

MAJOR FUNCTION

This is manual and technical work at a skilled level involving the maintenance, repair and operation of lawn sprinkler systems and complex electrical and mechanical irrigation systems used on municipal golf courses, landscaped areas, sprayfields and right-of-ways. Work involves inspection, preventative maintenance, manual repair and operation of the complete sprinkler, pumping and irrigation systems in City parks, golf courses, landscaped areas, sprayfields and right-of-ways, as applicable. The work includes maintaining and ensuring the proper operation of all sprinklers, valves, pivots, pumps, supply lines and controllers. Duties involve the operation of various tools and equipment necessary to properly maintain the sprinkler and irrigation systems. Work is normally performed under general supervision; however, the incumbent must exercise considerable independent judgment and initiative in the performance of daily assignments. Work is inspected while in progress and upon completion, and is reviewed through conversation, analysis of reports, and evaluation of results achieved.

ESSENTIAL AND OTHER IMPORTANT JOB DUTIES**Essential Duties**

Inspects irrigation systems, including all sprinklers, pumps, valves and controllers on a periodic basis and as required to assure proper operation. Repairs, adjusts and replaces parts as required to assure proper operation of all irrigation, pumping and sprinkler systems. Cleans and assures the proper operation of electric satellite and master controllers, and makes minor repairs and adjustments as required. Repairs and replaces valves and sprinkler head parts and supply lines. Prepares sketches and installs extensions to existing irrigation systems and may install small simple systems. Repairs and replaces plumbing at all parks and other department managed facilities. Performs related work as required.

Water Utility-Southeast Farm: Operates center pivots and pumps as necessary to coincide with activities conducted by operators at the TPS Plant and/or the contract farmer. Diagnose electrical and mechanical center pivot problems and repair same, including changing tires and input and output gearboxes. Maintains the SCADA system used at the Southeast Farm.

Other Important Duties

Maintains adequate inventory of parts and supplies used in irrigation repairs. Maintains and submits reports as required. Consults with others in the city organization regarding irrigation issues. Performs related work as required.

Water Utility-Southeast Farm: Performs duties related to the upkeep and maintenance of the South Farms grounds and facilities.

DESIRABLE QUALIFICATIONS**Knowledge, Abilities and Skills**

Considerable knowledge of the principles and practices of irrigation systems maintenance and repair. Considerable knowledge and skill in the use of electrical test equipment, plumbing tools and general mechanic tools. General knowledge of gear drives, hydraulics, pneumatics and filtration. Knowledge and awareness of the hazards and safety precautions required of the work. Ability to diagnose operational problems within irrigation and pivot systems, and repair, adjust or replace faulty system components as required. Ability to understand instructions and perform the required work from general diagrams and specifications. Ability to make simple estimates of materials and equipment needed to perform the work. Ability to establish and maintain effective working relationships as necessitated by work assignments.

Minimum Training and Experience

Possession of a high school diploma or an equivalent recognized certificate and three years of experience that includes irrigation, mechanical maintenance, or plumbing; or an equivalent combination of training and experience.

Necessary Special Requirements

Must possess the appropriate state Commercial Driver's License (CDL) and endorsement(s) at the time of appointment, or must have passed the appropriate written CDL test/endorsement(s) and obtained a CDL permit at the time of appointment and obtain the appropriate CDL licensure within 60 calendar days from date of employment as a condition for continued employment.

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