

HOMESTEADER PARK

Powell, Wyoming

The City of Powell Parks & Recreation Department retained Steiner Thuesen PLLC to plan and design a new irrigation system for Homesteader Park. The project scope included design of an irrigation central control system and construction management during the installation process.

The design of the systems and construction management included GPS mapping of the site. The data was imported into our CAD environment to be used as base maps for the irrigation system design. The completed design will be exported back into the GPS environment and used to provide layout and staking of the new irrigation system. During installation of the systems, the as-built information will be collected with a GPS system and used to create record drawings for use by the Owner.

One of the requirements of the design mandated that the irrigation system operate within an 8 hr/day watering window to allow sufficient time for maintenance activities and minimize user conflicts. This was accomplished through design of a highly efficient system with a scheduling coefficient of 1.2 or

better and fully automated pump stations capable of delivering the high flows necessary to meet the 8-hour water window requirement. One new well will be developed and two fully automated pump stations will be installed.

Following completion of the irrigation system Master Plan, Phase 1 Construction Documents were prepared. Construction of the new irrigation system will be completed in 4 phases. The estimated value of construction for this project is \$800,000.

