

# Memorandum



Date: June 24, 2019

To: City of Olathe Planning Commission

From: Burns & McDonnell Engineering Company

Subject: Statement of Purpose – WaterOne K7/K10 Elevated Tank

The Water District No. 1 of Johnson County Kansas (WaterOne) 2008 Master Plan indicates the need for additional storage and pumping facilities to convey water from the Crouthers System to the South Booster System. The pumping portion of the improvements, the Wyss Pump Station, has already been put in service. A site selection study for the additional elevated storage was completed (Black & Veatch, 2011) and identified the southeast quadrant of the Highway K-7 and Highway K-10 Interchange (K7/K10) along a 48-inch transmission main as the most feasible and hydraulically appropriate location for the 2.0 million gallon (MG) elevated storage tank.

The K7/K10 Elevated Tank is located in the south-western portion of the Crouthers System and will provide additional operational and emergency storage on the system supplementing the existing 2.0-MG Elevated Tank located on Renner Road near Eicher Dr. The K7/K10 Elevated Tank will provide backup for the Renner Elevated Tank to allow for scheduled painting and maintenance, and unscheduled shutdowns of one of the elevated tanks (Black & Veatch, 2011).

The tank will connect to the distribution system along the existing 48-inch Hedge Lane Pump Station Transmission Main and will fill and draft hydraulically. Site development includes yard piping and associated valve vaults, stormwater drainage improvements, landscaping, and security fencing. Required obstruction lighting will be provided to conform to FAA requirements.

Please contact Sarah Tuite, P.E. at Burns and McDonnell at 816-822-3225 or [stuite@burnsmcd.com](mailto:stuite@burnsmcd.com) if any additional information is required.