

CAPITAL IMPROVEMENT PLAN: PUBLIC WORKS

2024



City of Lake Ozark

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Introduction

The City of Lake Ozark presents a three-year Capital Improvement Plan (CIP), to be updated annually as projects are completed or reprioritized. This plan will identify some of the city's current and future needs and Board identified projects that will require significant capital investment for the city. The purpose of developing and annually updating Lake Ozark's CIP is to inform policy makers and the community of both the current and future capital needs of the community which may outweigh available funds.

This CIP includes proposed projects for FY 2024 through FY 2026. Generally, capital improvements projects consist of purchasing, constructing and renovating structures, acquiring land, and/or purchasing major equipment. It can also include sidewalk construction, road rehabilitation or construction, new facilities, water, and wastewater extension projects. This Capital Improvement list is not intended to predetermine that a project will be funded but is intended to be a living and flexible document that considers capital needs in the community and balances those needs with what the city can afford.

The Public Works Director and City Administrator have been working closely to identify the immediate and future needs of the city. After the initial submission, several meetings were held to discuss the items and determine which items should be placed as a higher priority.

Some projects on the list will be recommended for funding through annual operating funds while other projects are recommended through borrowing. Projects funded through borrowing impact the operating budget through ongoing debt service expenses. Please remember that some projects also have a direct impact on the operating budgets in that they will require ongoing expenses for staff and other operating costs.

Importance of Capital Improvement Planning:

- 1. Shows the Community what projects are planned**
- 2. Provides certainty for the future**
- 3. Helps the City coordinate outreach and construction**
- 4. Prioritizes capital construction and maintenance needs**
- 5. Helps the City forecast and coordinate long-term needs**
- 6. Ensures infrastructure is maintained and upgrades**
- 7. Provides a framework for funding capital projects**
- 8. Increase efficiency of engineering and budget efforts**
- 9. Maintain high bond ratings which, in turn, saves cost**
- 10. Allows effective time to plan for large projects**



CIP Funding Mechanisms

A key goal in the CIP is to meet as many critical capital needs as possible without overextending the city's debt service capabilities. Recently, the city has been able to retire debt across funds and therefore can issue new debt in its place without increasing overall debt service cost to the city related to capital improvements.

Capital improvements may be funded by a variety of municipal revenue streams. There are two separate 0.5% Capital Improvement Sales Taxes, totaling a 1% sales tax that may be used to fund sewer, water, and transportation improvements.

Sewer and water projects may be supported by revenue generated through usage rates. There is also a 0.5% sales tax identified for transportation improvements, maintenance, and operations.

In 2020, city voters approved a use tax, dedicated solely to transportation maintenance and improvements. This tax went into effect in 2021, and is levied at the same rate of all city sales taxes (2.75%) on internet purchases by residents.

Any of the listed revenue streams may be used to finance a project through the issuance of debt, within the boundaries of authority given by the residents of the City and state statutes. This method will be used to finance larger projects with long-term impacts, though smaller projects and maintenance projects may be paid for using operating revenues or funds held in the city's reserve accounts.

Occasionally, there may be state and federal grant or loan programs that can reduce project costs or fund them entirely, should the project meet identified program criteria.

