

**FOR PROVISION OF ENGINEERING SERVICES FOR ELECTRICAL,
MECHANICAL AND PROCESS UPGRADES AT DAVIS ROAD BOOSTER
STATION
P-497-12**

The Consultant shall provide Engineering Services for the Electrical, Mechanical and Process Upgrades to the Davis Road Booster Station.

The engineering services required for this project will generally consist of a hydraulic & process operational analysis, equipment condition assessment, preliminary design, detailed design, contract administration, start-up, commissioning and training for various electrical, mechanical and process upgrades to the Station.

The scope will include, but is not limited to, providing Design, Commissioning and Contract Administration Services for the replacement or repair of existing 4.16kV switchgear, high voltage transformer, three potable water pump motors, an emergency generator emission stack and the refurbishment or replacement of up to three potable water pumps and other miscellaneous and associated electrical and mechanical works.

The scope will also include conducting detailed hydraulic and process operational analyses of the station and its pumping components and completing a follow-up condition assessment to validate findings of a Capital Needs Assessment conducted in 2007. The Consultant shall use these findings to make recommendations on the refurbishment vs. replacement of up to three of the potable water pumps as well as various other mechanical, HVAC and instrumentation equipment. The Consultant shall also investigate the installation of a Variable Frequency Drive to meet or improve operational demands.