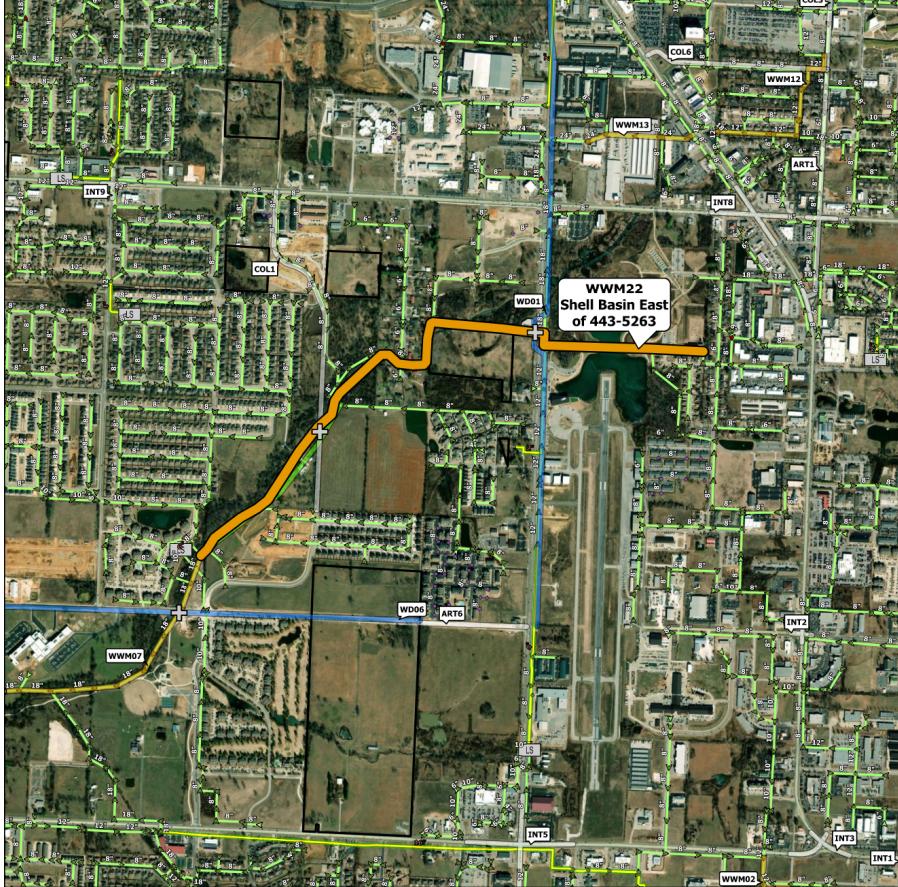
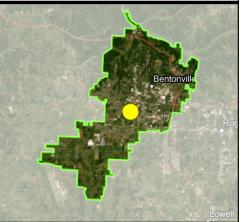
PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-32	Jan-33		13			
Easement/ROW Acquisition:	Apr-32	Oct-32		6			
Construction:	Apr-33	Apr-34		12			
Status:	Planned			27			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 227,000	\$ 227,000		
2	Traffic Control	12	MO	\$ 6,000	\$ 72,000		
3	SWPPP (1%)	1	LS	\$ 45,500	\$ 46,000		
4	Clearing and Grubbing	1.70	AC	\$ 10,000	\$ 17,000		
5	Utility Relocation (2%)	1	LS	\$ 91,000	\$ 91,000		
6	30" PVC Gravity Sewer by Open Cut	6,179	LF	\$ 460	\$ 2,842,000		
7	Trench Safety	6,179	LF	\$ 5	\$ 31,000		
8	5' Cast in Place Manhole (10' to 15' deep)	17	EA	\$ 22,000	\$ 374,000		
9	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 563,000	\$ 563,000		
10	30" PVC Gravity Sewer and 42" Steel Casing by Bore	200	LF	\$ 2,100	\$ 420,000		
11	Rock Excavation	247	CY	\$ 325	\$ 80,000		
12	Pavement Restoration	1,116	SY	\$ 100	\$ 112,000		
13	Remove Existing Manholes	17	EA	\$ 3,000	\$ 51,000		
14	Removal of Existing Pipe	6,179	LF	\$ 10	\$ 62,000		
15	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	30,895	SF	\$ 5			
	Subtotal:				\$ 4,988,000		
	Construction Contingency:	30%			\$ 1,496,000		
	Construction Subtotal with Contingency:				\$ 6,484,000		
	Pre-Construction Professional Services Cost:	9%			\$ 584,000		
	Construction Professional Services Cost:	4%			\$ 259,000		
	Acquisition Cost:	30,895	SF	\$ 5	\$ 178,000		
	2025 TOTAL UNESCALATED PROJECT COSTS =				\$ 7,505,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2032		\$ 795,000			
	Acquisition:	2032		\$ 246,000			
	Construction Professional Services:	2033		\$ 375,000			
Annual Future Cost Escalation	Construction:	2033		\$ 9,396,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 10,812,000		



Bentonville Water Utilities

WWM22

PROJECT OVERVIEW

		Project Number: WWM22	
CIP Category: WASTEWATER MAINS		Project Number: WWM22	
CIP Subcategory: Interceptor Mains - Replacement		<input type="checkbox"/> Haxton Road <input type="checkbox"/> Nomad-Morningstar <input type="checkbox"/> McKisic <input checked="" type="checkbox"/> Shell <input type="checkbox"/> Shewmaker <input type="checkbox"/> South LS <input type="checkbox"/> Spr Crk-Vaughn <input type="checkbox"/> Town Branch <input type="checkbox"/> Other	
Project Name: Shell Basin - east of 443-5263 (Thornberry LS)		Basin(s):	
Project Description: 18" to 24",		EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$13,440,000	
		Project Needed by: 2034	
		Status: Planned	
Project Objectives:		BWU Staff Contact Information	
		Name: _____	
		Phone: _____	
		Email: _____	
Finance Options:		<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other	
Planned Project Delivery:		JUSTIFICATION	
Key Project Drivers:			
Triggers to Accelerate Proj:		<input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other: _____	
Sequence with Other Projects?		Yes Related Projects: WWM07. Overlaps with water line, sewer line, and road projects	
Status of Related Projects:		 <p>Legend</p> <ul style="list-style-type: none">Project Overlap PointsPressure Sewer MainsSewer MainsSewer Project <p>This figure is for planning purposes only, not for construction</p> <p>0 500 1,000 2,000 Feet</p> 	
Additional Notes:			

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-34	Dec-34		12			
Easement/ROW Acquisition:	Apr-34	Dec-34		9			
Construction:	Mar-35	Mar-36		12			
Status:	Planned			26			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class: 5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 262,500	\$ 263,000		
2	Traffic Control	12	MO	\$ 6,000	\$ 72,000		
3	SWPPP (1%)	1	LS	\$ 52,500	\$ 53,000		
4	Clearing and Grubbing	2.23	AC	\$ 10,000	\$ 22,000		
5	Utility Relocation (2%)	1	LS	\$ 105,000	\$ 105,000		
6	24" PVC Gravity Sewer by Open Cut	8,100	LF	\$ 360	\$ 2,916,000		
7	24" PVC Gravity Sewer and 36" Steel Casing by Bore	400	LF	\$ 1,800	\$ 720,000		
8	Trench Safety	8,100	LF	\$ 5	\$ 41,000		
9	Removal of Existing Pipe	8,100	LF	\$ 10	\$ 81,000		
10	5' Cast in Place Manhole (10' to 15' deep)	20	EA	\$ 22,000	\$ 446,000		
11	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 656,000	\$ 656,000		
12	Pavement Restoration	2,700	SY	\$ 80	\$ 216,000		
13	Rock Excavation	324	CY	\$ 325	\$ 105,000		
14	Remove Existing Manholes	20	EA	\$ 3,000	\$ 61,000		
15	Temp. Easement (10' wide) (total in Acquisition with 15% contingency)	1.86	AC	\$2,500			
	Subtotal:				\$ 5,757,000		
	Construction Contingency:	30%			\$ 1,727,000		
	Construction Subtotal with Contingency:				\$ 7,484,000		
	Pre-Construction Professional Services Cost:	9%			\$ 674,000		
	Construction Professional Services Cost:	4%			\$ 299,000		
	Acquisition Cost:	1	LS	\$ 4,649	\$ 5,000		
2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 8,462,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2034		\$ 1,014,000			
	Acquisition:	2034		\$ 8,000			
	Construction Professional Services:	2035		\$ 477,000			
Annual Future Cost Escalation	Construction:	2035		\$ 11,941,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 13,440,000		



Bentonville Water Utilities

WWM23

PROJECT OVERVIEW

		Project Number: WWM23	
CIP Category: WASTEWATER MAINS		Basin(s):	
CIP Subcategory: Interceptor Mains - Replacement		<input type="checkbox"/> Haxton Road <input type="checkbox"/> Nomad-Morningstar <input checked="" type="checkbox"/> McKisic <input type="checkbox"/> Shell <input type="checkbox"/> Shewmaker <input type="checkbox"/> South LS <input type="checkbox"/> Spr Crk-Vaughn <input type="checkbox"/> Town Branch <input type="checkbox"/> Other	
Project Name: MK-45.2: Replace 717' of 24" main with 30"		Project Description: Project MK-45.2 is located in subbasin MK7, located along Applegate Trail in Coler Mountain Park. Potential surcharging of the pipes in this project is estimated to occur in the 2045 horizon. This project includes upsizing 717 feet of 24" pipe to 30".	
		EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$337,000	
		Project Needed by: 2034	
		Status: Planned	
Project Objectives: Increase pipeline capacity to prevent potential surcharging in the future.		BWU Staff Contact Information	
		Name: _____	
		Phone: _____	
		Email: _____	
Finance Options: <input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other		Planned Project Delivery:	
JUSTIFICATION			
Key Project Drivers: Capacity Limitations, Future Growth		Triggers to Accelerate Proj: <input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:	
Sequence with Other Projects? No		Related Projects:	
Status of Related Projects:		 <p>Legend</p> <ul style="list-style-type: none">Project Overlay PointsPressure Sewer MainsSewer MainsSewer Project <p>This figure is for planning purposes only, not for construction</p> <p>0 250 500 1,000 Feet</p>	
Additional Notes:			

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-34	Aug-34		7			
Easement/ROW Acquisition:	Mar-34	Sep-34		6			
Construction:	Oct-34	Mar-35		5			
Status:	Planned			14			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class:		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Mobilization (5%)	1	LS	\$ 53,500	\$ 54,000		
2	Traffic Control	5	MO	\$ 6,000	\$ 30,000		
3	SWPPP (1%)	1	LS	\$ 11,000	\$ 11,000		
4	Clearing and Grubbing	0.20	AC	\$ 20,000	\$ 4,000		
5	Utility Relocation (2%)	1	LS	\$ 21,500	\$ 22,000		
6	30" PVC Gravity Sewer by Open Cut	717	LF	\$ 460	\$ 330,000		
7	Trench Safety	717	LF	\$ 5	\$ 4,000		
8	Trenching Additional Depth 15'-20'	717	LF	\$ 100	\$ 72,000		
9	5' Cast in Place Manhole (10' to 15' deep)	3	EA	\$ 22,000	\$ 66,000		
10	Additional Manhole Depth	9	VF	\$ 500	\$ 5,000		
11	Bypass Pumping (15% of New Gravity Line)	1	LS	\$ 73,000	\$ 73,000		
12	Rock Excavation	29	CY	\$ 325	\$ 9,000		
13	Pavement Restoration	466	SY	\$ 80	\$ 37,000		
14	Remove Existing Manholes	3	EA	\$ 3,000	\$ 9,000		
15	Removal of Existing Pipe	717	LF	\$ 10	\$ 7,000		
16	Temporary Creek Crossing	3	EA	\$ 150,000	\$ 450,000		
17	Perm. Easement (20' wide) (total in Acquisition with 15% contingency)	3,585	SF	\$ 5			
	Subtotal:				\$ 1,183,000		
	Construction Contingency:	30%			\$ 355,000		
	Construction Subtotal with Contingency:				\$ 1,538,000		
	Pre-Construction Professional Services Cost:	9%			\$ 138,000		
	Construction Professional Services Cost:	4%			\$ 62,000		
	Acquisition Cost:	3,585	SF	\$ 5	\$ 21,000		
2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 1,759,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2034		\$ 208,000			
	Acquisition:	2034		\$ 32,000			
	Construction Professional Services:	2034		\$ 97,000			
Annual Future Cost Escalation	Construction:	2034		\$ 2,403,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 2,740,000		



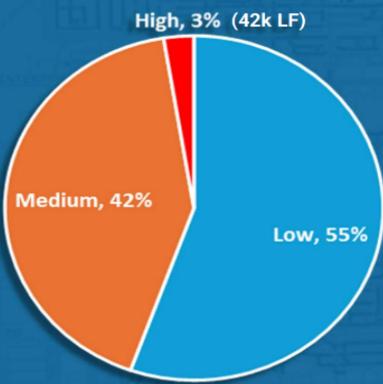
Bentonville Water Utilities

WWMA-RPC

PROJECT OVERVIEW

CIP Category:	WASTEWATER MAINS	Project Number:	Template	
		Basin(s):	<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar
			<input type="checkbox"/> McKisic	<input type="checkbox"/> Shell
CIP Subcategory:	Collection Mains - Replacement	<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS	
		<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch	
		<input type="checkbox"/> Other		
Project Name:	Annual Replacements - WW Collection Mains			
Project Description:	Replacing aging wastewater collection mains	EXECUTIVE SUMMARY		
		Total Escalated Project Cost:	\$5,100,000	
		Project Needed by:	Undetermined	
		Status:	Planned	
Project Objectives:	Replacing wastewater collection mains that are approaching or exceeding the end of their useful lifespan based on risk based asset management criteria including pipe age, condition, main break history, inadequate capacity, system deficits, high inflow and infiltration (I&I), and/or operational resiliency	BWU Staff Contact Information		
		Name:		
		Phone:		
		Email:		
Finance Options:	<input type="checkbox"/> State Revolving Funds <input type="checkbox"/> Grant	<input type="checkbox"/> Municipal Bonds <input checked="" type="checkbox"/> TBD	<input type="checkbox"/> Cash Reserves <input type="checkbox"/> WIFIA	<input type="checkbox"/> Development Fee <input type="checkbox"/> Other
Planned Project Delivery:				
JUSTIFICATION				
Key Project Drivers:				
Triggers to Accelerate Proj.:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:
Sequence with Other Projects?	Yes	Projects:		
Status of Related Projects:				

