

CAPITAL IMPROVEMENT PROGRAM

FY 2026-2027



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Our History

The Bedford Regional Water Authority ("Authority") was created pursuant to the Water and Sewer Authorities Act Chapter 28, Title 15.1 code of Virginia of 1950, as amended. In accordance with the Reversion Agreement executed in August, 2012, the Authority was created by the Bedford County Board of Supervisors ("Supervisors") by resolution dated November 14, 2012 and the Bedford City Council ("Council") by resolution dated November 27, 2012.

Three of the initial members were appointed by the Supervisors on November 14, 2012

and three of the initial members were appointed by the Council on December 11, 2012. The State Corporation Commission approved the Articles of Incorporation on December 13, 2012. The first board meeting was held on December 18, 2012. The seventh board member was interviewed and recommended to the Supervisors and Council by the initial six board members at the January 22, 2013 board meeting. The seventh board member was approved by the governing bodies and sworn in prior to the February 26, 2013 board meeting.



VISION



Clean Water.
Healthy Environment.
Thriving Community.



MISSION



To provide high quality water
and wastewater services to the
community.



VALUES



Collaboration.
Adaptability.
Results.
Enthusiasm.
Safety.

Meet Our Board of Directors



Robert Flynn,
Chair

Term: 2024-2027



Jay Gray,
Vice-Chair & Finance Committee

Term: 2025-2028



Donald Barger,
Policies and Projects Committee

Term: 2023-2026



John Sharp,
Personnel Committee

Term: 2023-2026



Michael Moldenhauer,
Personnel Committee

Term: 2024-2027



Kevin Mele,
Finance Committee

Term: 2025-2028



Steve Rush,
Policies and Projects Committee

Term: 2025-2028

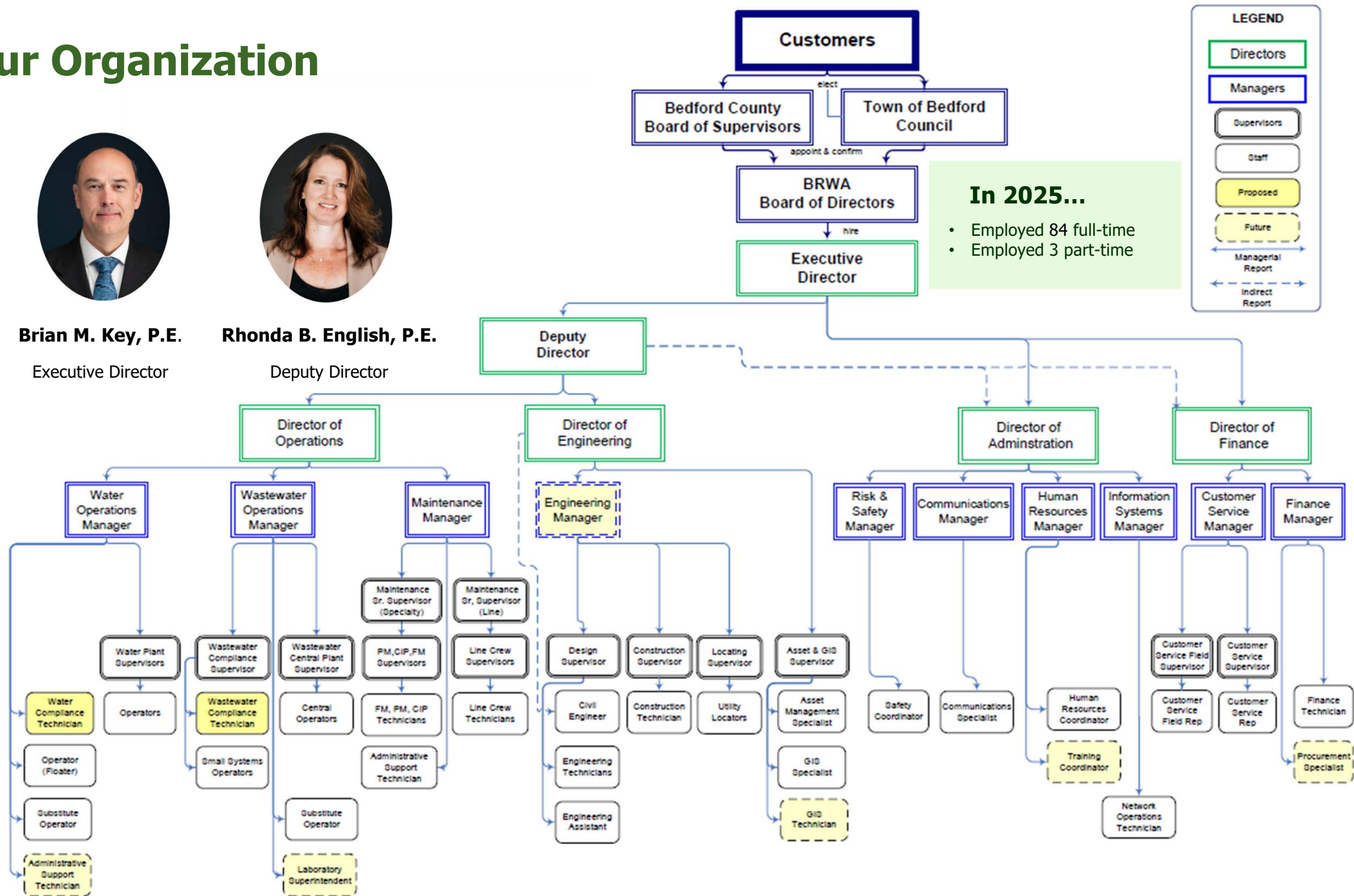
Our Organization



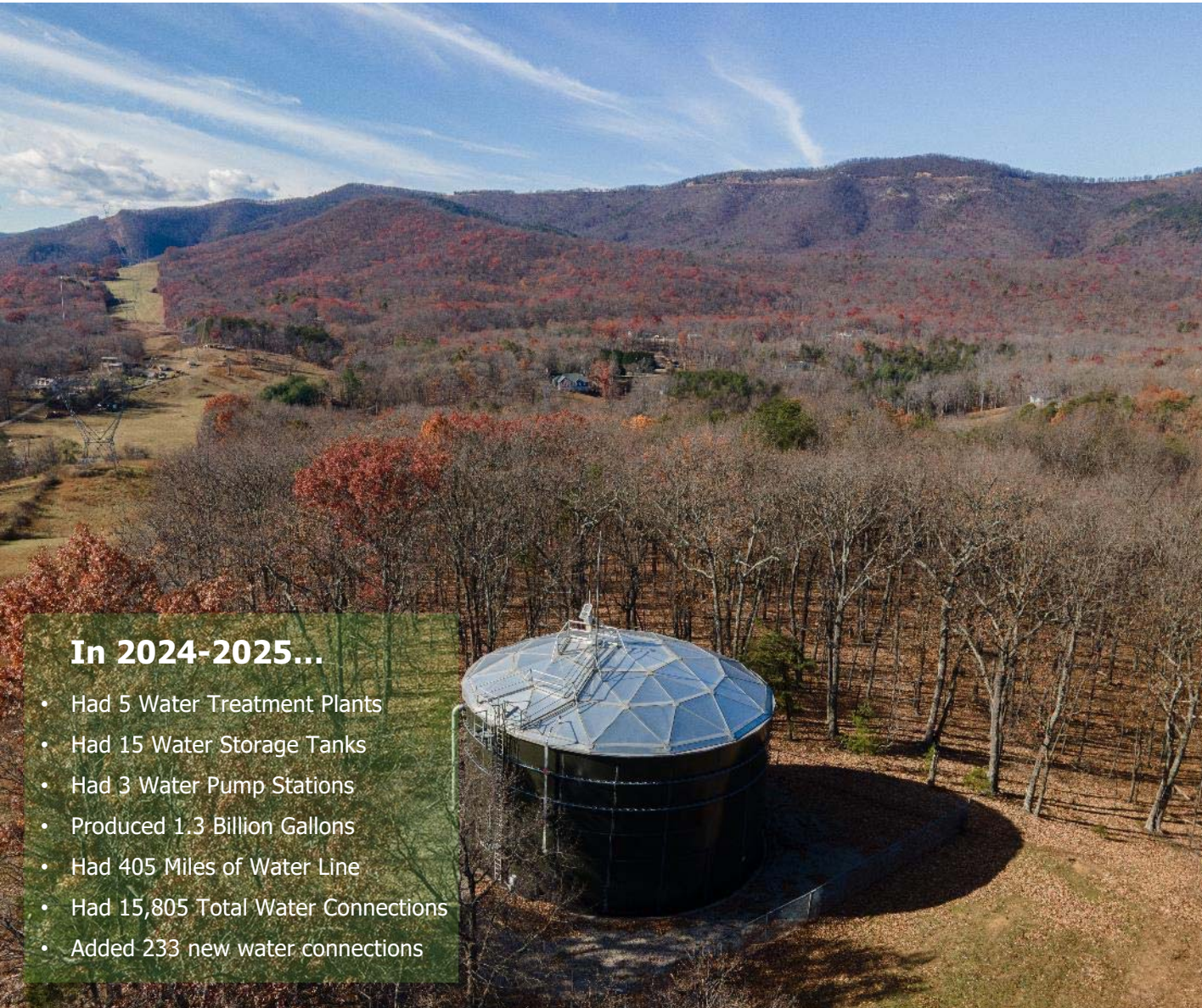
Brian M. Key, P.E.
Executive Director



Rhonda B. English, P.E.
Deputy Director



Our Water System



In 2024-2025...

- Had 5 Water Treatment Plants
- Had 15 Water Storage Tanks
- Had 3 Water Pump Stations
- Produced 1.3 Billion Gallons
- Had 405 Miles of Water Line
- Had 15,805 Total Water Connections
- Added 233 new water connections

Water Distribution Service Areas

1. Bedford Central: The Authority provides water to the area inside and around the Town of Bedford through the Mountain Water Drive Treatment Plant. The plant uses a surface water reservoir located at the foothills of the Peaks of Otter. The Water Treatment Plant ("WTP") has capacity to treat up to 3.0 million gallons per day ("MGD"), and is rated at 2.63 MGD based upon source capacities of the Stoney Creek Reservoir and the Big Otter River. The Town also receives water from the Smith Mountain Lake Water Treatment Facility.

2. Forest Central: The Authority provides water to the Forest, New London, and Boonsboro areas of the County from the Smith Mountain Lake Water Treatment Facility and through purchasing water from the City of Lynchburg; the Authority then sends this water through the Authority's distribution system. Water is treated by Lynchburg from the James River and the Pedlar Reservoir. While there is a minimum purchase requirement of 1 MGD, there is not currently a contract limit to the capacity of the water purchased from Lynchburg, and the City of Lynchburg WTPs are rated at a capacity of 26 MGD.

3. Lakes: Jointly owned with Western Virginia Water Authority ("WVWA"), the Smith Mountain Lake Water Treatment Facility uses membrane technology to treat water that is withdrawn from Smith Mountain Lake ("SML"). This water provides the majority of the water for the Lakes Central system around the SML area while also providing water for Franklin County, the Town of Bedford, and Forest. The SMLWTF is rated at 4.0 MGD, and it can easily be expanded to 6.0 MGD. The Authority also owns three (3) independent water systems that use wells as the source and are located in the Mountain View Shores, Valley Mills Crossing, and Paradise Point subdivisions.

4. Stewartsville: The Authority owns a water system in the Stewartsville area where water is purchased from WVWA and then distributed by the Authority. The Water Sale and Purchase Agreement with WVWA allows the purchase of up to 1.0 MGD for this service area.

5. Montvale: The Authority acquired the Montvale water system in 2026. This system is an independent well system served by two artesian wells, and provides water to the Montvale area. The system is rated at 0.140 MGD.

Our Wastewater System



Wastewater Collection Service Areas

1. Bedford Central: The Authority provides sewer service inside and around the Town of Bedford using a Wastewater Treatment Plant ("WWTP") located on Orange Street in Bedford. The Central WWTP is rated at 2.0 million gallons a day ("MGD").

2. Forest Central: The Authority provides sewer service to the Forest and New London areas of the County by collecting the wastewater and transmitting it to the Lynchburg Regional WWTP for treatment. The Authority owns 1.0 MGD capacity in the Lynchburg WWTP.

3. Lakes Central: The Authority owns a WWTP in Moneta which provides sewer service to the Lakes community around the 122 corridor. The WWTP is rated at 0.5 MGD.

4. Montvale: The Montvale WWTP is located behind the Elementary school. It is rated at 0.05 MGD and provides service to the Montvale Elementary School, the Montvale Library, the Montvale Center for Business, and the central Montvale community.

5. Cedar Rock: The Cedar Rock WWTP is located in the Cedar Rock subdivision in Forest, with a service area limited to the Cedar Rock subdivision. It is rated at 0.015 MGD.

6. Mariners Landing: The Mariners Landing WWTP and drain fields are located in the Mariners Landing subdivision in Huddleston, with a service area limited to the Mariners Landing community. The WWTP is rated at 0.090 MGD, and the drain fields are approved for approximately 0.2 MGD.

In 2024-2025...

- Had 5 wastewater treatment plants
- Had 32 sewer pump stations
- Treated 599 million gallons
- Had 161 miles of sewer line
- Had 6,524 total sewer connections
- Added 129 new sewer connections

Capital Improvement Program Executive Summary

Bedford Water's Capital Improvement Program (CIP) provides a structured approach to maintaining, upgrading, and expanding water and wastewater infrastructure to ensure reliable service, regulatory compliance, and long-term sustainability. The CIP is a planning document that identifies near-term and long-range capital needs and is reviewed annually to reflect changing priorities, costs, and funding availability.

Bedford Water currently serves more than 15,800 customers, maintaining over 400 miles of water lines and 160 miles of sewer lines. Over \$75 million in capital improvement needs have been identified to support system reliability and future growth, excluding numerous replacement projects or purchases to be managed through separate reserve funding, as well as larger projects underway with alternate funding sources.

For FY 2026–2027, approximately \$2.0 million in capital improvements are planned, with emphasis on:

- Infrastructure rehabilitation to restore operability, meet regulatory requirements, and ensure environmental protection
- System reliability and compliance through expanded SCADA implementation, lead service line inventory, and backup power improvements
- Operational efficiencies, including data management, equipment to support in-house construction, and facility climate control
- Administrative and facility planning to support staffing and operations

Future needs include continued facility and electrical upgrades, additional SCADA implementation, and expansion-related planning, such as a comprehensive water and sewer master plan. Larger future investments include system expansions, waterline extensions, treatment capacity improvements, and infrastructure to support regional growth. The CIP also incorporates external funding opportunities, including grant-supported sewer improvements, to reduce financial burden while addressing aging infrastructure and environmental risks.

Overall, the CIP reflects a balanced approach between immediate operational needs and long-term system planning, ensuring that critical assets are maintained, regulatory requirements are met, and infrastructure supports continued service reliability and customer growth. Funding and project timing are evaluated annually in coordination with the operating budget, with consideration given to reserves, financing strategies, and potential rate adjustments to ensure long-term financial sustainability.

FY 2026-2027 Capital Improvements Listing

Capital projects identified for FY 2026-2027 focus on system reliability, regulatory compliance, operational efficiency, and long-term planning through targeted investments in infrastructure, system controls, equipment, data management, and lead service line inventory development.



Projects by Service Area	2026-2027
Purchases	
CIP Crew - 18 - 20 Ton Excavator	\$ 211,000
CIP Crew - Straw Blower	\$ 10,000
Data Management System for Wastewater	\$ 50,000
Line Crew #4 - 16' 8 Ton Trailer	\$ 11,000
Line Crew #4 - John Deere 35P	\$ 70,000
PM - 1 Ton Vehicle for Potholing Crew	\$ 80,000
Central	
Central Lift Station 12 - SCADA	\$ 15,000
Central Lift Station 8 - SCADA	\$ 15,000
Stoney Creek Reservoir - Ph 1 Rehab Construction	\$ 700,000
Central WTP	
Central WTP - HVAC Mini-Splits for Lab and Office	\$ 35,000
Central WWTP	
Central WWTP - Pad for Dumpster	\$ 20,000
Mariners Landing	
Mariners Landing-SCADA for 2 lift stations	\$ 20,000
Moneta WWTP	
Moneta WWTP - Bio-wheel repairs for Train B	\$ 170,000
Moneta WWTP - Second disk filter unit	\$ 125,000
Montvale	
Lead Service Line Inventory - Montvale	\$ 20,000
Office	
New Building - Building & Sewer Design	\$ 400,000
SML	
SML RWI - Battery Back-up System for Raw Intake Pump Valve Actuators	\$ 12,500
Grand Total	\$ 1,964,500

FY 2026-2027 Water Projects

Water projects identified for the 2026-2027 fiscal year focus on maintenance and improvements of infrastructure to ensure safe, reliable operations and ongoing regulatory compliance.

