5788 Widewaters Parkway, Suite 2A
Syracuse, New York 13214
United States
ghd.com

Our ref: 12699514

August 06, 2026

Drew Campany
City of Oneida
109 North Main Street
Oneida, New York 13421

Engineering Services for High Pressure Zone Study and Infrastructure Improvements

Dear Drew

GHD Consulting Services Inc. (GHD) is pleased to provide our engineering services proposal for the subject project.

Background

The existing water distribution system of the City of Oneida consists of more than 60 miles of water mains, with the oldest pipes originally installed in the late 1800s. Pipe materials include cast iron (CI), ductile iron (DI), asbestos cement (AC), and a small amount of high density polyethylene (HDPE). The majority of the system consists of DI and CI pipe. Storage is provided by two 7.5 MG precast water reservoirs (Baker Tanks) and booster pumping of supply to the reservoirs during higher demand periods is provide by the Lake Street Pump Station. There is a single pressure zone in the City water system. Average daily and maximum day demands are 2.2 MGD and 4.0 MGD, respectively.

The area surrounding the Baker Reservoir (Foxwood Terrace and Deerfield Drive) is served by the public water system and has inadequate service pressures. Recommended Standards for Water Works, 2022 (the New York State design standard) requires normal working pressure in the 60 to 80 psi range with no area less than 35 psi. The area around the reservoirs does not meet that minimum. A large residential and commercial development is proposed on vacant property immediately to the east of the Reservoirs, that would also be at an elevation that would produce low pressures if served off the Baker Reservoirs. There are also areas of the City, south of Route 5, that are not served with City water due to higher elevations. These areas include parts of Deerfield and Fairview Avenues, Abes Way, Mt. Hope Avenue, Crescent Avenue, Forest Avenue, Brewer Road, and Vedder Road. As such, the City is seeking an evaluation of the feasibility and approach to create a separate high service zone in the City. A preliminary review of the elevations in the southern area of the City indicates that a single high service zone could not serve the entire area due to the range of elevations (±800 ft to 1300 ft, at least two high pressure zones would be needed), however, a single high service zone can serve the area surrounding the Baker Reservoirs and the proposed development to the east.

We offer the following scope of services:

Scope of Services

1. Attend a project kickoff meeting with the City to review the scope of work, budget and schedule, understand the City's vision and critical success factors for the project and collect available data from the City on water demands, water system facilities and piping and the proposed development.
2. With assistance from the City, estimate projected demands and timing of demands for the proposed development to the East of the Baker Reservoirs, and any other current or future developments that the City would like to plan for the higher elevation areas of the City.
3. Evaluate three alternatives to establish a single high service zone for the City water system.
    a. A booster pump station with small hydropnuematic storage, pressure controlled, with fire pump dedicated to the Foxwood Terrace, Deerfield Drive, and the new development to the east of the Baker Reservoirs.
    b. A booster pump station and small elevated tank to serve the same area as item 3a (with potential expansion to areas south of the Baker Reservoir area.

    For each alternative we would define the capacity and size or pumping, distribution and storage facilities, conceptually layout the facility locations, identify permits required, provide a descriptive basis of design, and an opinion of probable project cost. The City hydraulic model we assembled and calibrated would be used to model service conditions in the extended high service zone and impacts to the low service zone, under average daily, maximum day, peak hour, and fire demands. For the recommended alternative, we would provide a preliminary design and construction schedule.
4. Provide a written discussion of what additional facilities would be necessary and the extent to which additional areas in the southern part of the City, south of the Baker Reservoir area (Fairview Avenue and Mount Hope Avenue) could be served.
5. Identify potential funding opportunities for the recommended improvements.
6. The findings and recommendations of the evaluation will be summarized in a report following the NYSEFC engineering report guidelines, including:
    - Alternative evaluation
    - Site information
    - Service area description
    - Preliminary project schedule
    - Cost opinions
    - Capacity Development Evaluation Form (completed by the City)
    - Smart Growth Assessment
    - Short Lived Asset Form
    - Engineering Certification
7. Submit a draft report to the City for review and attend a virtual meeting with the City to receive City comments on the draft report.
8. Address City comments and issue a final report in electronic format to the City.
9. Present the report to the City Council.

Payments to Engineer

The above scope of services will be performed for a lump sum fee of $27,000.

For this study, we are not anticipating any subconsultants assisting with the effort. We endeavour to make good faith efforts to include minority and woman owned business participation in subsequent phases of the work (design and construction).

Schedule

A draft report will be submitted to the City for review within 90 days of notice to proceed.

Terms and Conditions

The work will be performed under the terms and conditions of GHD's standard engineering services agreement.

We appreciate the opportunity to submit our proposal. If acceptable, we will prepare an engineering services agreement for the work for City authorization.

Regards

Kevin Castro, PE, BCEE
President

+1 315 802-0274
kevin.castro@ghd.com

Copy to: Bryan Malone, GHD
Erica Goldin, PE, GHD