**Lake Ozark's 1%
Capital Improvement
Sales Tax historically
generates over
\$1.5M annually.**

Summary of 2024 Projects

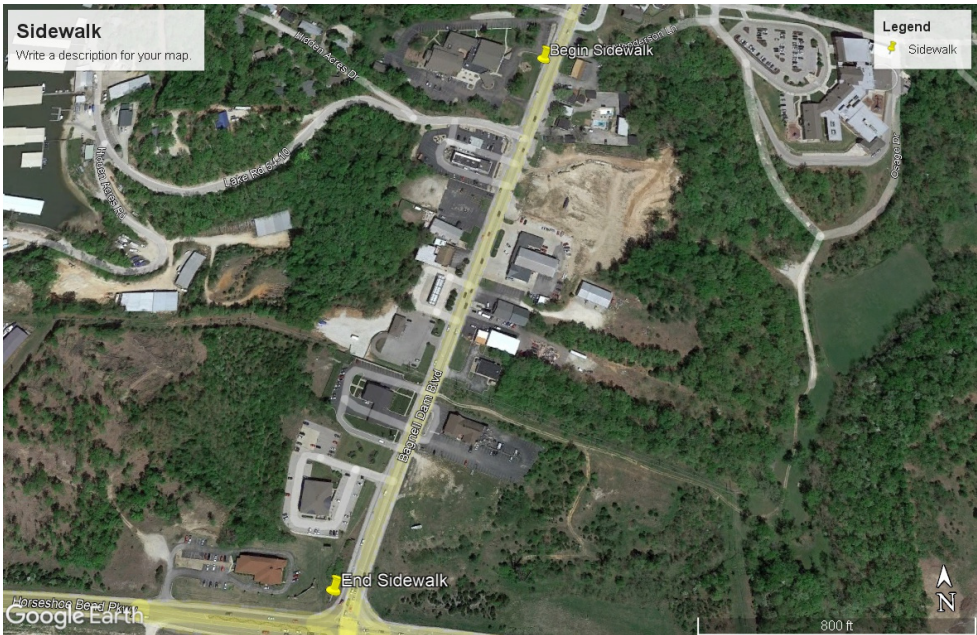
Project	Category	Estimated Cost
Sidewalk Henderson to HH	Transportation	\$100,000
Update Signal Detection (Gridsmart)	Transportation	\$150,000
Replace South Water Tower Control Panel	Water	\$30,000
Install Generator at South Water Tower	Water	\$50,000
Replace Flynn Rd. Lift Station Controls	Sewer	\$35,000
Install Bypass Pump at HH Lift Station	Sewer	\$100,000
Overlook/Glen Water Main	Water	\$800,000
Shoreland Lift Station Controls and Pumps	Sewer	\$40,000
Delete Golden Rule Lift Station	Sewer	\$25,000
Micropaving - Southwest Neighborhoods	Transportation	\$175,000
Cape Seal Strip- city limits to School Rd. ; Parking stalls optional	Transportation	\$110,000-\$240,000
Reconstruct Lighthouse Rd.	Transportation	\$1,300,000
Mill/Overlay Bagnell Dam Blvd. - Phases 2, 4	Transportation	\$940,000

2024 TRANSPORTATION PROJECTS

Sidewalk Project

Installing sidewalk from Henderson to HH, including crosswalks at traffic signal.

Fund: Transportation	FY24 Cost: \$100,000	Funding Mechanism: TAP Grant/ Use Tax Reserve
Purpose and Need This will greatly improve pedestrian safety and the walkability of the area.	Location The sidewalk will be installed along Bagnell Dam Blvd. from Henderson Ln. to the HH intersection.	
Timeline November 2023 to June 2024. If unsuccessful in this grant application, project will move to unfunded needs list.	Comments and Changes The City will be pursuing a Transportation Alternatives Program (TAP) grant with the assistance of the Lake of the Ozarks Council of Local Governments for project funding; this is an 80% matching program.. Project scope may be extended to include crosswalk and pedestrian signaling improvements.	



Signal Detection

Updating signal detection systems at key stoplights.

Fund: Transportation	FY24 Cost: \$150,000	Funding Mechanism: TAP Grant/ Use Tax Reserve
Purpose and Need This project will improve traffic flow. The new system will allow for easy monitoring of flow and traffic adjustments. It will also help the city get consistent traffic counts.	Location Bagnell Dam Blvd. and HH/242 Bagnell Dam Blvd. and Old Hwy. 54	
Timeline Project will start in Spring 2024.	Comments and Changes This upgrade could be incorporated into other transportation projects happening in the area during the same year.	



Micropaving - Southwest Neighborhoods

Continuing to preserve and maintain the city's roads.

Fund: Transportation	FY24 Cost: \$175,000	Funding Mechanism: Transportation Revenue
Purpose and Need This is a preventative maintenance measure applied at the midpoint of a pavement's lifespan that seals the existing asphalt. This product will keep a road's wear surface at a high level for many years to come.	Location Frudeger Road, Twin Oaks Drive, Oak Ridge Road, Arrowhead Beach Road, Wren Drive, Quail Circle, and Roscoe Road.	
Timeline Fall 2024 to Spring 2024	Comments and Changes This project is Phase 2 of the city's pavement preservation.	



Cape Seal Strip

Protecting and sealing the pavement along the Bagnell Dam Strip.

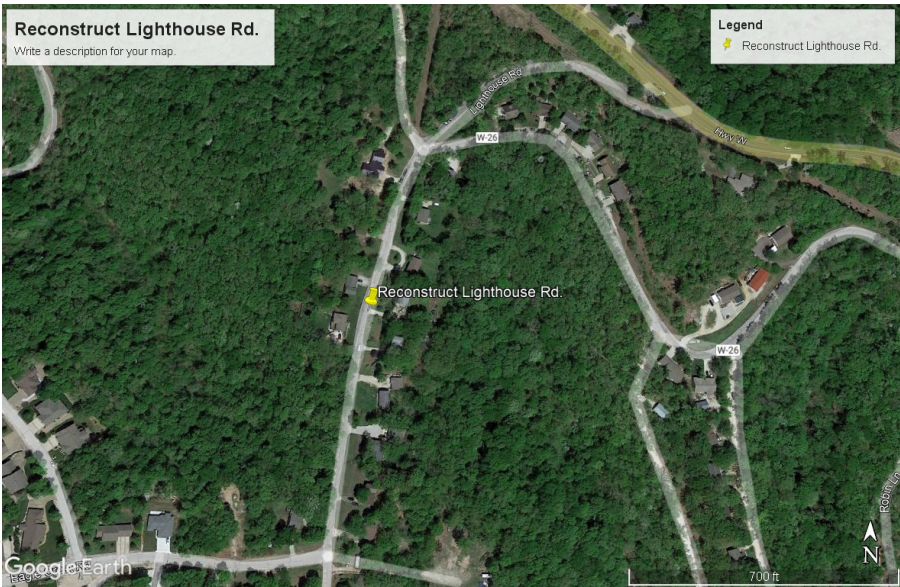
Fund: Transportation	FY24 Cost: \$110,000-\$240,000	Funding Mechanism: Capital Improvement Revenue
Purpose and Need A Cape Seal is a chip seal covered with a slurry or micro-surface. The benefits from using a cape seal include a very smooth surface with an increased durability by sealing the subbase. Cape Seals have been used to not only protect the pavement by sealing it, but it can also be used for heavy traffic areas and to address minor cracking.	Location Bagnell Dam Boulevard, from the city limit line near Bagnell Dam to the School Road intersection.	
Timeline Winter 2023-Winter 2024 (If labor available) Fall 2024-Winter2024	Comments and Changes \$90,000 estimate for inclusion of parking areas outside traffic lanes. ; To include installation of speed tables for crosswalk improvements at \$8,000 each.	



Lighthouse Road Reconstruction

Reconstructing a damaged and high-volume road.

Fund: Transportation	FY24 Cost: \$1,300,000	Funding Mechanism: 2023 Bond Issue
Purpose and Need The road surface for this portion of Lighthouse Road is currently in a failing state, beyond the point of reasonable maintenance. As a higher volume collector road, its structure is of high importance.	Location Lighthouse Road, from the intersection at Highway W to the intersection at Eagle Crest Road.	
Timeline Design of this project is currently occurring.	Comments and Changes If this not addressed, there will be recurring issues in the near future.	



Mill/Overlay Bagnell Dam Blvd. - Phases 2, 4

Improving the surface of our city's roadways.

Fund: Transportation	FY24 Cost: \$940,000	Funding Mechanism: 2023 Bond Issue
Purpose and Need The road surface for this portion of Bagnell Dam Boulevard has significant issues, though the road structure is deemed to be healthy. This project will reconstruct the surface of this portion of the roadway.	Location Bagnell Dam Boulevard from School Road to the MM overpass.	
Timeline Design of this project is currently occurring.	Comments and Changes The city frequently receives calls about this portion of the road.	

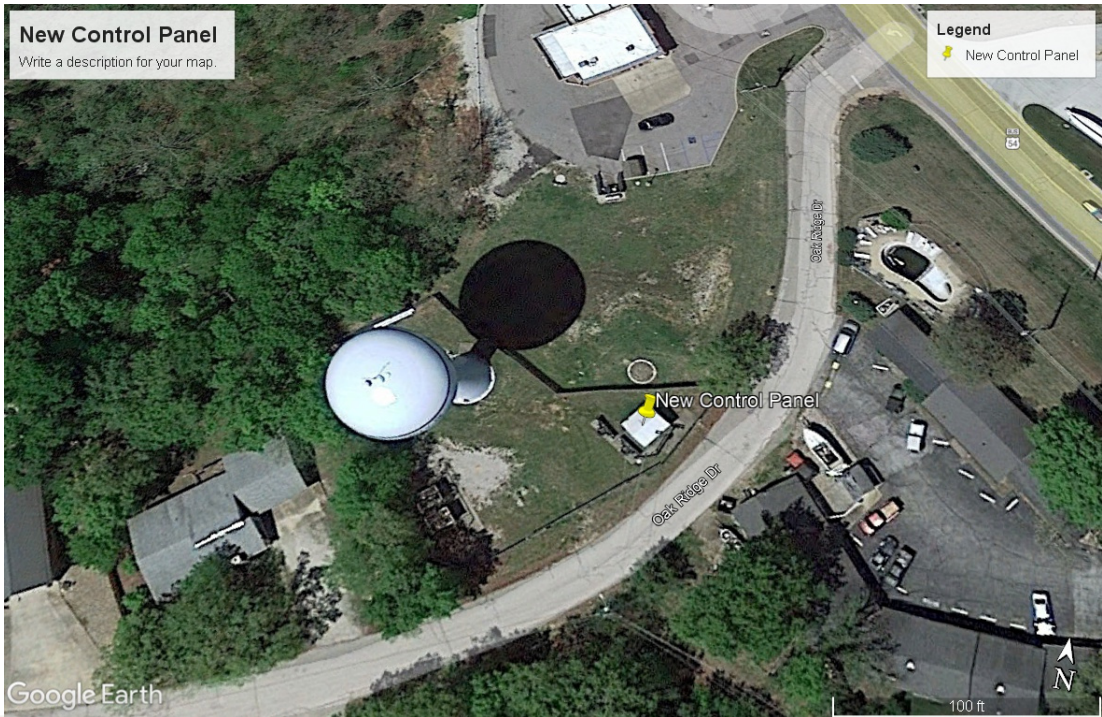


2024 WATER PROJECTS

South Water Tower Control Panel

Replacing outdated controls in one of our city's water towers.

Fund: Water	FY24 Cost: \$30,000	Funding Mechanism: Water Revenues
Purpose and Need The controls in this panel are over 20 years old and need to be replaced.	Location South Well/Oakridge Drive.	
Timeline Fall/Winter 2024	Comments and Changes It is prudent to replace these controls before issues arise.	



South Water Tower Generator

Installation of new generator at the South Water tower.

Fund: Water	FY24 Cost: \$50,000	Funding Mechanism: Water Reserve
Purpose and Need This addition will allow the city to provide water to the south part of town in the event of an extended power outage.	Location South well/ water tower on Oak Ridge Dr.	
Timeline Winter 2023/2024	Comments and Changes This project will be completed in conjunction with the bypass pump at the HH lift station. Generator to be purchased from sewer fund.	



Overlook/Glen Water Main

Connecting another residential area to city water supply.

<p>Fund: Water</p>	<p>FY24 Cost: \$800,000</p>	<p>Funding Mechanism: 2023 Bond Issue</p>
<p>Purpose and Need</p> <p>This subdivision currently has a failing water system. Extension would provide these residents with reliable water service. The Department of Natural Resources has encouraged this change.</p>	<p>Location</p> <p>Overlook Rd. and Glen Rd.</p>	
<p>Timeline</p> <p>Summer 2023 to Spring 2024 Design in progress.</p>	<p>Comments and Changes</p> <p>The subdivision's board is in favor of connecting to city system. The City will gain over 40 new water customers after installation.</p>	



2024 SEWER PROJECTS

Flynn Road Lift Station Controls

Replacing the controls for the main lift station on Flynn Rd.

Fund: Sewer	FY24 Cost: \$35,000	Funding Mechanism: Capital Improvement Revenue
Purpose and Need The controls for this lift station are proving to be troublesome due to their age. Replacement would ensure reliability and safety.	Location Flynn Road, near the entrance to Newport Condominiums.	
Timeline November 2023 to February 2024	Comments and Changes As this station ages, a higher level of repetitive maintenance is necessary; a full replacement of the control panel will extend the useful life of the entire station.	



Bypass Pump at HH Lift Station

Installation of a permanent bypass pump at the HH Lift Station.

