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CITY OF SANTA BARBARA COUNCIL AGENDA REPORT

AGENDA DATE: October 25, 2016

TO: Mayor and Councilmembers

FROM: Engineering Division, Public Works Department

SUBJECT: Contract For Design Of Cater Plant Valve And Actuator Replacement Project

RECOMMENDATION:

That Council authorize the Public Works Director to execute a City Professional Services contract with Carollo Engineers, Inc., in the amount of \$129,016 for design and construction management services of the Cater Plant Valve and Actuator Replacement Project, and authorize the Public Works Director to approve expenditures of up to \$12,902 for extra services of Carollo Engineers, Inc., that may result from necessary changes in the scope of work.

DISCUSSION:

Background

The City's William B. Cater Water Treatment Plant (Cater) provides regional water treatment to the City of Santa Barbara, as well as the Montecito and Carpinteria Valley Water Districts. Cater is operated primarily by a sophisticated computer technology that automates the water treatment processes, which includes remotely controlling the associated valves and valve actuators. The existing valves and actuators for the filtering and backwash processes need to be replaced as part of normal maintenance and repair.

Project Description

The work consists of preparing design plans and specifications for the replacement of 38 valves and 49 actuators, ranging in diameter from 12 to 30-inches. The proposed contract services include prescribing the valve networking scheme, specifying the sequence of demolition, construction, and start-up of the new equipment, and providing engineering support services during construction.

The proposal from Carollo Engineers, Inc., (Carollo) included the following optional tasks that will be included as part of this contract:

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- 1) An evaluation of Cater's flow control systems for reducing water production at Cater. Drastically reducing Cater's water production may be necessary during times of low demand and when the desalination plant and wells are in service.
- 2) An evaluation of the carbon dioxide (CO₂) system to recommend sampling modifications for reducing water waste. Currently, a large water sample is required to control the CO₂ system, which is used to help optimize the treatment process.

Design Phase Consultant Engineering Services

Carollo is proposed for this work, as they were the engineers of record for the Advanced Treatment Project, which integrated the ozone and solids handling into the treatment process. In the past, Carollo had been selected via a request for proposals for other Cater Plant improvements. As a result, Carollo has specific knowledge and experience of Cater's operational needs that makes them best qualified to perform the proposed work.

Staff recommends that Council authorize the Public Works Director to execute a contract with Carollo in the amount of \$129,016 for design and construction management services and \$12,902 for extra services, for a total amount of \$141,918.

Funding

ESTIMATED TOTAL PROJECT COST

Design (Carollo – this contract)	\$117,815
Other Design Costs - City staff, etc.	10,000
Subtotal	\$127,815
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Estimated Construction Contract w/Change Order Allowance	\$1,750,000
Estimated Construction Management/Inspection (Carollo – this contract)	24,103
Estimated Construction Management/Inspection (City)	50,000
Estimated Other Construction Costs (testing, etc.)	5,000
Subtotal	\$1,829,103
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TOTAL PROJECT COST	\$1,956,918

There are sufficient funds in the Water Fund to cover the proposed design costs.

Sustainability Impact

This repair and maintenance project will enable the Cater Water Treatment Plant to continue to reliably treat drinking water for South Coast water customers.

A copy of the contract is available for public review at the City Clerk's Office.

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SUBMITTED BY: Rebecca J. Bjork, Public Works Director

APPROVED BY: City Administrator's Office