

## DEEP PUMP STATIONS

Construction of deep pump stations can present many **unique challenges** that must be addressed prior to beginning construction. Our crews have faced these challenges on many past projects. They are aware of the **special construction techniques** involved with **deep excavations**. Don't take chances when it's time to build your new pump station - call on Robinson's expertise to ensure the job is done right.



Construction of deep pump stations often requires special construction techniques such as the need for sheet piling, bracing, dewatering, rock removal, sloping, mud mats, and seal courses.

Dewatering is often necessary when excavating a deep pump station. We have constructed cofferdams on many projects to dewater the area prior to beginning construction of the pump station. Engineering and design of cofferdams is accomplished by Robinson's staff of registered professional engineers.

Often the new pump station is to be built on a site that is less than ideal because of space constraints. Careful planning to address protection of existing utilities, storage of excavated materials and construction materials, and traffic flow on site are very important.

Pump stations are generally built in low lying areas in wet, silty, unstable soil. Our crews are experienced with installing structural pilings to support the facility. We have also used compaction grouting to improve the soil so it can support these facilities.

Once the foundation for the pump station has been stabilized, our crews proceed with the rebar, concrete, pumps, and piping. Our 30+ years experience in the water and wastewater treatment plant construction business has given our crews the tools and knowledge needed for the work ahead.

With so many critical issues to consider, why take chances when it's time to build your pump station? With our unique ability to self-perform cofferdams, dewatering, pilings, concrete, and mechanical work, you can rest assured that your job will be done right - from start to finish.

*"This particular project consisted of four new wastewater pumping stations, which were adjacent to existing stations, 15,775 lineal feet of force main, and 1,509 lineal feet of gravity sewer. This contract involved difficult construction of concrete wet wells, submersible pumps with controls, and emergency generators. All work was carried out in a professional manner and with excellent coordination between Robinson, their suppliers and subcontractors."*

Jacobs Engineering, Inc. - Lift Stations & Force Main Project - Cape Girardeau, MO

