

STAFF REPORT

Date: March 28, 2018

To: Mayor and City Council

Thru: Andrew Clinger, City Manager

Subject: Staff Report (For Possible Action): Approval of agreement with Aecom Technical Services, Inc. for engineering design services for the Truckee Meadows Water Reclamation Facility (TMWRF) Raw Sewage Pump Station Switchgear and LVDC-1A Switchboard Rehabilitation Project in the amount of \$302,685 with Reno's share being \$207,732.72 (Sewer Fund).

From: David Kershaw, Associate Civil Engineer

Summary: The attached scope of work with Aecom Technical Services, Inc. (Aecom) will provide engineering design services for the Truckee Meadows Water Reclamation Facility (TMWRF) Raw Sewage Pump Station Switchgear and LVDC-1A Switchboard Rehabilitation Project. This rehabilitation effort will include final design for replacement of the 2400-volt Raw Sewage Pump Station Switchgear, LVDC-1A switchboard and transformer, and appurtenances. The equipment to be replaced in this project is at least 25 years old and is reaching the end of its useful and reliable life, and is having switching difficulties. Therefore, the proposed replacement of this electrical equipment will help to maintain a reliable and redundant power supply to key TMWRF facilities. Staff recommends Council approve the Agreement for Consultant Services with Aecom Technical Services, Inc. for design and professional engineering services as described in the attached scope of work in an amount not to exceed \$302,685 (Reno's share being \$207,732.72 from the Sewer Fund).

Background: The Truckee Meadows Water Reclamation Facility (TMWRF) is jointly owned by the Cities of Reno and Sparks. The City of Reno oversees the Capital Improvement Program (CIP) for TMWRF, while the City of Sparks manages operations.

This CIP project includes the replacement of the 2400-volt Raw Sewage Pump Station Switchgear, LVDC-1A switchboard and transformer that is at least 25 years old and is reaching the end of its useful and reliable life, in addition to having switching difficulties. The proposed replacement of this electrical equipment will help to maintain a reliable and redundant power supply to key TMWRF process facilities.

Discussion:

To address the need to maintain a safe and reliable power supply to key TMWRF facilities, Aecom has provided a design scope of work that would lead to the replacement of the 2400-volt Raw Sewage Pump Station Switchgear, LVDC-1A switchboard and transformer, and appurtenances. The scope of work tasks, as detailed in the attached agreement, include defining the electrical design criteria, a preliminary evaluation of replacement options, developing design

standards, developing a detailed construction constraints sequence plan, detailed electrical design, bid documents, construction cost estimates, and providing bidding support services. Aecom was selected from the City's approved list of engineering consultants.

Financial Implications: The City of Reno will administer the agreement and will be reimbursed for a portion of the costs by the City of Sparks through the current cost sharing agreement for TMWRF operation and maintenance. The City of Reno and the City of Sparks share the cost of this project as follows: 68.63% for Reno and 31.37% for Sparks, as shown in Table 1. Costs for the City of Reno are budgeted in the Sewer Fund. The project is included in the TMWRF Capital Improvement Plan approved by the TMWRF Joint Coordinating Committee (JCC).

Table 1 – Cost Sharing Between Reno and Sparks

Total Cost of Contract	Reno Share	Sparks Share
\$302,685	\$207,732.72	\$94,952.28
Percentages	68.63%	31.37%

Legal Implications: Legal review completed for compliance with City procedures and Nevada Law.

Recommendation: Staff recommends Council approve the Agreement for Consultant Services with Aecom Technical Services, Inc. for design and professional engineering services as described in the attached scope of work in an amount not to exceed \$302,685 (Reno's share being \$207,732.72 from the Sewer Fund), and authorize the Mayor to execute the attached Agreement.

Proposed Motion: I move to approve the staff recommendation.

Attachments: