

MAHANTONGO ELEMENTARY SCHOOL PROJECT

Tri-Valley School District

KLINGERSTOWN, PA

The project at Mahantongo Elementary School was a renovation project, and as with most renovation projects, presented several challenges over a completely new construction project.

The renovation required a complete new domestic water service, the centerpiece of which is an Duplex Alyan Domestic Water System with two (2) 50 GPM – 3 HP pumps. This pump system is fed by the large white 1000 gallon Stanwade Metal Storage tank pictured on the left in the photo below. Inside this tank is a level control system that needed to be connected to and control the existing well pump for the school, as well as the new chlorination pump, while also providing a tie-in to the new booster system for low level cut-off.

The Alyan Duplex Domestic Water Booster System is able to boost the water pressure in the school from atmospheric pressure in the vented tank (1 psi) and maintain a constant pressure throughout the school of 55 psi, ensuring adequate water pressure to the kitchen, lavatories, mop sinks and all fixtures in the building.

The system contains several standard alarms and features, such as proof-of-run for each pump, high system shutdown, low system as well as low-level alarm which ties into the well-pump control panel. Both the booster system and well pump control panels were built to the project engineer's design requirements by Boulay Fabrication in LaFayette, NY.