Fund: Sewer	FY24 Cost: \$100,000	Funding Mechanism: Sewer Revenues
Purpose and Need This will provide the city with redundant pumping capability in the event of power and equipment failure. It will greatly reduce the chance of wastewater bypasses.	Location HH Lift Station, near the western city limit line on HH.	
Timeline November 2023- January 2024	Comments and Changes Since this lift station is near the Lake of the Ozarks, this type of pump can greatly reduce the chance of wastewater contamination into the lake. Existing generator to be sold to water fund.	



Shoreland Lift Station

Replacement of the pumps and controls at the Shoreland lift station.

Fund: Sewer	FY24 Cost: \$40,000	Funding Mechanism: Capital Improvement Revenues
Purpose and Need The equipment at this station is very old and given its proximity to the lake, replacement is needed to prevent major issues.	Location Behind Bagnell Dam Blvd, near the waterfront on the Strip.	
Timeline November 2023 to March 2024	Comments and Changes The pumps and controls at this station are all original to the city sewer system, meaning they were installed in the 1980s.	



Delete Golden Rule Lift Station

Improve to the efficiency and consistency of the city's sewer system.

Fund: Sewer	FY24 Cost: \$25,000	Funding Mechanism: Capital Improvement Revenues
Purpose and Need This project will take an unnecessary lift station offline to reroute for more efficient flow and consistent power supply.	Location Golden Rule Road/Osage River	
Timeline Summer 2024	Comments and Changes This pump station runs on an artificial phasing device prone to issues.	



Summary of 2025 Projects

Project	Category	Estimated Cost
Install Generator at North Tower	Water	\$50,000
Install Smart Points on Lift Stations	Sewer	\$7,000
New Generator at Highway 54 Lift Station	Sewer	\$150,000
Install Bypass Pump at 111	Sewer	\$150,000
New Pumps at 111	Water	\$180,000
GIS Map of Water & Sewer System	Water & Sewer	\$100,000
One Inch Mill/Resurface Ballenger	Transportation	\$85,000
One Inch Mill/Resurface School Rd.	Transportation	\$100,000
Micropave & Restripe Bagnell Dam Blvd.	Transportation	\$150,000

2025 TRANSPORTATION PROJECTS

One Inch Mill/Resurface Ballenger

Providing a new and improved driving surface.

Fund: Transportation	FY25 Cost: \$85,000	Funding Mechanism: Use Tax Revenue
Purpose and Need The road surface has significant issues , though the road structure is deemed to be healthy. This project will reconstruct the surface of this portion of roadway.	Location Ballenger Rd.	
Timeline Summer 2025	Comments and Changes This will provide a new driving surface.	



One Inch Mill/Resurface School Rd.

Providing a new and improved driving surface.

Fund: Transportation	FY25 Cost: \$100,000	Funding Mechanism: Use Tax Revenue
Purpose and Need The road surface has significant issues , though the road structure is deemed to be healthy. This project will reconstruct the surface of this portion of roadway.	Location School Rd.	
Timeline Summer 2025	Comments and Changes This will provide a new driving surface.	



Micropave/Restripe Bagnell Dam Blvd.

Providing a new wear surface and extending the lifespan of our roads.

Fund: Transportation	FY25 Cost: \$150,000	Funding Mechanism: Capital Improvement Revenue
Purpose and Need This is a preventative maintenance measure applied at the midpoint of a pavement's lifespan that seals the existing asphalt. This product will keep a road's wear surface at a high level for many years to come	Location Portion of Bagnell Dam Boulevard from the MM overpass to the Osage Beach Parkway intersection.	
Timeline Fall 2025	Comments and Changes This will provide a new wear surface and seal the road surface.	



2025 WATER PROJECTS

GIS Map the Water & Sewer System

Mapping the water and wastewater systems accurately and electronically.

