

STAFF REPORT

Date: April 26, 2023

To: Mayor and City Council

Thru: Doug Thornley, City Manager

Subject: Staff Report (For Possible Action): Approval of Consultant Agreement for Professional Engineering Services with Atkins for the Donner Springs, Stead Bus, Sagittarius and South Dakota Sanitary Sewer Lift Station Improvement Project in an amount not to exceed \$269,814. (Sewer Fund)

From: Erick Miller

Department: Utility Services

Summary:

The City of Reno Lift Station Capital Improvement plan has a number of lift stations improvements and rehabilitations programed for the next three years. Improvements to the Donner Springs, Stead Bus, Sagittarius, and the South Dakota Sanitary Sewer Lift Stations are required due the age of existing piping, valves and other equipment, installation of bypass pumping for help with maintenance, lack of redundancy, and ongoing maintenance concerns. This agreement with Atkins for professional engineering services will provide preliminary design, final design, and construction bid services. Staff recommends Council approval of the agreement with Atkins in an amount not to exceed \$269,814.

Alignment with Strategic Plan:

Fiscal Sustainability

Infrastructure, Climate Change, and Environmental Sustainability

Previous Council Action:

June 13, 2018 – Council approved a Consultant Agreement with Brown and Caldwell for the Sanitary Sewer Lift Station Condition Assessment and Master Plan in an amount not to exceed \$469,352 (Sewer Fund).

Background:

In addition to over 800 miles of sanitary sewer pipe within the City of Reno's sanitary sewer collection system, it also includes 30 lift stations. The City commissioned Brown and Caldwell to produce a lift station assessment report to evaluate the condition of the City's lift stations that

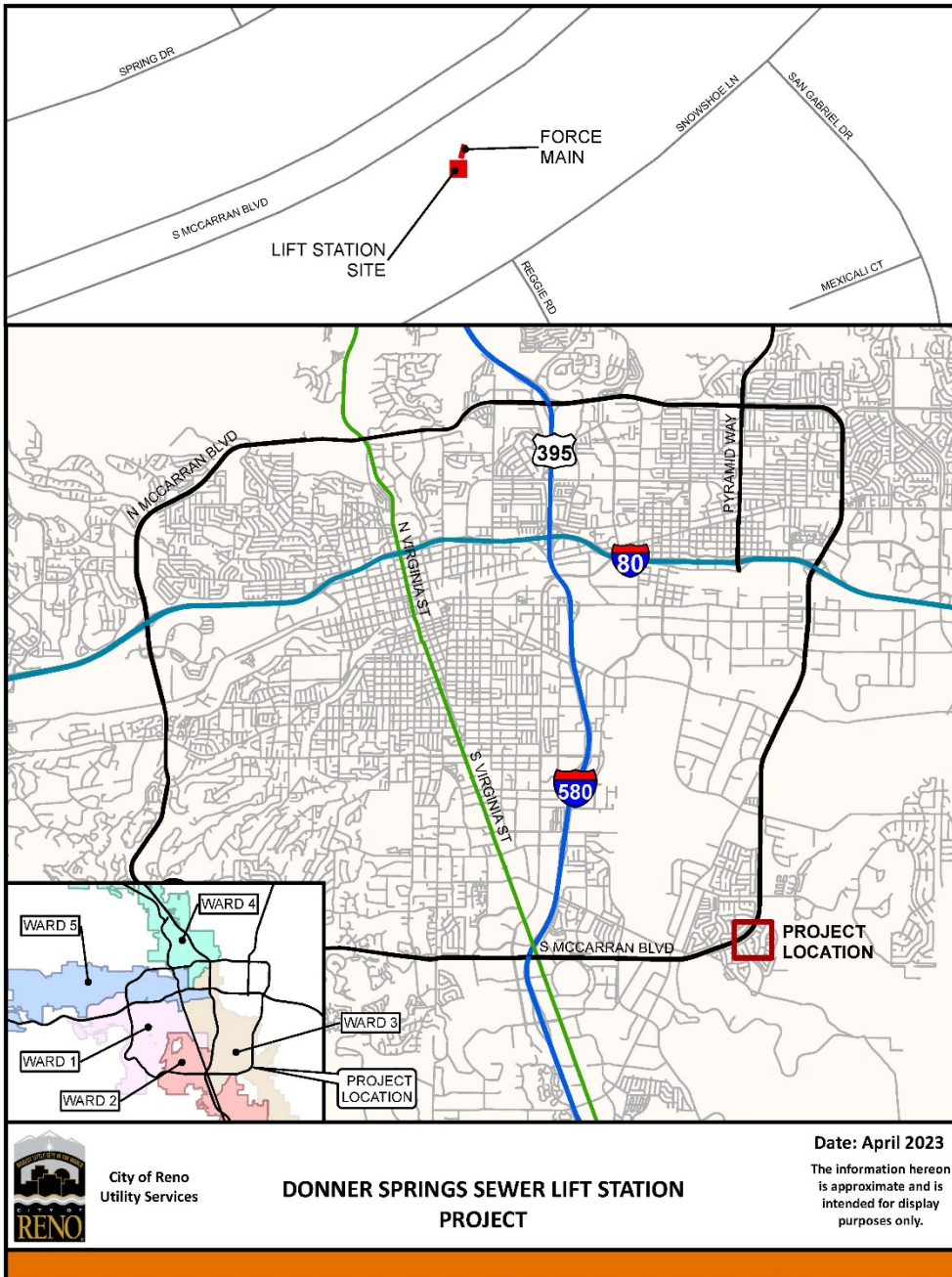
was published in February 2020. As part of the evaluation, improvements were recommended, and prioritized for the lift stations. Each lift station was assigned a rehabilitation priority score between 1 (highest) to 5 (lowest).