Projects by Service Area	2027
Central	
Stoney Creek Reservoir - Ph 1 Rehab Construction	\$ 700,000
Central WTP	
Central WTP - HVAC Mini-Splits for Lab and Office	\$ 35,000
SML	
SML RWI - Battery Back-up System for Raw Intake Pump Valve Actuators	\$ 12,500
Montvale	
Lead Service Line Inventory - Montvale	\$ 20,000
Grand Total	\$ 767,500

Stoney Creek Dam Rehabilitation

The valves at the reservoir intake are original components dating to the dam’s construction in 1955. Most of these valves are currently inoperable due to a combination of advanced age, significant corrosion, and inlets buried by sediment accumulation. This project will involve dredging around the intake area and replacing the existing valves to restore full operability. These improvements are required to meet regulatory standards and to ensure the dam’s ability to safely release water during potential flooding conditions. The dam is presently operating under a conditional permit, which will remain in effect until the valve replacements are completed and operability is fully restored.



Central Water Treatment Plant HVAC

The water treatment plant has limited heating and cooling capability, currently relying on a baseboard heater and a window air conditioning unit. These units do not provide adequate temperature control and draw significant amperage during operation, which restricts the ability to operate other equipment simultaneously. The proposed mini-split systems have a minimal electrical load, making them suitable for use until the Phase 2 Electrical Project is completed, while also providing improved and more reliable temperature management.

Smith Mountain Lake Raw Water Intake Valve Actuator Backup

The raw water intake experiences frequent power disruptions, causing valves and pumps to fault out. Battery backup for the valve actuators will improve reliability and reduce stress on the pumps during power failures, while also reducing operator time necessary for resetting the faults.

Montvale Lead Service Line Inventory

A Lead Service Line Inventory has not been completed for the Montvale Water System, placing the system out of compliance with Virginia Department of Health (VDH) requirements. An initial inventory must be developed to determine the potential presence of lead service lines and to document known system materials. This effort should also evaluate whether a statistical approach may be appropriate and approvable for determining the materials of service lines that remain unknown following completion of the initial inventory.

FY 2026-2027 Sewer Projects

The sewer projects identified for the 2026-2027 fiscal year include upgrades and replacements at facilities to improve system reliability, maintain regulatory compliance, protect water quality, and reduce the risk of environmental impacts.

Projects by Service Area	2027
Central	
Central Lift Station 12 - SCADA	\$ 15,000
Central Lift Station 8 - SCADA	\$ 15,000
Central WWTP	
Central WWTP - Pad for Dumpster	\$ 20,000
Moneta WWTP	
Moneta WWTP - Bio-wheel repairs for Train B	\$ 170,000
Moneta WWTP - Second disk filter unit.	\$ 125,000
Mariners Landing	
Mariners Landing-SCADA for 2 lift stations. These are smaller stations.	\$ 20,000
Grand Total	\$ 365,000

Moneta WWTP

Bio-wheel Repairs

Several end plates and rods on the Train B Bio-wheels are damaged or worn and require replacement to maintain effective and reliable treatment. This project includes replacement of the currently identified damaged components only. Additional repairs or replacements may be required in the future as other components deteriorate or operational needs evolve.

Disk Filter

An additional disk filter is needed to further reduce total suspended solids (TSS) in the final effluent and achieve effective zinc removal to meet regulatory limits. The WWTP currently operates a single disk filter, and replacement parts are no longer available due to the unit’s obsolescence, creating both treatment and reliability concerns.

Central WWTP Dumpster Pad

The dumpster at the Central Wastewater Treatment Plant (WWTP) is used to collect sludge for transport to the landfill. The current placement and configuration allow sludge runoff and accumulation beneath and around the dumpster. A containment pad with appropriate drainage is necessary to direct and manage runoff while protecting the environment.

SCADA for Lift Stations

Implementation of Supervisory Control and Data Acquisition (SCADA) is critical at sanitary sewer lift stations to continuously monitor wet well levels, pump performance, and alarm conditions. SCADA provides real-time data and automated alerts, allowing operators to respond promptly to equipment failures or abnormal conditions and significantly reduce the risk of sanitary sewer overflows (SSOs). The Mariners Landing lift stations are located in close proximity to Smith Mountain Lake. Any overflow at these stations poses a direct risk to lake water quality, making SCADA-based monitoring and early notification critical for rapid response and regulatory compliance.



FY 2026-2027 Capital Purchases and Projects

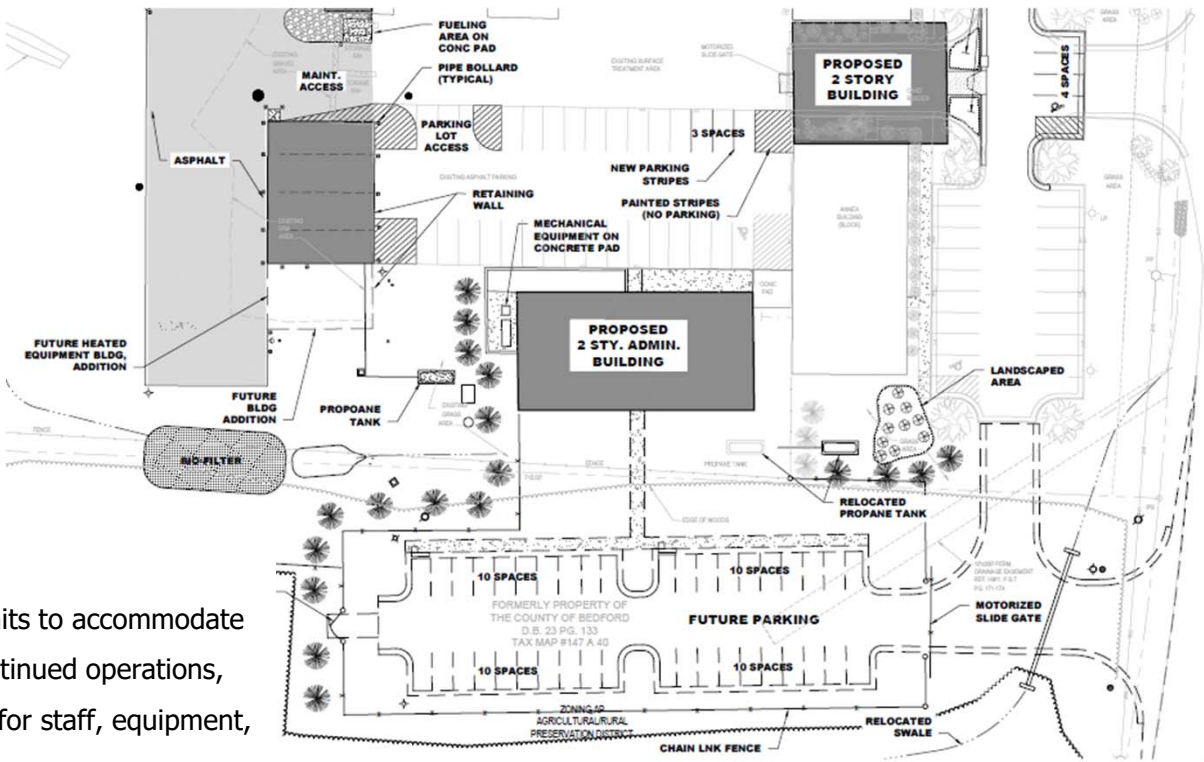
Projects by Service Area	2027
Purchases	
CIP Crew - 18 - 20 Ton Excavator	\$ 211,000
CIP Crew - Straw Blower	\$ 10,000
Data Management System for Wastewater	\$ 50,000
Line Crew #4 - 16' 8 Ton Trailer	\$ 11,000
Line Crew #4 - John Deere 35P	\$ 70,000
PM - 1 Ton Vehicle for Potholing Crew	\$ 80,000
Office	
New Building - Building & Sewer Design	\$ 400,000
Grand Total	\$ 832,000

Expansion of Administrative Facilities

Current administrative facilities have reached capacity, requiring the use of mobile units to accommodate personnel growth in recent years. While these temporary measures have allowed continued operations, additional permanent space is now needed to support ongoing and future expansion for staff, equipment, and inventory.

In addition, the site is presently served by on-site drainfields. To support both existing and proposed facilities, design and construction are required to extend public sewer service to the site, including approximately 1.2 miles of sewer main and a new sewer lift station.

A master plan was completed in 2016 to guide long-term development of the site. The plan identified future building and parking expansions, including construction of a two-story administrative building designed to house staff and provide a larger, dedicated meeting space. This plan will be revisited to evaluate current and future facility needs, including consideration of a smaller facility elsewhere on the site to address staffing needs for the near- to intermediate-term.



Data Management

The implementation of new wastewater software will establish a more efficient and standardized approach to organizing, retrieving, and entering data across all systems. Improved data consistency and visibility will strengthen the ability to identify potential issues before they escalate into regulatory violations and will streamline reporting processes to support compliance and operational decision-making.

FY 2026-2027 Capital Purchases and Projects

Maintenance Equipment

CIP Crew

The Capital crew currently rents certain pieces of equipment for their projects that would be more cost-effective to purchase. A larger excavator is necessary for the placement of trench boxes and the installation of sanitary sewer manhole structures, which are heavier and typically installed at greater depths. In addition, straw blowers have been rented on recent projects to provide quick site restoration. These units significantly reduce the quantity of straw required and decrease labor time compared to traditional methods.

Purchasing both the larger excavator and a straw blower will reduce recurring rental costs, increase scheduling flexibility, and allow replacement reserves to remain primarily focused on acquiring materials needed for water and sewer line replacement projects.

Line Crew

Much of the equipment currently used by one of the line crews is oversized for the typical scope of work they perform. Smaller equipment would be better suited for routine and smaller-scale tasks, improving efficiency and maneuverability while reducing operational costs. The existing larger equipment would be reassigned to the CIP crew, where it can be more effectively utilized to increase production capacity and overall effectiveness. This additional equipment would also support the potential future formation of an additional CIP crew, further enhancing project delivery capabilities.



Preventative Maintenance (PM) - Potholing

In accordance with Environmental Protection Agency (EPA) and Virginia Department of Health requirements for establishing a comprehensive lead service line inventory, all water service line materials must be identified on both the customer-owned and system-owned sides of the connection. This process is necessary to verify the presence or absence of lead materials that may require replacement. To avoid the significant expense associated with contracting exploratory excavations, dedicated personnel will be hired and assigned to perform potholing activities in-house. This approach will provide greater flexibility, cost control, and scheduling efficiency. A truck capable of towing a hydro-excavator will be required and assigned to this crew to safely and efficiently complete these investigations.

Capital Improvement Program Projects Listing FYE 27-29

Projects by Service Area	Fiscal Year 2027	2028	2029
Purchases			
CIP Crew - 18 - 20 Ton Excavator	\$ 211,000		
CIP Crew - Portable Air Compressor			\$ 33,000
CIP Crew - Skid Steer Concrete Saw			\$ 30,000
CIP Crew - Straw Blower	\$ 10,000		
CIP Crew - Track Loader			\$ 281,000
CIP Crew - Water Service Hog			\$ 9,000
Data Management System for Wastewater	\$ 50,000		
Data Visualization Phase 2		\$ 120,000	
Data Visualization Phase 3			\$ 85,000
Equipment - Asphalt Hot Box, Compactor and Roller			\$ 77,000
Landscape Crew - 60" Stand-on Mower		\$ 15,000	
Landscape Crew - 60" Zero Turn Mower		\$ 15,000	
Landscape Crew - RAM 1500 4x4 1/2 Ton Quad Cab		\$ 110,000	
Landscape Crew - Utility Trailer - 80 x12 tandem landscaping trailer		\$ 10,800	
Line Crew - Department Asbestos Cutting Tools			\$ 10,000
Line Crew #4 - 16' 8 Ton Trailer	\$ 11,000		
Line Crew #4 - 6500 Chevy Dump Truck			\$ 110,000
Line Crew #4 - John Deere 35P	\$ 70,000		
PM - 1 Ton Vehicle for Potholing Crew	\$ 80,000		
Water & Sewer Master Plan		\$ 250,000	
Yard - Paving of 1/4 Rear Parking Area			\$ 12,500
Yard - Stone and Cold Patch Pads			\$ 7,200
Central			
Central Lift Station 12 - SCADA	\$ 15,000		
Central Lift Station 4 Replacement & SCADA		\$ 1,000,000	
Central Lift Station 8 - SCADA	\$ 15,000		
Central Lift Station 9 - SCADA		\$ 15,000	
Stoney Creek Reservoir - Ph 1 Rehab Construction	\$ 700,000		
Central WTP			
Central WTP - HVAC Mini-Splits for Lab and Office	\$ 35,000		
Central WTP - Hypo Relocation with GAC (Construction)			\$ 300,000
Central WTP - Phase 2 Electrical Upgrades		\$ 550,000	
Central WWTP			
Central WWTP - Pad for Dumpster	\$ 20,000		
CWWTP - Shop Reorganization			\$ 15,000

Capital Improvement Program Projects Listing FYE 27-29

Projects by Service Area	Fiscal Year 2027	2028	2029
Forest			
Control Valve - Lynchburg Entry Point (Graves Mill Rd)			\$ 120,000
Control Valve - Lynchburg Entry Point (Hawkins Mill)			\$ 120,000
Mariners Landing			
Mariners Landing-SCADA for 2 lift stations. These are smaller stations.	\$ 20,000		
Mariners WWTP			
Mariners WWTP - Install skimmer on clarifier 1 and 2		\$ 10,000	
Moneta WWTP			
Moneta WWTP - Bio-wheel repairs for Train B	\$ 170,000		
Moneta WWTP - Second disk filter unit	\$ 125,000		
Moneta WWTP – Separate VFDs for Biowheels			\$ 100,000
Montvale			
Fire Line Meter - Montvale Elementary			\$ 30,000
Lead Service Line Inventory - Montvale	\$ 20,000		
Montvale WTP Fencing		\$ 20,000	
Mountain View Shores			
MVS - Filter System Improvements			\$ 500,000
Office			
New Building - Building & Sewer Design	\$ 400,000		
SML			
SML - Raw Water Intake Generator		\$ 200,000	
SML RWI - Battery Back-up System for Raw Intake Pump Valve Actuators	\$ 12,500		
SMLWTF GAC Pump and associated parts			\$ 130,000
Various			
Water - Sample hydrants - Phase 2B (7)			\$ 19,000
Grand Total	\$ 1,964,500	\$ 2,315,800	\$ 1,988,700



Projects with Outside Funding

Western Hills Subdivision Sewer Replacement: In a cooperative effort with U.S. Representative Morgan Griffith and in coordination with Bedford County administration, \$750,000 in grant funding was approved for the replacement of sewer mains in the Western Hills subdivision as part of the 2026 Federal Appropriations Package.

Representative Griffith was a speaker at an Earth Day event hosted by Bedford Water in 2025 at the Central Wastewater Treatment Plant. During the visit, he observed the challenges associated with aging infrastructure and learned of the environmental and operational benefits resulting from sewer improvements completed to date. Based on this firsthand understanding, Representative Griffith offered his support in securing funding for additional sewer replacements to further protect the environment.