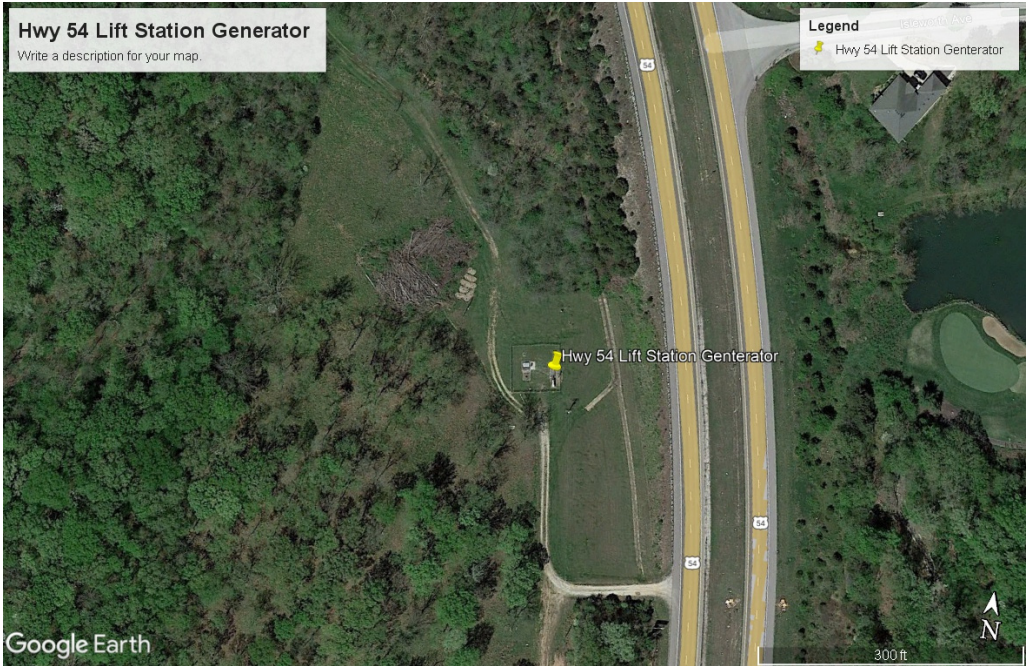
Fund: Water	FY25 Cost: \$100,000	Funding Mechanism: Operating Reserve
Purpose and Need This project would consolidate all of the water and wastewater systems to an electronic format for improved accuracy.	Location Citywide	
Timeline 2025-2026	Comments and Changes This is needed for more accurate information to be catalogued and recorded.	

2025 SEWER PROJECTS

Generator at Highway 54 Lift Station

Replacement of the generator at the Highway 54 Lift Station.

Fund: Sewer	FY25 Cost: \$150,000	Funding Mechanism: Capital Improvement Revenue
Purpose and Need The current generator and transfer switch are 30 years old, making parts difficult to get. The station periodically has issues.	Location Highway 54 Lift Station	
Timeline Spring/Summer 2025	Comments and Changes The equipment here is troublesome. A permanent bypass pump will not work at this location.	



Install Bypass Pump at 111 Lift Station

Installation of a bypass pump at the 111 lift station for emergency control.

