



The Flow

Springfield Water & Sewer
Commission
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More Information

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PROJECTS UPDATE: PAST, CURRENT & FUTURE

CURRENT PROJECTS:

WATERMAIN REPLACEMENTS - PRIORITY 1 AND 2

In addition to water main replacement, improvements will be made at the Water Treatment Plant (WTP) to continue to provide high quality water and meet more stringent requirements for the entire system. These improvements include the addition of a carbon feed system to enhance water quality and prepare the WTP for handling emerging contaminant such as PFOS, PFOA, and others.

The contaminants mentioned are considered "forever chemicals" and will be a big focus of the EPA over the next decade. The WTP improvements will also include the addition of stainless-steel weirs for the basins. SWSC has selected to use portions of Cleaner Water Funds to begin the design of this project to jump start the replacement of deteriorating lines.

A 70-year-old water main looks like:



Design plans are underway and the initial priority lines in this first phase of work are:

- ☑ Lincoln Park Road/Lebanon Hill from Derringer to Alma Avenue
- ☑ Commercial Avenue
- ☑ High Street from Commercial to Mackville Hill
- ☑ Main Street from Commercial to East High Street at Mackville Hill
- ☑ Ballard and Depot Street
- ☑ Various Streets that connect Main Street to High Street

Opportunities to sign up for watermain replacement updates will come at a future date.

Project Cost	\$7,383,000
Loan	\$7,172,424
Forgiveness	\$3,751,553
Net Loan	\$3,421,871



More Info: <https://springfieldwater.org/downtown-springfield-water-main-assessment/>

WASTEWATER TREATMENT PLANT SBR #4

The proposed project will expand the Springfield WWTP by adding a Sequencing Batch Reactor (SBR). Community growth prompts the need to expand the WWTP. The Project will increase capacity from 1.33 million gallons per day to 1.9 MGD and meet peak flow demands. Additionally, the project will rehabilitate approximately 4,500 feet of 8" sewer mains in the Maplewood Ave. area to eliminate known sources of Inflow & Infiltration that contribute to excess treatment and cost.

Project Cost	\$3,800,000
Loan	\$2,623,000
Ky Funding	\$1,500,000
Forgiveness	\$682,485
Net Loan	\$1,940,595
Shortfall	\$0



EFFICIENT & HIGH QUALITY WATER SUPPLY

CURRENT PROJECTS: (CONT.)

NEW WATER METER INSTALLATIONS

SWSC embarked on replacing all system meters. As of July 1, 2024, approximately 1800 of 5500 meters have been replaced and 500 meters are in inventory and ready to be installed. Meters currently cost \$315 each plus the labor cost to install and completion of this project may take a few years to completion depending on funding.

CAPSTONE - SLOW PASS SANITARY SEWER

A sewer pump station will be constructed adjacent to Mackville Road and convey sewer from the Slow Pass distillery and future growth in that area. The project will include a 180 GPM duplex pump station with 2000' of force main that will discharge in the nearest manhole in the Commerce Park. The project cost is expected to be \$500,000.

US 150 WATERLINE RELOCATION

As part of the KYTC project on US 150 near Grundy Home Road, SWSC's watermain will be relocated as part of that project and is funded within the road contract.

SPRINGFIELD SUN BUILDING REHAB

SWSC owns the previous "Springfield Sun" building on Progress Avenue and is renovating that building to become a water distribution center and will include warehousing for distribution materials, minimal office, and meeting space. This will free up needed space at the adjacent plant site.

RAW WATERLINE RELOCATION

Portions of the 16" raw water line will be done as part of the KYTC - KY 555 road construction project. These costs will be reimbursed by the KYTC.

REGIONAL SEWER PUMP STATION

The SWSC has received \$1,399,000 of funding from the FY23 Congressionally Directed Spending /Community Project Funding Grant to replace the "City Barn" sewer pump station that is aging and nearing its ultimate capacity. The project is expected to cost \$1,399,000 and design is underway. This pump station receives flow from the High School PS and the Tingle Lane PS that captures the Commerce Park's flow.

To facilitate sewer system growth, the Pump Station is being relocated to the southwest quadrant of the intersection of Lincoln Park Road and the US 150 Bypass. The project will include a 500 GPM duplex pump station, 6900' of 8" Force Main and 2720' of 8" Gravity Sewer.

COMPLETED PROJECTS:

WATER TANK PAINTING

The Willisburg, Wesley Chapel, and Old E-Town water tank painting projects have been completed at a total cost of \$422,930.22 and funding was provided from a KIA Grant from the 2021 Cleaner Water Funds.

ARMORY HILL WATERLINE RELOCATION

The SWSC relocated the waterline around the bridge at the bottom of Armory Hill in preparation for bridge replacement by the Kentucky Transportation Cabinet. The KYTC reimbursed SWSC for the \$91,780 cost for that project.

SANITARY SEWER HYDRAULIC STUDY AND PUMP STATION ASSESSMENT

Work has been completed on the Hydraulic Study and PS Assessment and SWSC awaits the final reports to determine next steps. These engineering studies were funded by Grants from "Cleaner Water" funds and cost approximately \$75,000.



COMPLETED PROJECTS: (CONT.)

DANVILLE INTERCONNECT

Weddle Enterprises, Somerset, Ky, has completed the Danville Interconnect Project. This is a permanent connection to Danville Water and will allow purchase of treated water from Danville when necessary.

The total cost of the project was approximately \$4,250,000 and was funded with an EDA Grant, Rural Development (RD) Loan, Kentucky Infrastructure (KIA) Loan and local funds.

Once Danville completes their line work from their new tank near Perryville to the SWSC line, it will be functional and able to take water.

LEBANON EMERGENCY CONNECTION

SWSC has substantially completed a connection to Lebanon Water Works, along Route 55, for emergency purposes. This project cost \$1,150,000 and was funded with EDA Grant monies from the Danville Interconnect project.

FUTURE PROJECTS:

BY-PASS SEWER TRUNK LINE.

A future benefit of the relocation of the City Barn Pump Station is the possibility of a sewer trunk line on the south side of the bypass between 555 and Lincoln Park Road. This project would cost approximately \$1,000,000 and include 4400' of twelve" gravity sewer and would allow the removal of the High School and Tingle Lane Pump Stations. This gravity line would also accommodate future development north of the bypass along that corridor.

DOWNTOWN SEWER REPLACEMENT

The City of Springfield has a planned and future downtown sidewalk replacement project. That project also includes the replacement of several feet of old sewer lines along Cross Main and Main Street that are under the existing sidewalk. Kentucky Transportation Cabinet TAP funds are funding that project.

WATER TANK

Recently received news of a federal appropriation from James Comer's office of \$1,000,000 for the addition of a water tank in the water system.

WATERMAIN REPLACEMENTS - PRIORITY 3 & 4

As a continuation of Priority 1 and 2 replacements, funding is being sought for the Priority 3 and 4 portions of the watermain replacements and additional plant improvements. The expected total cost of this project is approximately \$8,000,000.

SEWER COLLECTION REHABILITATION

SWSC has conducted flow monitoring and pump station monitoring throughout its system over the past 6 months. The results from the flow monitoring will be used to cost effectively tackle inflow and infiltration removal from the collection system. SWSC wishes to focus its rehabilitation efforts in the sewershed that has the highest concentration of I/I as a Phase I Project. Future phases will tackle the remaining basins. Various methods of rehabilitation will be implemented, such as dig and replace, pipe lining, pipe bursting, manhole replacement, and more.

