

Scioto County Regional Water District #1 Water Storage Tank, Fire Hydrant, Waterline Replacement & Extension South Webster, Ohio



Client/Location

Scioto County Regional
Water District #1
PO BOX 310
Lucasville, OH 45648

Client Reference

Jonathan King
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Scioto County Regional
Water District #1
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Project Status

Complete

Dates of Service

Design – 2016
Construction – 2019

Special Features

- Access Road Design
- Fire Hydrant
- Waterline Extension
- Waterline Replacement
- EPA Permitting
- Hydraulic Study
- Water Extension
- Telemetry
- Topographic Survey
- Water Tank Design
- AEP Coordination

Project Description

With the rising water supply demands to the South Webster area and insufficient water supply resulting in low pressure, The Scioto County Regional Water District #1 contracted Howerton Engineering & Surveying to design and permit a new 177,000-gallon water storage tank.

First phase of the project was to perform a topographic survey of the proposed tank site along with locate the boundary of the Water 1 property and easement purchased for the construction of the tank and access road.

HES performed a hydraulic study of the entire South Webster area. After reviewing the results, a 22' diameter 61' tall (177,000 gallon) tank was selected to replace the existing 21' diameter 40' tank (100,000) and was elevated 3' higher than the existing tank in order to increase PSI to the existing and future South Webster residents.

HES aided Water 1 in obtaining funding for this project through the Ohio EPA, Ohio Public Works Commission and the Ohio Appalachian Regional Commission.

The project included a waterline extension to create two additional loops in the water system in order to increase water quality, pressure and prevent water outages due to breaks. Over 10,000 linear feet of 8" AWWA C900 waterline was designed to replace/extend the existing water system. The plans include the design of 10 new fire hydrants to replace existing out of date ones and 1 new fire hydrant to be placed near the South Webster Schools.

Plans were completed and submitted to the Ohio EPA for approval.