Wastewater Pipeline Risk



GRAVITY MAIN ANALYSIS

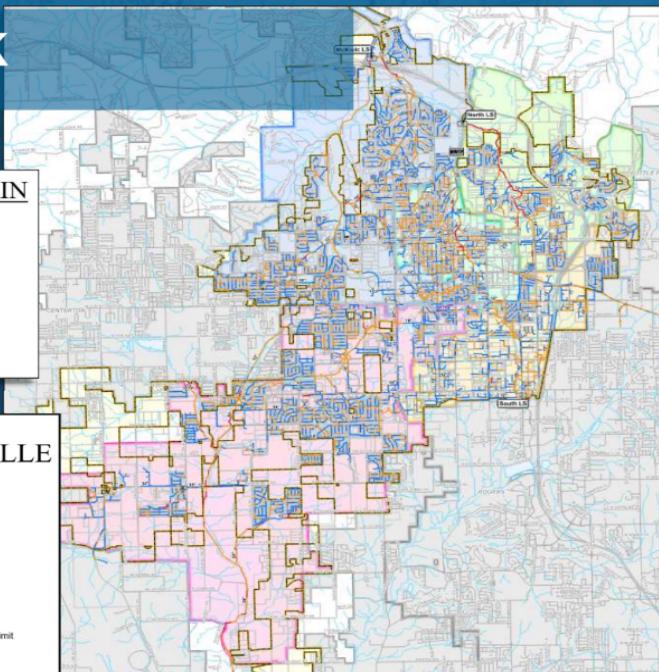
Risk

- Low (Blue)
- Medium (Orange)
- High (Red)

DRAFT FIGURE CITY OF BENTONVILLE WASTEWATER LINE OVERALL RISK



FRESE
NICHOLS



Initial focus is replacing aging undersized clay tile and vitrified clay mains with 8" or larger PVC mains and mains identified with high I&I. The specific projects will be selected using risk based criteria. The **\$5.1M** estimated escalated cost for 2026 is based on replacing an average of 1.33% of BWU's collection mains per year based on an average 75 year lifespan. Future year costs will be based on an system growth and inflation assumptions, currently 3% and 4%, respectively. *This program may be supported using both CIP and O&M*

Additional Notes: *funding.*

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-26	Jul-26		6			
Easement/ROW Acquisition:				0			
Construction:	Sep-26	May-27		8			
Status:	Planned			16			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:			
Item	Description	Quantity	Unit	Unit Price	Total		
1	Replace aging/clay WW collection mains with PVC	1	LS	\$ 5,100,000	\$ 5,100,000		
	Subtotal:				\$ 5,100,000		
	Construction Contingency:	Included in unit cost					
	Construction Subtotal with Contingency:				\$ 5,100,000		
	Pre-Construction Professional Services Cost:	Included in unit cost					
	Construction Professional Services Cost:	Included in unit cost					
	Acquisition Cost:	Included in unit cost					
	2026 TOTAL UNESCALATED PROJECT COSTS =						
<i>Date for Cost Basis</i>	<u>Phase</u>	<u>Year Planned</u>		<u>Escalated Costs</u>			
Sep-26	Pre-Construction Professional Services:	2026					
	Acquisition:						
	Construction Professional Services:	2026					
<i>Annual Future Cost Escalation</i>	Construction:	2026	\$	5,100,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =			\$ 5,100,000			



Bentonville Water Utilities

WWMA-RWC

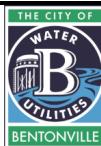
PROJECT OVERVIEW

CIP Category:	WASTEWATER MAINS	Project Number:	Template	
		Basin(s):	<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar
CIP Subcategory:	<input type="checkbox"/> McKisic		<input type="checkbox"/> Shell	
	<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS		
Project Name:	<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch		
	<input type="checkbox"/> Other			
Project Description:	Relocating wastewater collection mains within the Arkansas Department of Transportation (ARDOT) Right of Way (ROW). Collection main relocations to comply with ARDOT ROW requirements.	EXECUTIVE SUMMARY		
		Total Escalated Project Cost:	\$0	
		Project Needed by:	Undetermined	
		Status:	If Required	
Project Objectives:	Collection main relocations to comply with ARDOT ROW requirements.	BWU Staff Contact Information		
		Name:		
		Phone:		
		Email:		
Finance Options:	<input type="checkbox"/> State Revolving Funds	<input type="checkbox"/> Municipal Bonds	<input type="checkbox"/> Cash Reserves	<input type="checkbox"/> Development Fee
	<input type="checkbox"/> Grant	<input checked="" type="checkbox"/> TBD	<input type="checkbox"/> WIFIA	<input type="checkbox"/> Other
Planned Project Delivery:				
JUSTIFICATION				
Key Project Drivers:				
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:
Sequence with Other Projects?	No	Related Projects:		
Status of Related Projects:				

Include Vicinity Map(s)

Additional Notes: A majority of the project costs are for these projects are funded by ARDOT. The program is included to identify known projects that BWU will be managing during the year. The project also may include upsizing of existing mains if warranted.

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-26	Jul-26		6			
Easement/ROW Acquisition:				0			
Construction:	Sep-26	May-27		8			
Status:	If Required			16			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:			
Item	Description	Quantity	Unit	Unit Price	Total		
1	Collection Main Relocation	1	LS	\$	-		
	Subtotal:			\$	-		
	Construction Contingency:			\$	-		
	Construction Subtotal with Contingency:			\$	-		
	re-Construction Professional Services Cost:	9%		\$	-		
	Construction Professional Services Cost:	4%		\$	-		
	Acquisition Cost:			\$	-		
	2025 TOTAL UNESCALATED PROJECT COSTS =				\$ -		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2026		\$	-		
	Acquisition:			\$	-		
	Construction Professional Services:	2026		\$	-		
Annual Future Cost Escalation	Construction:	2026		\$	-		
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ -		



Bentonville Water Utilities

WW01

		PROJECT OVERVIEW				
		CIP Category:	WASTEWATER FACILITIES	Project Number:		
CIP Subcategory:		Project Name:	Basin(s):	<input type="checkbox"/> Haxton Road <input type="checkbox"/> Nomad-Morningstar <input checked="" type="checkbox"/> McKisic <input type="checkbox"/> Shell <input checked="" type="checkbox"/> Shewmaker <input type="checkbox"/> South LS <input type="checkbox"/> Spr Crk-Vaughn <input checked="" type="checkbox"/> Town Branch <input type="checkbox"/> Other		
			WRRF - Upgrades			
Project Description:			WW01 - WRRF Upgrades			
Project Objectives:		A feasibility study concluded there was a clear financial advantage for expanding the capacity of BWU's existing WRRF as opposed to pumping more flow to a regional treatment plant. This project increases the capacity of the WRRF by enhancing the existing basins to support the needs of double the population of microorganisms and to select for the most efficient types. With more and better microorganisms, the WRRF can provide the treatment capacity demanded by the growing city. This project also included screening, advanced grit removal, MLSS selectors, biological nutrient removal, advanced phosphorus removal, innovative clarification, parallel filtration, ultraviolet disinfection, effluent pumping, and architectural improvements.		EXECUTIVE SUMMARY		
				Total Escalated Project Cost: \$ 152,759,000		
				Project Needed by: 2025		
				Status: Under Construction		
Finance Options:		BWU Staff Contact Information				
		Name: _____				
		Phone: _____				
		Email: _____				
Planned Project Delivery:						
JUSTIFICATION						
Key Project Drivers:		Capacity Limitations, Future Growth				
Triggers to Accelerate Proj:		<input type="checkbox"/> Funding Opportunity <input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:				
Sequence with Other Projects?		No	Related Projects: _____			
Status of Related Projects:						
Additional Notes:						

PLANNED SCHEDULE					
Phase	Award Dates	Completion Dates		Total Months	
Professional Services:	Jan-25	Dec-29		60	
Easement/ROW Acquisition:				0	
Construction:	Jan-25	Dec-29		60	
Status:	Under Construction				60

COST AND FUNDING					
Opinion of Probable Cost				AACE Class:	5
Item	Description	Quantity	Unit	Unit Price	Total
1	Lump Sum - CMAR	1	LS	\$ 143,615,000	\$ 143,615,000
	<i>Subtotal:</i>				\$ 143,615,000
	Construction Contingency:	0%			\$ -
	<i>Construction Subtotal with Contingency:</i>				\$ 143,615,000
	Professional Services Cost:				\$ 9,144,000
	Acquisition Cost:	N/A			
2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 152,759,000

Date for Cost Basis	Phase	Year Planned	Escalated Costs
Jan-25	Pre-Construction Professional Services:	2025	\$ 9,144,000
	Acquisition:		\$ -
Annual Future Cost Escalation	Construction:	2025	\$ 143,615,000
5.00%		TOTAL ESCALATED PROJECT COSTS =	\$ 152,759,000



Bentonville Water Utilities

WW02

PROJECT OVERVIEW

CIP Category: WASTEWATER FACILITIES

CIP Subcategory: Lift Stations - Upgrades

Project Name: SL-South Lift Station Option 2, Part 1

Project Number:

<input type="checkbox"/>	Haxton Road	<input type="checkbox"/>	Normad-Morningstar
<input type="checkbox"/>	McKisic	<input type="checkbox"/>	Shell
<input type="checkbox"/>	Shewmaker	<input checked="" type="checkbox"/>	South LS
<input type="checkbox"/>	Spr Crk-Vaughn	<input type="checkbox"/>	Town Branch
<input type="checkbox"/>	Other		

Basin(s):

SL-South Lift Station Option 2 involves two parts: Part 1 includes the addition of a 1-MG flow equalization tank to store the excess peak flows and is needed in the 2025 horizon. The proposed equalization tank is limited by the size of the parking lot and soil stability during excavation.

EXECUTIVE SUMMARY

Total Escalated Project Cost: \$ 18,190,000

Project Needed by: 2025

Project Description:

Status: Planned

Project Objectives: The South Lift Station has existing firm capacity of 2.7 MGD and the 2025 estimated peak flow coming into the station is 3.8 MGD, indicating immediate needs for improvements to prevent surcharging or causing SSOs.

BWU Staff Contact Information

Name:

Phone:

Email:

Finance Options: State Revolving Func Municipal Bonds Cash Reserves Development Fee
 Grant TBD WIFIA Other

Planned Project Delivery:

JUSTIFICATION

Key Project Drivers: Capacity Limitations, Future Growth

Triggers to Accelerate Proj: Funding Opportunity Community/ Stakeholder Pressure Risk of External Impact Other:

Sequence with Other Projects? Yes Related Projects: WW04, WWM10

Status of Related Projects:



This figure is for planning purposes only, not for construction

Additional Notes:

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Dec-25	Mar-27		15			
Easement/ROW Acquisition:	Apr-26	Oct-26		6			
Construction:	May-27	May-28		13			
Status:	Planned			30			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	1 MG Storage Tank	1	LS	\$ 10,000,000	\$ 10,000,000		
2	Mobilization/Bonds & Insurance (5%)	1	LS	\$ 935,600	\$ 936,000		
3	Permanent Easement (total in Acquisition with 15% contingency)	43560	SF	\$5			
	Subtotal:				\$ 10,936,000		
	Construction Contingency:	30%			\$ 3,281,000		
	Construction Subtotal with Contingency:				\$ 14,217,000		
	Pre-Construction Professional Services Cost:	14%			\$ 1,990,000		
	Construction Professional Services Cost:	4%			\$ 569,000		
	Acquisition Cost:	1	LS	\$217,800	\$ 250,000		
	2025 TOTAL UNESCALATED PROJECT COSTS =				\$ 17,026,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2025		\$ 1,998,000			
	Acquisition:	2026		\$ 256,000			
	Construction Professional Services:	2027		\$ 613,000			
Annual Future Cost Escalation	Construction:	2027		\$ 15,323,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 18,190,000		



Bentonville Water Utilities

WW03

PROJECT OVERVIEW

		Project Number:		
			<input type="checkbox"/> Haxton Road <input type="checkbox"/> McKisic <input type="checkbox"/> Shewmaker <input checked="" type="checkbox"/> Spr Crk-Vaughn <input type="checkbox"/> Other	<input type="checkbox"/> Nomad-Morningstar <input type="checkbox"/> Shell <input type="checkbox"/> South LS <input type="checkbox"/> Town Branch
CIP Category:	WASTEWATER FACILITIES			Basin(s):
CIP Subcategory:	Lift Stations - New			
Project Name:	Old Farm LS-NWA Natl Airport Basin East Improv Alt 2 (New LS, FM, Gravity Main)			
Project Description:	This alternative proposes a new lift station that would be located northwest of the existing XNA lift station that would intercept all the City's flows from going to the XNA lift station. The approximate location of interception would be at existing MH 603-755. The flow would then be pumped through a new 8" force main alongside the existing XNA force main and tie into the existing gravity main at MH 562-832. The addition of a new force main will require approximately 4,600 lf of 20-foot-wide easement in a relatively undeveloped area.	<u>EXECUTIVE SUMMARY</u>		
		Total Escalated Project Cost:	\$ 4,120,000	
		Project Needed by:	2026	
		Status:	Planned	
Project Objectives:	Increase capacity in the area to serve future projected growth.	BWU Staff Contact Information		
		Name:		
		Phone:		
		Email:		
Finance Options:	<input type="checkbox"/> State Revolving Func <input type="checkbox"/> Grant	<input type="checkbox"/> Municipal Bonds <input type="checkbox"/> TBD	<input type="checkbox"/> Cash Reserves <input type="checkbox"/> WIFIA	<input checked="" type="checkbox"/> Development Fee <input type="checkbox"/> Other
Planned Project Delivery:				
<u>JUSTIFICATION</u>				
Key Project Drivers:	Capacity Limitations, Future Growth			
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:
Sequence with Other Projects?	No	Related Projects:	WWM01, WWM10, WWM16	
Status of Related Projects:				
		<p>Legend</p> <ul style="list-style-type: none">Project Overlap PointsPressure Sewer MainsSewer Mains <p>This figure is for planning purposes only, not for construction</p> <p>0 250 500 1,000 Feet</p>		
Additional Notes:				

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-26	Jul-27		18			
Easement/ROW Acquisition:	Apr-26	Jul-27		15			
Construction:	Sep-27	Mar-29		18			
Status:	Planned			38			
COST AND FUNDING							
Opinion of Probable Cost					AACE Class:		
Item	Description	Quantity	Unit	Unit Price	Total		
1	New Pumps (30 hp)	4	EA	\$ 66,000	\$ 264,000		
2	Wet Wells (15'x15'x15')	55	CY	\$ 2,000	\$ 110,000		
3	Electrical Cost	1	LS	\$ 41,000	\$ 41,000		
4	Lift Station Site Piping and Vault	1	LS	\$ 100,000	\$ 100,000		
5	8" PVC Force Main	4,600	LF	\$ 120	\$ 552,000		
6	15" PVC Pipe	1,648	LF	\$ 210	\$ 346,000		
7	18" PVC Pipe	1,737	LF	\$ 250	\$ 434,000		
8	Existing Pipe Demo and Haul Off	3,385	LF	\$ 10	\$ 34,000		
9	Manholes: 5-10 ft depth	6	EA	\$ 15,000	\$ 90,000		
10	Manholes: 10-15 ft depth	7	EA	\$ 20,000	\$ 140,000		
11	Bypass pumping	1	LS	\$ 38,000	\$ 38,000		
12	Trench Safety	22,740	LF	\$ 5	\$ 114,000		
13	Rock Excavation	600	CY	\$ 250	\$ 150,000		
14	Trolley Train Hoist	1	LS	\$ 20,000	\$ 20,000		
15	Site Work	1	LS	\$ 40,000	\$ 40,000		
16	Easement (total in Acquisition with contingency)				\$ -		
	Subtotal:				\$ 2,473,000		
	Construction Contingency:	30%			\$ 742,000		
	Construction Subtotal with Contingency:				\$ 3,215,000		
	Pre-Construction Professional Services Cost:	14%			\$ 450,000		
	Construction Professional Services Cost:	4%			\$ 129,000		
	Acquisition Cost:				\$ -		
2025 TOTAL UNESCALATED PROJECT COSTS =					\$ 3,794,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2026		\$ 454,000			
	Acquisition:	2026		\$ -			
	Construction Professional Services:	2027		\$ 141,000			
Annual Future Cost Escalation	Construction:	2027		\$ 3,525,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 4,120,000		



Bentonville Water Utilities

WW04

PROJECT OVERVIEW

CIP Category:

WASTEWATER FACILITIES

CIP Subcategory: Lift Stations - Upgrades

Project Name: SL-South Lift Station Option 2, Part 2

Project Number:

SL-South Lift Station Option 2 involves two parts: Part 2 includes upsizing the three (3) lift station pumps from 35.75-hp pumps to 55-hp pumps to increase flow rate through the existing force main and is estimated to be needed in the 2035 horizon.

