

# PWWSD 25 Making Progress to Complete Construction



**P**ublic Wholesale District No. 25 is a new public wholesale water district that consists of the combining of Douglas Rural Water District No. 5 located south of Clinton Lake and Osage Rural Water District No. 5 based in Overbrook. The two districts together cover 290 square miles and deliver water to approximately 2790 services in Osage, Franklin and Douglas counties in northeast Kansas.

The following six firms are contractors on the project:

- ◆ Crossland Heavy Contractors, Kansas City, MO is constructing the water treatment plant, lagoons and demolition site work for \$8,968,586
- ◆ Cahoy Pump Services, Inc., Sumner, IA, is working to drill four wells, at three different sites at a cost of \$227,905

This 300,000-gallon storage tank was constructed by Great Plains Structures, Vadnais Heights, Minn.

- ◆ Great Plains Structures, Vadnais Heights, MN, submitted a successful bid of \$747,965 for the storage tank and standpipe
- ◆ MConn, LLC, Wathena, KS is installing the 14-inch and 16-inch transmission mains at a cost of \$3,199,011
- ◆ Ditch Diggers, Salina, KS, is installing the 12-inch transmission main; their bid price was \$3,228,350
- ◆ Banks Construction, Holton, KS, is constructing the 10-inch and 6-inch raw water line and 8-inch transmission main, the electrical and booster pump station, metering station and driveways at a cost of \$1,664,725.

With six contractors working on the project, there have been some challenges and difficult times. The weather has also impacted the construction. A mild 2017 winter helped with the clearing of the old farmstead and preparation for the water treatment plant site. On April 18, 2017 the "Notice to Proceed" was given and in May, Banks Construction, Ditch Diggers and MConn, the three waterline contractors, began work and Crossland Heavy Contractors, Kansas City, MO began construction on the water treatment plant site. Rain may come and rain may go but for some reason Douglas County got its fair share of moisture in 2017 hampering some of the construction work. In August, the area received nine inches of rain; most of the areas under construction were flooded. Another four inches of rain came in September and rainfall in October totaled another five inches. At the time of this writing in mid-January, approximately 60 percent of the water distribution system had been installed.

All of the district's four wells are being installed by Cahoy Pump Service in the Kansas River Basin. The water treatment plant is a high velocity DensaDeg lime softening plant followed by ultrafiltration. The DensaDeg walls are 12-inches thick at the base and this is due to the basins being above grade and needing to hold water. An on-site lab, operator office, break/restrooms, shower room, and a storm shelter are also located in the plant. The water treatment plant will initially produce approximately one million gallons per day (MGD). Plant operation is estimated for start-up in mid-summer 2018.



**This photo shows the immense amount of reinforcing bar that was installed in the flooring of the water treatment plant.**

The one million gallon storage tank is located on the same site as the treatment plant. The finished water tank will have baffle curtains inside to increase the chlorine contact time, if needed in the future. The 300,000-gallon standpipe is for equalization storage in the middle of the system and is located a half mile east of Hwy 59 & 650th Road exit. Both tanks are of factory glass coated bolted steel and were erected by Great Plains Structures, Vadnais Heights, MN.

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Public Wholesale District No. 25 will treat groundwater from new wells southeast of Lawrence. The project includes the one million-gallon storage tank shown at left and the water treatment plant. The plant will use lime softening followed by ultrafiltration.

the primary funding agency with a loan of \$16,949,000. Bartlett & West, Inc., Topeka, KS serves as the design consultant for the project. Soelter Services Group, LLC, Baldwin City, KS is providing the construction observation inspectors.

PWSD 25 has spent approximately \$12,615,041 of the \$19,878,195 financing through Kansas Department of Health and Environment Public Water Supply Loan Fund. The district will receive a 30 percent principle forgiveness on the construction phase for promoting a regionalization project. USDA Rural Development will serve as

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*Rita Clary's focus at KRWA is providing assistance with applications for funding for cities and rural water districts. Rita gained extensive municipal experience working at the city of Troy, Kan. for eleven years prior to joining KRWA in 2009. She is a certified EMT and served as the Ambulance Director for two years and supervised the volunteer staff at Troy. She has worked on or completed most water and wastewater utility reporting requirements.*



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