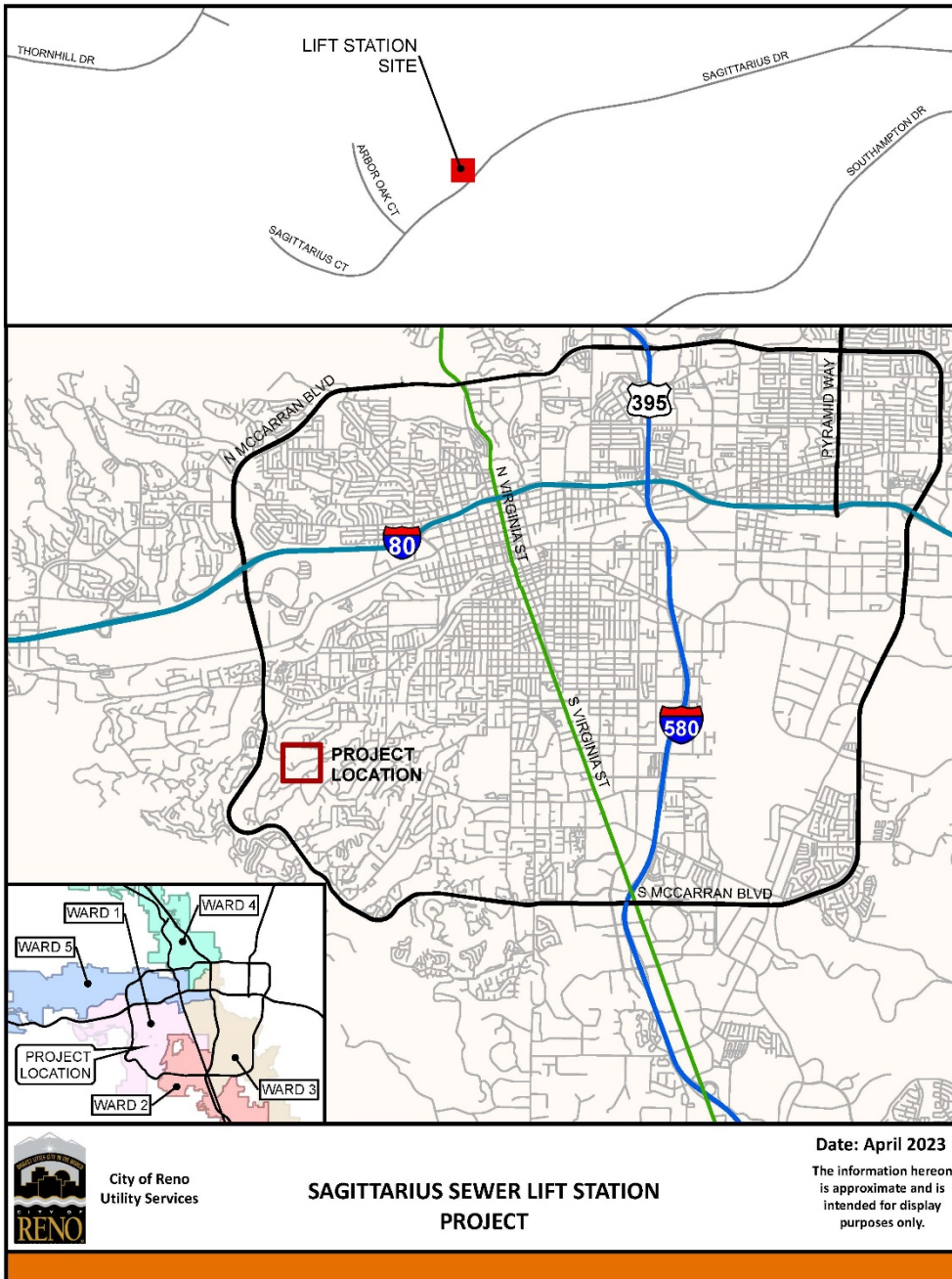
The Donner Springs Lift Station was reconstructed in 2014 and received a score of 2 due to its outdated valves and old force main. The Stead Bus Lift Station was constructed in 1988 and received a score of 2 due to its outdated valves and failing piping. The Sagittarius Lift Station was constructed in 1989 and received a score of 3 due to its lack of bypass pumping, failing and corroded wet well and pipe and outdated valves. The South Dakota Lift Station was reconstructed in 2017 and received a score of 5 but the groundwater infiltration continues to be an issue for maintenance staff and was not noted in the report. The Brown and Caldwell report recommended these lift stations for multiple improvements.