Basin(s):

- Haxton Road
- McKisic
- Shewmaker
- Spr Crk-Vaughn
- Other

- Nomad-Morningstar
- Shell
- South LS
- Town Branch

EXECUTIVE SUMMARY

Total Escalated Project Cost: \$ 6,929,000

Project Needed by: 2029

Status: Planned

Project Description:

The South Lift Station has existing firm capacity of 2.7 MGD and the 2025 estimated peak flow coming into the station is 3.8 MGD, indicating immediate needs for improvements to prevent surcharging or causing SSOs.

Project Objectives:

<input type="checkbox"/> State Revolving Func	<input type="checkbox"/> Municipal Bonds	<input type="checkbox"/> Cash Reserves	<input checked="" type="checkbox"/> Development Fee
<input type="checkbox"/> Grant	<input type="checkbox"/> TBD	<input type="checkbox"/> WIFIA	<input type="checkbox"/> Other

Planned Project Delivery:

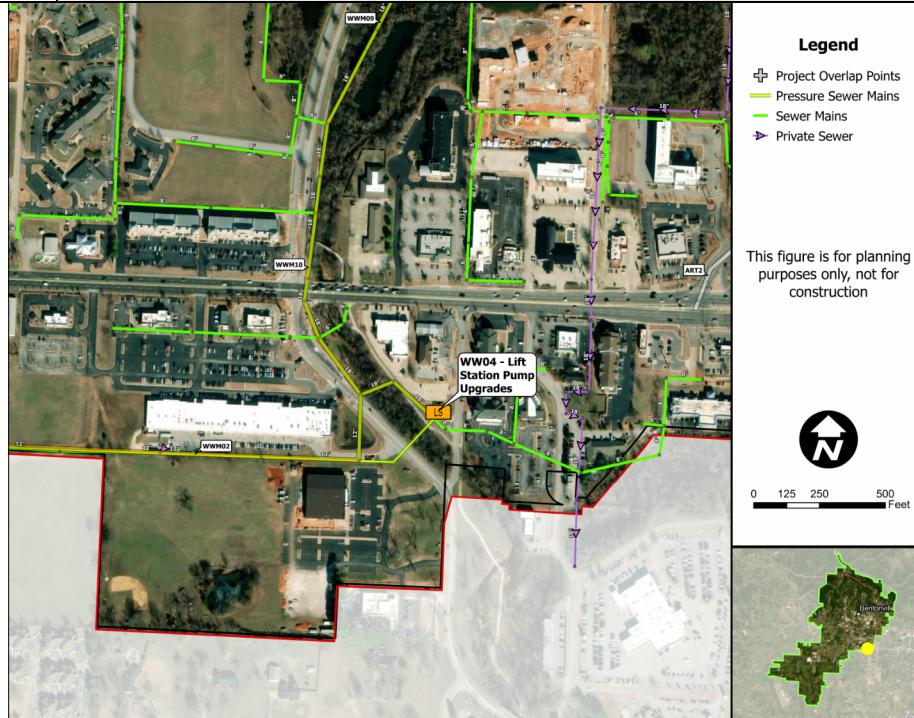
JUSTIFICATION

Key Project Drivers: Capacity Limitations, Future Growth

Triggers to Accelerate Proj: Funding Opportunity Community/ Stakeholder Pressure Risk of External Impact Other:

Sequence with Other Projects? Yes Related Projects: WW02

Status of Related Projects:



Additional Notes:

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-29	Dec-29		11			
Easement/ROW Acquisition:	Apr-29	Aug-29		4			
Construction:	Jan-30	Nov-30		10			
Status:	Planned				23		
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Pump, piping and electrical upgrades	1	LS	\$ 3,500,000	\$ 3,500,000		
2	Mobilization/Bonds & Insurance (5%)	1	LS	\$ 175,000	\$ 175,000		
	<i>Subtotal:</i>				\$ 3,675,000		
	<i>Construction Contingency:</i>	30%			\$ 1,103,000		
	<i>Construction Subtotal with Contingency:</i>				\$ 4,778,000		
	<i>Pre-Construction Professional Services Cost:</i>	14%			\$ 669,000		
	<i>Construction Professional Services Cost:</i>	4%			\$ 191,000		
	<i>Acquisition Cost:</i>	N/A			\$ -		
	2025 TOTAL UNESCALATED PROJECT COSTS =				\$ 5,638,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2029		\$ 784,000			
	Acquisition:	2029		\$ -			
	Construction Professional Services:	2030		\$ 236,000			
Annual Future Cost Escalation	Construction:	2030		\$ 5,909,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 6,929,000		



Bentonville Water Utilities

WW05

PROJECT OVERVIEW

CIP Category: WASTEWATER FACILITIES

CIP Subcategory: Lift Stations - Upgrades

Project Name: MK-Turner Lift Station

Project Number:

<input type="checkbox"/> Haxton Road	<input type="checkbox"/> Nomad-Morningstar
<input checked="" type="checkbox"/> McKisic	<input type="checkbox"/> Shell
<input type="checkbox"/> Shewmaker	<input type="checkbox"/> South LS
<input type="checkbox"/> Spr Crk-Vaughn	<input type="checkbox"/> Town Branch
<input type="checkbox"/> Other	

Basin(s):

Project Description: Recommended improvements to the MK-Turner LS include upsizing the four (4) existing 5-hp pumps with 15-hp pumps on the Turner side of the McKisic Lift station to pass the projected 2050 peak flows of 3.3 MGD, without surcharging pipes or creating overflows.

EXECUTIVE SUMMARY

Total Escalated Project Cost: \$ 612,000

Project Needed by: Undetermined

Status: Planned

Project Objectives: Increase the capacity of the Turner side to meet estimated peak flow demands.

BWU Staff Contact Information

Name:

Phone:

Email:

Finance Options: State Revolving Func Municipal Bonds Cash Reserves Development Fee
 Grant TBD WIFIA Other

Planned Project Delivery:

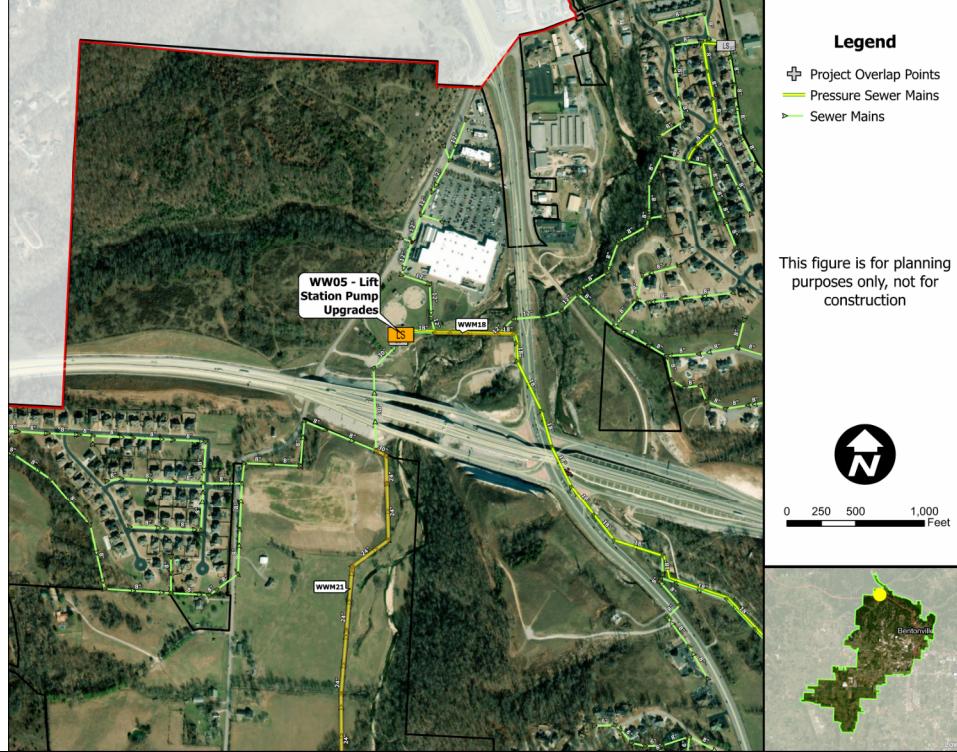
JUSTIFICATION

Key Project Drivers: Capacity Limitations, Future Growth

Triggers to Accelerate Proj: Funding Opportunity Community/ Stakeholder Pressure Risk of External Impact Other:

Sequence with Other Projects?: No Related Projects: WWM18

Status of Related Projects:



Additional Notes:

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-30	Jul-30		6			
Easement/ROW Acquisition:				0			
Construction:	Sep-30	Mar-31		6			
Status:	Planned			14			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:	5		
Item	Description	Quantity	Unit	Unit Price	Total		
1	Increase Capacity (upsizing 5hp to 15hp)	4	EA	\$ 75,000	\$ 300,000		
2	Mobilization/Bonds & Insurance (5%)	1	LS	\$ 15,000	\$ 15,000		
	<i>Subtotal:</i>				\$ 315,000		
	<i>Construction Contingency:</i>	30%			\$ 95,000		
	<i>Construction Subtotal with Contingency:</i>				\$ 410,000		
	<i>Pre-Construction Professional Services Cost:</i>	14%			\$ 57,000		
	<i>Construction Professional Services Cost:</i>	4%			\$ 16,000		
	<i>Acquisition Cost:</i>	N/A			\$ -		
2025 TOTAL UNESCALATED PROJECT COSTS =				\$	483,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Nov-25	Pre-Construction Professional Services:	2030		\$	70,000		
	Acquisition:	\$			-		
	Construction Professional Services:	2030		\$	20,000		
Annual Future Cost Escalation	Construction:	2030		\$	522,000		
5.00%	TOTAL ESCALATED PROJECT COSTS =			\$	612,000		



Bentonville Water Utilities

WWA-LSU

PROJECT OVERVIEW

CIP Category:	WASTEWATER FACILITIES	Project Number:	
			<input type="checkbox"/> Haxton Road <input type="checkbox"/> Nomad-Morningstar <input type="checkbox"/> McKisic <input type="checkbox"/> Shell <input type="checkbox"/> Shewmaker <input type="checkbox"/> South LS <input type="checkbox"/> Spr Crk-Vaughn <input type="checkbox"/> Town Branch <input type="checkbox"/> Other
CIP Subcategory:	Lift Stations - Upgrades		
Project Name:	Annual Lift Station Upgrades	Basin(s):	
Project Description:	Upgrading aging wastewater lift stations,, including major components such as pumps, motors and controllers	EXECUTIVE SUMMARY	
		Total Escalated Project Cost: \$ 200,000	
		Project Needed by: Undetermined	
		Status: Planned	
Project Objectives:	Upgrading, or possibly replacing, lift stations, including major components, that are approaching or exceeding the end of their useful lifespan based on risk based asset management criteria including age, condition, inadequate capacity, system deficits, and/or operational resiliency	BWU Staff Contact Information	
		Name: _____	
		Phone: _____	
		Email: _____	
Finance Options:	<input type="checkbox"/> State Revolving Func <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input checked="" type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other		
Planned Project Delivery:	Reduce System Vulnerability, Operational Efficiency, Capacity,		

JUSTIFICATION

Key Project Drivers:				
Triggers to Accelerate Proj:	<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure	<input type="checkbox"/> Risk of External Impact	<input type="checkbox"/> Other:
Sequence with Other Projects?	Yes	Related Projects:	WW02, WW04, WW05	
Status of Related Projects:				

Include Vicinity Map(s)

Additional Notes:	The \$200K estimated cost for 2026 is based on the average annual costs for BWU personnel to replace a portion of BWU's major lift station components, such as pumps, motors, and controllers. Future year costs will be based on system growth and inflation assumptions, currently 4.33% and 5%, respectively. BWU is upgrading or replacing the South Lift Station and MK Turner Lift Station. Therefore, this item is not based on replacing additional lift stations based on an average 50 year lifespan.
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PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-26	Mar-26		2			
Easement/ROW Acquisition:				0			
Construction:	May-26	Dec-26		8			
Status:	Planned			12			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:			
Item	Description	Quantity	Unit	Unit Price	Total		
1	Replacement Subtotal	1	LS	\$ 200,000	\$ 200,000		
2				\$ -	\$ -		
	<i>Subtotal:</i>				\$ 200,000		
	Construction Contingency:	Included in unit cost					
	<i>Construction Subtotal with Contingency:</i>			\$ 200,000			
	Pre-Construction Professional Services Cost:	Included in unit cost					
	Construction Professional Services Cost:	Included in unit cost					
	Acquisition Cost:	N/A					
	2026 TOTAL UNESCALATED PROJECT COSTS =				\$ 200,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
May-26	Pre-Construction Professional Services:	2026		\$ -			
	Acquisition:	\$ -		\$ -			
	Construction Professional Services:	2026		\$ -			
Annual Future Cost Escalation	Construction:	2026		\$ 200,000			
5.00%	TOTAL ESCALATED PROJECT COSTS =				\$ 200,000		



Bentonville Water Utilities

WWA-WRU

PROJECT OVERVIEW

		Project Number:	
CIP Category:		WASTEWATER FACILITIES	
CIP Subcategory:		WRRF - Upgrades	
Project Name:		Annual WRRF Upgrades	
Project Description:		Capital Replacements/Upgrades planned at the WRRF in 2026. CIP costs shown past 2026 are based on the escalated cost of listed improvements through 2031. Budgets from 2032 through 2050 are starting value of \$179K (in 2025 dollars) and with 6.5% growth + 4% escalation/year.	
Project Objectives:		Annual WRRF Upgrades	
Finance Options:		<input type="checkbox"/> State Revolving Func <input type="checkbox"/> Municipal Bonds <input type="checkbox"/> Cash Reserves <input type="checkbox"/> Development Fee <input type="checkbox"/> Grant <input checked="" type="checkbox"/> TBD <input type="checkbox"/> WIFIA <input type="checkbox"/> Other	
Planned Project Delivery:			
JUSTIFICATION			
Key Project Drivers:		Operational improvements,	
Triggers to Accelerate Proj:		<input type="checkbox"/> Funding Opportunity	<input type="checkbox"/> Community/ Stakeholder Pressure <input type="checkbox"/> Risk of External Impact <input type="checkbox"/> Other:
Sequence with Other Projects?		No	Related Projects:
Status of Related Projects:			
<small>Include Vicinity Map(s)</small>			
Additional Notes:		The items in the cost estimate are listed in BWU's WRRF CIP plan. This item does not include depreciation based replacing the overall WRRF over the industry's estimated 40 to 50 year lifespan of a WRRF since BWU upgraded the WRRF in 2025.	

