

Customer: Waste Water Treatment Facility

Location: Rochester, NY

Specialist: Mike Gianetti

System/Product: Steel Pipe Replacement

Date Installed: 2017

The Challenge

A Waste Water Treatment Facility had to upgrade an aging 16" Diameter Carbon Steel Screen Effluent pipe. The pipe was failing due to corrosive attack and buildup on the ID. The Engineer tasked with the solution to replace the steel pipe had success in other parts of the plant with FRP pipe supplied by CPE.

The Proposal

CPE reviewed the application.

One of the challenges was the pipe had to have an unsupported span capability of 31 feet.

CPE's technical staff designed a 16" diameter FRP pipe that could span the 31 feet from the de-gritter building to the center of the tank without supports.

In collaboration with CTI, a field crew division of CPE provided the Owner a turnkey proposal to design, manufacture, supply, deliver and install the 16" diameter FRP pipe.





SERVICE SYSTEMS SOLUTIONS

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The Results

The CTI Field Crew successfully installed and connected the pipe system in two days.

This was important to the customer since a prolonged outage would result in overflow conditions at the plant.

FRP pipe has superior flow characteristics as compared to steel pipe.

As a result, the Engineer is reporting that the new FRP Screen Effluent Pipe will experience flows between 1700 GPM to 2200 GPM and the efficiency of the equipment has increased by 30%.

