

Agenda Item Details

Meeting	Oct 12, 2021 - Bryan City Council Second Regular Meeting
Category	6. Statutory (Automatic Approval) Agenda - This agenda consists of items previously approved by Council action such as adoption of items that are part of an approved budget or capital improvement projects, first and only readings of ordinances, interlocal agreements, or action that is required by law or delegated to the City Manager. Items may be removed from the statutory agenda for separate consideration at the request of two Councilmembers.
Subject	C. Approval of a professional services contract to CDM Smith, Inc., in an amount not to exceed \$353,533 for the design of the Chick Lane elevated storage tank
Type	Action (Statutory)
Preferred Date	Oct 12, 2021
Absolute Date	Nov 09, 2021
Fiscal Impact	Yes
Dollar Amount	353,533.00
Budgeted	Yes
Budget Source	Water Enterprise Fund
Goals	Service Quality of Life Public Safety Infrastructure Economic Development

Summary:

In keeping with the City's long-range planning efforts, Water Services staff recommends the City Council approve this professional services contract to CDM Smith Inc. for the design and inspection services of an elevated storage tank to be located on Chick Lane. On June 12, 2018, the City Council approved the purchase of a 3.93 acre tract out of the Edgewater Phase 3 development for a cost of \$112,005. This tract has a 24-inch waterline going through the site on two sides and is near the highest elevation point in the area on this side of town. The ground elevation and the existing infrastructure make this site ideal for a new water tower location. Although the site is near Easterwood Airport, the FAA (Federal Aviation Administration) made a Determination of No Hazard to

Air Navigation in April 2020 based on the projected location and height of the proposed elevated storage tank.

Recently, City staff completed a water masterplan evaluation of the City's water system. This evaluation included looking at future waterline needs to undeveloped areas, fire flow needs within Bryan, and future pumping and storage capacity needs at the City's water production facilities. Chapter 290 of the Texas Administrative Code provides requirements on storage and pumping needs. To summarize, the City's system must supply a total of at least 100 gallons per connection of elevated storage and 200 gallons per connection of total storage.

In addition to the required storage, the amount of storage influences how much pumping capacity is required by the system. If 200 gallons per connection of elevated storage is provided, a pumping capacity of only 0.6 gpm (gallons per minute) per connection is required. If the elevated storage volumes are less than 200 gallons per connection, a pumping capacity of 2.0 gpm per connection is required or the ability to meet peak hour demands with firm pumping capacity.

Currently, the City has 4 million gallons of elevated storage and 10 million gallons of ground storage. The current elevated storage of 4 million gallons allows us to meet the 100 gallons per connection out to year 2030 based on projected growth. The total storage of 14 million gallons allows us to meet the criteria of 200 gallons per connection for total storage out to 2060 based on projected growth. Our current elevated storage volumes are less than 200 gallons per connection, thus requiring 2.0 gpm in pumping capacity. Staff recommends adding the Chick Lane elevated storage tank at 2 million gallons, which will satisfy the elevated storage tank requirement at 100 gallons per connection out to 2060.

Staff also will evaluate the addition of another high service pump to meet the pumping capacity of 2.0 gpm per connection. As the west side of Bryan develops, additional elevated storage will be needed. The masterplan identifies potential locations that can be used as a guide to secure those sites.

Staff recommends awarding the professional services contract to CDM Smith Inc. for the amount not to exceed \$353,533. The funds to build the elevated storage tank will be in a future debt issuance. Approximately 7-8 months are needed to design the project and 15 months to construct the storage tank. This professional services contract for design and inspection services has a termination date of December 15, 2023. The cost of this design was budgeted in the FY2022 Water Fund at \$350,000.

Staff Analysis and Recommendation:

Staff recommends the City Council approve the professional services contract to CDM Smith Inc. for the design and inspection services of the Chick Lane elevated storage tank. This elevated storage tank is needed to meet demand and future growth needs for the City of Bryan.

Options:

1. Approve the contract as presented
2. Select another vendor to provide the design, which may require consideration at a future City Council meeting
3. Provide direction to staff

Attachments:

1. Site location
2. Design contract with scope
3. Plat of property
4. Possible layout of site

Attachment_1_LocationMap_ChickLaneSite.pdf (495 KB)

Attachment 2_Chick Lane - Design Contract - CDM_FINAL.pdf (455 KB)

Attachment_3_Chick Lane Plat.pdf (580 KB)

Attachment_4_CHICK LANE EST- Layout.pdf (4,631 KB)