

# Sewage Lift Pump Replacement Parsons State Hospital and Training Center – Parsons, Kansas

## Kansas Division of Social and Rehabilitative Services

The existing sewage lift pumps in three of the buildings at the Parsons State Hospital & Training Center were unreliable, inefficient and noisy. Due to the location of the gravity sewer mains being above the basement levels of these buildings, the proper and continuous operation of these pumps is critical to the occupancy of these facilities. The duplex pumps and sewage sump in each of these buildings was original to its construction and were approximately 30 years old.

Using information obtained from the data plates on the existing pumps, **DRG** engineers were able to gather critical information from the original manufacturer regarding sump sizes, cover plate opening dimensions, pumping capacities, and piping configurations. New pumps were then specified that were a direct bolt-on installation, thus reducing down time for construction. The construction work was also specified to be performed overnight in Spruce Cottage and the Education Building and over a weekend in the Research Building, thereby not causing any disruption in the on-going operation of these buildings. As part of the replacement work, the sumps were also specified to be cleaned of all solids, power washed, and vacuumed out prior to the start-up of the new pumps. Startup of the pumps was performed by a factory-authorized representative. The design also called for all new controls to be installed. Features of the new controls included tethered floats, duplex lead lag pump control, overload protection, automatic alternating of pumps, hour meters, and built-in high level alarms.



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