

CLIENT CONTACT

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PROJECT MANAGER

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CONSTRUCTION COST

\$1,234,400

YEAR COMPLETED

2009



APWA AWARD WINNER

VILLAGE OF BRIDGEVIEW, IL

Water Pump Station Improvements

Robinson Engineering, Ltd. (REL), in conjunction with the Village of Bridgeview and the Illinois Environmental Protection Agency (IEPA), was contracted to modernize Bridgeview's only potable pump station. The pump station was built in the 1950's and was due for an upgrade. Robinson Engineering proposed installing five (5) new 2,000 GPM pumps, variable speed drives, standby generator, Supervisory Control and Data Acquisition (SCADA) system and chlorine room modifications.

The challenge Bridgeview faced was that it had only one pump station and it was necessary to keep it 100% operational during the modernization of the pump station.

KEY DESIGN CONSIDERATIONS

- Installation of five 2,000 GPM pumps, which increased the firm capacity of the pump station to 11.52 MGD
- The Village received a 4.3 MGD increase in the pumping capacity with the completion of the project
- Pipe gallery was designed for future expansion
- Installation of a backup generator
- Installation of a new motor control system for the entire pump station
- Installation of a new Supervisory Control and Data Acquisition (SCADA) system to monitor and operate the water system

PROJECT RESULTS

- Pump station has a firm capacity to 11.52 MGD
- Backup power is available in the event of power outage
- Pump station has the capacity to service surrounding community with water if necessary
- SCADA system monitors the water system
- The new pump station can easily and cost effectively be expanded if the need for more water capacity arises