



CITY OF FERNLEY

CITY COUNCIL

AGENDA REPORT

Meeting Date: November 3, 2021

REPORT TO:	Mayor and City Council
REPORT THRU:	Derek Starkey, City Engineer
REPORT FROM:	Salvador Pleitez, P.E Senior Project Manager
REVIEWED BY:	Brandi Jensen, City Attorney
REVIEWED BY:	Denise Lewis, City Treasurer

FINANCIAL IMPACT: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>	CURRENTLY BUDGETED: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>	FUND/ACCOUNT: 520-166100
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ACTION REQUESTED: <input checked="" type="checkbox"/> Consent <input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution <input type="checkbox"/> Motion <input type="checkbox"/> Receive/File

AGENDA ITEM: Possible action to approve a contract with Shaw Engineering to provide Analysis, Design and Construction Administration for the proposed rehabilitation of the West Lift Station Project in the amount not to exceed \$75,600.

Business Impact (per NRS Chapter 237): <input type="checkbox"/> A Business Impact Statement is Attached. <input type="checkbox"/> A Business Impact Statement is not required because this is not a rule (term excludes vehicles by which legislative powers are exercised under NRS Chapters 271, 278, 278A, or 278B).
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Agenda Item Brief: Staff is seeking approval to execute a contract for the Design and Construction Administration Services of the upcoming Rehabilitation Project at the West Lift Station. Shaw Engineering has helped the city with the design of various lift stations and other sewer related projects.
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See attached report for background, analysis, alternatives.
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RECOMMENDED MOTION:

“I move to approve the contract with Shaw Engineering in the amount not to exceed \$75,600.00 for the Design, Project Plan and Specifications Preparation, and Construction Administration Services for the proposed improvements to the West Lift Station.”

ALTERNATIVES:

The Council may decide not to approve the consent motion and provide direction to the City Manager and staff on how to proceed with the improvements needed at this facility.

PROJECT SUMMARY:

The West Lift Station as presently configured, is capable of pumping present flows, but two factors make the rehabilitation necessary. 1. The concrete in the current wet well, manholes and bar screen have pitted and deteriorated and are in need immediate repair. 2. Increasing population dictates that the wet well and pumps be increased to meet ultimate future flows. The last time this Lift Station was upgraded was in 2009 when the electrical components and pumps were upsized to meet increasing flows at that time.

The contract would allow the Engineering Department to utilize the services of Shaw Engineering, a very experienced firm and part of our Qualified Professional List for the 2018-2020 period. The proposal from Shaw Engineering includes topographic survey to gather invert elevation data, the hydraulic analysis to determine upsizing the current pumping system to meet projected future city flows, the design of a new wet well, design a bypass valving system, and upgrade electric and SCADA and control integration, project inspection during construction, reviewing all technical and material submittals by the contractor, reviewing and recommending change orders, reviewing and approve all shop drawings, record drawing management, commissioning and startup.

BACKGROUND:

The West Lift Station pumps sewer flows conveyed from the Tributary areas labeled in the 2009 Sewer Master Plan Update identified as Phase 3 improvements consisting of flows identified in said master plan as: West Plant 1, West plant 2, The City’s Water Treatment Plant, Love’s and Pilot Area. These tributary flows combine for a total 1,437 GPM Maximum Ultimate Design Flows in the above-mentioned study. The upgrade identified in the 2009 Sewer Master Plan Update call for an increase of the pumps to an ultimate discharge rate of 1500 GPM. After this upgrade, the lift station should only require periodic maintenance, but the pumps and electronic systems should not require upsizing.

ANALYSIS:

Staff recommends that the city proceed with this contract. Shaw Engineering has performed several designs and upgrades to various lift stations in Fernley and is fully qualified to design and monitor construction of the proposed appurtenances.

FINANCIAL IMPLICATIONS:

The funding for this Construction Project was approved previously by the City Council for the 2021/2022 Budget and has been included in the current budget for fiscal year 2021/2022. The funding will be financed from the Sewer Enterprise Fund under item 520-166100.

ATTACHMENTS:

- 1) City of Fernley Standard Contract- Schedule A
- 2) Shaw Engineering Proposal