



CITY OF FERNLEY

CITY COUNCIL

AGENDA REPORT

Meeting Date: October 7, 2020

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| 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 |

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| 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 |
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AGENDA ITEM: Staff Report: Possible Action to award a Contract for Construction for the FY 19/20 Villa Way/ Radon Court Sewer Main Replacement Construction, Sierra Nevada Construction, Inc. in an amount not to exceed \$329,007.00, plus a 10% contingency of \$32,900 for a Total of \$361,907.

Business Impact (per NRS Chapter 237):

A Business Impact Statement is Attached.

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).

Agenda Item Brief: Staff is seeking approval to execute a contract for Park Villa Way/Radon Ct Sewer Main Replacement Construction. Sierra Nevada Construction, Inc. was the qualifying apparent low bidder at the Project Bid Opening. The major work items include but are not limited to: Remove and Replace 6 Each 48" manholes; Remove and Replace approximately 960 L.F. of 8" concrete main with 8" SDR 35 Sewer Main and associated construction activities.

See attached report for background, analysis, alternatives.

RECOMMENDED MOTION: “I move to approve the contract with Sierra Nevada Construction, Inc. in the amount not to exceed \$329,007.00 for the Villa way/Radon Ct. Sewer Main Replacement Construction.

ALTERNATIVES:

City Council could choose not to award and wait for a complete failure of the existing damaged and spalling concrete sewer main. Sewer main failure would mean sewer back up into existing homes and much additional cleaning up costs. The existing sewer main could not possibly take another year due to already missing section of sewer line and occurring root intrusion.

PROJECT SUMMARY:

Staff advertised the Project in the Reno Gazette Journal, the Mason Valley News. The start date of Advertisement for RGJ and MVN was August 2, 2020. Staff opened bids on August 26, 2020. The list of bidders and total bid prices for the Project are included in Bid Tabulation Report by Resource Concepts, Inc. (RCI) our engineering Consultant, referenced below as Attached Information, Item No. 2.

After reviewing the bids and conferring with the City’s Project consultants (RCI Engineering), staff recommends following the recommendation by RCI and awarding the Contract to Sierra Nevada Construction, Inc.

BACKGROUND:

The City of Fernley is currently experiencing moderate to high incident of pipe and facilities deterioration due to a combination of root intrusion and methane gas build up into the existing pipe system at various locations. Most of the pipe and structures being affected are the ones made of transite pipe (concrete). Transite was a highly recommended choice of pipe material during the 1980’s due to its durability and strength. Installed in sewer, however, where methane gases tend form rather easily, results in making the crown of the pipe susceptible to deterioration and spalling. The pipes at the Villa Park area are exhibiting spalling in addition to large root intrusion. It is anticipated that some portion of this transite pipe will be replaced with pvc pipe every few years in addition to replace or condition manholes with some corrosion inhibitor membrane.

The city’s sewer crew have been monitoring and serving an active role in treating the pipe system to eliminate roots blocking the sewer flow within the pipe system and utilizing a camera to closely record the amount of spalling in the sewer system. These videos have been analyzed by the engineering department to determine the extend of the pipe replacement project at this time. It is anticipated that the rest of the sewer pipe system in this mobile park will last another 5 years before replacement but monitoring via video every two years should provide a good preventive program.

The proposed pipe replacement program in this mobile park area will avoid possible sewer back up and thus prevent potential damage to sewer customers property and costly clean ups. The streets in this mobile park are narrow and will present some challenges during construction, but both city personnel and the contractor will work together to minimize the disruptions to residents.

ANALYSIS:

Staff highly recommends that the city proceeds with this proposed pipe replacement project to avoid further deterioration of the system and possible failure of the pipes that would require higher cost by having to be replaced during a system failure.

FINDINGS:

The city's crew close monitoring of this pipe system identified unusual pipe deterioration and the acquisition of the camera and video equipment paid off in making it possible to recommend the current sewer pipe replacement project prior to complete failure.

LEGAL IMPLICATIONS:

Replacing the deteriorated pipe system avoids resident's problems. Taking a pro-active approach will avoid costly clean up and unhappy customers and possible litigation brought up due to sewer malfunction.

FINANCIAL IMPLICATIONS:

This project was originally approved during the Fiscal Year 2019/2020, but plans were not ready, so it was approved again in the Fiscal Year 2020/2021 from the Sewer Enterprise Funds for the total of \$385,000. Special circumstances with narrow streets and associated pumping during the construction period to maintain service to all local residents being affected by this construction have brought up total construction (\$361,907), testing and inspection cost (\$48,700) bringing the total to \$410,607. Additional funding of **\$25,607** need to be authorized from the Sewer Enterprise Fund to complete this project.

ATTACHMENTS:

- 1) City of Fernley Standard Contract- Schedule A
- 2) Letter of Recommendation by RCI and Bid Tabulation Report- Schedule B