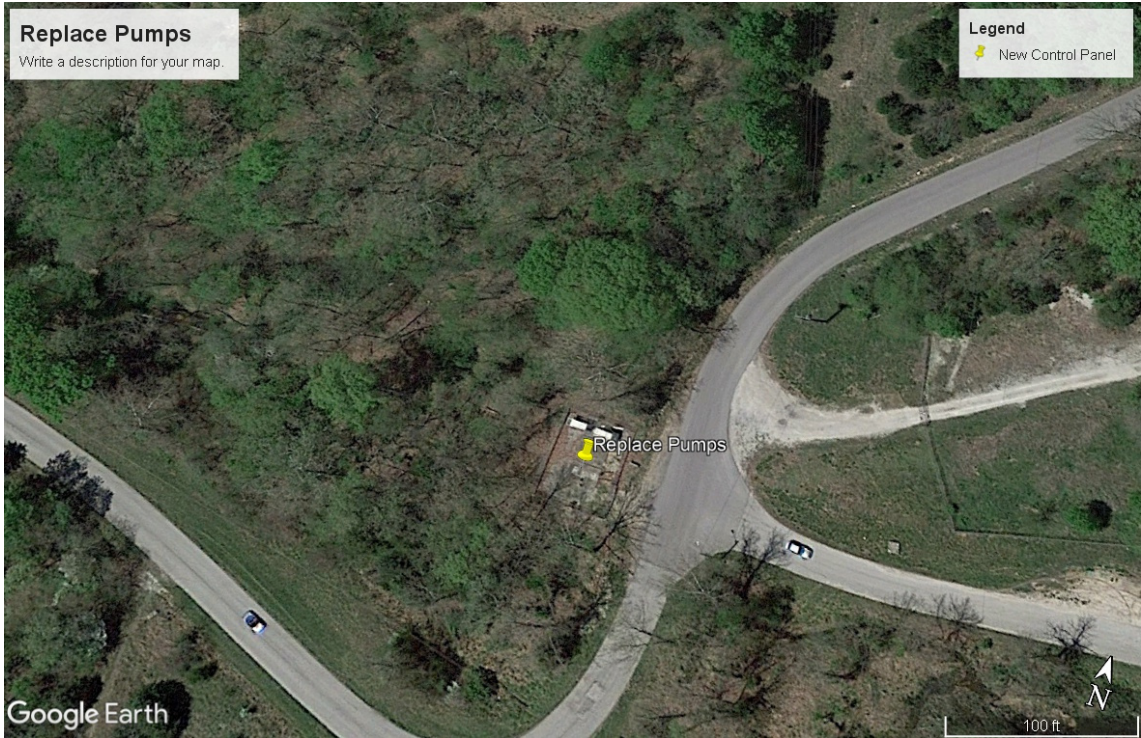
Fund: Sewer	FY25 Cost: \$150,000	Funding Mechanism: Capital Improvement Revenues
Purpose and Need In the event of a power or equipment failure, a bypass pump would allow the city to have redundant pumping and control capabilities.	Location Pump Station 111 on Legion Rd.	
Timeline Fall/Winter 2025	Comments and Changes This project gives the city backup pumping and control for the lift station that serves wastewater for the entire south side of town.	



Replace Pumps at 111 Lift Station

Installation of new pumps at the 111 lift station to replace outdated ones.

Fund: Sewer	FY25 Cost: \$180,000	Funding Mechanism: Capital Improvement Revenues
Purpose and Need This is the main pump station to convey wastewater to the wastewater plant.	Location Legion Rd.	
Timeline Summer 2025	Comments and Changes The current pumps are from the 1980s.	



Summary of 2026 Projects

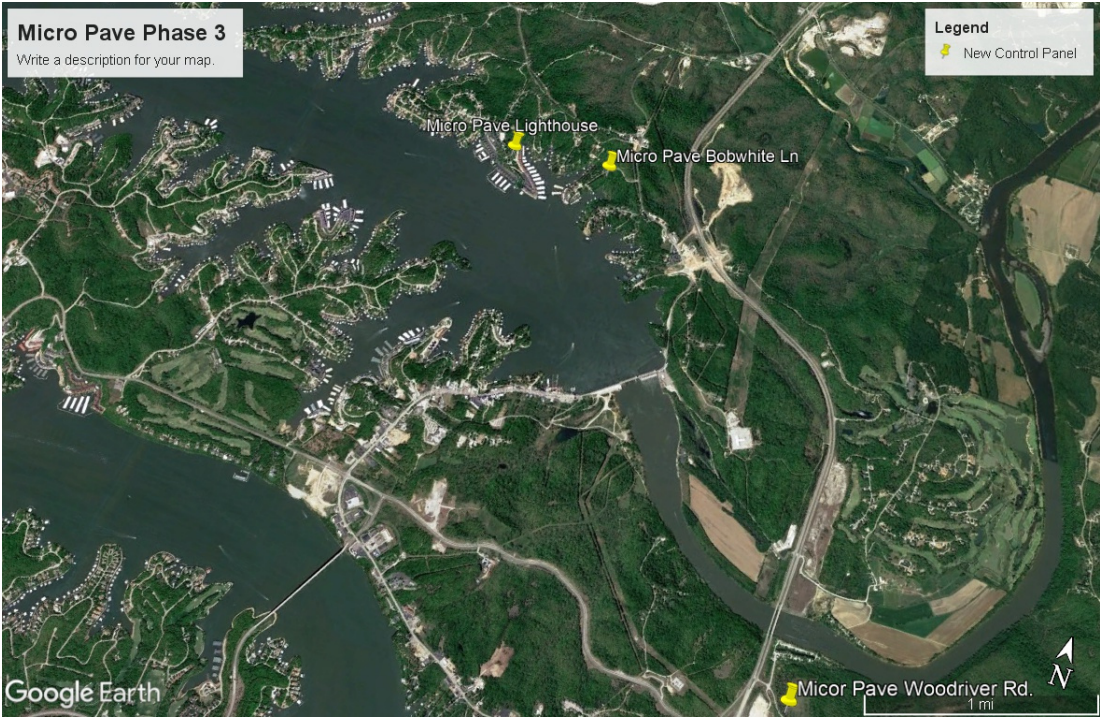
Project	Category	Estimated Cost
Micropave Phase 3	Transportation	\$30,000
Mill/Overlay Hidden Acres Court	Transportation	\$50,000
Osage Hills Road Water Extension	Water	\$750,000
Welsh Road Water Extension	Water	\$1,000,000