PLANNED SCHEDULE							
Phase	Award Dates	Completion Dates		Total Months			
Professional Services:	Jan-26	Jan-26		0			
Easement/ROW Acquisition:				0			
Construction:	Jan-26	Dec-26		12			
Status:	Planned			12			
COST AND FUNDING							
Opinion of Probable Cost				AACE Class:			
Item	Description	Quantity	Unit	Unit Price	Total		
1	Replacement of Asphalt at Compost Facility	1	LS	\$ 500,000	\$ 500,000		
2	TaskMaster Grinder for PWTech Screw Press	1	LS	\$ 20,300	\$ 20,000		
3	Grinder	1	LS	\$ 56,000	\$ 56,000		
4	Network upgrade	1	LS	\$ 5,351	\$ 5,000		
5				\$	-		
	<i>Subtotal:</i>			\$	581,000		
	<i>Construction Contingency:</i>			\$	-		
	<i>Construction Subtotal with Contingency:</i>			\$	581,000		
	Acquisition Cost:	N/A					
				2026 TOTAL UNESCALATED PROJECT COSTS =	\$ 581,000		
Date for Cost Basis	Phase	Year Planned		Escalated Costs			
Jan-26							
Annual Future Cost Escalation		Construction:	2026	\$	581,000		
5.00%		TOTAL ESCALATED PROJECT COSTS =		\$	581,000		

APPENDIX D:
CIP PROJECT OVERLAP MAPS

Legend

- Water Project
- Sewer Project
- Road Project
- Trail Project
- Stormwater Project
- Service Boundary
- Bentonville City Limit

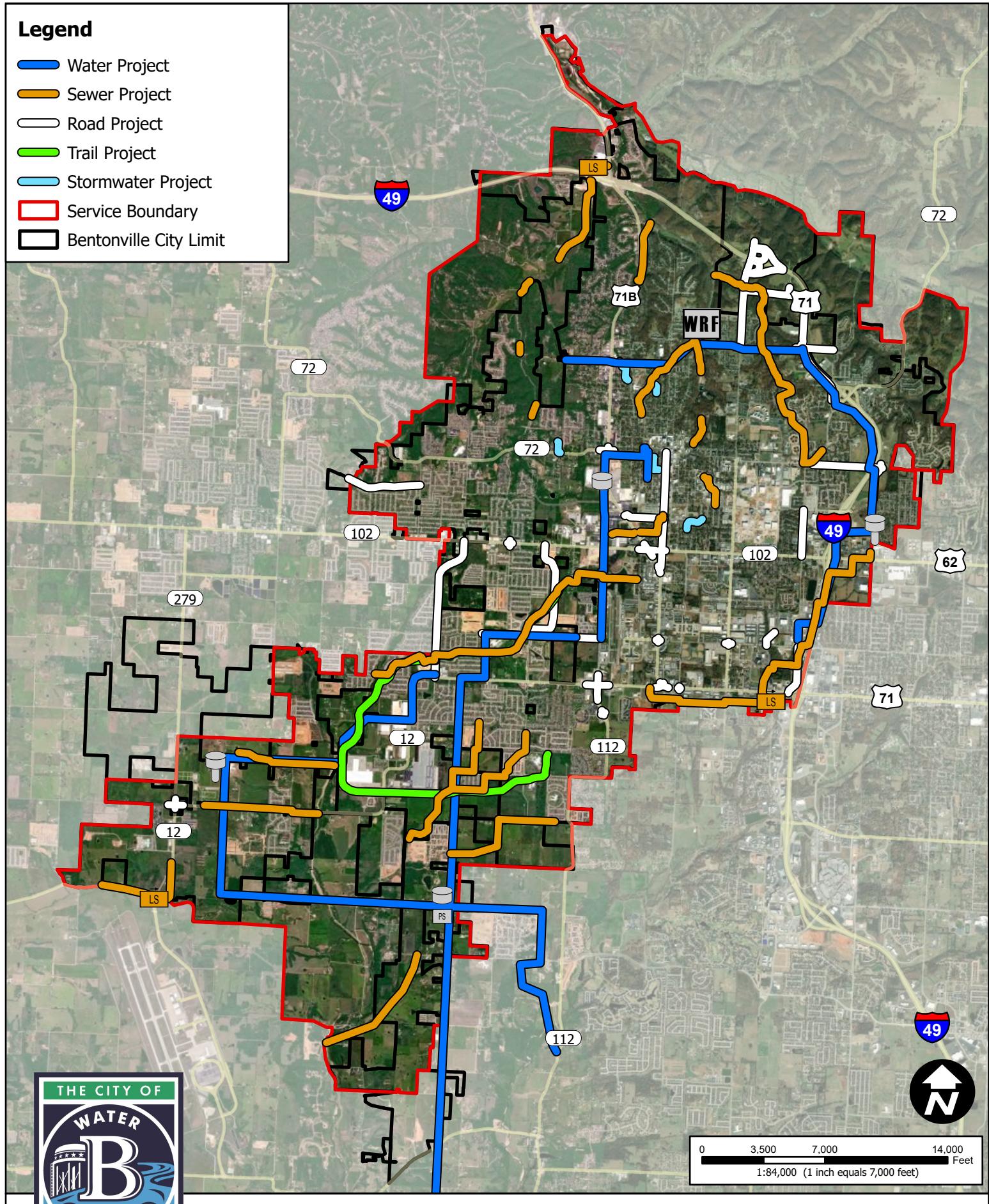


FIGURE 1
All Project Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Sewer Project (Orange line)
- Service Boundary (Red line)
- Bentonville City Limit (Black line)

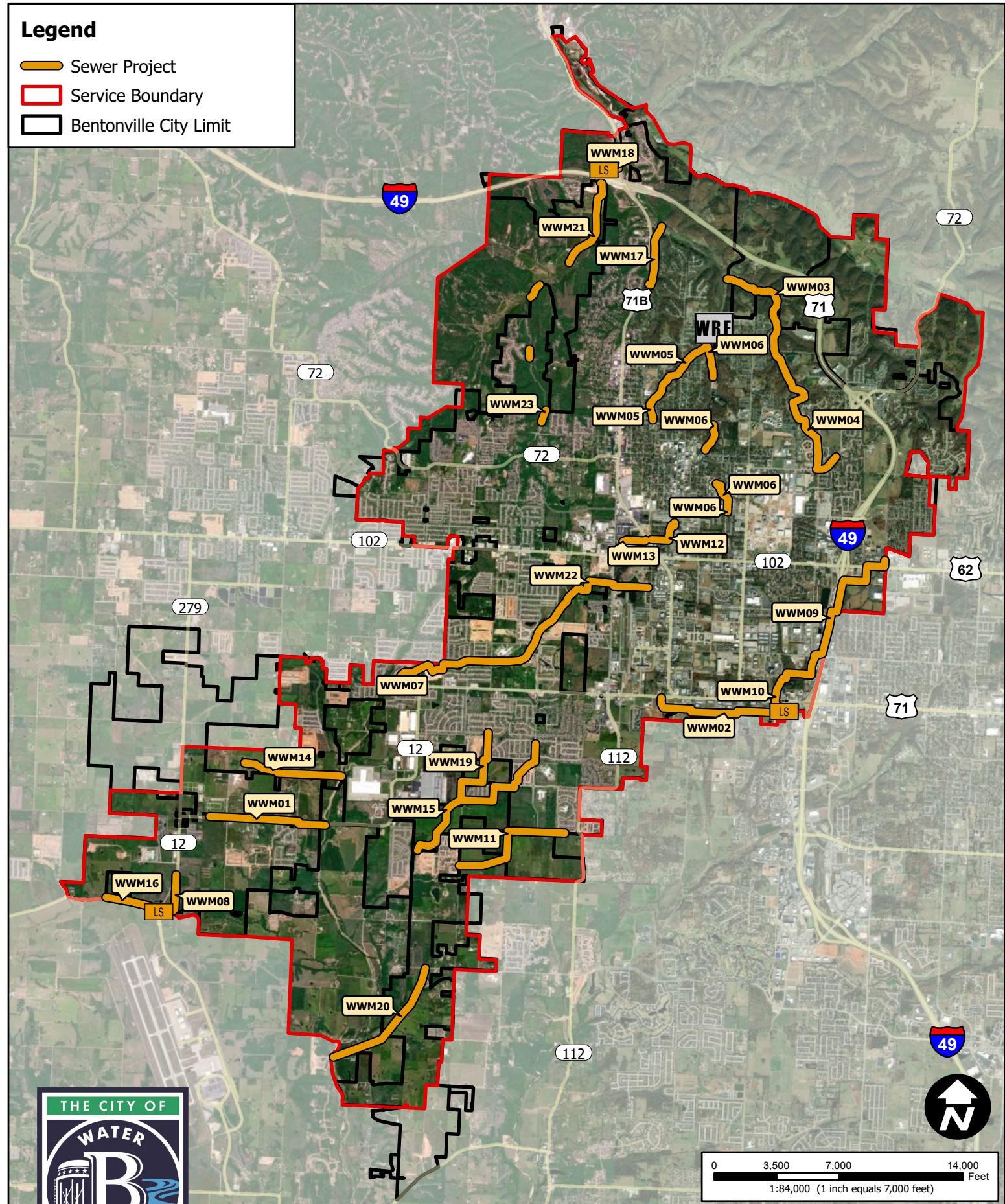


FIGURE 2
Sewer Project Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Water Project (Blue line)
- Service Boundary (Red line)
- Bentonville City Limit (Black line)

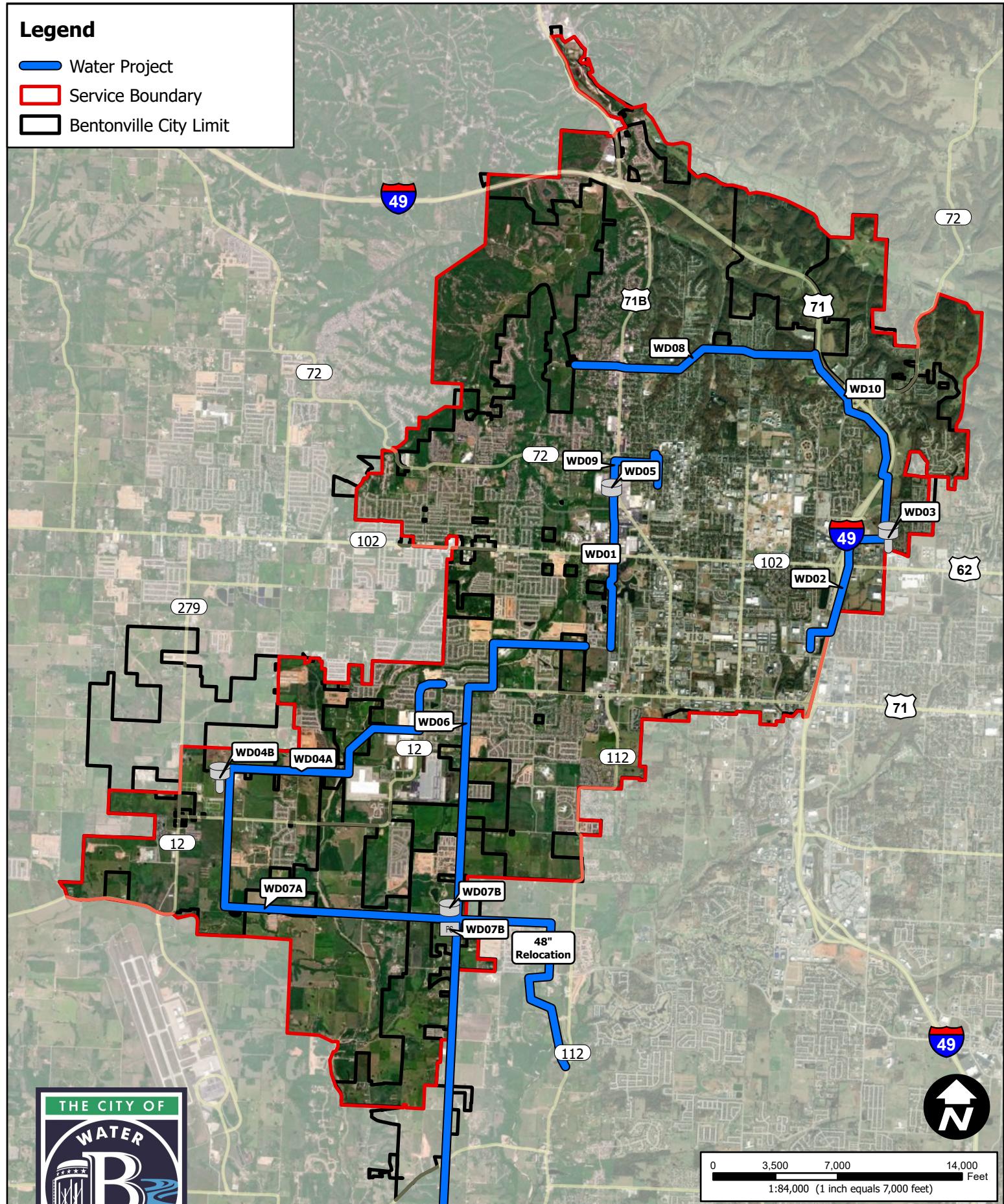
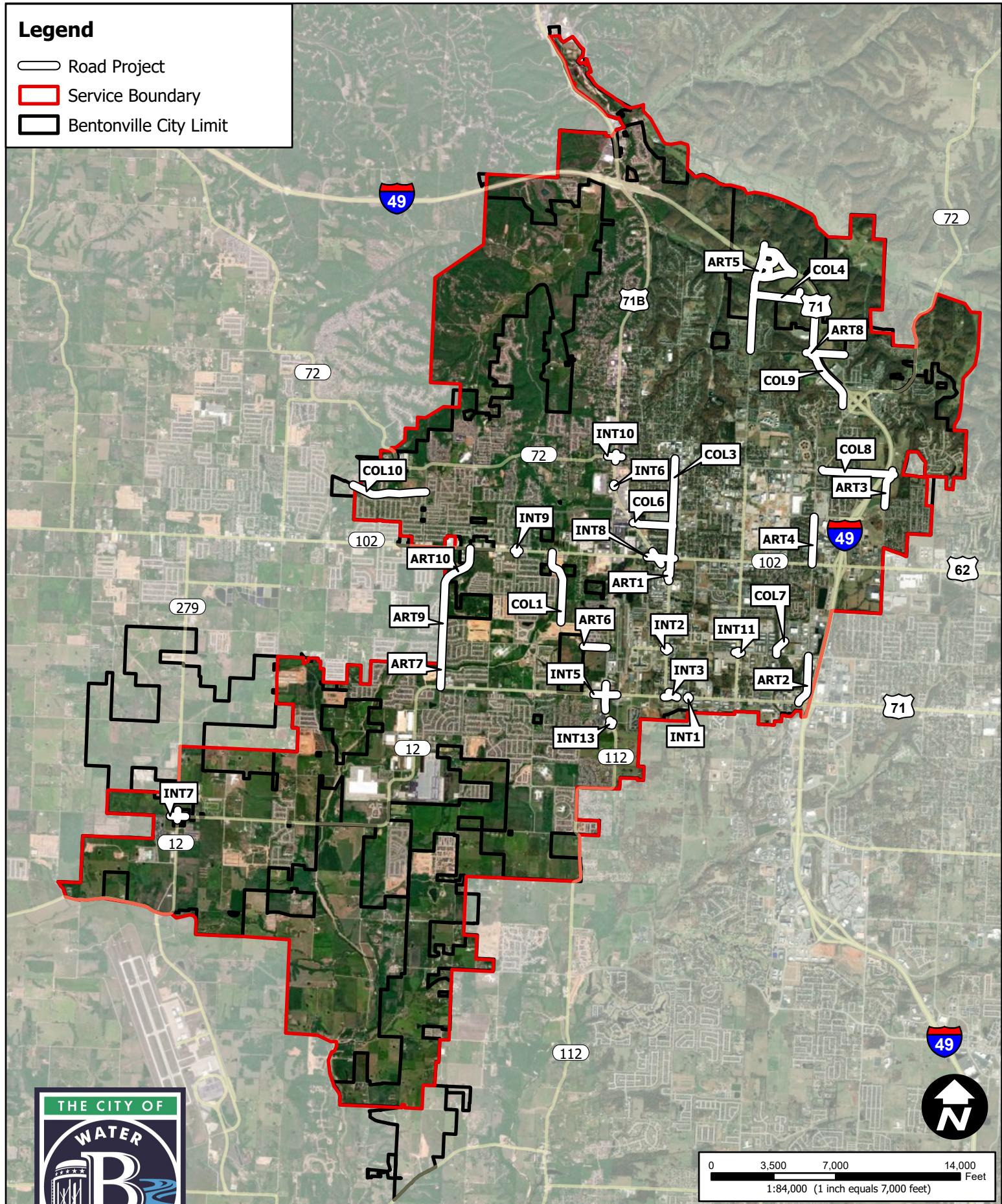


