Jason Elmer
Parks and Recreation Manager
Town of Prescott Valley
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As the parks and recreation manager for the Town of Prescott Valley I have enjoyed watching the growth of our parks systems within the community. We have added several parks and upgraded of maintenance routines to accommodate the additional workloads. However, there are some areas in a small division that is difficult to maintain without additional assistance. As indicated in previous conversations, our parks and recreation operation has grown to a point where it needs to dramatically enhance its irrigation control and accounting function so that it can continue to serve effectively.

This correspondence outlines the complete scope of work you requested, including objectives, procedures, identification of responsibilities, and estimated fees.

OBJECTIVE

Implement a central irrigation controller in the parks systems. Install the central controller software, including implementation and setup, training, clock, rain sensors, antennas and post-conversion support. Reduce the wasted water resources, and labor for adjusting and maintenance of irrigation system. Success of this project is dependent not only on the software, and equipment but also our personnel's skill, effort, and willingness to work as a team.

CURRENT SITUATION

As of right now when it rains heavily or the evapo transportation (ET) rate drops to a low level, and we're not scheduled to work, the irrigation programs do not change. The only way for staff to access our clocks is to physically drive out to each clock and adjust them. The parks department has 18 clocks at 11 different locations, to adjust everyone currently takes 1.5 hours and approximately 30 miles of drive time, this costs the town an hour and a half of wages and 3 gallons of gas every time they need to be adjusted. Also when it rains at night or over the weekend there is no one here to physically drive to every park. If overtime is approved it would then cost the town roughly 3 hours of wages to get these parks shutdown. More often than not, overtime is not an option thus a staff has to volunteer their time to drive to every clock and shut it off or just allow them to run. Calculations done during monsoon season, which also happens to be the hottest month of the year, show usage of 255,000 gallons of water each night when watering 30.66 acres of parks. This breaks down to $1,020.00 a night. If it rains 5 times during the summer, when the clocks are still set to run that would be over $5000 and over 1 million gallons of water that could be saved by the town every year.

SCOPE OF SERVICES

1. Procedures

    a. Assist in planning and implementation of the Horizon Water Management System.

    b. Recommend water saving programs for each individual park, with comprehensive evaluation of landscape and turf conditions to maximize savings.

    c. Establish specifications for the bridge of town operated IT equipment to the use of the Horizon software and hardware provided by the company for increased water savings.

    d. Write the bridge to receive (import) the information into the Model 60 software.

2. Training and Testing

    a. Irrigation and supervisory staff during installation and implementation to help us gain an in depth understanding of the system.

    b. Train in the areas of evapotranspiration rates and how it can differ from location.

    c. Upon completion, system test Horizon Water Management systems to assure that it is functioning as intended and producing accurate water budget reports..

3. Conversion and Post-Conversion Support

    a. Online and phone assistance is offered through Horizon at no additional cost.

    b. Horizon staff monitor will monitor town of Prescott Valley systems to assure users are receiving the maximum benefits of the system.

BENEFITS

- Easier to program irrigation clocks at all parks, currently in order to program irrigation clocks; one person has to drive to every park to physically adjust controllers. With a central controller, one person can log on to the internet at the shop and adjust every controllers programs from one location.
- Water and financial savings- If it rains 5 times during the summer, when the clocks are still set to run that would be over $5000 and over 1 million gallons of water saved by us every year. That's nearly a 3% savings on our water budget. With those savings alone the central controller would pay itself off in less than 7 years.
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  However those are not the only savings, with a more accurate ET rate and rain gauge we would be able to determine how much water the turf actually needs to survive per month. Thus allowing us to program our systems to adequately cover the needed water consumption of our turf and avoid runoff and or waste.

- Our research shows that irrigation professionals who have changed to a central controller system typical see 10-15% water savings yearly. With an annual water budget of nearly $200,000 even a 7% savings would equal out to $14,000, and 3.5 million gallons of water. Meaning the new controller would pay itself back in just 2.5 years.

- Also to help add to the cost savings, we will be able to auction off our old irrigation controllers. With 16 controllers ranging from $50.00 to $500.00 we should be able to auction them off for around $1000.00 or so.

CLOSING

- total cost of products $25,000.00
- Products purchased would include: 8 ET water 205 controllers
- 8 interface hardware, station modules for Hunter controllers central control,
  8 ET water URA remote ports
  8 5 year wireless service plan
  8 Onsite Installation Support
- These costs will be minimal, and we are receiving a very durable product. We recently had one irrigation clock that was struck by lightning, and survived with no damage.

Sincerely,

Jason Elmer
Parks and Recreation Manager

Enclosure

ET Water Procure