Ivins City Staff Report
City Council Meeting 10/15/2026

Agenda Item: Discuss and consider approval of expenditure for the SCADA System Upgrade.

Submitted by: Thomas Jorgensen, P.E., Public Works Director / City Engineer

Recommended City Council Action:
Approve expenditure of $35,188 to APCO, Inc. for implementation of the SimpliScada system, plus a 10% contingency of $3,519, for a total initial expenditure authorization of $38,707, along with ongoing licensing and cellular service fees of $219 per month.

BACKGROUND:

Ivins City operates a Supervisory Control and Data Acquisition (SCADA) system to monitor and remotely control critical water and wastewater infrastructure throughout the City. SCADA allows staff to monitor water tank levels, pump operations, system pressures, and other equipment from a central location. It also allows operators to remotely control equipment, such as starting or stopping pumps or adjusting operating settings, without traveling to individual facilities.

An equally important function of SCADA is its ability to automatically notify staff when something goes wrong. For example, the system can alert operators to pump failures, unusually low water tank levels, or high water levels at a sewer lift station. These notifications are particularly important during nights, weekends, and other times when staff are not actively monitoring the system. Without automatic alerts, problems may go unnoticed until someone manually checks the system or a more serious operational issue develops.

The City's existing SCADA system is aging, particularly its central control hardware/software and programmable logic controllers (PLCs). Staff and our SCADA consultant have implemented several workarounds to maintain functionality. Most recently, the workaround used to deliver automated text alerts stopped working because it is no longer supported by Windows. As a result, the public works staff currently cannot receive automated text alerts from the SCADA system.

FINDINGS AND ANALYSIS:

Staff has been evaluating options to modernize the SCADA system without replacing equipment that is still functioning properly. Rather than replacing the individual site PLCs, sensors, and control devices, the proposed upgrade focuses on replacing the central hub and software with a modern cloud-based platform.

After reviewing available options, the City's current SCADA consultant, APCO, recommended SimpliScada. The proposed system offers several improvements, including a more user-friendly interface, simplified alarm configuration, remote monitoring and control, and automated notifications to staff, i.e. text alerts.

The upgrade also provides greater flexibility for future equipment replacements. The City's existing PLCs are no longer supported by their manufacturer, making future repairs and

replacements increasingly difficult. The new SimpliScada platform supports a broader range of PLCs and communication protocols, allowing the City to transition to more readily available, off-the-shelf controllers as existing equipment eventually needs replacement. This avoids requiring a complete replacement of the field equipment at this time.

APCO has provided SCADA support to Ivins City for several years and is familiar with the City's existing equipment, network configuration, security protocols, and IT consultants. This familiarity is particularly valuable because the majority of the proposed expense is not the hardware itself, but the engineering, programming, integration, and testing necessary to transition the existing facilities to the new platform.

APCO has provided the following cost estimate:.

Description	**Cost**
Engineering, programming, installation, and testing	$25,113
SimpliScada Hub and Touchscreen	$2,098
Software Activation (One-Time)	$7,977
Total One-Time Cost	$35,188
Monthly Licensing and Cellular Service	$219/month

Staff recommends proceeding with APCO to implement SimpliScada. This approach restores the City's ability to receive critical system alerts, modernizes the SCADA interface, reduces dependence on outdated software, and establishes a flexible platform for future replacements.

SUPPORT MATERIALS:

- APCO SimpliScada Budgetary Estimate

FINANCIAL IMPACT:

The City has budgeted $25,000 for telemetry system improvements in FY2027 under Water Fund account 4284.3. Although this specific upgrade was not anticipated, the proposed initial expenditure of $38,707, including 10% contingency, exceeds the annual budgeted allowance by $13,707. The system will also require ongoing licensing and cellular service fees of $219 per month.

Staff is requesting approval of the expenditure due to the operational importance of the SCADA system and the need to restore reliable automated notifications.

Respectfully Submitted: _____

Thomas Jorgensen, P.E., Public Works Director / City Engineer

Content
Review:

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Chuck Gillette, City Manager

C0181-091426

QUOTATION FOR: IVINS CITY - SIMPLISCADA BUDGETARY ESTIMATE

APCO, Inc
710 S Redwood Rd
North Salt Lake, Utah 84054
(801) 519-9500
Prepared By:
Sydney Smith
sydney.smith@apco-inc.com
09/15/26

Quotation For:

Ivins City
Shiloh Pentz
spentz@ivins.com

Line	Qty	Part No.	Description	Unit Price	Line Total
1	1	LABOR	Engineering labor including: • HMI Development • Hub Installation	$ 25,113.00	$ 25,113.00
					0
					0
					0
					0
					0

Comments and Special Instructions:

1. Pricing is valid for 60 days from the date of this proposal.
2. Sales tax is not included in the pricing above. Sales tax will not be charged if a valid Utah State sales tax exemption certificate is provided or is already on file with APCO.
3. Pricing above is provided as a budgetary estimate and is intended to guide project planning and budgeting. Final pricing may be adjusted based on confirmed project requirements and scope.
4. Pricing above assumes the following I/O counts at each site:
   - Cliff Rose – 35
   - Sewer Lift Station – 26
   - Shinava Pump Station – 12
   - Taviawk Pump Station – 23
   - Taviawk Tank – 7

Tuacahn Pump Station – 40
Tuacahn Tank – 5

Changes to the assumed I/O counts or site requirements may result in adjustments to the pricing.

5. It is assumed that the Kayneta site is no longer included in the Ivins SCADA system.