FIGURE 3
Water Project Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Road Project
- Service Boundary
- Bentonville City Limit



Legend

- Stormwater Project (Blue line)
- Service Boundary (Red line)
- Bentonville City Limit (Black line)

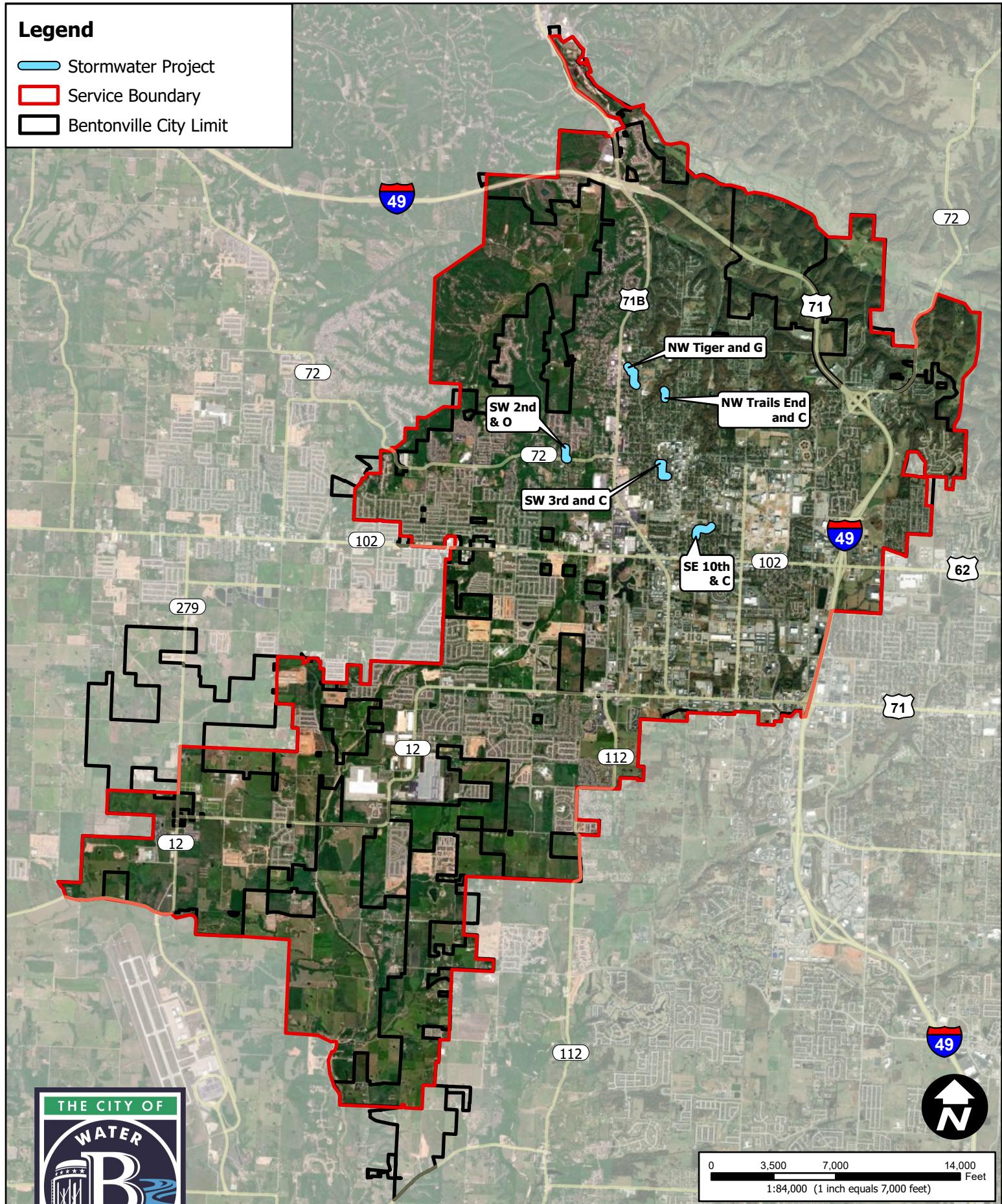


FIGURE 5
Stormwater Project Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Trail Project (Green line)
- Service Boundary (Red line)
- Bentonville City Limit (Black line)

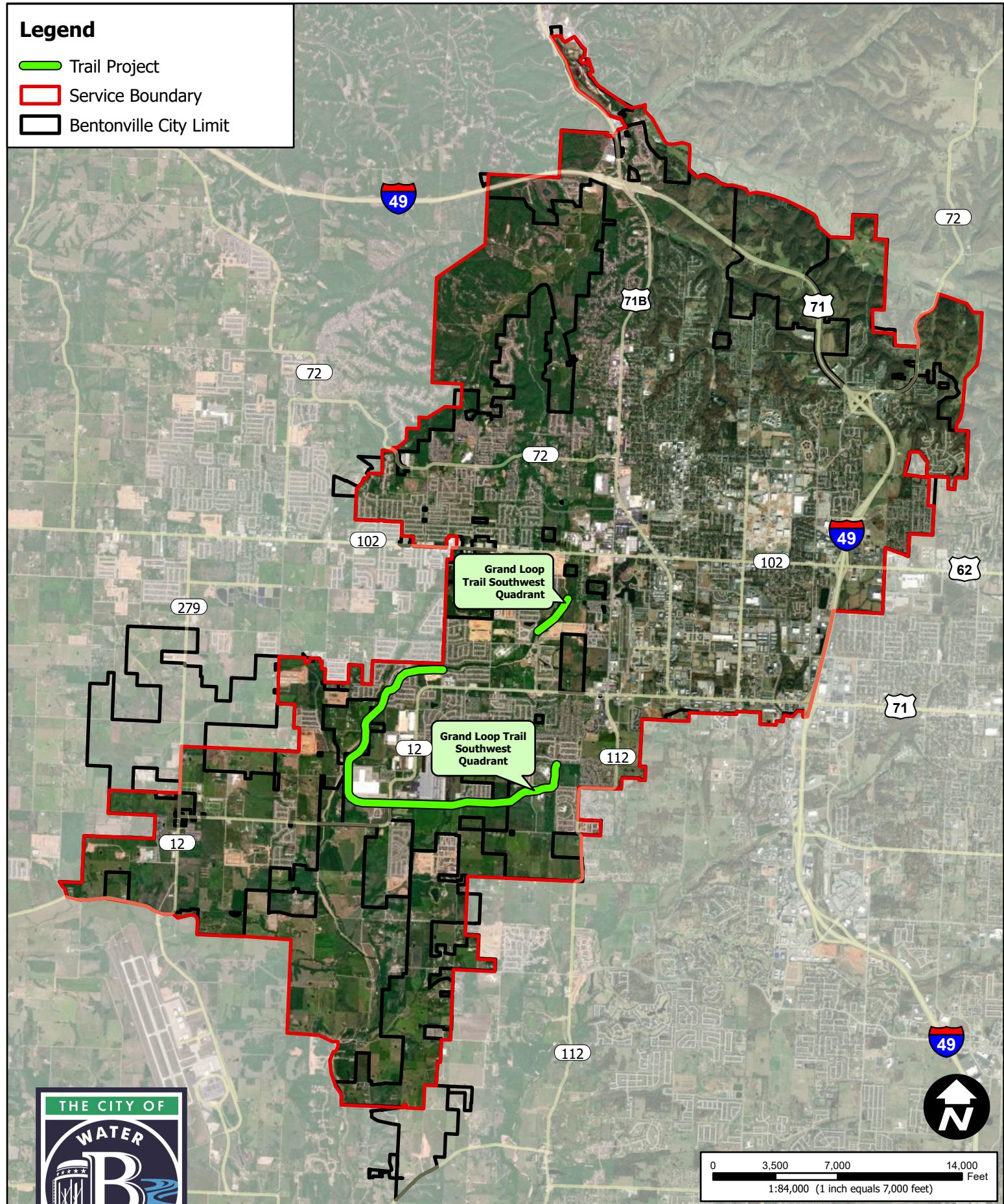


FIGURE 6
Trail Project Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Service Boundary (Red line)
- Bentonville City Limit (Black line)

Project Overlap Type

- Water, Sewer, and Trail (Orange)
- Road, Sewer, and Trail (Yellow)
- Sewer and Road (Green)
- Water and Road (Cyan)
- Sewer and Trail (Light Blue)
- Water and Trail (Blue)
- Road and Trail (Pink)
- Sewer and Water (Red)
- Water and Stormwater (White)

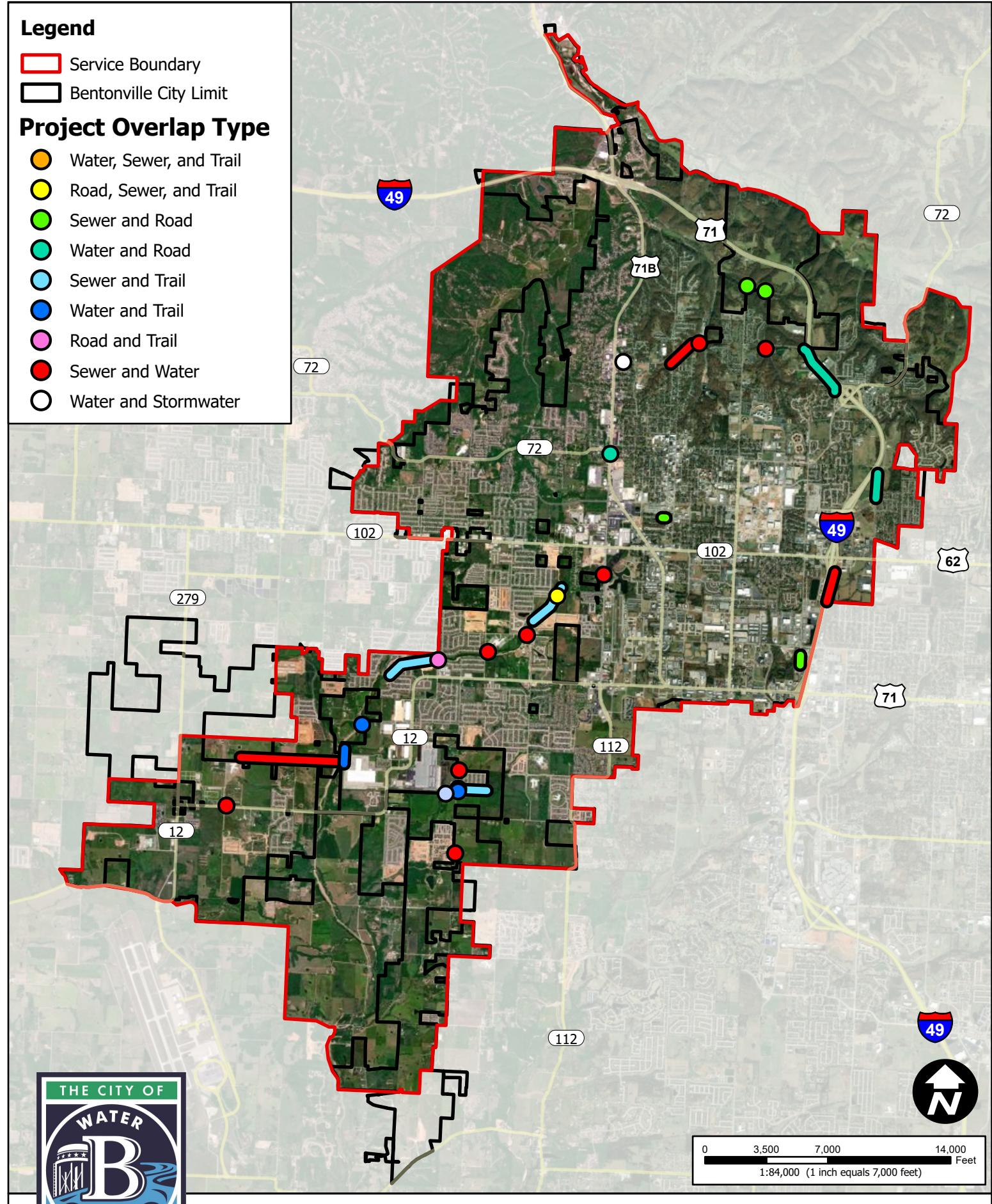
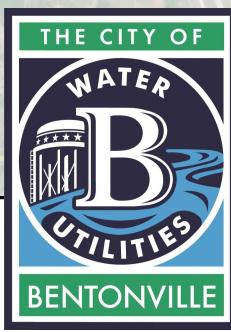