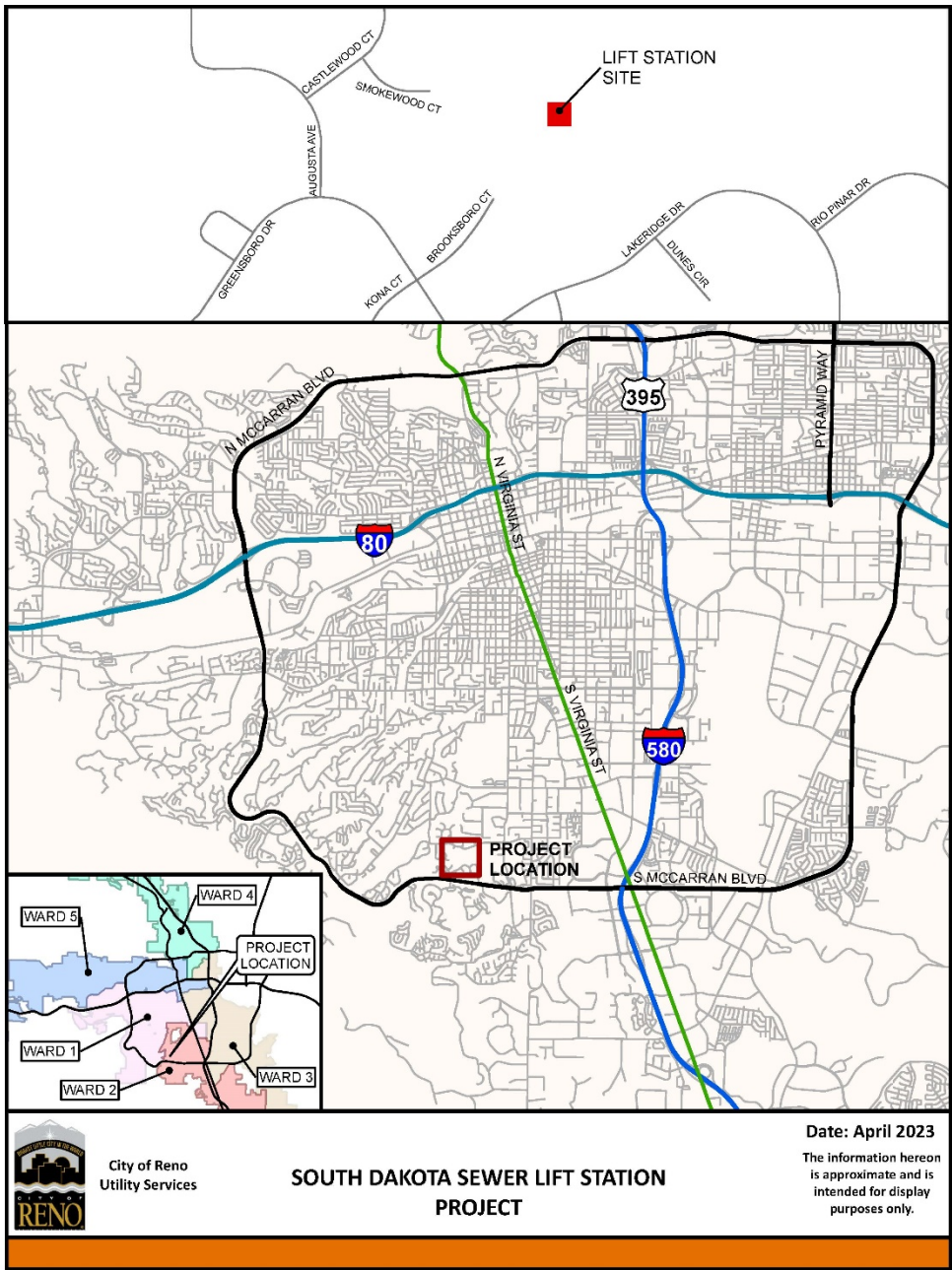
Discussion:

