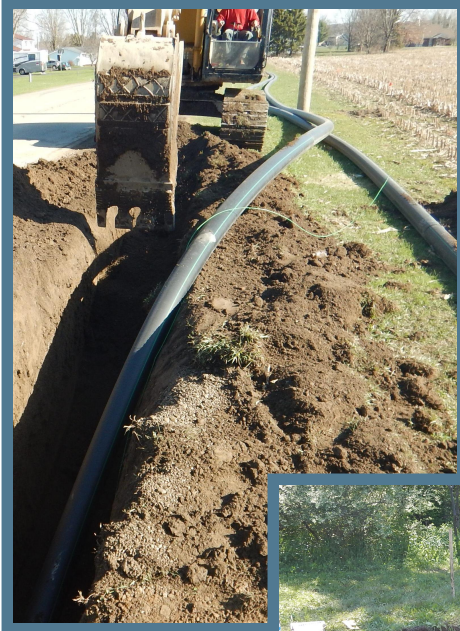


Lime Lake Sewer District - Force Main



Location: Machias, NY
Project Budget: \$12,045,000
Force Main Portion: \$ 3,300,000
Completion: 2018

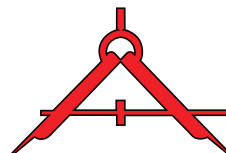
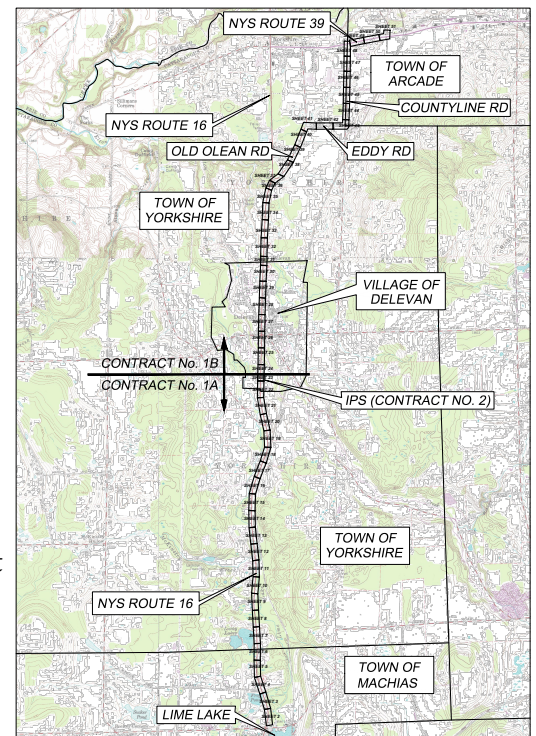
Horizontal Directional Drilling (HDD) is often used for pipeline installation

The Lime Lake Sewer District Project included a 7.5 mile force main and intermediate pump station to convey the wastewater from the new sewer district to the wastewater treatment plan of the Village of Arcade. MDA Engineers designed this force main and provided services during construction.

The force main consisted of 6" high density polyethylene (HDPE) piping. All pipe and cleanout assemblies were constructed with fused joints. This design eliminated slip joints with gaskets and provided a completely restrained piping system.

The force main was constructed under two separate contracts to accommodate the tight construction schedule requirements for the project. Construction began in late March of 2018 and the force main was ready for service by the first week of July of 2018. The design and construction used a combination of open cut installation as well as HDD installation. This also allowed more work to be completed at the same time by diversifying the types of crews that could work on the project. During the construction phase, there were as many as two open cut crews and three drilling crews working at one time.

HDD also minimizes the impact of construction in sensitive areas that are near freshwater wetlands as well as in congested areas that would be expensive to restore after an open cut installation.



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