FIGURE 7
All Project Overlap Locations

Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Overlap Locations (Yellow Circle)
- Service Boundary (Red Line)
- Bentonville City Limit (Black Line)

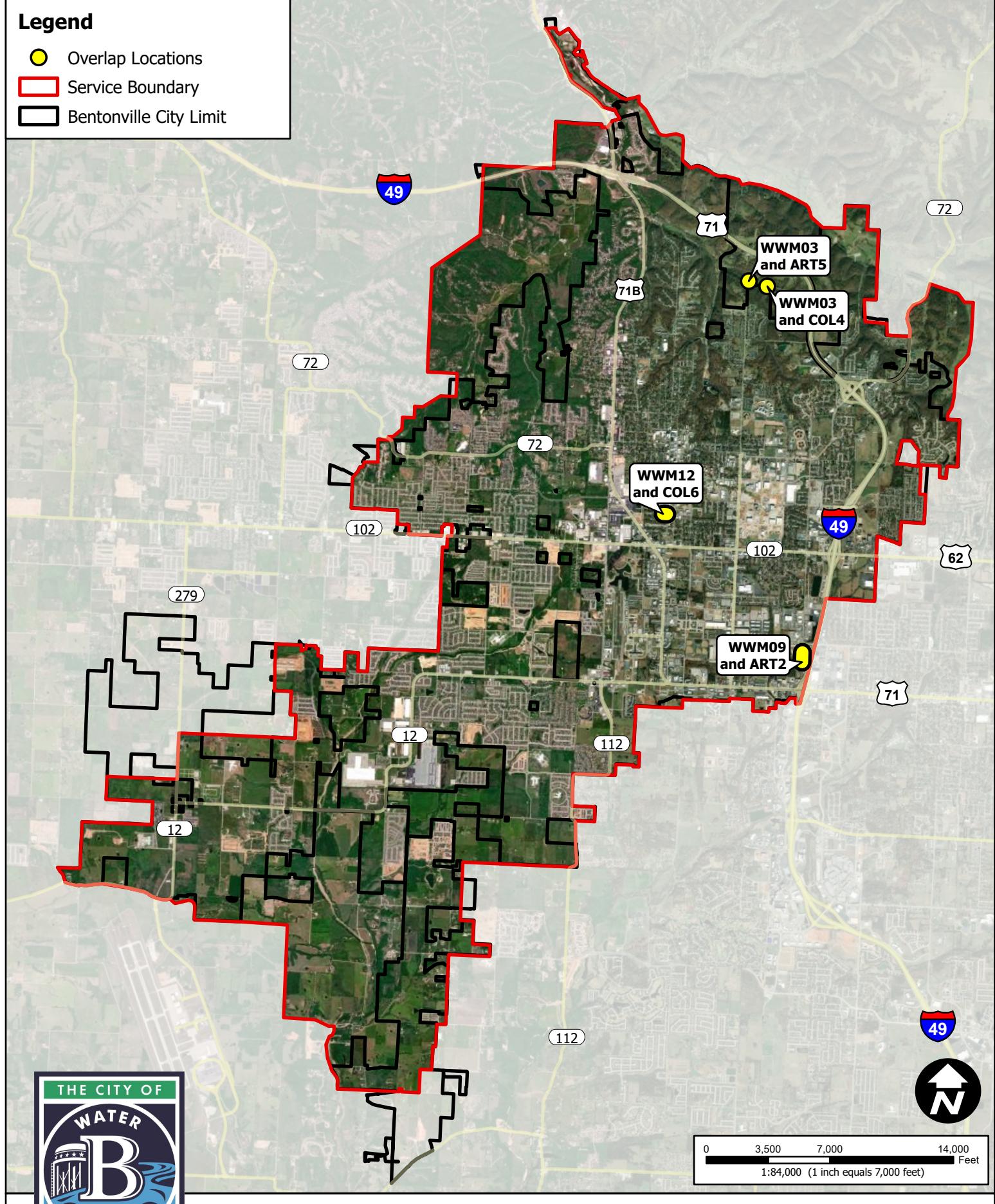


FIGURE 8
Sewer and Road Overlap Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Overlap Locations
- Service Boundary
- Bentonville City Limit

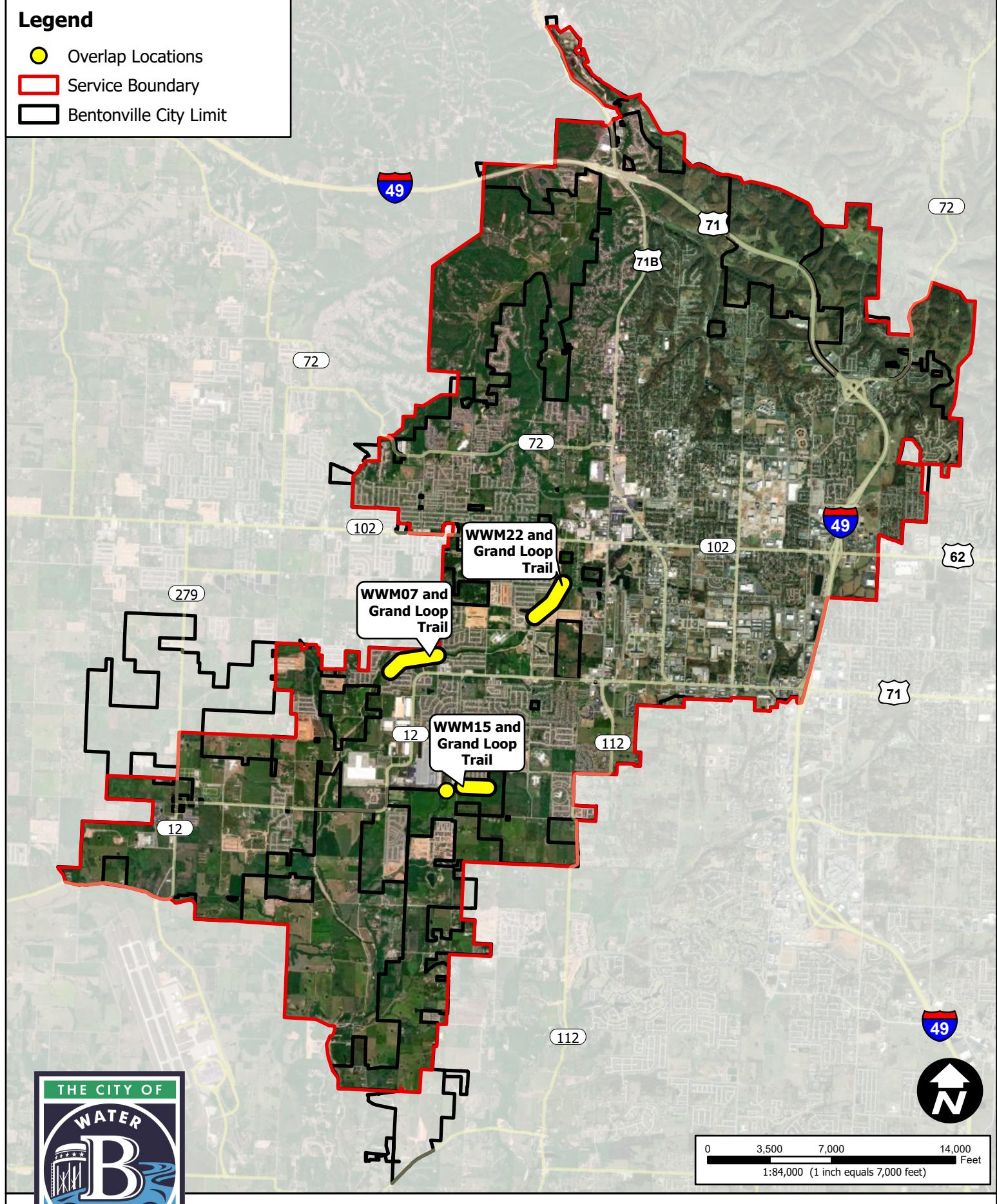


FIGURE 9
Water and Trail Overlap Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Overlap Locations (Yellow Circle)
- Service Boundary (Red Line)
- Bentonville City Limit (Black Line)

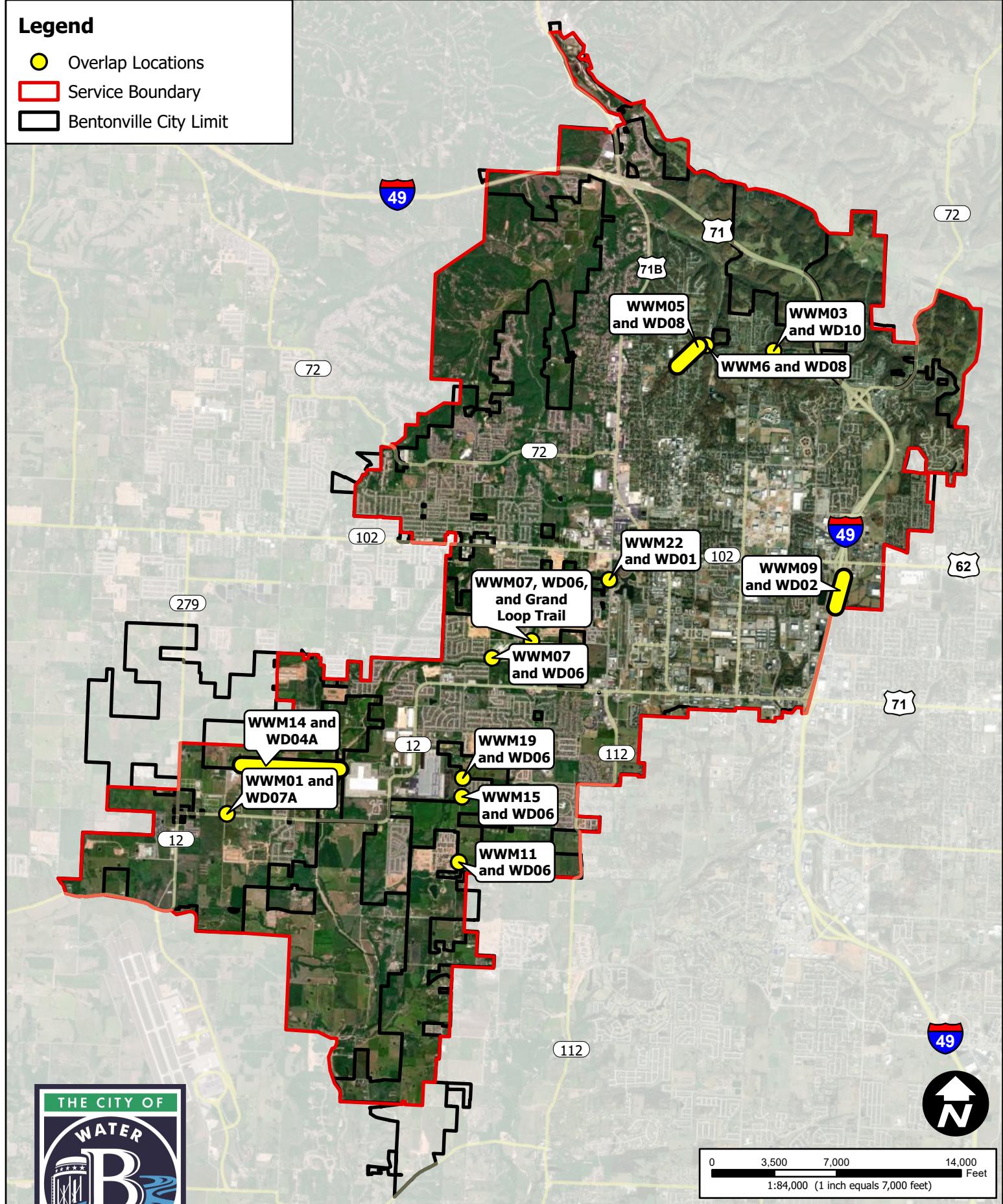


FIGURE 10
Water and Sewer Overlap Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Overlap Locations
- Service Boundary
- Bentonville City Limit