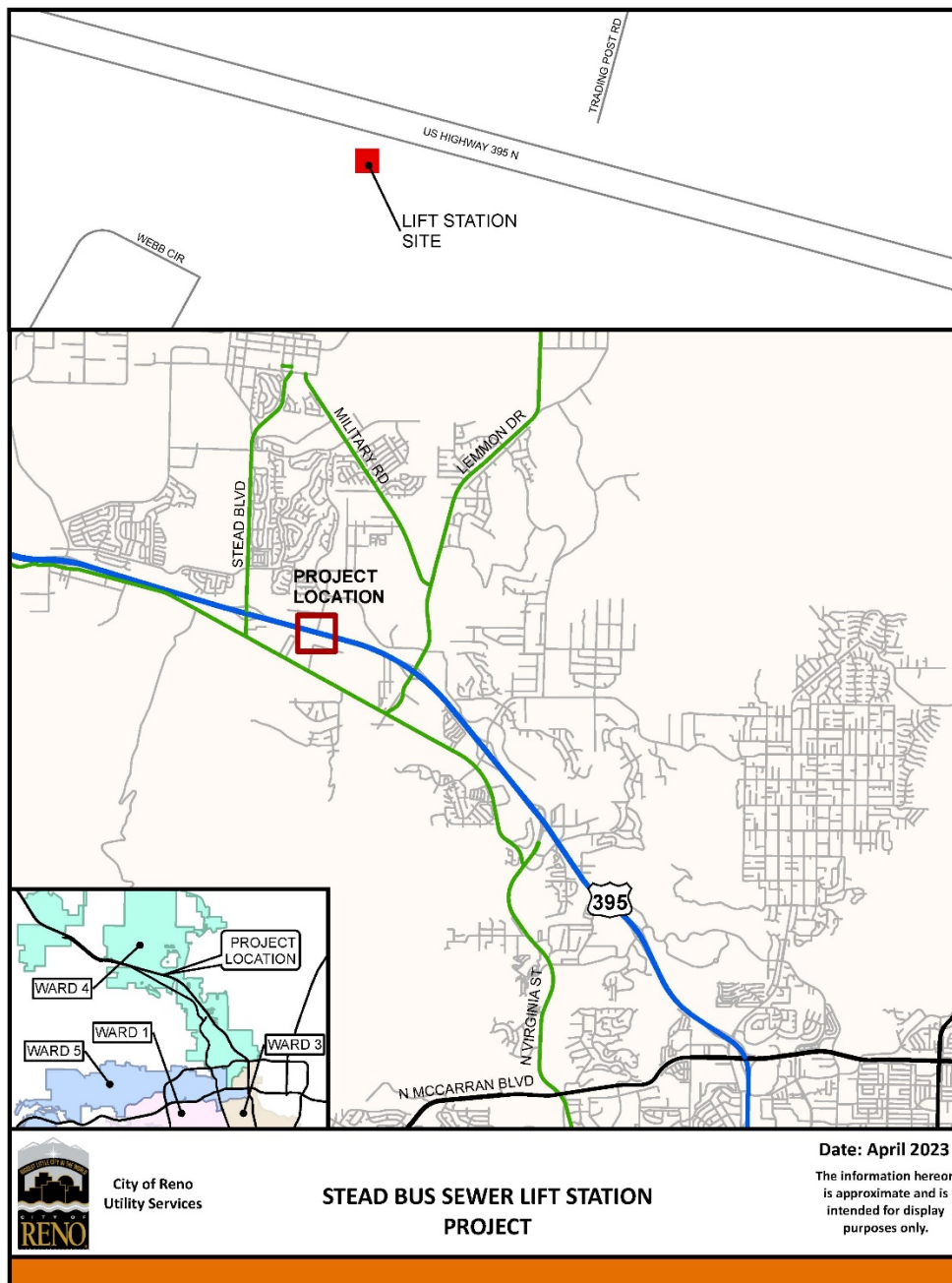
This consultant agreement will provide preliminary design, final design, construction documents, bid assistance, geotechnical investigations, field investigations, and surveying services to produce construction documents for soliciting bids to provide substantial improvements to the Donner Springs, Stead Bus, Sagittarius, and South Dakota Lift Stations. The Donner Springs Lift Station improvements will include installation of a new diesel engine pump, new valves, and replacement of the existing force main. The Stead Bus Lift Station improvements will consist of replacing corroded piping in the wet well, valve replacements, and installation of larger valve vault hatch. The Sagittarius Lift Station improvements include installing a bypass pumping connection, replacing pump guide rails, coating the wet well to protect against corrosion, and installing new valves. The South Dakota Lift Station improvements will consist of improving the infiltration of high groundwater and runoff into the lift station site.

All four lift station sites are shown in red on the maps below.









Nevada law prohibits the competitive bidding of engineering, architectural or land surveyor services; therefore, the Public Works Department has established a selection process based on competence and qualifications. Atkins was selected from the City's pre-qualified list of consultants from the 2022/2024 list.

Financial Implications:

This project is listed in the FY23 Capital Improvement Plan and budget is available in the Sewer Fund.

Legal Implications:

The parties are bound by the terms of the agreement as prepared by the Office of the City Attorney.

Recommendation:

Staff recommends approval of the consultant agreement with Atkins in an amount not to exceed \$269,814 and authorize the Mayor to sign.

Proposed Motion:

I move to approve staff recommendation.

Attachments:

Agreement with Atkins