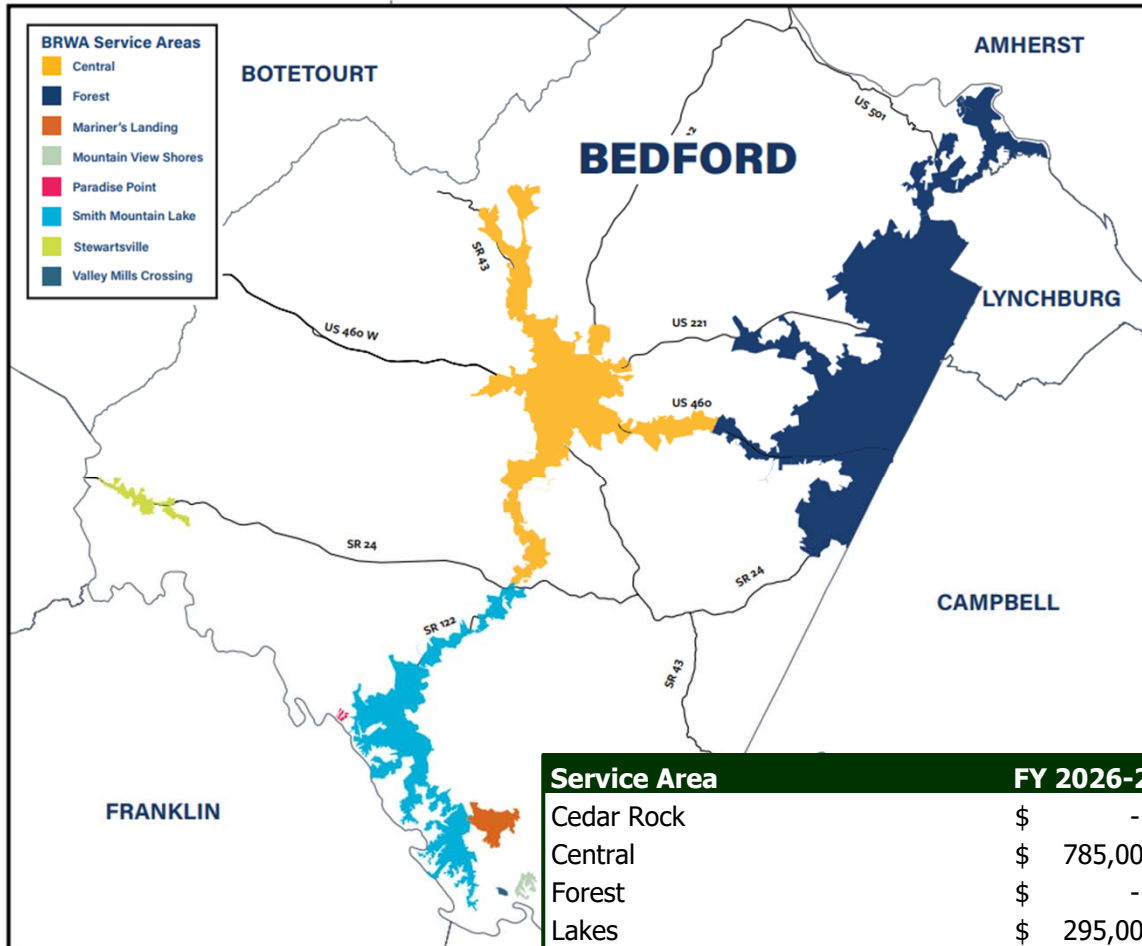
Phase 1 of the sewer replacement project will include the replacement of approximately 3000 feet of sewer line, addressing the majority of the lines interior to the subdivision that have required frequent maintenance and repairs. At present, these lines remain under routine root treatment to help prevent sewage backups and overflows.

Pending agreements being in place, the project is anticipated to advertise for bidding in September 2026, with completion anticipated by early 2028.

The grant requires matching funds of at least twenty percent. Bedford Water will utilize sewer line replacement reserve funds, up to \$900,000, to satisfy the required match. This enables a total project budget of \$1.65 Million.



Capital Improvement Program – Costs By Service Area



Service Area	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	Future	Total
Cedar Rock	\$ -	\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ 10,000
Central	\$ 785,000	\$ 1,565,000	\$ 315,000	\$ 1,469,000	\$ 695,000	\$ 1,145,000	\$ 5,974,000
Forest	\$ -	\$ -	\$ 240,000	\$ 120,000	\$ 25,000	\$ 11,500,000	\$ 11,885,000
Lakes	\$ 295,000	\$ -	\$ 100,000	\$ -	\$ -	\$ 25,850,000	\$ 26,245,000
Mariners	\$ 20,000	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000
Montvale	\$ 20,000	\$ 20,000	\$ 30,000	\$ -	\$ -	\$ -	\$ 70,000
SML (Shared with WVWA)	\$ 12,500	\$ 200,000	\$ 130,000	\$ -	\$ -	\$ -	\$ 342,500
Stewartville	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,600,000	\$ 20,600,000
Various	\$ -	\$ -	\$ -	\$ -	\$ 36,000	\$ -	\$ 36,000
Valley Mills	\$ -	\$ -	\$ -	\$ -	\$ 35,000	\$ -	\$ 35,000
Mountain View Shores	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000
Administrative Purchases / Projects	\$ 832,000	\$ 520,800	\$ 673,700	\$ 6,929,000	\$ 851,500	\$ 55,000	\$ 9,862,000
Total	\$1,964,500	\$2,315,800	\$1,988,700	\$8,528,000	\$1,642,500	\$ 59,150,000	\$ 75,589,500

Water Projects

Various water projects have been identified in each service area to be addressed over the next several years, with some larger projects projected more into future years due to higher funding needs. Some facility replacement projects are included within the capital improvement plan for larger projects. Water projects funded in FY 2026-2027 focus primarily on regulatory needs and service stability.

Water Projects by Service Area	Fiscal Year Ending:					
	2027	2028	2029	2030	2031	Future
Future System Growth						
Lakes						
Goodview Waterline - SML to Sycamore Ridge						\$ 6,600,000
MVS to Valley Mills Ext (Lochwood, Capewood, Trading Post)						\$ 1,200,000
SML Phase 5 to Mountain View Shores						\$ 8,600,000
Neighborhood Line Extensions (NLE)						
Forest						
Blackburn Subdivision NLE						\$ 600,000
Operational Needs						
Central						
Bunker Hill Control Valve - Fencing						\$ 5,000
Central Bulk Fill Station (Central WWTP)					\$ 50,000	
Connect Bedford Lowe's to Town Distribution System					\$ 400,000	
Fire Line Meter - Bedford Weaving (2)					\$ 40,000	
Fire Line Meter - D-Day				\$ 20,000		
Fire Line Meter - Hospital				\$ 20,000		
Fire Line Meter - Lowes					\$ 20,000	
Fire Line Meter - Turning Point Road				\$ 20,000		
Stoney Creek Reservoir - Ph 1 Rehab Construction	\$ 700,000					
Stoney Creek Reservoir - Ph 2 Rehab Construction				\$ 500,000		
Central WTP						
Central WTP - Holding Pond Sewer						\$ 800,000
Central WTP - HVAC Mini-Splits for Lab and Office	\$ 35,000					
Central WTP - Hypo Relocation (Construction)			\$ 300,000			
Central WTP - Phase 2 Electrical Upgrades		\$ 550,000				
Central WTP - Phase 3 Electrical Upgrades				\$ 190,000		
Central WTP - SCADA Head Loss Monitors for finish filters				\$ 150,000		
Central WTP - Security Alarms and Fire Alarm System				\$ 29,000		
Central WTP - Underdrain air scour system						\$ 325,000
Central WTP - Upgrade chemical feeders to liquid chemical (others)						\$ 15,000

Water Projects

Water Projects by Service Area	Fiscal Year Ending:					
	2027	2028	2029	2030	2031	Future
Operational Needs						
Forest						
Control Valve - Cottontown Road at Forest Road				\$ 120,000		
Control Valve - Lynchburg Entry Point (Graves Mill Rd)			\$ 120,000			
Control Valve - Lynchburg Entry Point (Hawkins Mill)			\$ 120,000			
Montvale						
Fire Line Meter - Montvale Elementary			\$ 30,000			
Montvale WTP Fencing		\$ 20,000				
SCADA						
SCADA Hatch Intrusion Switches for Water Tanks					\$ 36,000	
Valley Mills						
Valley Mills Building addition for chemical addition					\$ 35,000	
Mountain View Shores						
MVS - Filter System Improvements			\$ 500,000			
SML WTF (shared portion)						
SML						
SML - Raw Water Intake Generator		\$ 200,000				
SML - Battery Back-up System for Raw Intake Pump Valve Actuators	\$ 12,500					
SMLWTF GAC Pump and associated parts			\$ 130,000			
System Loops for Stability						
Forest						
Waterline Loop - Cottontown Road: Riley Run to Autumn Run						\$ 1,200,000
Waterline Loop - Everett Road: Otterview to Walkers Crossing						\$ 1,000,000
Waterline Loop - Goode: Everett to Ashwood (Rt. 221)						\$ 4,000,000
Lakes						
Waterline Loop - Whitehouse Road						\$ 4,600,000
Stewartsville						
Stewartsville West Loop - Drewrys Hill Road						\$ 600,000

Water Projects

Water Projects by Service Area	Fiscal Year Ending:					
	2027	2028	2029	2030	2031	Future
System Structures & Tanks						
Forest						
Altha Grove/Cottontown Tank - Mixer					\$ 25,000	
Purchases						
Central WTP						
Central WTP - John Deere Gator Side-by-Side				\$ 40,000		
Regulatory						
Montvale						
Lead Service Line Inventory - Montvale	\$ 20,000					
Grand Total	\$ 767,500	\$ 770,000	\$ 1,200,000	\$1,089,000	\$ 606,000	\$29,545,000



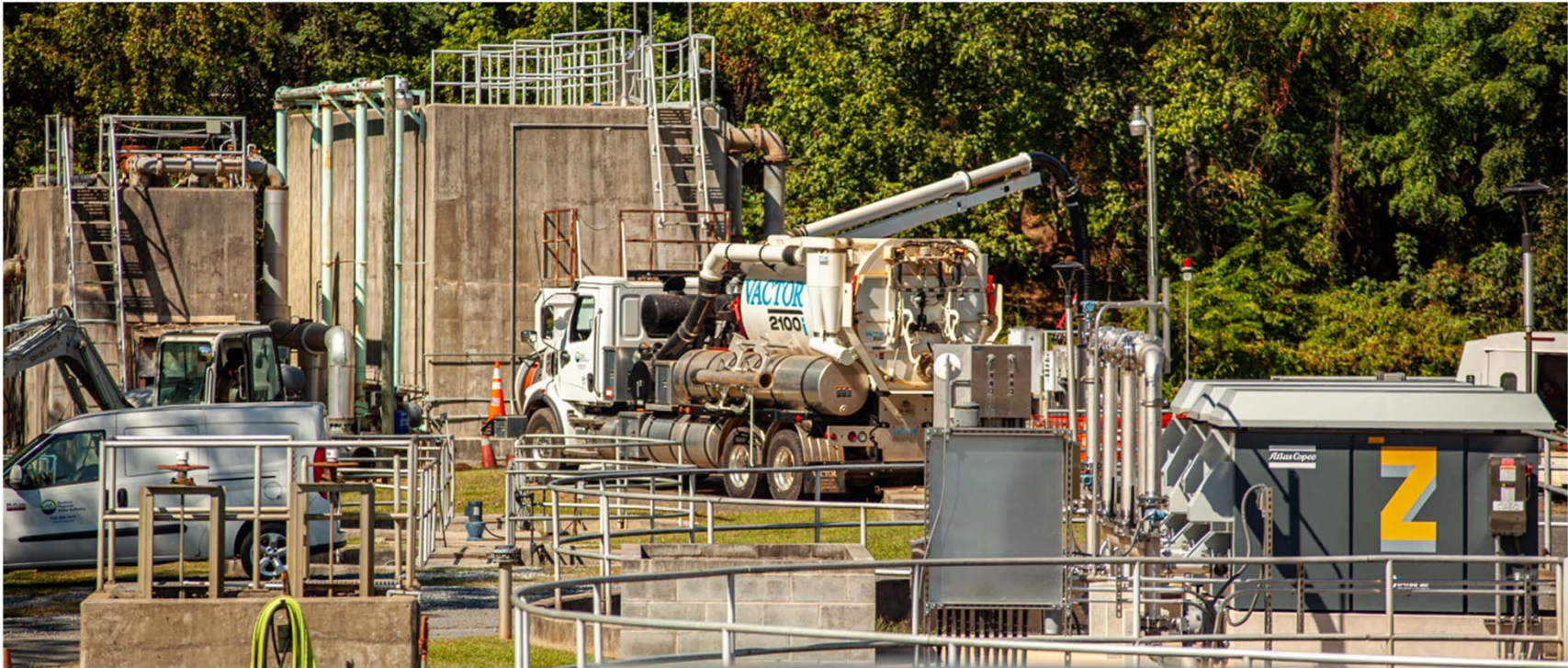
Sewer Projects

Various sewer projects have been identified in each service area to be addressed over the next several years, with some larger projects projected further into the future for growth or due to higher funding needs. With several sewer facility improvements currently needed, some replacement projects are included in the capital improvement plan while the replacement reserve account accrues sufficient funding. Sewer projects funded in FY 2026-2027 focus on reducing potential environmental impacts from wastewater facilities.

Sewer Projects by Service Area	Fiscal Year Ending:					
	2027	2028	2029	2030	2031	Future
Future Growth - Capacity Purchases						
Forest						
Ivy Creek 1-4 Capacity (1.5 MGD Avg / 3.75 Peak)						\$ 1,900,000
Lynchburg WWTP Capacity (2.4 MGD)						\$ 2,800,000
Future System Growth						
Moneta WWTP						
Moneta WWTP Expansion to 1.0 MGD						\$ 4,100,000
Stewartsville						
Stewartsville Sewer						\$ 20,000,000
Operational Needs						
Cedar Rock WWTP						
Cedar Rock WWTP - Add handrailings at influent valve				\$ 10,000		
Central						
Central Lift Station 12 - SCADA	\$ 15,000					
Central Lift Station 4 - Replacement & SCADA		\$ 1,000,000				
Central Lift Station 8 - SCADA	\$ 15,000					
Central Lift Station 8 - Replacement				\$ 500,000		
Central Lift Station 9 - SCADA		\$ 15,000				
Central WWTP						
Central WWTP - Digester Access Improvements (SAFETY)					\$ 100,000	
Central WWTP - Move sandfilter controls from basement to control room					\$ 35,000	
Central WWTP - Pad for Dumpster	\$ 20,000					
Central WWTP - Remove old boiler and equipment					\$ 50,000	
Central WWTP - Shop Reorganization			\$ 15,000			
Mariners Landing						
Mariners Landing - SCADA for 2 lift stations	\$ 20,000					
Mariners WWTP						
Mariners WWTP - Install skimmer on clarifier 1 and 2		\$ 10,000				

Sewer Projects

Sewer Projects by Service Area	Fiscal Year Ending:					
	2027	2028	2029	2030	2031	Future
Operational Needs						
Moneta WWTP						
Moneta WWTP - Composting sludge from Central Sewer & Moneta WWTP						\$ 100,000
Moneta WWTP - New Disk Filter Construction						\$ 650,000
Moneta WWTP - Separate VFDs for Biowheels			\$ 100,000			
Moneta WWTP - Bio-wheel repairs for Train B	\$ 170,000					
Moneta WWTP - Second disk filter unit	\$ 125,000					
Grand Total	\$ 365,000	\$ 1,025,000	\$ 115,000	\$ 510,000	\$ 185,000	\$29,550,000



Smith Mountain Lake Water Treatment Facility Projects

Projects and purchases directly related to the operation of the Smith Mountain Lake Water Treatment Facility reflect shared costs with Western Virginia Water Authority as the joint partner of the facility. Projects identified to assist with water system operation include the following:

- Increased storage at the receiving sewer lift station 4 to support a large volume of backwash discharge from the facility.
- Permanent standby generator for the raw water intake for improved reliability.
 - Bedford Water has applied for grant funding to assist with backup power needs at the intake and plant.
- Backup power for valve actuators at the raw water intake to limit faults experienced during frequent power outages.
- Replacement of the chlorine pumps and configurations used as part of the membrane system’s clean-in-place (CIP) process.
- Increased pumping capacity to send greater volumes through the granular activated carbon (GAC) vessels for improved organic removal; this project was previously funded, but found to be at a higher cost than estimated for funding.

Replacement items at the water treatment facility and raw water intake may be funded through a depreciation reserve account managed by the joint ownership of the plant.



Water Projects by Service Area	Fiscal Year Ending:			
	2027	2028	2029	2031
SML WTF (shared portion)				
Moneta LS #4 Upgrades - EQ Basin				\$ 30,000
SML - Raw Water Intake Generator		\$ 200,000		
SML RWI - Battery Back-up System for Raw Intake Pump Valve Actuators	\$ 12,500			
SMLWTF - Replace CIP Chlorine Pumps	\$ 12,500			
SMLWTF GAC Pump and associated parts			\$ 130,000	
Grand Total	\$ 25,000	\$ 200,000	\$ 130,000	\$ 30,000

Capital Purchases and Projects

Capital purchases are identified in the coming years that will assist with better operational efficiencies, employee safety, and allow for the additional equipment necessary to maintain an expanding service area. Some of these purchases include equipment to enable work efficiencies and provide cost savings of completing more tasks internally, as well as consultant assistance in data integration for more effective data forecasting. A comprehensive water and sewer master plan is proposed in FY 2026-2027 to identify facility and line sizes necessary to support existing and future growth, which will also assist with replacement planning and prioritization. Internal improvements and upgrades are also included to assist with efficiencies and security, including continued implementation of a newer key system to provide improved site security options and improve appropriate accessibility.