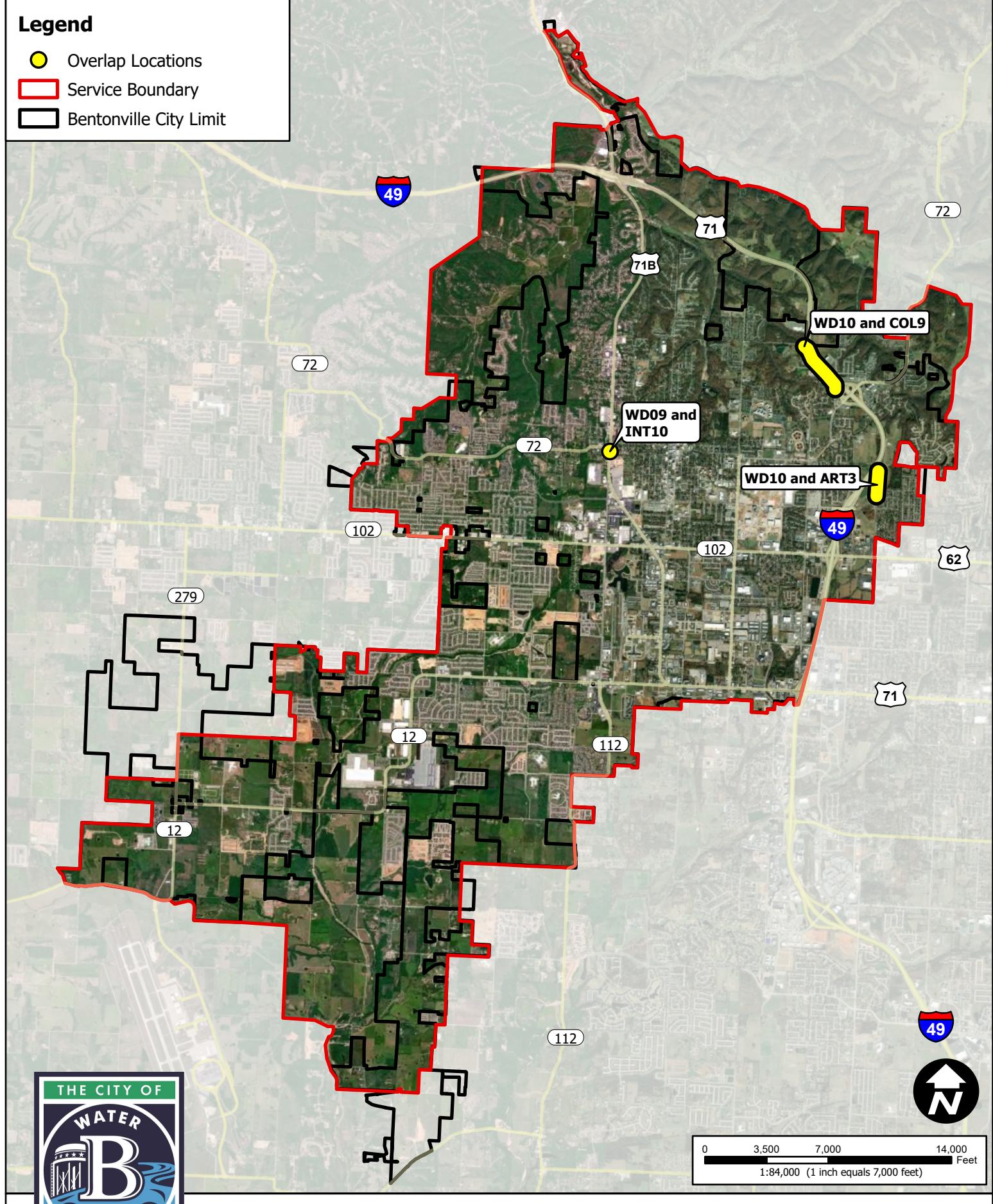


FIGURE 11
Water and Road Overlap Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Overlap Locations (Yellow dot)
- Service Boundary (Red line)
- Bentonville City Limit (Black line)

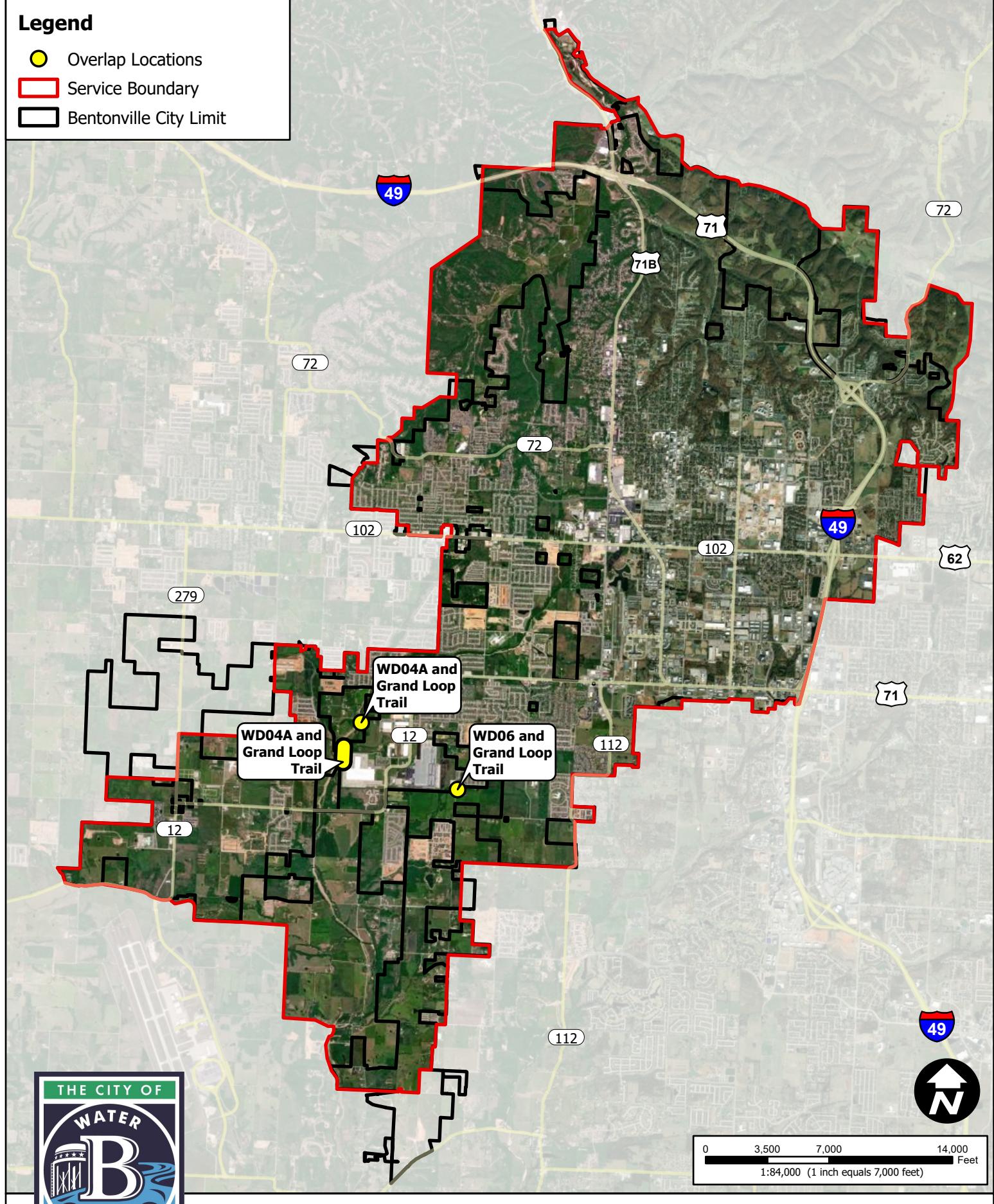


FIGURE 12
Water and Trail Overlap Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Overlap Locations
- Service Boundary
- Bentonville City Limit

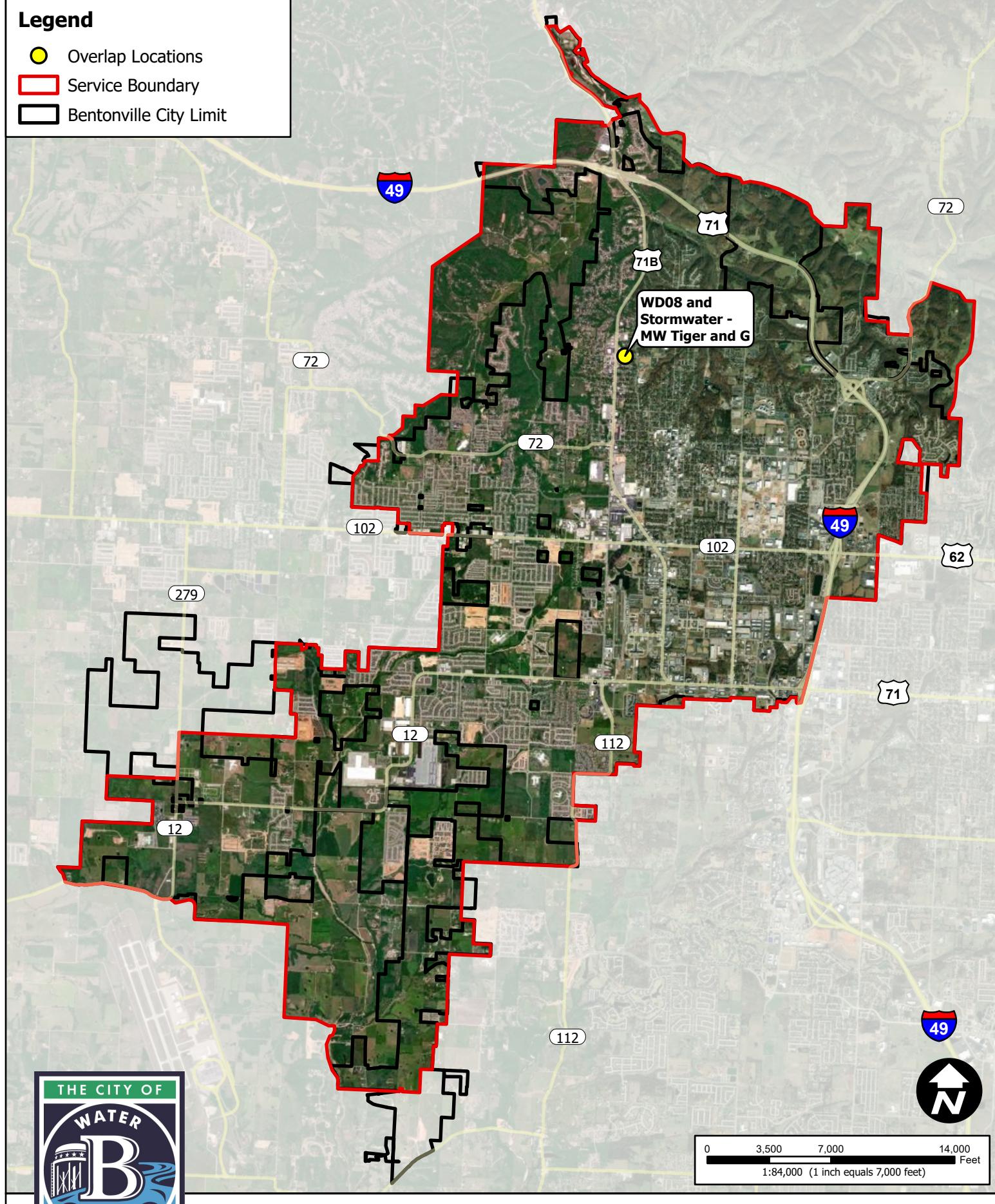


FIGURE 13
Water and Stormwater Overlay Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Overlap Locations
- Service Boundary
- Bentonville City Limit

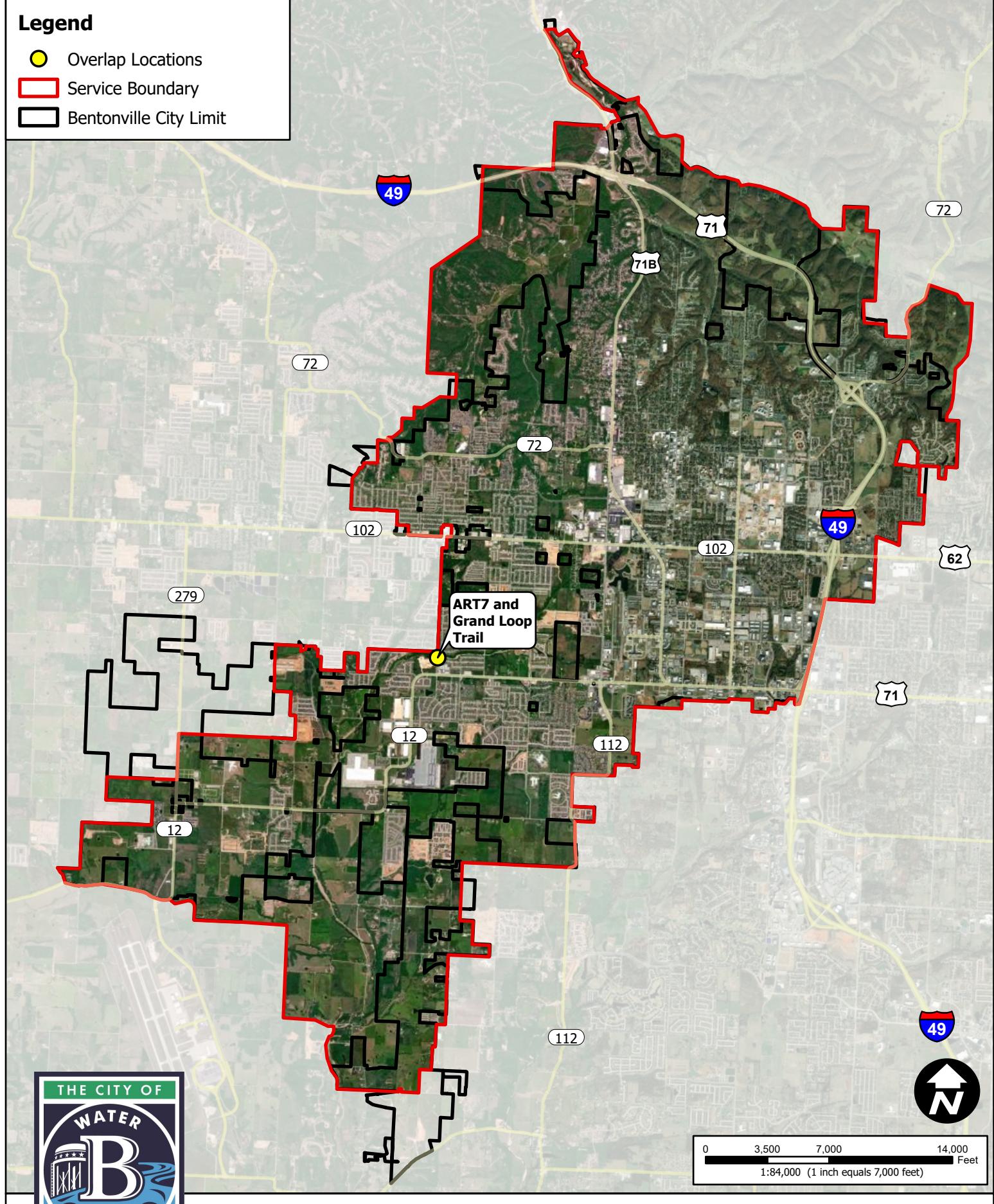


FIGURE 14
Road and Trail Overlay Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Overlap Locations
- Service Boundary
- Bentonville City Limit

