



Project Profile

*...providing
clean, safe,
drinking water*

Warren Pressure Reducing Vaults City of Warren, Michigan

The City of Warren, like much of Southeastern Michigan, receives its drinking water from the Detroit Water and Sewer Department through a system that has been in existence since the early 1900's. Warren has twelve direct connection lines to the DWSD system with no way to control the water pressure traveling through the lines. The uncontrolled pressure and the aging system led to frequent water main breaks.

A study of the water system concluded that installation of pressure reducing vault (PRV) stations would significantly reduce main breaks and control the water pressure. The City selected AEW to provide survey and design services for installing three pre-manufactured PRV stations and to provide construction observation for the duration of the project.

During the design phase of the project, AEW was able to keep property purchases and utility relocations to a minimum thus limiting system shutdowns during construction at the City's request. AEW worked with the City to select manufacturers that could supply customization plus offer technology that would give the most flexibility in running the system. The new technology will allow Warren's DPW office to monitor and access data at the stations electronically from its office or locally at the station.

Currently under construction, and estimated to be completed in December 2008, these projects have a combined construction cost of approximately \$1,600,000.



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