

STAFF REPORT



SUBJECT: Airport Pump Station, Ground Storage Tank, Transmission Pipeline Design
DEPARTMENT: Public Works
STAFF CONTACT: Nick Williams

RECOMMENDATION:

Staff recommends entering into a professional services agreement with Provenance Engineering for the phase one final design services for the Airport Pump Station, 1MG Ground Storage Tank, and the 536 Well Field Transmission Pipeline.

BACKGROUND:

The existing 750,000-gallon Paddock Ground Storage Tank, originally constructed in 1923, was evaluated and showed signs of structural failure. Decommissioning of the Paddock Tank is recommended in the master plan with a replacement tank installed at the Airport Pump Station in preparation for development of the 536 Well Field. The improvements provide the long-term solution, include a new pump station, and increase storage capacity by 33 percent.

PROPOSAL:

Attached to this report is a professional services proposal from Provenance Engineering to provide plans, detailed technical specifications for the pump station and one million gallon ground storage tank located at the existing Airport Pump Station. The proposal also provides for the design of the 16-inch diameter raw water transmission pipeline for the 536 Well Field.

The proposal provides the design services for the mechanical, electrical, chemical feed, piping, and instrumentation for the pump station. The proposal also provides for the design and geotechnical analysis of the one million gallon, cast-in-place, concrete ground storage tank. Additionally, the proposal includes the alignment, materials, and connection designs for the 16-inch diameter raw water transmission pipeline for the 536 Well Field.

The proposal indicates the phase one Design Services will be complete on an 8-month timeline.

The proposal also provides budgetary cost and time estimates for the later bidding and construction phase services. Bidding and construction phase services may be approved in writing only through council authorization.

FISCAL IMPACT SUMMARY:

The agreement provides phase one services for the preparation of construction drawings and detailed specifications for \$278,500.

The approved FY 2020-2021 budget allocated \$200,000 for the professional services for the design of the pump station and ground storage tank. The approved budget also allocated \$78,500 for the design of the transmission pipeline.

ALTERNATIVES:

The following alternatives are provided for consideration:

1. Delay the design of the transmission pipeline.
2. Recommend a different firm or firms.

ADVANTAGES:

Approval of the proposed agreement remains within the approved project budgets.

DISADVANTAGES:

There are no known disadvantages to proceeding as described above.

ATTACHMENTS:

[Airport PS GST Pipeline – Professional Services Agreement](#)