Administrative Purchases / Projects		Fiscal Year Ending:			
		2027			
Administration					
Data Visualization Phase 2		\$ 120,000			
Data Visualization Phase 3			\$ 85,000		
Data Visualization Phase 4				\$ 70,000	
Portable Water Station for Community Events					\$ 55,000
Engineering					
Water & Sewer Master Plan		\$ 250,000			
Maintenance					
CIP Crew - 18 - 20 Ton Excavator		\$ 211,000			
CIP Crew - Portable Air Compressor			\$ 33,000		
CIP Crew - Skid Steer Concrete Saw			\$ 30,000		
CIP Crew - Straw Blower		\$ 10,000			
CIP Crew - Track Dump Truck				\$ 202,000	
CIP Crew - Track Loader			\$ 281,000		
CIP Crew - Water Service Hog			\$ 9,000		
CIP Crew - Wheel Loader				\$ 116,000	
Equipment - 2DH-2 Concrete Mixer 2 Cubic Yards				\$ 39,000	
Equipment - 4-12 Inch Hot Tap Machine / Mueller				\$ 48,500	
Equipment - Asphalt Hot Box, Compactor and Roller			\$ 77,000		
FM - Truck Mounted Welder				\$ 12,500	
Landscape Crew - 60" Stand-on Mower		\$ 15,000			
Landscape Crew - 60" Zero Turn Mower		\$ 15,000			
Landscape Crew - RAM 1500 4x4 1/2 Ton Quad Cab		\$ 110,000			
Landscape Crew - Utility Trailer - 80 x12 tandem landscaping trailer		\$ 10,800			

Capital Purchases and Projects

Administrative Purchases / Projects	Fiscal Year Ending:					
	2027	2028	2029	2030	2031	Future
Maintenance						
Line Crew - Department Asbestos Cutting Tools			\$ 10,000			
Line Crew #4 - 16' 8 Ton Trailer	\$ 11,000					
Line Crew #4 - 6500 Chevy Dump Truck			\$ 110,000			
Line Crew #4 - John Deere 35P	\$ 70,000					
PM - 1 Ton Vehicle for Potholing Crew	\$ 80,000					
Skid Steer - Forestry Kit 333G				\$ 13,000		
Yard - Ductile Pipe Inventory Storage Rack					\$ 18,500	
Yard - Paving of 1/4 Rear Parking Area			\$ 12,500			
Yard - Stone and Cold Patch Pads			\$ 7,200			
Office Improvements						
Administration Offices in Conference Room					\$ 126,000	
Annex Building Renovations					\$ 125,000	
Heated Garage - additional bay					\$ 200,000	
New Building - Building & Sewer Design	\$ 400,000					
New Building - Construction				\$ 5,000,000		
New Building - Sewer Extension to Office Buildings				\$ 1,600,000		
Yard - Pole Barn				\$ 130,000		
Operational Needs						
SCADA Communications Architecture Enhancements					\$ 20,000	
Water - Sample hydrants - Phase 2B (7)			\$ 19,000			
Purchases						
Data Management System for Wastewater	\$ 50,000					
System Structures & Tanks						
High Point WTP - Remove Tanks					\$ 60,000	
Grand Total	\$ 832,000	\$ 520,800	\$ 673,700	\$ 6,929,000	\$ 851,500	\$ 55,000

Capital Reserve Accounts

The Authority has established several capital reserve accounts to address anticipated needs for large expenditures. These accounts allow funds to accumulate and carry over across fiscal years, and enable routine planning for continued improvements, replacements, or rehabilitation of equipment and infrastructure. Funding to each of these accounts is reviewed annually, taking into consideration existing balances within the accounts and the upcoming needs. Minimum balance requirements for each account are established in a Reserve Accounts policy to ensure enough funding remains available for emergencies or other needs that may arise with short notice. These accounts are funded monthly, allowing the Authority to make contribution adjustments should issues arise that require operational budget alterations.

a.	b.	c.	d.	e.	f.	g.	h.	i.
	Prior Funding FY 2025- 2026	Current Funding FY 2026-2027	Estimated Expenses FY 2026-2027	Estimated Annual Funding Needed	Account Balance 6/30/2026	Minimum Balance (Policy 10.33)	Available Working Balance 6/30/27 (f.-g.)	Available Working Balance 6/30/2027 (c.-d.+h.)
Capital Projects and Reserve Setasides								
Vehicle and Equipment Replacements	\$ 480,000	\$ 480,000	\$ 527,206	\$ 488,988	\$ 690,534	\$100,000	\$ 590,534	\$ 543,328
Computer and SCADA Equipment Replacements	\$ 30,000	\$ 30,000	\$ 80,000	\$ 80,000	\$ 231,672	\$100,000	\$ 131,672	\$ 81,672
Meter Replacement (should be 10 year plan, per meter replacement policy)*	\$ 300,000	\$ 300,000	\$ 393,300*	\$ 418,838	\$ 129,016	\$ 50,000	\$ 79,016	\$ (14,284)*
Waterline Replacement (needed for older leaking systems)	\$ 396,000	\$ 450,000	\$ 400,000	\$ 4,800,000	\$ 960,956	\$200,000	\$ 760,956	\$ 810,956
Water Facility Set asides Plants and Pump Stations**	\$ 150,000	\$ 210,000	\$ 362,500	\$ 574,250	\$ 320,004	\$100,000	\$ 220,004	\$ 67,504
Sewerline Replacement (required by consent order, needed in Center District)	\$ 336,000	\$ 450,000	\$ 1,150,000	\$ 3,100,000	\$ 1,511,832	\$200,000	\$ 1,311,832	\$ 611,832
Sewer Facility Set asides Plants and Pump Stations**	\$ 150,000	\$ 210,000	\$ 372,000	\$ 628,500	\$ 320,004	\$100,000	\$ 220,004	\$ 58,004
Tank Rehabilitation	\$ 80,000	\$ 80,000	TBD	TBD	\$ 647,008	\$300,000	\$ 347,008	TBD
Total Replacement Reserved Capital	\$ 2,132,000	\$ 2,420,000	\$ 3,285,006	\$ 10,090,576	\$ 4,811,026			

* Estimated Expenses based upon replacement of 1500 meters; actual number to be adjusted to maintain minimum balance required.

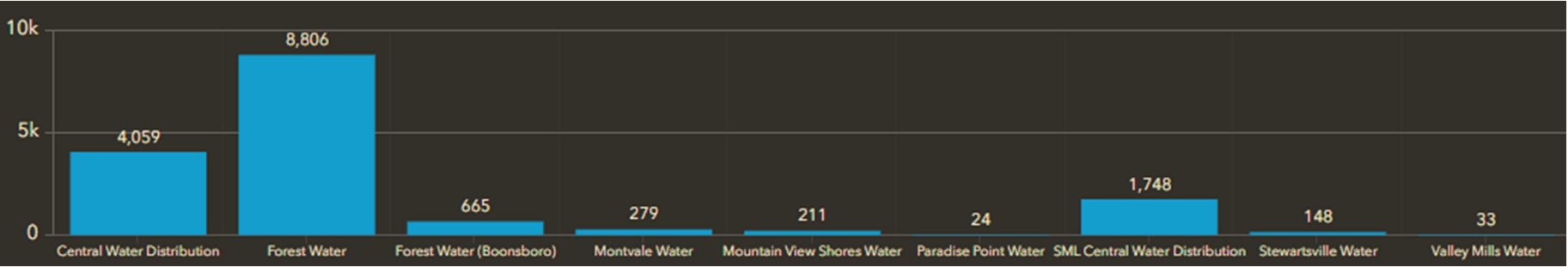
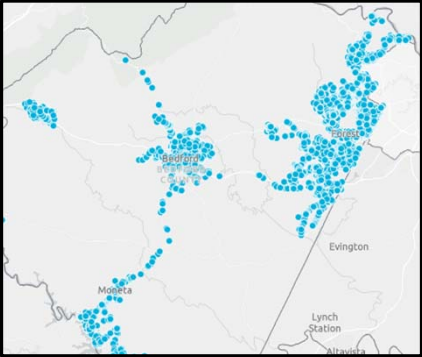
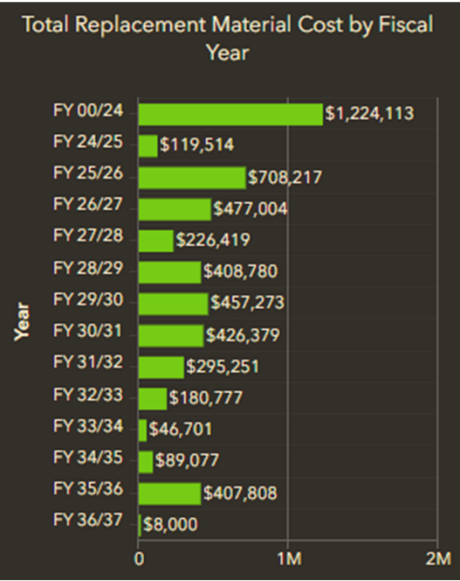
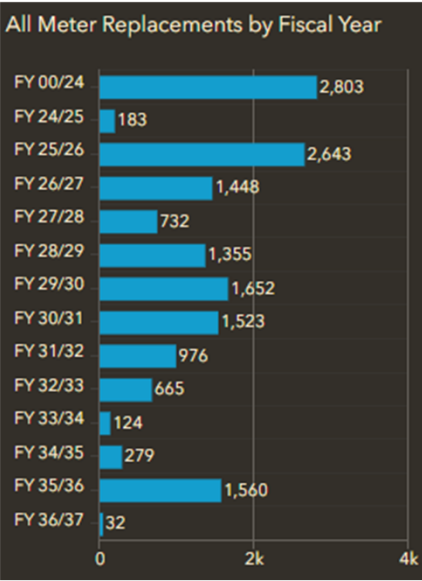
** Estimated from facility needs currently identified

Capital Reserve Accounts – Meter Replacements

Meter Replacements:

The Meter Replacement setaside account is used to allow for routine meter replacements throughout the service area. As a meter ages, accuracy slowly declines and the meter registers less flow. Routine replacement prior to significant accuracy decline assists with more accurate billing and water accountability, ensuring less revenue loss. In addition to meter replacements, this account also supports gateway antennas that are utilized for automated meter reading (AMR). For AMR meters within an antenna’s signal, readings are captured remotely through software without the requirement for a Customer Service Representative to visit the area. Gateway antennas were initially targeted at areas most remote to the system, or that would pick up the most customers. As the customer base expands, expansion of this remote capability eliminates the need for additional staff that would otherwise be necessary to read all meters.

Meter data has been compiled and analyzed to forecast future replacement needs, supporting long-term planning and budgeting efforts. Based upon the number of existing meters and the average material cost for replacement of each meter, approximately \$419,000 is needed per year to maintain a replacement schedule of every ten (10) years.



Capital Reserve Accounts – Technology

Information Technology (IT) and Operational Technology (OT) Replacements:

Electronic systems are essential to the daily operations of the organization, supporting communication, security, system monitoring and facility control. These systems include end-user computers (PCs), servers, desk and mobile phones, printers, network infrastructure, access control systems, security cameras, and Supervisory Control and Data Acquisition (SCADA) equipment. The IT/OT reserve account provides for routine maintenance, repair, and replacement of these items to ensure reliable operation, secure access, and continuous monitoring. Technology-related expenditures are primarily condition-based, with replacements or repairs occurring as systems age, fail, or no longer meet operational requirements. This approach allows continuity of operations while addressing deficiencies in existing infrastructure in a timely and cost-effective manner.

Anticipated activities in FY2026-2027 include the replacement and upgrade of access control systems, including installation of controlled entry at select facilities where older or inadequate systems currently exist. Estimated costs for planned door access control replacements are approximately \$42,000. Additional improvements, such as gate access control and associated infrastructure, will be undertaken where warranted and financially feasible. At remote or unstaffed facilities, physical locks and key systems will continue to be repaired or replaced where electronic systems are not practical.

The reserve also supports SCADA-related replacements and repairs. As components within control panels and field equipment degrade over time, replacements are performed to maintain system functionality and reliability, as demonstrated by recent upgrades at the Moneta Wastewater Treatment Plant.

Funding is also allocated for the replacement of server hardware and end-user equipment, which are upgraded periodically as existing units reach the end of their service life or fail. Approximately \$20,000 in server replacements are anticipated, with cost efficiencies achieved through in-house configuration. End-user computer replacements occur routinely, with recent expenditures totaling \$11,705 for 13 units in FY2025-2026.

In addition to planned replacements, this reserve account provides for unexpected failures and emergency response, including restoration of systems, network connectivity, and critical infrastructure following catastrophic events such as fire or severe weather.

Previous funding to this account exceeded expenditures and was temporarily reduced to limit the fund’s accumulation beyond what is needed. With expanded needs to address outdated control and entry systems, contributions to the fund will need to be increased again in future years.

Fiscal Year	Amount	Replacement items
2019-2020	\$ 61,462.62	PCs, servers, and equipment for remote work
2020-2021	\$ 30,176.84	PCs, tablets, and wireless network equipment
2021-2022	\$ 21,850.66	PCs, docking stations, and network switches
2022-2023	\$ 16,913.01	PCs, printer, server, hard drives, and network switch
2023-2024	\$ 98,693.46	PCs, server, network switch, printer, Cottontown Tank control equipment, and related support equipment
2024-2025	\$ 19,087.71	PCs, SMLWTF control hardware, and related support equipment
2025-2026	\$ 24,478.79	PCs, electronic keys, camera, Moneta WWTP control equipment
2026-2027	\$ 80,000.00	PCs, servers, support equipment as needed, and key access systems for High Point, Moneta WWTP, SMLWTF & intake

Annual Average: \$ 44,082.89



Capital Reserve Accounts – Tanks

Tank Rehabilitation:

Water storage tanks require occasional rehabilitation to maintain safe, reliable, and high-quality water storage that remains safely accessible for cleaning and maintenance. Rehabilitation projects may involve recoating the tanks, bringing safety equipment to current standards, updating visual and remote monitoring equipment, or other projects that support the continued service of the tanks. As these projects are intermittent but can involve significant costs, the Tank Rehabilitation setaside account has been accumulating funds in recent years to enable multiple projects to be completed in a cost-efficient manner as inspections identify priority needs.

In the 2026-2027 fiscal year, inspections and cleaning will be scheduled for selected water tanks across the system to assess conditions and prioritize rehabilitation or upgrade needs. Tanks will then be placed on routine inspection and maintenance cycles. Implementation of identified improvement projects will be phased into future fiscal years as procurement documents are developed and as operational capacity allows for effective coordination of inspection follow-up and project oversight.

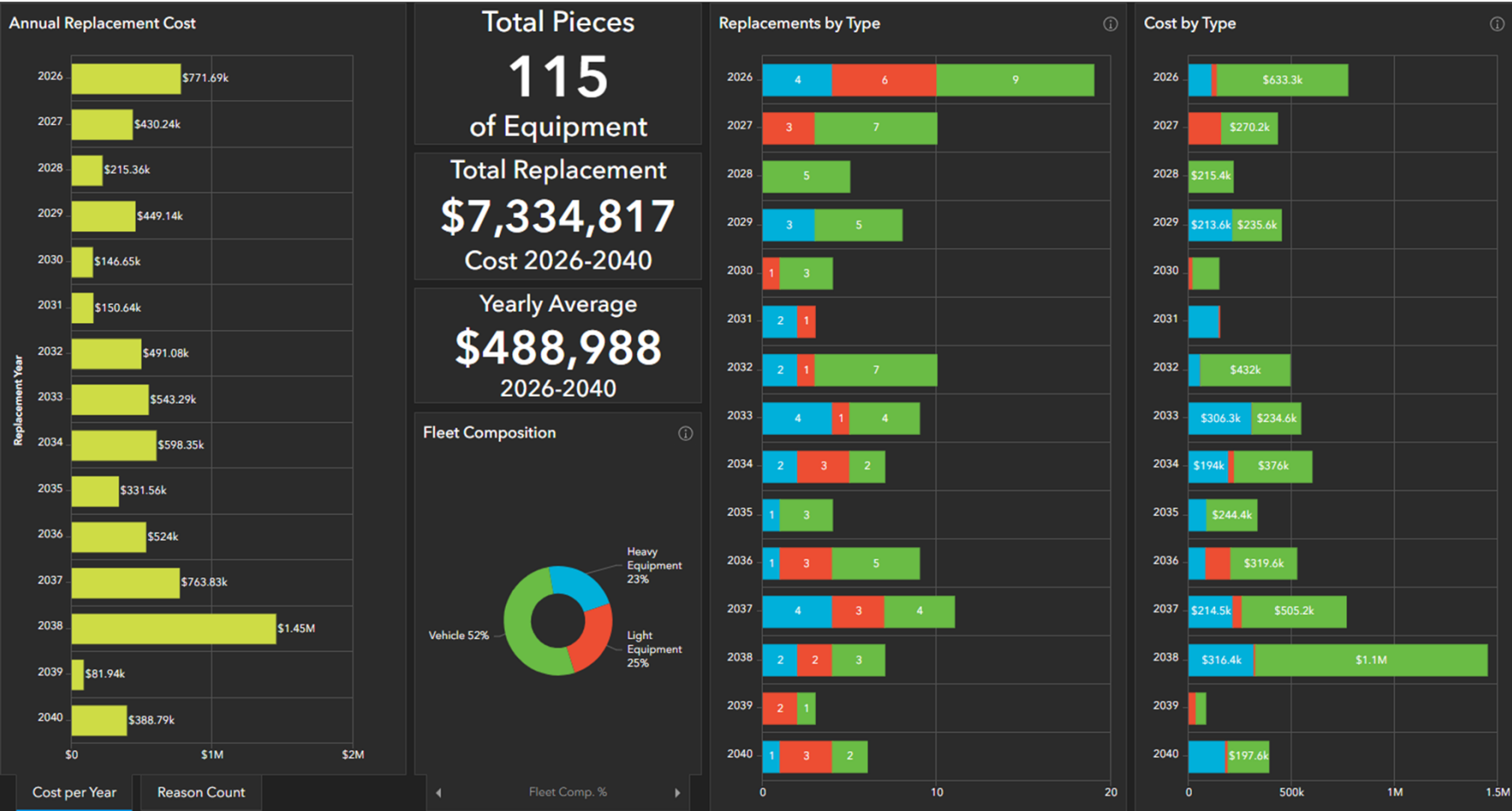


Capital Reserve Accounts – Vehicles and Equipment

Vehicle and Equipment Replacements:

Vehicles and heavy equipment represent some of the highest operating costs for the Authority. The Vehicle and Equipment reserve setaside account assures the dependability of equipment and vehicles that daily operations and emergency response rely upon. This fund also provides for the routine replacement of smaller equipment necessary for daily tasks. As items are replaced utilizing this fund, the items replaced are sold as feasible and proceeds from sales are added to the fund.