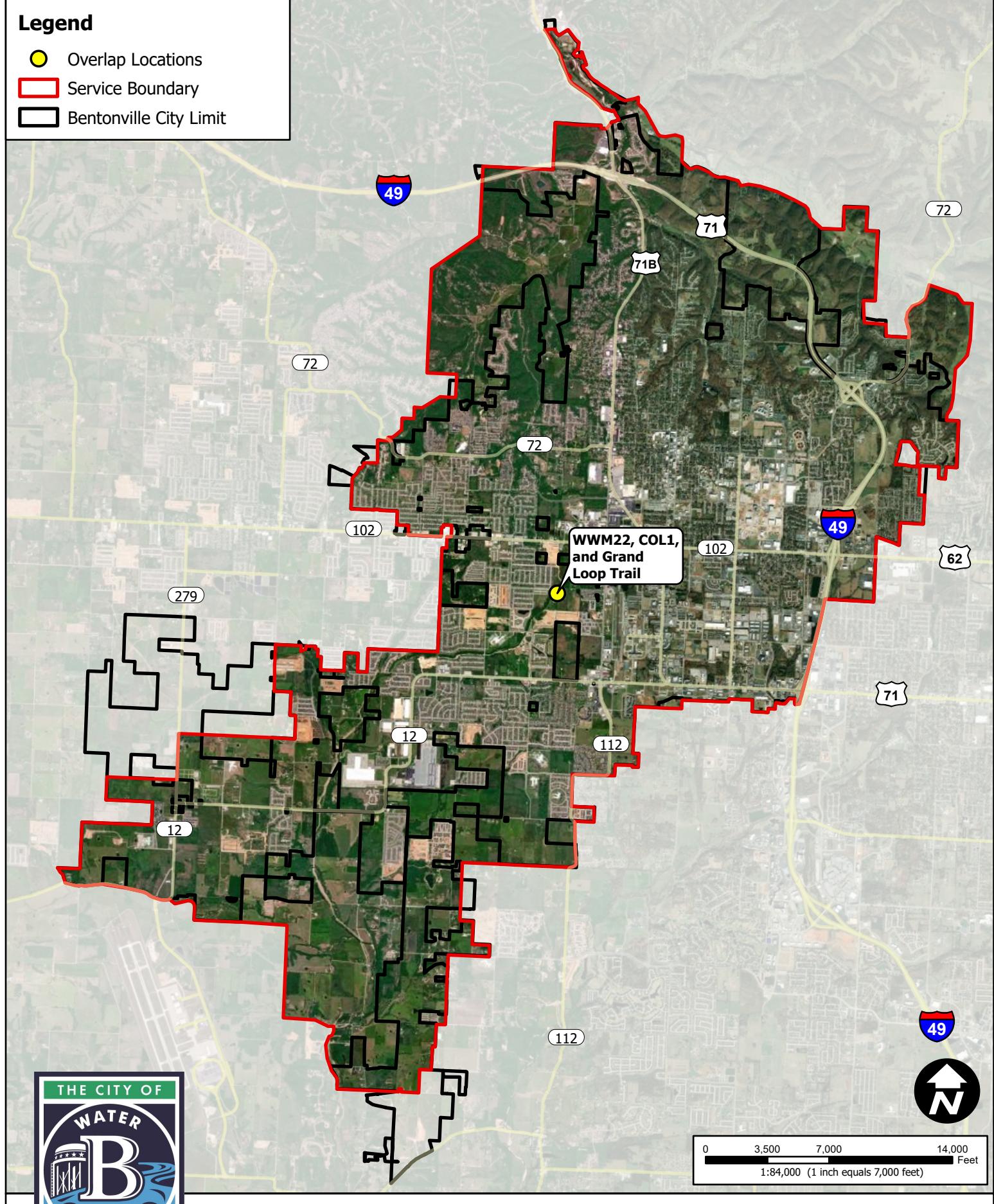


FIGURE 15
Sewer, Road, and Trail Overlay Locations
Bentonville Water Utilities Capital Improvement Plan 2025



Legend

- Overlap Locations (Yellow Circle)
- Service Boundary (Red Line)
- Bentonville City Limit (Black Line)

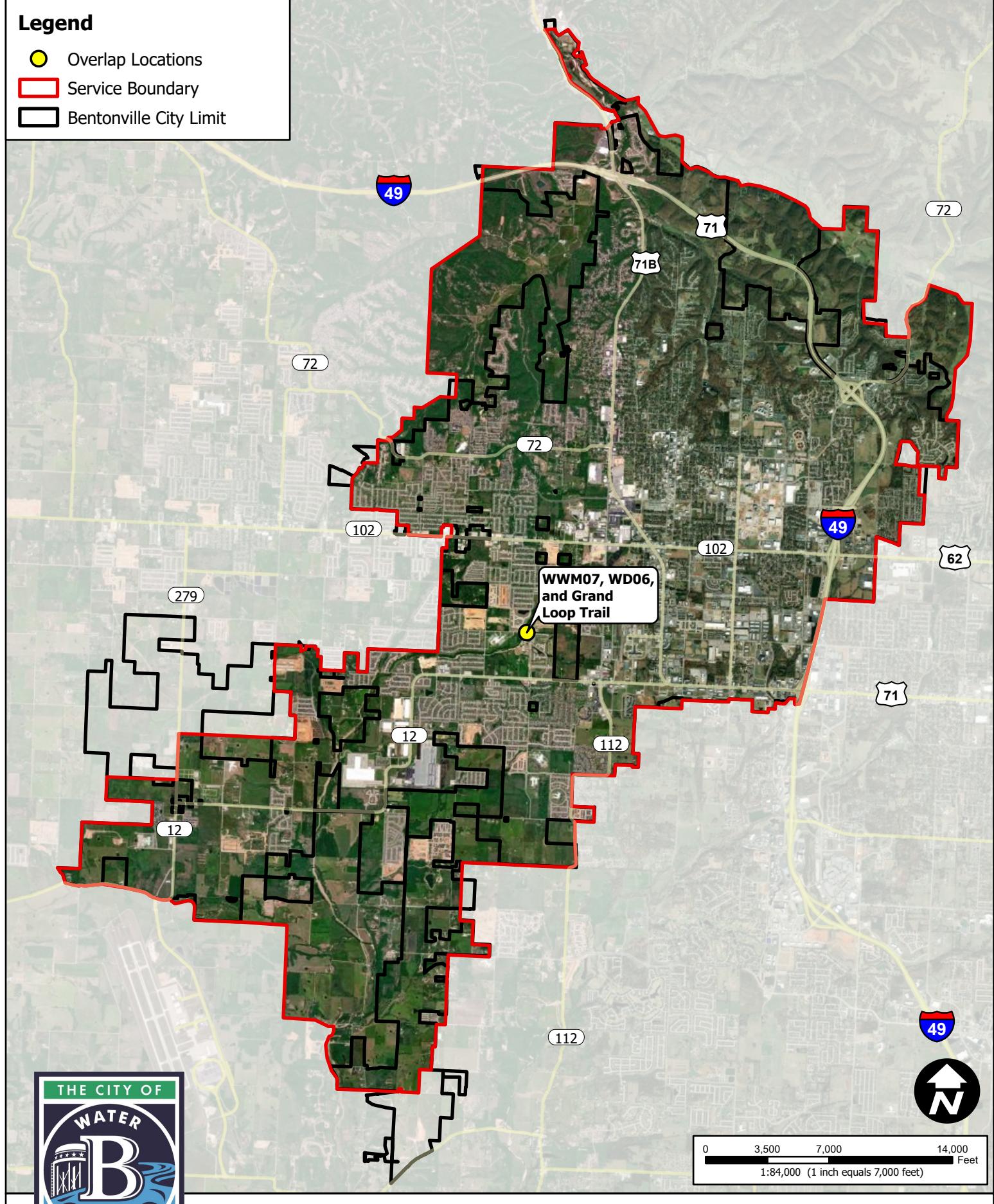
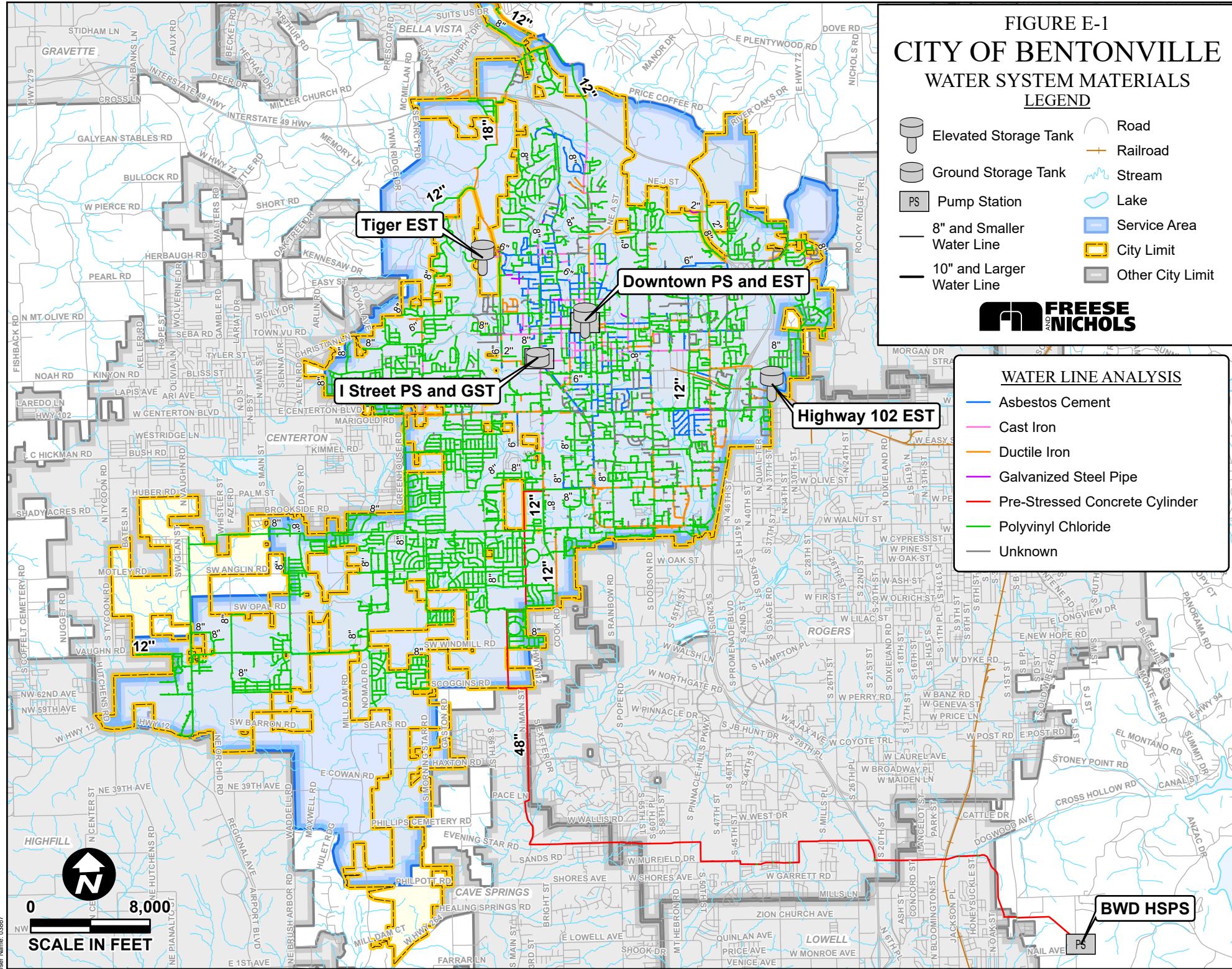


FIGURE 16
Water, Sewer, and Trail Overlay Locations
Bentonville Water Utilities Capital Improvement Plan 2025



APPENDIX E:
WATER LINE CONDITION ASSESSMENT
CONSTITUENT MAPS

FIGURE E-1
CITY OF BENTONVILLE
WATER SYSTEM MATERIALS
LEGEND



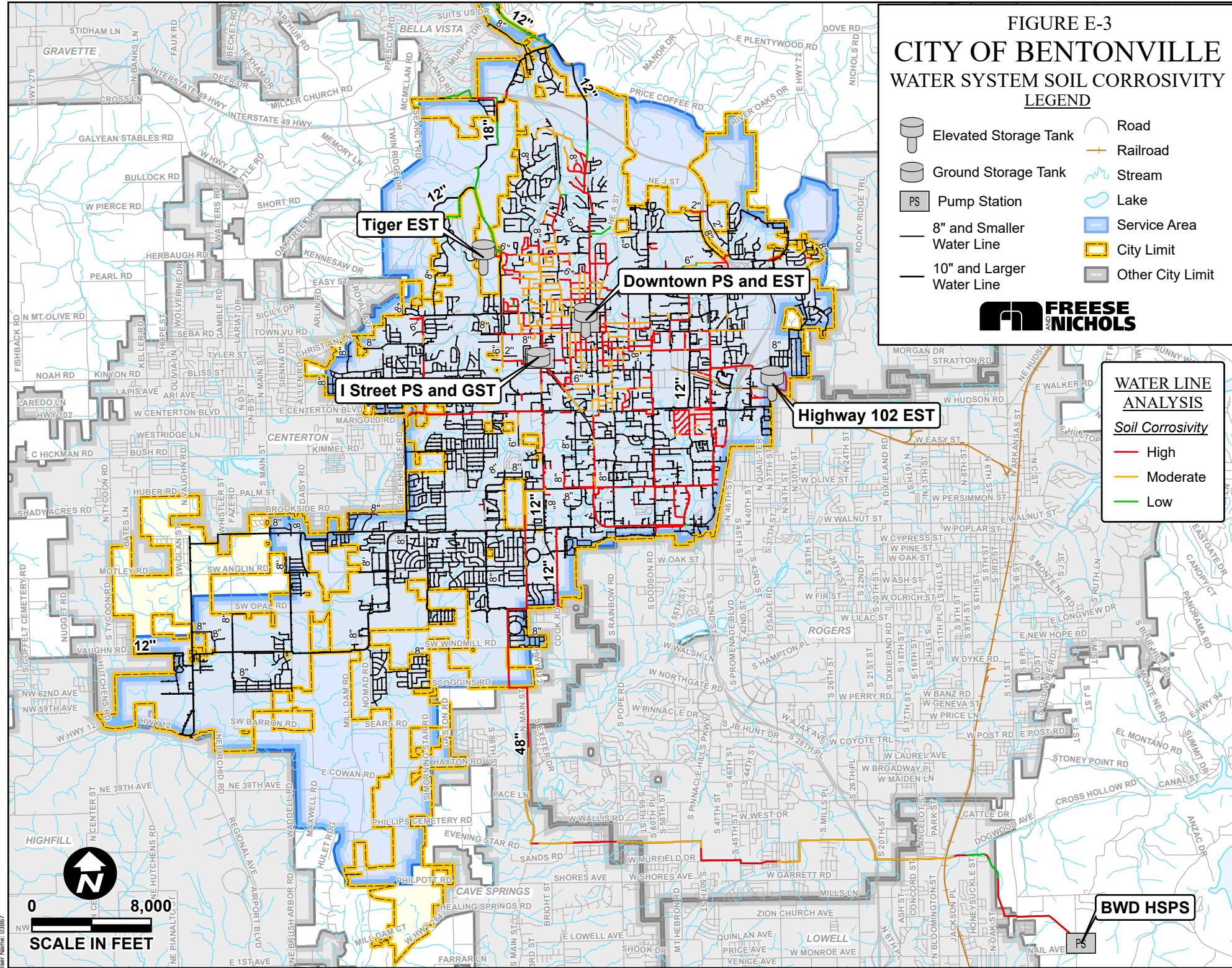


FIGURE E-3
**CITY OF BENTONVILLE
WATER SYSTEM SOIL CORROSIVITY
LEGEND**



WATER LINE ANALYSIS

Soil Corrosivity

- High
- Moderate
- Low

APPENDIX F:
WASTEWATER MAIN CONDITION ASSESSMENT
CONSTITUENT MAPS

