



MEMORANDUM

P.O. Box 4100 ♦ FRISCO, COLORADO 80443

TO: MAYOR AND TOWN COUNCIL
FROM: JEFF GOBLE, PUBLIC WORKS DIRECTOR
RE: RESOLUTION 21-21: AWARD OF CONTRACT TO VELOCITY CONSTRUCTORS FOR THE CONSTRUCTION OF THE N. TEN MILE INTAKE STRUCTURE, PIPELINE AND EROSION MITIGATION PROJECT
DATE: AUGUST 10, 2021

Summary and Background: Back in late fall of 2018 the water crew noticed water emerging from the ground in various locations along the water treatment plant intake pipeline cut. These “springs” were suspicious as they would normally diminish if not fully disappear during this time of year. It was determined through dye testing that the water was leaking from the intake pipeline. This pipeline was constructed in 1981-82 and is made up of asbestos concrete pipe. It has been in service for 40 years and is now in need of replacement as evident by the leaks we discovered.

The diversion and intake structure on N. Ten Mile Creek is also 40 years old and needs some rehabilitation and improvements in order to function more effectively and efficiently. As the structure sits now there is no way to accurately measure the flow of the creek which is very important during low flow periods in order to comply with diversion restrictions placed on the Town by the Colorado Water Conservation Board’s minimum stream inflow water right. This statewide water right is intended to keep water in the states rivers and streams to prevent aquatic wildlife habitat from being dried up due to diversions and supersedes all other water rights. If the natural flow of the creek drops below a certain amount during certain times of the year, the Town is required to stop diverting water from the creek. Currently we are unable to get accurate measurements of the flow to ensure that we are complying with the minimum stream inflow. This project will install a parshall flume in the channel on the diversion wall at the intake structure. This flume will have an electronic measurement device that will record and display the stream flow at the water treatment facility.

During the winter months, we have some serious issues with “frazzle” ice that can and does restrict and sometimes prevent us from getting water to the treatment plant. This project will enclose and slightly heat the intake structure to prevent this from happening in the future. This project will also make some improvements to the stream bank at the intake structure to prevent the creek from over-topping the structure during high water events.

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While we were designing this project in the spring of 2019, we had a high water event and a log jam in the creek just adjacent to the finished water storage tank located just below the water treatment plant. This event caused the creek to leave its' banks and flow directly around the storage tank which caused moderate erosion around the foundation of the tank. We have made temporary mitigation efforts and now need to construct a permanent solution before the next high water event.

Analysis: The erosion issue around the storage tank occurred during the design phase of the intake and pipeline improvements, so Town staff decided it would be in the best interest of the Town to incorporate the erosion mitigation project into the intake and pipeline project to take advantage of getting one US Army Corp of Engineers permit issued for both project sites and to possibly see some savings by having one contractor perform the work.

Design of both projects was stalled in 2020 due to COVID, but has since been completed and put out to bid. We received three bids which are listed below:

JHL Constructors of Englewood, CO - \$1,101,456.00
Velocity Constructors of Englewood, CO - \$757,045.00
Warbonnet Construction of Windsor, CO - \$603,714.45

Original bids and financials are available upon request.

After review of the bids by Town staff and the project engineer, we determined that the low bidder had several exclusions and stipulations in their bid that would have resulted in an immediate change order which would substantially raise the final price of the project. Please review the project engineers letter of recommendation for bid acceptance for further information.

Based on the information collected, engineer's recommendation and a prior highly satisfactory relationship with Velocity Constructors who constructed the Well #7PRA wellhouse, Town staff recommends that we accept the next lowest bid from Velocity Constructors in the amount not to exceed \$757,045.00.

Financial Impact: Passage of the recommended motion and entering into a contract with Velocity Constructors will result in a total cost of \$757,045.00 which has been budgeted in the Water Capital Fund (40-4000-4444). A total of \$950,000 was budgeted for these projects (\$150,000 Tank Erosion Mitigation & \$800,000 Headworks Improvements) in 2021.

Alignment with Strategic Plan: This project aligns with the Quality Core services section of the Strategic Plan by strengthening and improving the water infrastructure of the Town in order to ensure the continued, uninterrupted supply of safe, high quality drinking water to the citizens, businesses and visitors of the Town of Frisco.

Environmental Sustainability: This project aligns with the environmental sustainability goals of Town Council by installing measures to prevent the unnecessary loss of raw water through

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leaks in the raw water pipeline and to ensure that the Town is leaving enough water in N. Ten Mile Creek to continuously support the aquatic wildlife in this stream segment.

Staff Recommendation: Based on the information contained in this report, it is recommended the Town Council approve Resolution 21-21 and enter into a contract with Velocity Constructors at a cost not to exceed \$757,045.00.

Approved By:

Tony O'Rourke, Town Manager
Bonnie Moinet, Finance Director

Attachments:

Attachment 1 – Resolution 20-21

Attachment 2 - Contract

Attachment 3 – Engineers Letter of Recommendation

Attachment 4 – Velocity Bid

Attachment 5 – CWCB Minimum Instream Flow Chart