All equipment is logged into an asset management program to track usage, age, and repair costs to prioritize replacements. Replacements of vehicles and heavy equipment are triggered when age exceeds 15 years, maintenance costs exceed half of the value, or usage exceeds 150,000 miles (gas vehicles), 200,000 miles (diesel vehicles) or 4000 hours. With the recent rebranding of Bedford Water, the new logo is applied to new vehicles as they are purchased or when existing logos need replacement due to wear.



Capital Reserve Accounts – Water and Sewer Facilities

In FY 2023-2024, replacement reserve accounts were initiated for water and sewer facility replacements. These will provide routine funding in the future for items necessary to keep treatment plants, booster stations, and lift stations properly and efficiently functioning. With funding accruing in these accounts since FY 2023-2024, sufficient funds are now available to begin performing some of the projects below while still maintaining the minimum account balance. While many known replacement needs are noted, additional research is underway to establish a full list of current and ongoing replacement needs to ensure a proactive approach to facility maintenance in the future.

Current and Proposed Annual Funding: \$ 210,000 \$ 264,000 \$ 288,000 \$ 312,000								
Fiscal Year Ending								
WATER REPLACEMENT PROJECTS	2027	2028	2029	2030	2031	2032	2033	Future
Central								
Central WTP								
Central WTP - Overhaul of WTP Elevator								\$ 350,000
Central WTP - Replace filter media / rebuild filters		\$ 30,000						
Central WTP - Filter Control SCADA Interface					\$ 75,000			
Central WTP - Inside filter system valves replacement Phase 2			\$ 192,000					
Central WTP - Inside filter system valves replacement Phase 3				\$ 204,000				
Central WTP - Upgrade drainage system from holding ponds to VPDES outfall						\$ 350,000		
Central WTP - Basin Valves replacement Phase 2		\$ 200,000						
Central WTP - Holding Pond Dredging	\$ 350,000							
Forest								
Boonsboro								
Fox Runn Booster Station Upgrade							\$ 450,000	
Lakes								
Lakes								
High Point WTP - Roof Replacement				\$ 52,000				
SML (Shared with WVWA)								
SML								
SMLWTF - Replace CIP Chlorine Pumps	\$ 12,500							
Moneta LS #4 Upgrades - EQ Basin					\$ 30,000			
Paradise Point								
Paradise Point								
Paradise Point Pressure Tank Replacement			\$ 100,000					
Grand Total	\$ 362,500	\$ 230,000	\$ 292,000	\$ 256,000	\$ 105,000	\$ 350,000	\$ 450,000	\$ 350,000

Capital Reserve Accounts – Water & Sewer Facilities

Current and Proposed Annual Funding:		\$ 210,000	\$ 264,000	\$ 288,000	\$ 312,000				
		Fiscal Year							
SEWER REPLACEMENT PROJECTS		2027	2028	2029	2030	2031	2032	2034	2036
Central									
Central Lift Station 10 - Replacement Pump #1		\$ 50,000							
Central Lift Station 10 - Replacement Pump #2									\$ 50,000
Central Lift Station 3 - Replacement Pump #1				\$ 60,000					
Central Lift Station 3 - Replacement Pump #2				\$ 60,000					
Central Lift Station 3 - Replacement Pump #3				\$ 60,000					
Central Lift Station 6 - New generator & removal of the underground fuel storage tank				\$ 100,000					
Central WWTP									
Central WWTP - New RAS Pump #2						\$ 55,000			
Central WWTP - New RAS Pump #3							\$ 55,000		
Central WWTP - Sand and repaint effluent clarifiers					\$ 50,000				
Central WWTP - Sand and repaint thickener units					\$ 20,000				
Central WWTP - Replace transfer switch in belt press building			\$ 27,000						
Central WWTP - Lab & Sludge Building Renovations Ph 1					\$ 17,000				
Central WWTP - Lab & Sludge Building Renovations Ph 2						\$ 50,000			
Central WWTP - Primary Clarifier #1-Repair		\$ 70,000							
Central WWTP - Thickener #2 Upgrade		\$ 30,000							
Central WWTP - EQ Basin Valve Improvements & Cleaning		\$ 150,000							
Central WWTP - Replace the air actuator valves with electric valves on sandfilters (1)			\$ 60,000						
Central WWTP - Replace the air actuator valves with electric valves on sandfilters (2)				\$ 60,000					
Moneta WWTP									
Moneta WWTP - Replace magnetic ballasts & wiring harness			\$ 10,000						
Moneta WWTP - Roof replacement			\$ 30,000						
Moneta WWTP - Clarifier B Repair		\$ 35,000							
Moneta WWTP - Chains for Biowheels								\$ 40,000	
Moneta WWTP - Trunnions & stub axles						\$ 200,000			
Moneta WWTP - UV System replacement		\$ 12,000							
Moneta WWTP - MLSS Pump Replacement		\$ 25,000	\$ 25,000						
Mariners WWTP									
Mariners WWTP - Recoat train 1 & 2 influent basins					\$ 20,000				
Cedar Rock WWTP									
Cedar Rock WWTP - Recoat influent basin					\$ 10,000				
Montvale WWTP									
Montvale WWTP - Recoat influent basin at wastewater plant					\$ 10,000				
Grand Total		\$ 372,000	\$ 152,000	\$ 340,000	\$ 127,000	\$ 305,000	\$ 55,000	\$ 40,000	\$ 50,000

Capital Reserve Accounts – Water and Sewer Lines

As the Authority's water and sewer systems age, it is necessary to prepare for replacements of older lines to maintain continued service to customers. Water line and sewer line replacement or rehabilitation projects are currently covered through Capital Reserve set-aside accounts created for these purposes rather than through the Capital Improvement Plan. Funding to these accounts is regularly increased where feasible through the annual budget process. These accounts assist with unexpected emergency replacement projects that may arise, as well as allow for planned replacements through the Authority's Maintenance crews or contractors.

ANTICIPATED PROJECTS BY FISCAL YEAR

2026-2027

Western Hills Subdivision Sewer Replacement (Partial Grant Funding)
Walnut Street Water Line Replacement (underway)
Sunset Drive Water Line Replacement
Avenel Avenue Alley Sewer Line Replacement
Monroe Street Sewer Replacement

2027-2028

Belmont Drive Water Line Replacement
Route 43 Sewer Replacement Phase 2

2028-2029

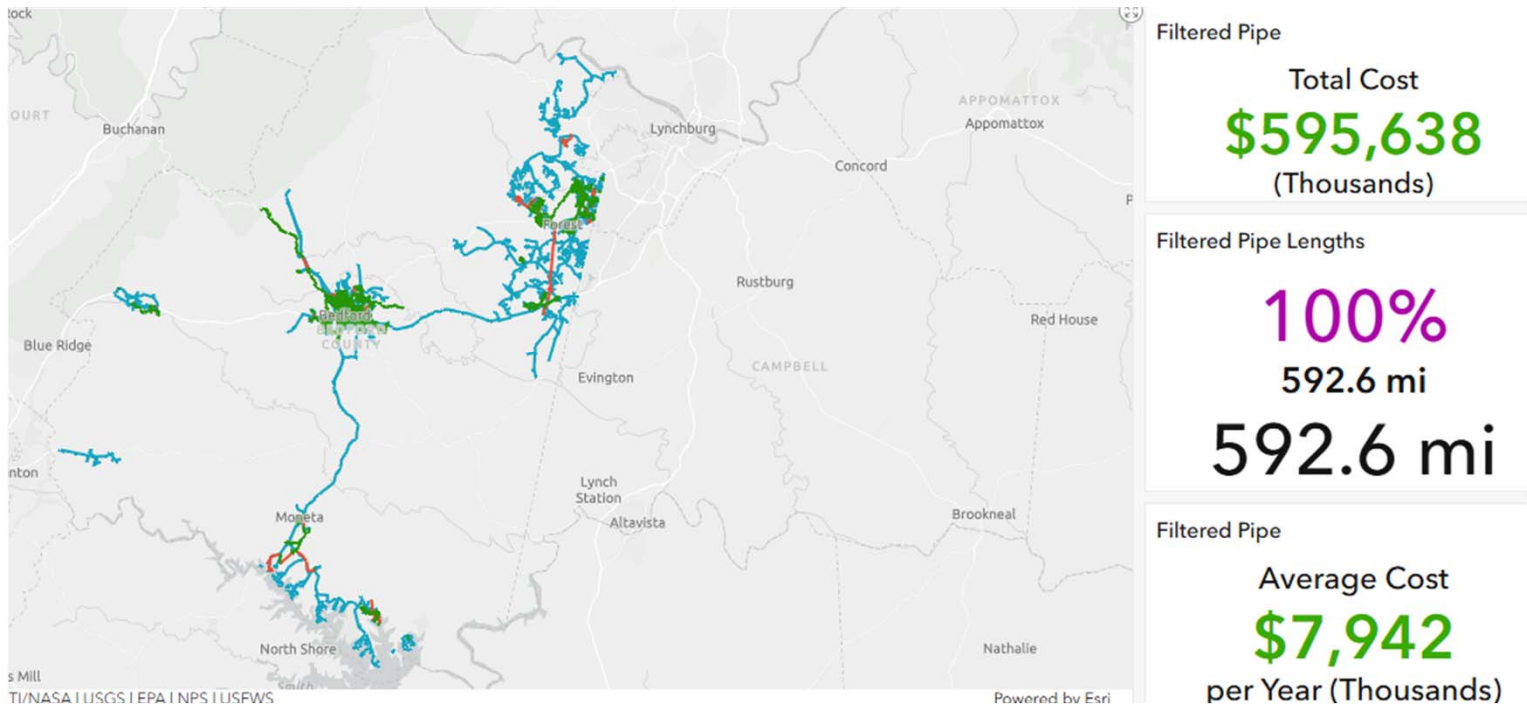
Route 43 Sewer Replacement Phase 3
Sigh N Pines Water Line Replacement

The majority of current line replacement projects are located within the Central service area. The Central water and wastewater systems have many older lines that have exceeded their normal life span and are a source of many repairs. Much of the current water focus is on replacement of small-diameter galvanized waterlines with larger and more durable lines to provide dependable, quality service to these areas and support fire suppression. Sewer line replacements remain primarily focused on older lines that require regular root treatment to prevent overflows, as well as beginning to address many undersized 6-inch gravity sewer lines within the Town service area.



Capital Reserve Accounts – Water and Sewer Lines

Using data from the asset management and GIS systems, the estimated need for pipe replacements can be identified by both cost and pipe length. Current value of sewer mains is approximately \$232 million, with current value of water mains estimated at \$363 million. Based upon using a 75-year lifespan for pipes, acknowledging some will be less and some have already lasted longer, the resulting need for replacement funding each year is \$3.1 million for sewer lines, and \$4.8 million for water lines.

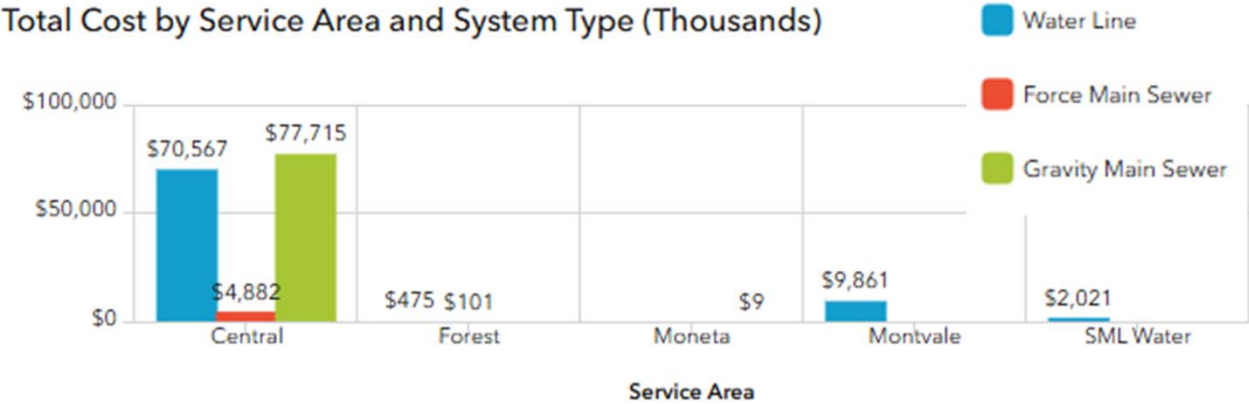
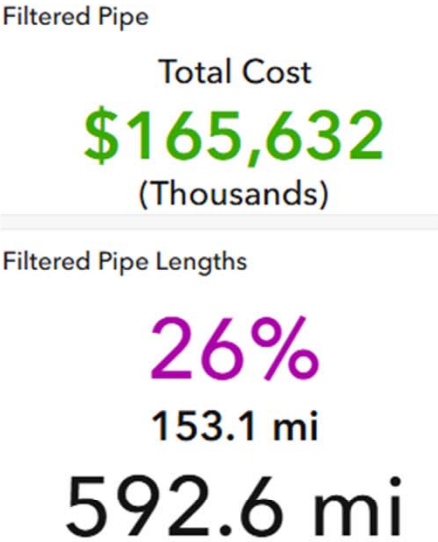
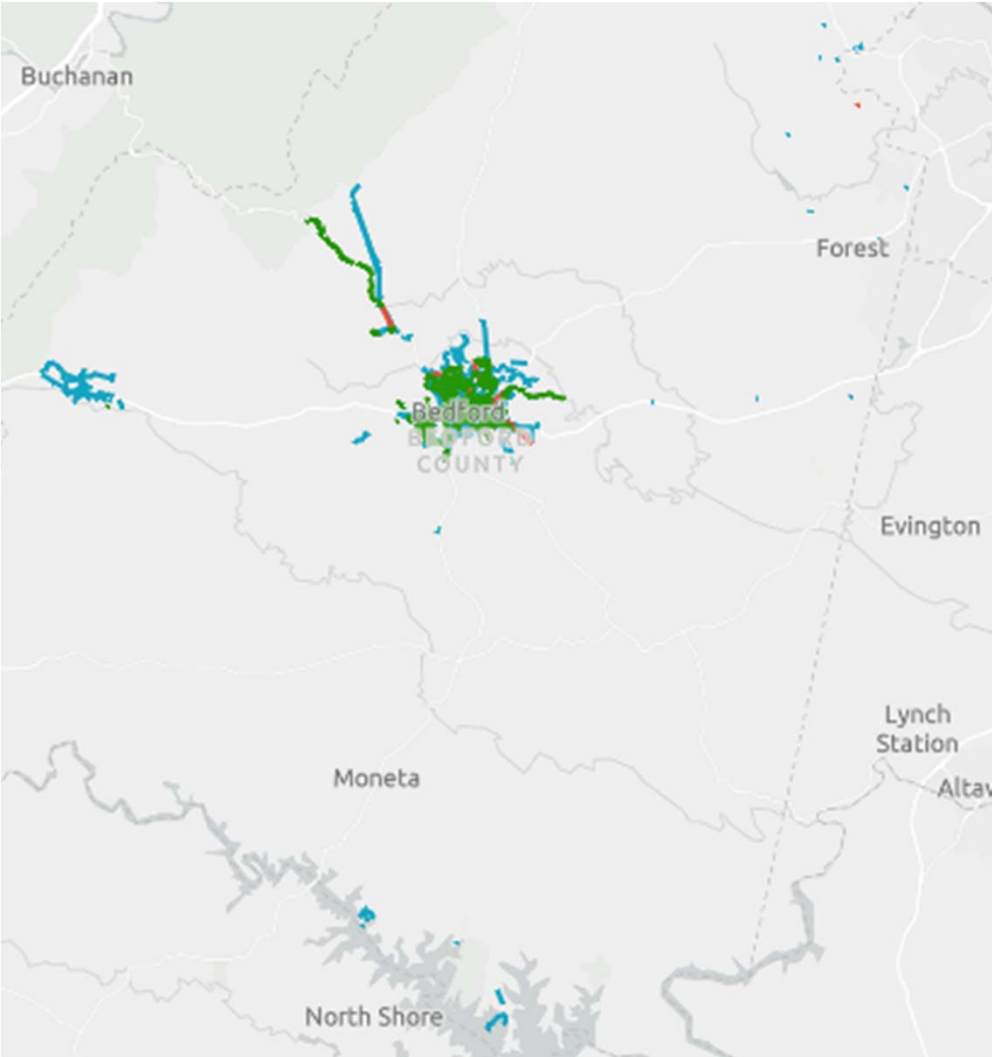


Total Cost by Service Area and System Type (Thousands)



Capital Reserve Accounts – Water and Sewer Lines

Of over 590 miles of water and sewer mains, 153 miles of these pipes are near or have already exceeded their lifespan. The majority of these lines are located within the Central service area of the Town of Bedford. Others are in areas of former well systems. With the Montvale Water system newly accepted into Bedford Water’s service area, additional investigations are needed to verify information on pipe age and condition.



