

The Flow

Springfield Water & Sewer Commission
Volume 1, Issue 2



Danville Interconnect

The City of Springfield received funding in 2020 through the Economic Development Agency and USDA Rural Development to design and build a new 12-inch interconnect water line between Springfield and Danville. The new water line will start near the Washington/Boyle County line on KY 150 and run approximately 21,500 linear feet along KY 150 to the west side of Perryville.

Several water system upgrades will also be a part of the project within Springfield's system to improve its operation. These upgrades include the elimination of several dead-end lines, improvements to water disinfection operations, and system-wide SCADA upgrades. The water supplied by Danville through the new interconnect line will supply four of Springfield's pressure zones: Wesley Chapel, Simmstown, Mackville, and Willisburg. Construction is expected to begin on this project before the end of 2022.

Bell Engineering of Lexington is the project engineering firm.

Water Tank Painting

The SWSC intends to advertise bids soon, for the repainting of the Willisburg, Old E-town Road and Wesley Chapel water tanks. This is being funded by a 21SB036 Cleaner Water Program (FY 2022) grant in the amount of \$320,000 and hope to complete the work this fall.

In addition to painting, mixers will be installed in the tanks to maintain high water quality in the system.



Bloomfield Road (KY 55) Waterline Relocation

Design has been completed for (2) short waterline relocations on Bloomfield Road in preparation for the future project, by the Kentucky Transportation Cabinet, to widen the road. The waterline relocation will be done by a SWSC contractor this fall and ahead of the eventual road construction.

Design was completed by Abbie Jones Consulting, Lexington, Kentucky.



RECENTLY COMPLETED PROJECT: Waste Water Treatment Plant

The WWTP upgrade was completed in early Spring after 2 years of construction thru the pandemic. The \$15M upgrade included (3) new Sequential Batch Reactors (SBR) that receive the waste flow, introduce mixing, aeration, settlement and biological reaction time. Then, clean water is removed, treated further, disinfected, and finally discharged to the creek.

The remaining sludge is then sent through a dewatering process in a centrifuge where the material is separated by removing the water and then the dried sludge is landfilled.

Prior to the upgrade, the WWTP had a treatment capacity of 880,000 gallons per day. The upgraded design capacity is 1,300,000 gallons per day.

The upgrade also included office, lab, chlorine contact chamber, sludge holding and other appurtenances necessary to treat sanitary sewer according to EPA and Division of Water requirements and regulations.

Splash Pad Sewer Lateral

The City of Springfield has proceeded with a contract to construct a Splash Pad at Idle Hour Park and this requires some work related to sewer construction. The SWSC will design and construct an approximate 400' long 6" sewer lateral that will take the sand filter backwash water to the nearest sanitary sewer manhole in order to convey this water to the wastewater treatment plant.

This construction should happen this fall. The sewer project is being designed by Abbie Jones Consulting, Lexington, Kentucky.

Armory Hill Waterline Relocation

Once it became apparent that the bridge at the bottom of Armory Hill would possibly be re-built after its closure, the SWSC was tasked to relocate the existing waterline that is in the very close proximity to the bridge. Design is underway to replace the existing 8" Cast Iron water line with 8" PVC.

This is being funded by a 21SB036 Cleaner Water Program (FY 2022) with a \$124,202 grant. Once the bridge replacement schedule is determined, the waterline relocation will be performed ahead bridge construction. Design is underway by Abbie Jones Consulting, Lexington, Kentucky.

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Springfield Water & Sewer
Commission

603 West Main Street
Springfield, KY 40069

859-336-5454

service@springfieldwater.org

www.springfieldwater.org

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