TOWN OF WINDSOR
AGENDA REPORT

Joint Windsor Town Council, Windsor Redevelopment Successor Agency and Windsor Water District Meeting Date: October 18, 2023

To: Mayor and Town Council
From: David Ernst, Wastewater Superintendent
Subject: Approve a Professional Services Agreement with Automation Group for Main Irrigation PLC, and Controls System Upgrade

Recommendation to Council:
Approve a Professional Services Agreement with Automation Group for Main Irrigation Programmable Logic Controller (PLC) and engineering/operational control upgrades in an amount not to exceed $186,000 and authorize the Town Manager to execute said agreement and approve contract documentation and amendments up to the authorized budget and scope of work on behalf of the Town.

Strategic Plan Element:
The recommended action supports the goal of Infrastructure. Goal Statement: Through a lens of sustainability and innovation, invest in the Town's infrastructure and public facilities to meet the needs of future generations.

Background:
Originally installed in the 1990s, the Main Irrigation (Golf Course Pump Station or Mitchell Lane Pump Station) PLC has reached the end of its useful life, and replacement parts and relays are no longer being manufactured for this level of technology. Two of the four available pumps at this location are no longer functioning under demand or automatic control and must be manually started and stopped during the workday to allow reclaimed water stored at the site to be reused within the Town's extensive irrigation distribution system.

Discussion:
With the new Public Work's SCADA system set to be deployed this month, upgrading this PLC will enable Utility Maintenance and Wastewater Staff remote access and control of all four recycled water distribution pumps at this location. In addition to the ability to remotely start and stop these pumps, the new PLC will directly interface with the Water Reclamation Facilities' effluent pumps and allow the additional storage ponds at Main Irrigation to become part of the full recycled water distribution network as well as continue to supply and provide needed redundancy to the Windsor Golf Course. As a result of this upgrade, the recycled water currently stored at the Sonoma Water reclaimed water storage ponds will be available for Town-wide use and not restricted by available current infrastructure for Golf Course use only.

The Town currently has two firms qualified to perform these professional services (design). Staff worked with both firms simultaneously to develop a complete scope of work, and each was given the opportunity to propose on completing the design and integration of the new PLC into the Town's Supervisory Control and Data Acquisition (SCADA) platform. Automation Group is recommended to proceed with programming and integration, based on several factors including an in-depth knowledge of the Town's SCADA system and a history of successful design and integration work with the Town

on similar projects.

Fiscal Impact:
The total fiscal impact of the proposed Professional Services Agreement will allocate up to $186,000, which includes a 10% contingency, and is supported through sufficient appropriations within the Capital Improvement Funds in the Council-adopted budget for Fiscal Year 2023-24.

Environmental Review:
This action consists of maintenance and repairs to existing pumping facilities and involves negligible or no expansion of existing use and is exempt under the California Environmental Quality Act (CEQA) in accordance with Guidelines Section 15301, Class 1 (Existing Facilities).

Attachment(s):
1. PSA - Automation Group - Pump House PLC Upgrade 9

Prepared by:
David Ernst
Wastewater Superintendent

Reviewed by:
Shannon Cotulla
Public Works Director

Reviewed by:
Jeneen Peterson
Administrative Services Director

Recommended by:
Jon Davis
Town Manager