Capital Reserve Accounts – Water and Sewer Lines

Most of the work shown below has been or will be completed by the in-house capital crew, with limited projects utilizing outside contractors as part of the overall Capital Improvement Program. This chart presents the total linear feet of pipe replaced by the year each project was fully completed, with all replacement footage credited to the completion year, reflecting final project delivery rather than incremental construction activity. It also includes projected projects over the coming years.

Linear Feet of Pipe Replaced by Year Completed	Calendar Year								
	2023	2024	2025	2026	2027	2028	2029	2030	
Sewer									
6 C's Shopping Center									
Galax / Gum Street Sewer Replacement			953						
Avenel Avenue (Alley)					700				
Shady Knoll Sewer Replacement				2,700					
Town & Country Sewer Replacement		9,050							
Western Hills Sewer Replacement - Ph 1					3,600				
Bedford Weaving/Monroe St Sewer Line Replacement					800				
Dawn Drive Ph B.1								1,500	
Route 43 Sewer Replacement Ph 2						2,579			
Route 43 Sewer Replacement Ph 3						1,978			
Route 43 Sewer Replacement Ph 4							2,681		
Route 43 Sewer Replacement Ph 5							2,221		
Western Hills Sewer Replacement - Ph 2								2,300	
Western Hills Sewer Replacement (*Design)		*							
Water									
Galax and Gum Street Waterline Replacement	2,489								
Paradise Point Well System Waterline Replacement	2,340								
Peakview Waterline Replacement (Shearer, Watson)		3,209							
Turkey Mountain Waterline Replacement			1,775						
Baltimore Avenue Waterline Replacement				1,300					
Sunset Drive Waterline Replacement (In design phase)				600					
Town & Country Waterline Replacement (*Design)	*								
Walnut Waterline Replacement				1,300					
Belmont Waterline Replacement (In design phase)				1,700					
Sigh-N-Pines Water Replacement (In design phase)					650				
Western Hills Water Replacement (*Design)		*							
Grand Total	4,829	12,259	2,728	7,600	5,750	4,557	4,902	3,800	

Capital Reserve Accounts – Water and Sewer Lines

	Calendar Year				Grand Total
Project Costs Covered Through Reserves	2021	2024	2025	2026	
Sewer					
Avenel Avenue (Alley)					
Avenel Avenue Sewer Replacement	\$ 78,447				\$ 78,447
Galax / Gum Street Sewer Replacement			\$ 146,963		\$ 146,963
Shady Knoll Sewer Replacement				\$ 268,902	\$ 268,902
Town & Country Sewer Replacement		\$ 295,093			\$ 295,093
Western Hills Sewer Replacement (Design)		\$ 58,860			\$ 58,860
Grand Total	\$ 78,447	\$353,953	\$146,963	\$268,902	\$ 848,265



Project Costs Covered Through Reserves	Calendar Year						
	2019	2021	2022	2023	2024	2025	2026
Water							
Avenel Water Replacement		\$ 81,612					
Baltimore Avenue Waterline Replacement							\$ 96,592
Cedar Crest Drive Waterline Replacement	\$ 28,286						
Dawn Drive Waterline Replacement	\$ 106,146						
Galax and Gum Street Waterline Replacement				\$ 153,190			
Laurel Street Waterline Replacement			\$ 104,821				
Moneta Road (Route 122) Waterline Relocation		\$ 462,141					
Paradise Point Well System Waterline Replacement				\$ 109,893			
Peakview Waterline Replacement (Shearer, Watson)					\$ 213,605		
Poplar Street Waterline Replacement		\$ 38,360					
Sunset Drive Waterline Replacement (In design phase)							
Town & Country Waterline Replacement (design only)				\$ 41,900			
Turkey Mountain Waterline Replacement						\$ 153,471	\$ 23,363
Walnut Waterline Replacement							\$ 77,590
Western Hills Water Replacement (Design)					\$ 43,320		
Windsor Drive Waterline Replacement		\$ 54,713					
Grand Total	\$ 134,432	\$ 636,826	\$ 104,821	\$ 304,983	\$ 256,925	\$ 153,471	\$197,545

Capital Reserve Accounts – Water and Sewer Lines

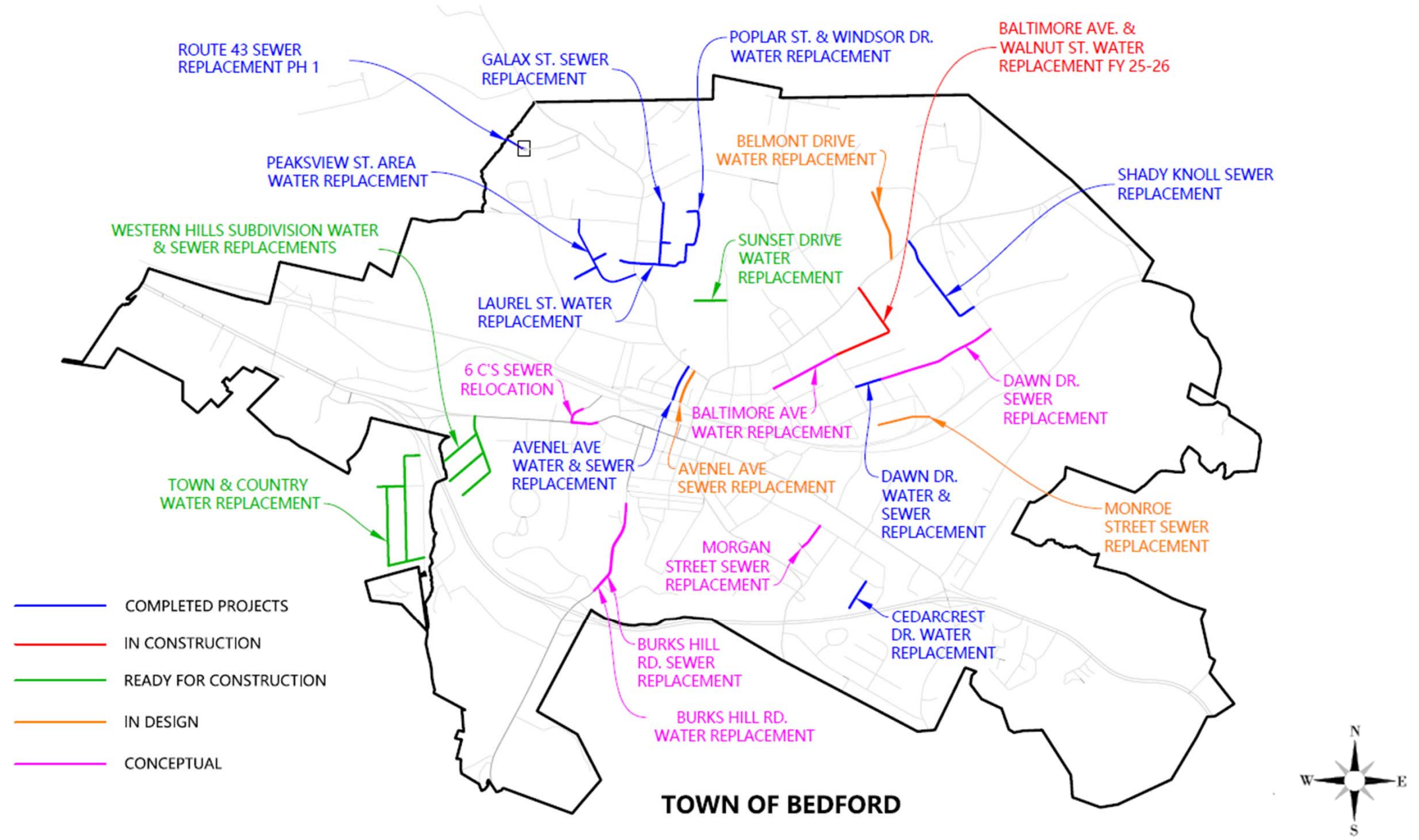
A Consent Order was issued to the City of Bedford in 2010 to address overflows at the Central wastewater plant’s equalization basin, grit chamber, and Pump Stations 1, 2, and 3. Below is the summary of work reported to DEQ under the 2025 Consent Order Progress Report. This Consent Order was removed in March 2026 and replaced with a new Consent Order.

Vendor	Work	FY 2013-14	FY 2014-15	FY2015-16	FY2016-17	FY2017-18	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25
<u>Design Services</u>													
Anderson & Associates	Design - Rt 43 Sewer Replacement	\$11,046.00	\$19,994.00	\$500.00									
Hurt & Proffitt	Longwood / Burger King sewer design				\$1,970.00								
Hurt & Proffitt	Western Hill Sewer Replacement Design										\$7,500.00		
Whitman, Requardt & Assoc.	Sewer Modeling Analysis for PS #1									\$9,414.30			
<u>Construction Projects</u>													
Ghent Construction	Construction - Rt 43 Sewer Replacement			\$219,375.90	\$12,546.10								
Sunapsys	SCADA for Pump Station 1		\$11,763.00	\$11,127.00									
Various	Bedford Avenue Sewer Replacement				\$181,117.00								
Various	Link Road Sewer Replacement				\$104,119.00								
George E. Jones & Sons	Field Trace Lane Sewer - Repair				\$40,000.00	\$78,800.00							
Various	Longwood/Burger King sewer					\$50,038.00							
George E. Jones & Sons	Campbell Home manhole replacement				\$8,480.00								
George E. Jones & Sons	Macon Street Sewer Replacement (105')					\$10,898.00							
George E. Jones & Sons	Windy Ridge Sewer Lining (400')					\$33,712.00							
George E. Jones & Sons	Walmart Sewer Lining (385')					\$31,728.00							
George E. Jones & Sons	Oakcrest Sewer Replacement (130')					\$18,910.00							
George E. Jones & Sons	Longwood Ave Sewer Replacement					\$46,200.00							
Various	Boxwood / Lowry St Sewer Replacement						\$159,972.00						
Various	Dawn Dr Sewer (Park to Broad)							\$99,280.00					
<u>Pump Station 5 Replacement</u>													
Blue Ridge Engineering	Design and permitting								\$2,625.00				
Various	Materials and Construction								\$41,403.76	\$152,535.48			
<u>BRWA Maintenance</u>													
	Smoke testing materials	\$1,228.00											
	Sewer replacement - materials & contracted services	\$1,311.02	\$14,151.83	\$36,810.90	\$3,801.87	\$1,024.53	\$13,657.18	\$9,252.17	\$3,007.50	\$13,614.97	\$27,342.52		
	Manhole rehabilitation - contracted services						\$35,450.75	\$69,262.25	\$35,197.50				
	Tires for sewer camera		\$2,800.00										
	Avenel Ave. Sewer Replacement (materials & paving)								\$60,858.40	\$19,583.85			
	Galax Street Sewer (materials, rentals, & paving)										\$23,245.00	\$37,717.00	\$84,801.07
<u>Town & Country Subdivision</u>													
Hurt & Proffitt	CCTV, Survey, design & as-builts								\$41,470.00	\$30,200.00	\$14,213.75	\$14,525.00	
Aaron J. Conner GC	Construction										\$1,536,383.47	\$811,074.95	
<u>Pump Station 7 Replacement</u>													
Blue Ridge Engineering	Design and permitting									\$3,950.00	\$1,700.00	\$1,800.00	
Various	Materials and Installation										\$56,599.00	\$186,120.00	
<u>Western Hills Sewer</u>													
Hurt & Proffitt	Survey and design										\$7,500.00	\$46,500.00	
<u>Shady Knoll Sewer</u>													
Hurt & Proffitt	Survey and design											\$7,320.00	\$13,020.00
Various	Materials and equipment rental												\$161,683.32
<u>Central PS 1 & 2 Upgrades</u>													
Blue Ridge Engineering	Design & Procurement											\$3,250.00	\$9,500.00
WGK	Construction												\$203,667.00
Various	Materials and bypass pump												\$402,035.52
Fairwinds	SCADA												\$17,500.00
Total Spent:		\$13,585.02	\$48,708.83	\$267,813.80	\$352,033.97	\$271,310.53	\$209,079.93	\$177,794.42	\$184,562.16	\$229,298.60	\$1,666,983.74	\$1,108,306.95	\$892,206.91



Capital Reserve Accounts – Water and Sewer Lines

Town of Bedford Water and Sewer Line Replacement Plan



Capital Reserve Accounts – Water and Sewer Lines

Bedford County Water and Sewer Line Replacement Plan



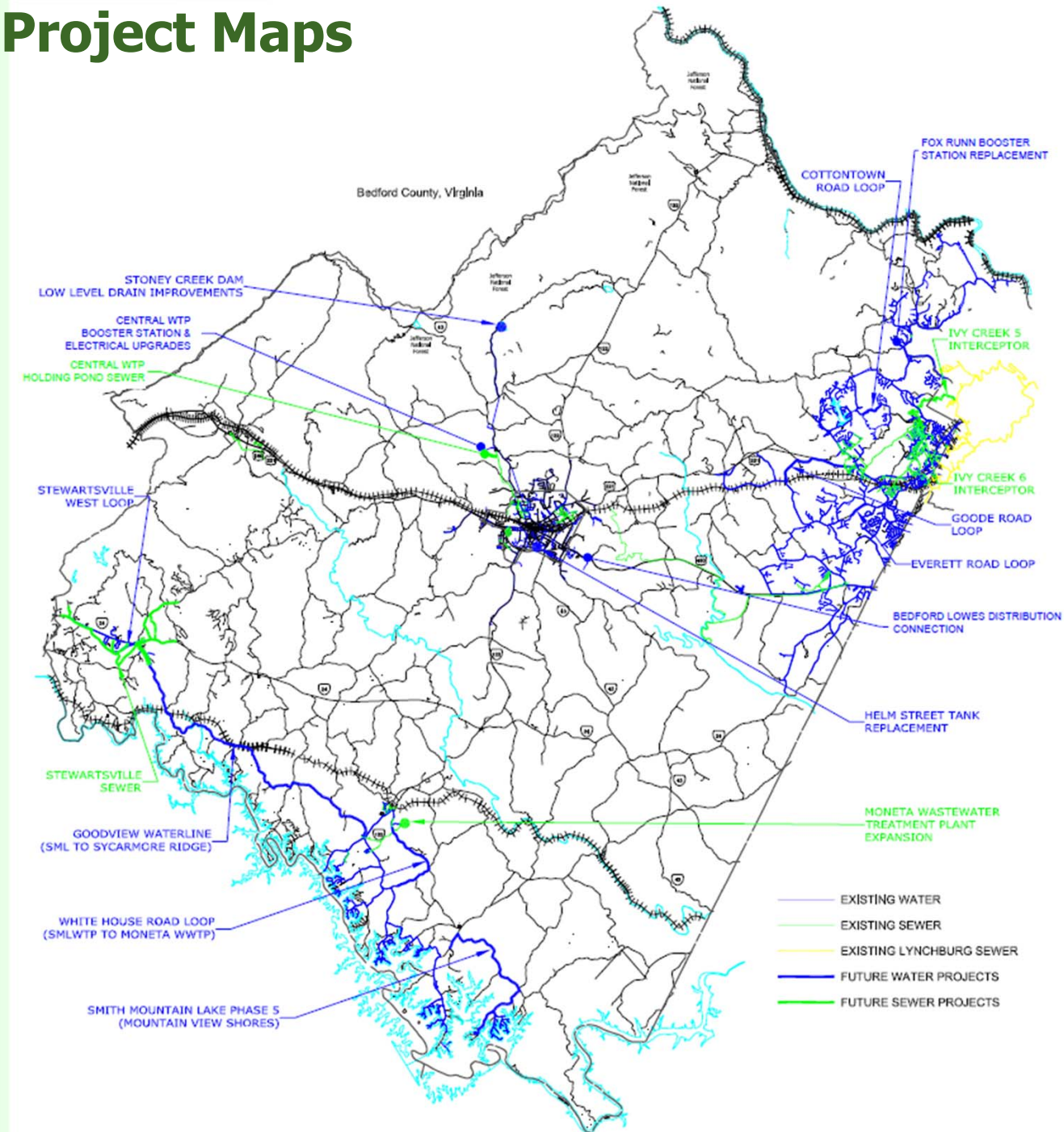
Future Capital Improvement Project Maps

Current CIP Projects Underway or Funded:

- Ivy Creek Sewer Phase 5 & 6 Interceptors
- Stoney Creek Dam Low-Level Drain Improvements
- Central WTP Electrical Upgrades Phase 1

Future CIP Projects (not yet funded):

- Central WTP Electrical Upgrades Phases 2 & 3
- Moneta Wastewater Treatment Plant Expansion
- Fox Runn Booster Station Replacement
- Bedford Lowes Connection to Distribution
- Central WTP Holding Pond Sewer
- Goodview Waterline – SML to Sycamore Ridge
- Smith Mountain Lake – Phase 5 Waterline
- Cottontown Road Waterline Loop
- Everett Road Waterline Loop
- Goode Waterline Loop
- White House Road Waterline Loop
- Stewartsville-West Waterline Loop
- Stewartsville Sewer



Goodview Waterline

SML to Sycamore Ridge

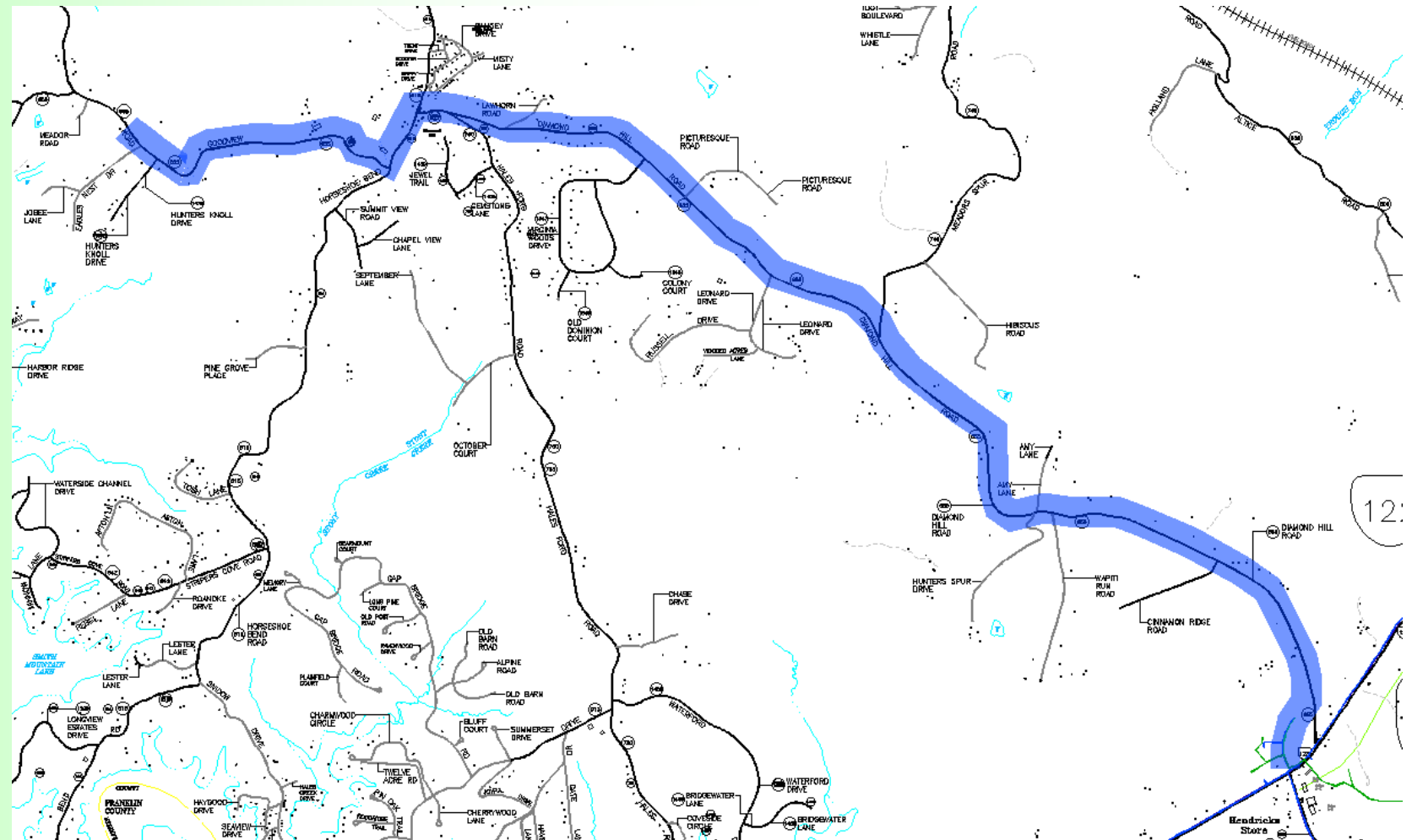
Project Description:

This project will extend waterline from Moneta Road along Diamond Hill Road to Eagles Nest Drive at the Sycamore Ridge subdivision off of Goodview Road. Multiple requests have been made for the waterline extension by current well system owners in the Goodview area. This extension would provide public water to the area and make connections more feasible.

Estimated Cost: \$6,600,000

Estimated Length/Size: >5 miles of 12-inch

Status: Not yet funded



Smith Mountain Lake Waterline – Phase 5

Project Description:

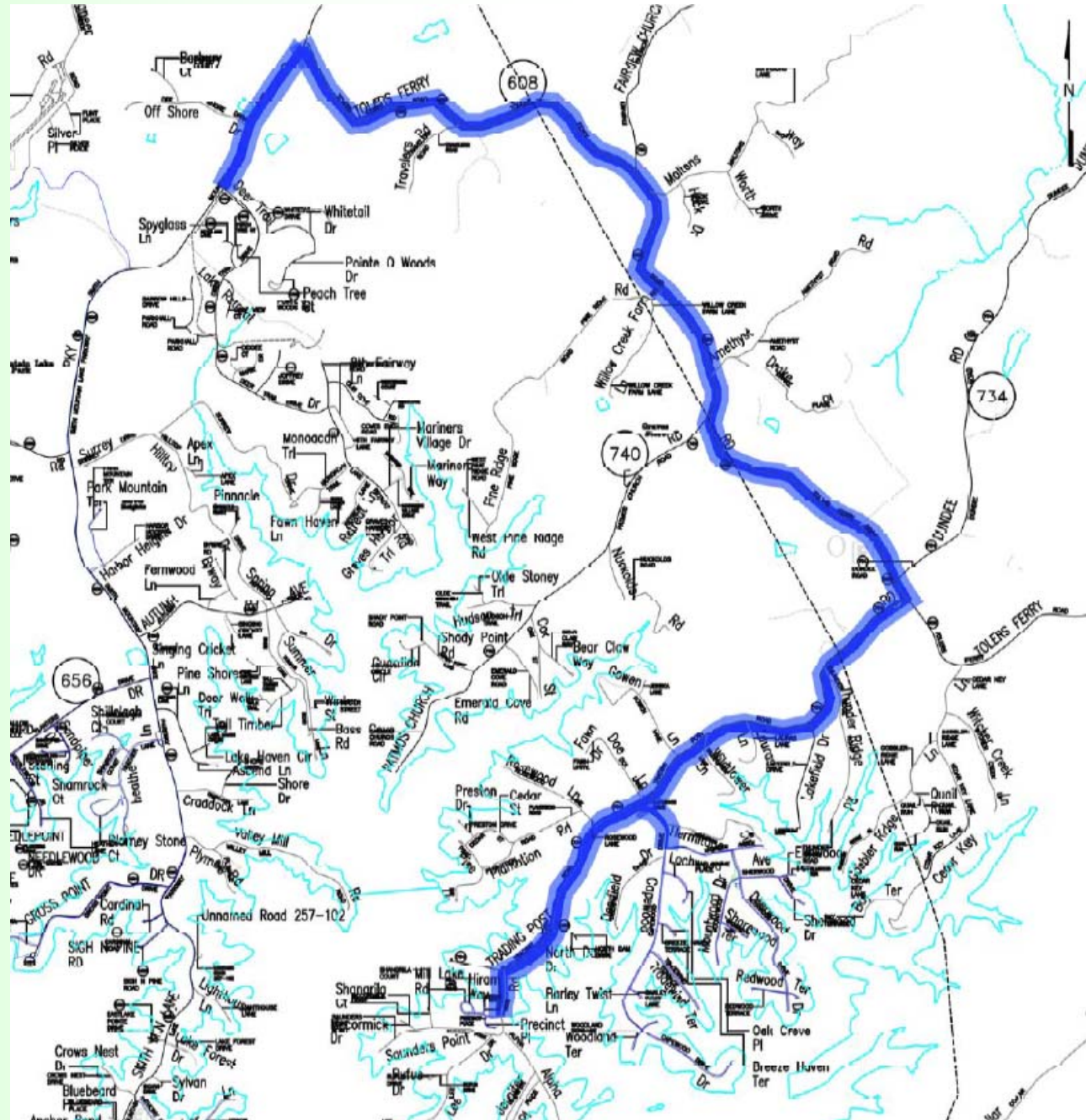
Waterline extension from Smith Mountain Lake Parkway along Tolers Ferry Road and Trading Post Road to Saunders Point Road.

The BRWA currently operates well systems in the Mountain View Shores and Valley Mills subdivisions that are located in a remote location in comparison to other facilities. Serving these subdivisions through the Mountain View Shores water system would create more cost efficiencies in the Authority's operations, eliminating two well systems and connecting them to the Lakes Central Water System. This area of the County has seen the most growth over the last year, and providing water to the area can increase the growth and tax revenue to the County, making future development around the southeastern portion of Smith Mountain Lake Parkway more feasible.

Estimated Cost: \$8,600,000

Estimated Length/Size: >6.5 miles of 8"-12"

Status: Not yet funded



Cottontown Road

Waterline Loop

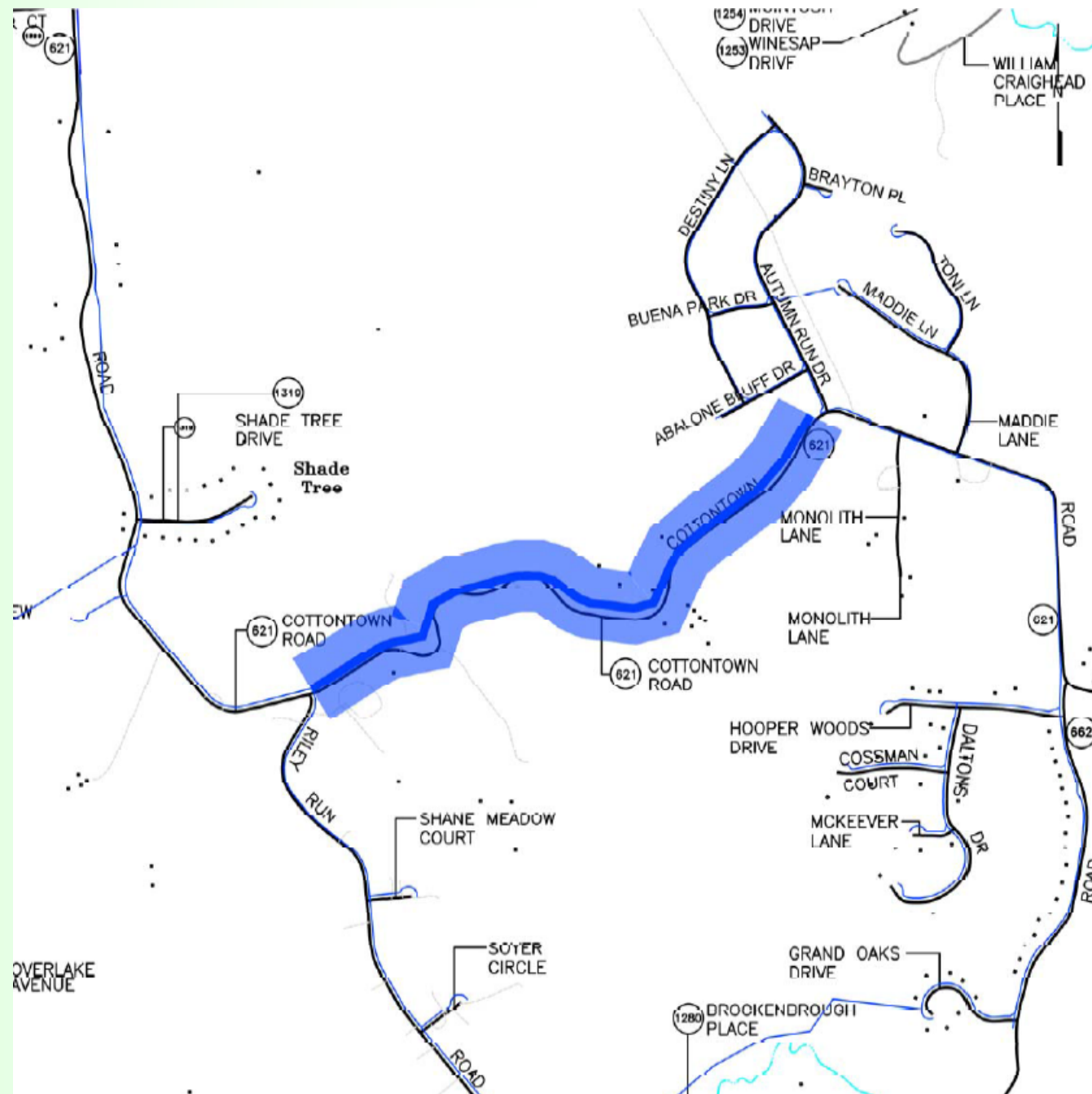
Project Description:

This project will include a waterline extension along Cottontown Road from Riley Run Road to Autumn Run Drive. This water extension will consist of over 4,800 LF looping the existing 12-inch waterline providing more stable pressures, flow, and fire suppression for the surrounding community. This loop will provide water service availability to approximately 15 existing parcels, many with the potential to develop resulting in additional customers.

