



CITY REVIEW

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Strand Associates, Inc.®

1906 Niebuhr Street
Brenham, TX 77833
(P) 979.836.7937

Task Order No. 22-01
City of Richwood, Texas (CITY)
and Strand Associates, Inc.® (ENGINEER)
Pursuant to Agreement for Technical Services dated June 12, 2018

Project Information

Services Name: Elevated Storage Tank-Preliminary Engineering Report

Services Description: Perform an evaluation of up to six options for a new elevated storage tank (EST) to be constructed in the CITY. Evaluation will include hydraulic modeling to review the size, location, and potential modifications to existing water storage infrastructure. Hydraulic modeling will also be used to evaluate how EST placement and elevation might affect static pressures and fire flow availability. Results of the evaluation will be documented in a Preliminary Engineering Report (PER).

Scope of Services

ENGINEER will provide the following services to CITY:

1. Attend a project kickoff meeting with CITY to review project objectives and schedules, and to request water distribution system information needed for the project.
2. Review CITY-provided water distribution system information, including the CITY's InfoWater system model, system demand data, pump curves, growth projections, and other pertinent material requested by ENGINEER.
3. Review Texas Commission on Environmental Quality's (TCEQ) water infrastructure capacity criteria related to CITY's existing water facilities. Consider current water service connections and CITY-provided growth projections to evaluate additional storage and elevated storage needs in accordance with TCEQ's capacity standards for, five-year, and ten-year growth projections.
4. Review up to three potential sites within city limits and up to two different elevations to construct an EST. Review is anticipated to include an elevation option where the EST is set to match current overflow elevations in the CITY's existing ESTs and an option to raise the EST to increase system static pressures by approximately ten pounds per square inch.
5. Prepare opinions of probable project cost (OPPC) for each alternative.
6. Summarize results in a draft PER and submit to CITY for review. Attend one review meeting with CITY.
7. Prepare final PER in accordance with CITY-provided comments, as appropriate, and CITY selected alternative; and submit final PER to CITY.
8. Attend one city council meeting with CITY to present the final PER and assist the CITY with addressing questions. Presentation is anticipated to include a review of CITY's existing water

TBPE No. F-8405
TBPLS No. 10030000

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supply and distribution infrastructure, CITY-provided growth projections, TCEQ standards for total storage and elevated storage, considered alternatives with OPPCs, and CITY selected alternative.

Compensation

CITY shall compensate ENGINEER for Services under this Task Order on an hourly rate basis a not-to-exceed fee of \$30,000.

Schedule

Services will begin upon execution of this Task Order, which is anticipated the week of January 17, 2022. Services are scheduled for completion on May 31, 2022.

TASK ORDER AUTHORIZATION AND ACCEPTANCE:

ENGINEER:

STRAND ASSOCIATES, INC.®

CITY:

CITY OF RICHWOOD

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Joseph M. Bunker
Corporate Secretary

Date

Eric Hoerster
City Manager

Date