2026 TRANSPORTATION PROJECTS

Micropaving Phase 3

Continuing to preserve and maintain the city's roads.

Fund: Transportation	FY26 Cost: \$30,000	Funding Mechanism: Use Tax Revenue
Purpose and Need This is a preventative maintenance measure applied at the midpoint of a pavement's lifespan that seals the existing asphalt. This product will keep a road's wear surface at a high level for many years to come	Location Portion of Lighthouse Road not improved in 2024, Bob White Lane, Wood River Road	
Timeline Winter/Spring 2026	Comments and Changes This is Phase 3 of the city's pavement preservation efforts.	



Hidden Acres Court Mill/Overlay

Providing a new driving surface.

Fund: Transportation	FY26 Cost: \$50,000	Funding Mechanism: Use Tax Revenue
Purpose and Need The road surface has significant issues , though the road structure is deemed to be healthy. This project will reconstruct the surface of this portion of roadway.	Location Hidden Acres Court	
Timeline Summer 2026	Comments and Changes This will provide a new driving surface.	



2026 WATER PROJECTS

Extend Water Main on Osage Hills Rd.

Extension of the water main to expand water service on Osage Hills Road.

Fund: Water	FY25 Cost: \$750,000	Funding Mechanism: Tentative 2026 Bond Issue
Purpose and Need This project will allow for fire suppression in this area of the city. It will also facilitate growth in the undeveloped areas of Osage Hills Rd.	Location Osage Hills Rd. between Isleworth and the roundabout.	
Timeline October 2026 to Spring 2027	Comments and Changes A small amount of this area has developed recently. We have also received more inquiries about utilities with recent property purchases.	



Extend Water Main on Welsh Rd.

Provide expanded water services to Welsh Rd. and allow for new development.

Fund: Water	FY26 Cost: \$1,000,000	Funding Mechanism: Tentative 2026 Bond Issue
Purpose and Need Most of this area is currently being served by 2 inch or 4 inch water lines, which does not provide enough water for any fire suppression or further development in the area.	Location Welsh Rd.	
Timeline October 2026 to Spring 2027	Comments and Changes The city will gain more water customers and will be able to provide fire hydrants as a result of this projejt.	



UNFUNDED NEEDS

Construct Public Works Administration Office

Currently, the Public Works Department operates out of four separate locations. Ideally, we can consolidate our operations to one location at 1323 School Road by constructing a new office. This will greatly improve the efficiency of the department.

Estimated Cost: \$900,000, not inclusive of land acquisition



In the event that neighborhoods want to reinvest in local infrastructure, or larger residential and commercial projects are announced, or if federal and state aid are made available for projects, the following projects may be added to the planning matrix:

- Paving of current gravel roads
- Sidewalk construction and improvement along Bagnell Dam Strip
- Extend sewer and water mains to unserved areas
- Road reconstruction needs not currently identified in 3 year plan

Items may be addressed without being added to the capital improvement plan if they are funded privately, or necessary due to system failures of infrastructure due to disaster or distress.

Acknowledgements

This capital improvement plan is intended for planning purposes and is subject to change depending on city finances and needs. If you have any questions or concerns about the projects outlined in this plan, please contact the Public Works Director.

We would like to thank our Board of Aldermen for their support:

Mayor Dennis Newbery
Alderman Judith Neels, Ward I
Alderman Patricia Thompson, Ward I
Alderman Krista Watts, Ward II
Alderman Sherry Jackson, Ward II
Alderman David Ridgely, Ward III
Alderman Carol Denny, Ward III

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