Estimated Cost: \$1,200,000

Estimated Length/Size: >4,800 LF of 12-inch

Status: Not yet funded



Everett Road

Waterline Loop

Project Description:

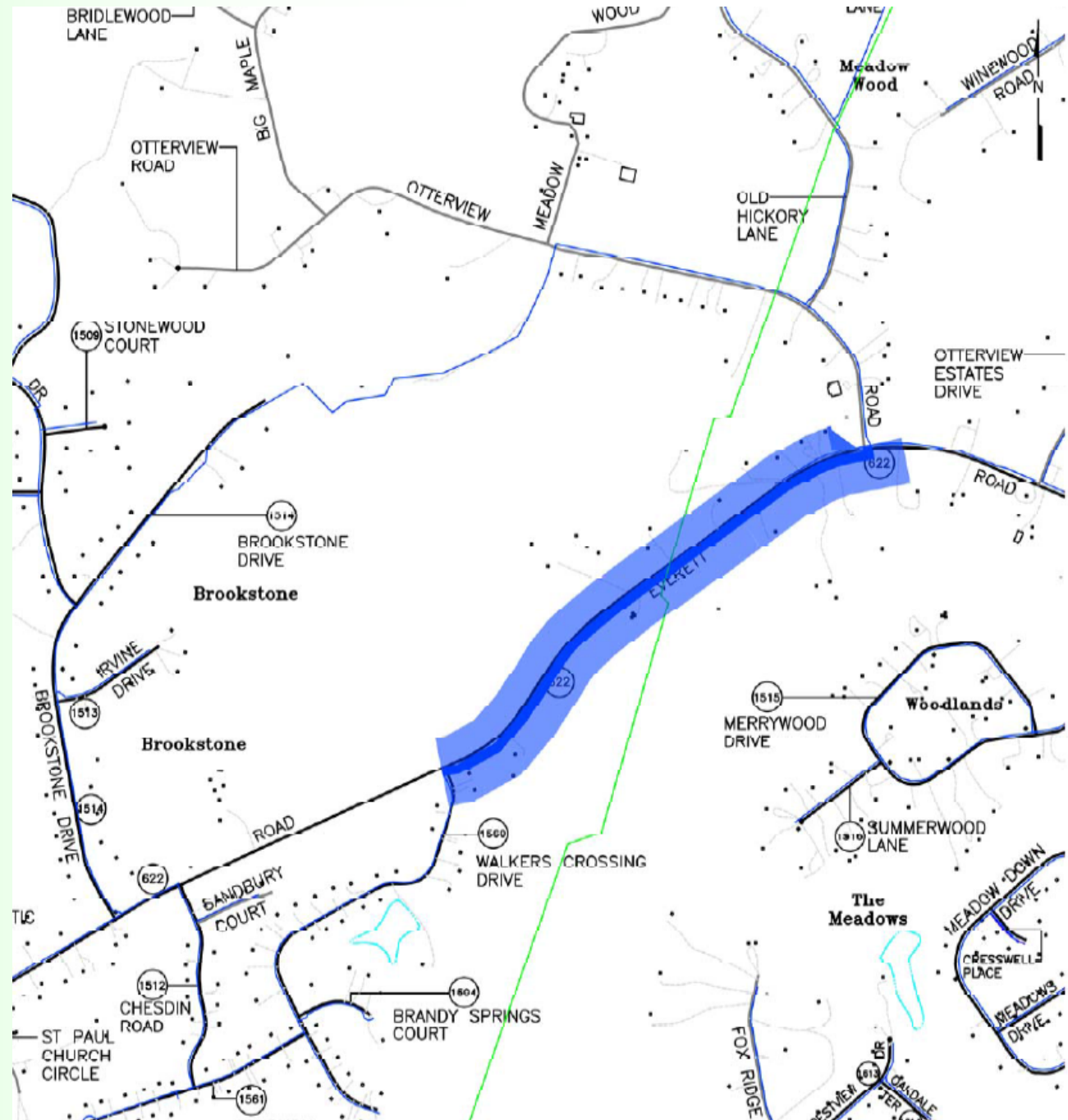
Connection of waterlines along Everett Road between Walkers Crossing Drive and Otterview Drive.

Waterlines have been extended from each direction, leaving a gap in this area along Everett Road. This project finishes a needed waterline loop for the system for greater stability. Currently there are only two water main feeds to this area, and if one must be closed for repair, additional loops are necessary to keep the system stable.

Estimated Cost: \$1,000,000

Estimated Length/Size: <4,000 LF of 12-inch

Status: Not yet funded



Goode Waterline Loop

Project Description:

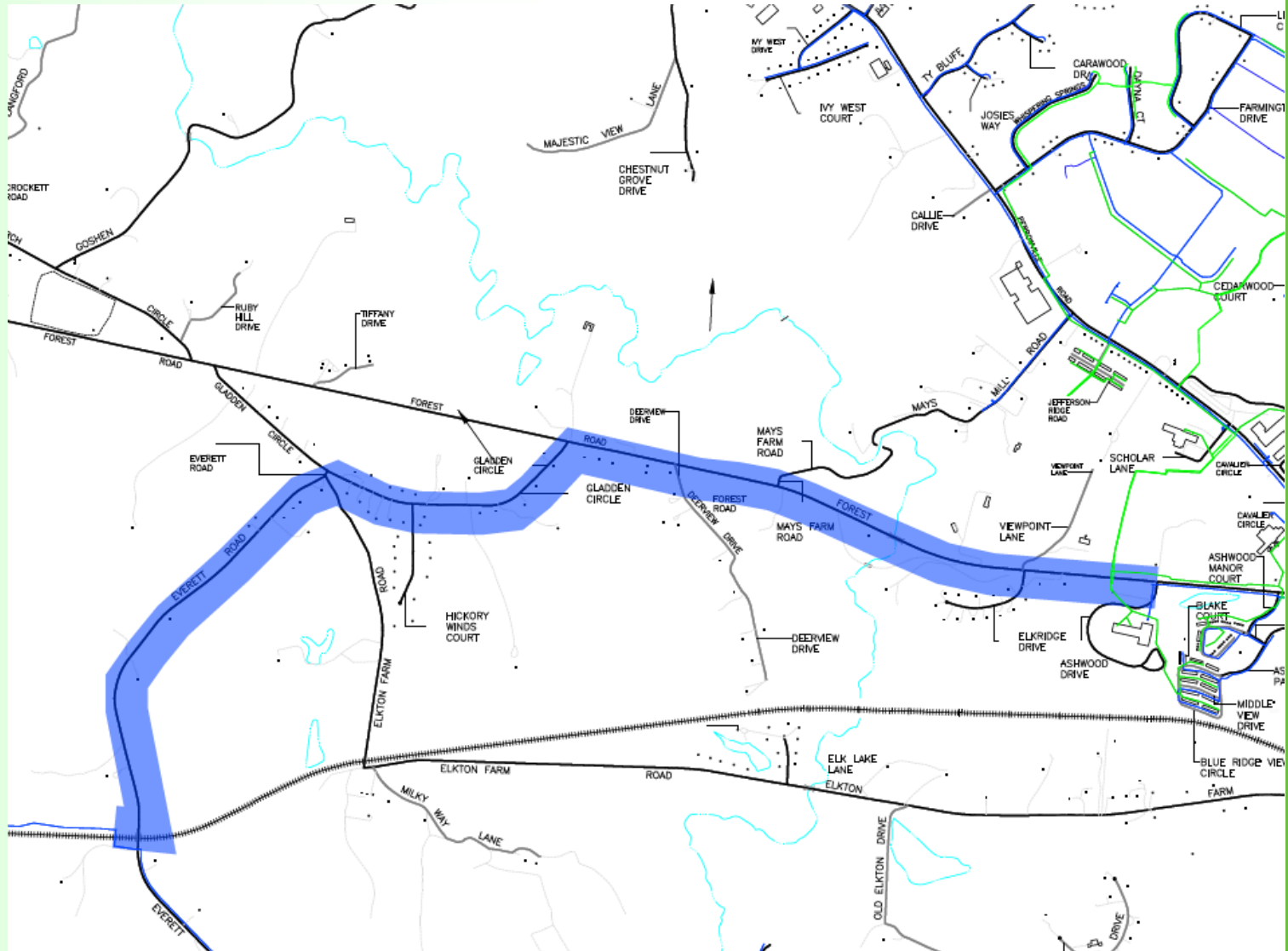
Looping waterlines at Everett Road and Canary Street to Ashwood Drive along Everett Road, Gladden Circle, and Forest Road (Route 221).

Waterlines have been extended from each direction, leaving a gap in this area along Everett Road. This project finishes a needed waterline loop for the system for greater stability. Currently there are only two water main feeds to this area, and if one must be closed for repair, additional loops are necessary to keep the system stable.

Estimated Cost: \$4,000,000

Estimated Length/Size: >3 miles of 12" – 16"

Status: Not yet funded



White House Road

Waterline Loop

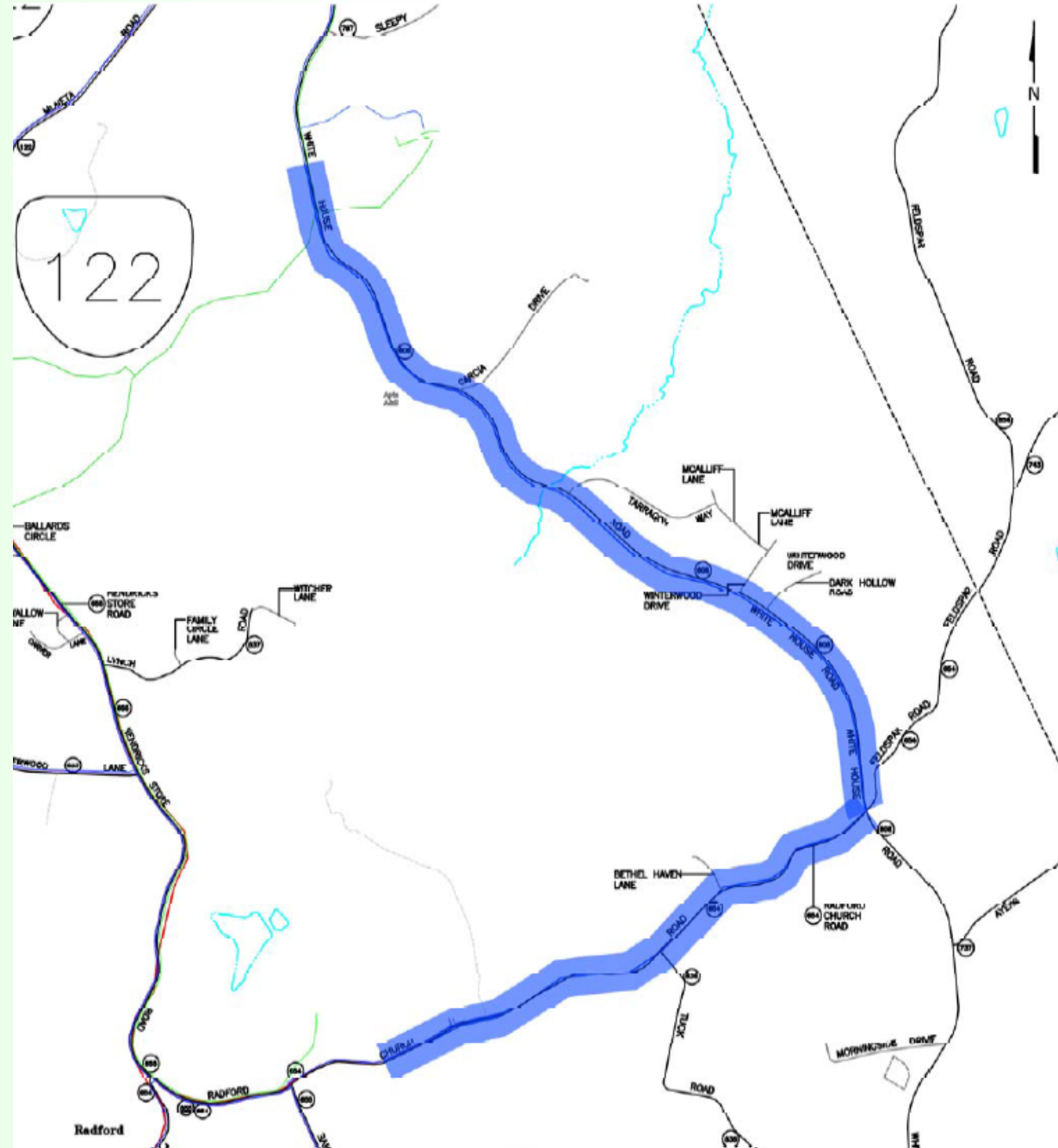
Project Description:

This project will complete the waterline loop from the SMLWTP along Radford Church Road and White House Road to the Moneta WWTP near Moneta Road (Route 122). This waterline loop will provide water service availability to over 100 existing parcels. This loop will also allow for further looping south along White House Road to Smith Mountain Lake State Parkway.

Estimated Cost: \$4,600,000

Estimated Length/Size: >3.5 miles of 8-inch

Status: Not yet funded



Stewartville West

Waterline Loop

Project Description:

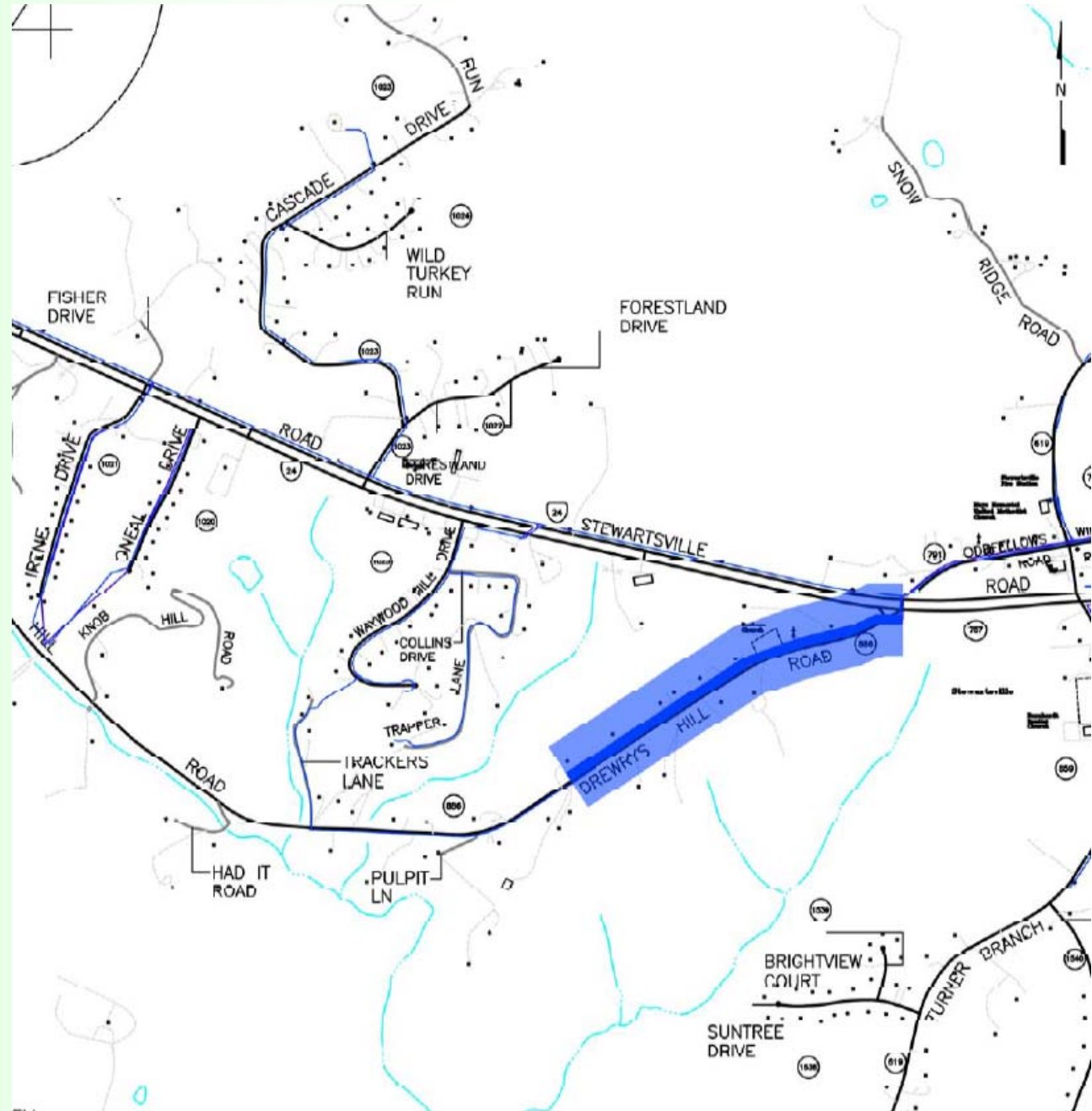
Waterline extension along Drewrys Hill Road from Pulpit Lane to Route 24 – Stewartville Road.

This project will provide a system loop for the Waywood Hills waterline extensions. With a limited number of customers currently connected to the Stewartville Consecutive water system, the loop is needed to assist with turnover in the lines and fresh water to the homes.

Estimated Cost: \$600,000

Estimated Length/Size: <2,400 LF of 6-inch

Status: Not yet funded



Stewartsville Sewer

Project Description:

This project would help promote growth of water and sewer customers in the Stewartsville and Goodview areas by providing sewer availability to rural areas currently on septic systems, including residential and commercial customers.

Estimated Cost: \$20,000,000

Estimated Length/Size: TBD

Status: Not yet funded

