



THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

## LAND SURVEYOR

<b>Group-Section:</b> Engineering Services Group	<b>FLSA Status:</b> Non-Exempt <b>Bargaining Unit:</b> AFSCME	<b>Salary Grade:</b> 53 <b>Job#:</b> YA110
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### JOB SUMMARY

This is the journey level position performing Land Surveyor job duties.

### DISTINGUISHING CHARACTERISTICS

Positions at this level are recognized as technical specialist using initiative and resourcefulness in deviating from traditional methods or researching trends and patterns to develop new methods, criteria, or proposed new policies. Decisions regarding what needs to be done include interpreting data, planning of the work, or refining the methods and techniques to be used. The work involves established criteria; formulating projects; assessing program effectiveness; or analyzing variety of unusual conditions, problems, or questions. The work product or service may affect activities, or the operation of other organizations.

### OVERSIGHT

**Supervision Received:** Receives direction from the Team, Unit, Section, or Group Manager.

**Supervision Given:** May exercise technical and/or functional direction over assigned staff.

### JOB DUTIES

1. As a licensed land surveyor analyzes, prepares, reviews and signs Records of Survey maps, legal descriptions, exhibit maps, topographic mapping, and deformation-monitoring reports according to California Business and Professions Code §§ 8700 - 8805.
2. Analyzes, prepares, reviews, and approves digital terrain modeling, Geographic Information Systems mapping, geospatial analyses, and computer aided design and drafting (CADD).
3. May provide direction and oversight on the use of robotic total stations, digital electronic levels, and GPS technology to establish horizontal and vertical control networks; analyzes, adjusts, and compiles the results into finished maps; determines the extent of ground control networks; determines the best placement of horizontal and vertical control points for photogrammetric mapping.
4. May provide lead direction and oversight, perform, and review survey measurements, calculations, and field notes for mapping, design, and construction projects; resolves complex surveying problems.
5. Assists with development and implementation of new or revised policies and procedures.
6. May perform design, installation, and maintenance of automated monitoring systems.
7. May perform site inspections and site visits with project stakeholders.
8. Assists the Real Property Group and Legal Counsel by providing professional expertise to resolve property boundary issues, potential encroachments, and right-of-way conflicts.

9. Maintains records of work performed; prepares various reports; tracks inventory of survey equipment and supplies; and assists with budgets to maintain inventory and supplies.
10. May represent Metropolitan within area of responsibility with external entities and resolves issues.
11. Keeps informed of changes and new legislation pertaining to laws, codes, and regulations affecting deformation work, mapping work, and survey work, and ensures appropriate staff is informed and current.
12. May provide direction and oversight to technical staff to ensure projects and other assignments are accurately completed. Evaluates and reviews analytical data. Interprets survey request requirements. Establishes methodology and techniques for use of electronic field survey equipment and software.
13. Performs other related job duties as required.

## **EMPLOYMENT STANDARDS**

### **MINIMUM QUALIFICATIONS**

**Education and Experience:** A high school diploma or general education test (GED) and eight years of progressively increasing responsible work experience in field and/or office survey work with one year minimum as a licensed surveyor; or Associate's degree and six years of progressively increasing responsible work experience in field and/or office survey work with one year minimum as a licensed surveyor; or Bachelor's degree and four years of progressively increasing responsible work experience in field and/or office survey work. with one year minimum as a licensed surveyor.

**Required Knowledge of:** Geodetic/survey engineering principles, practices, and standards; photogrammetry; Geographic Information Systems, right-of-way engineering, Computer-Aided Designs, or other survey related software; applicable federal, state, and local laws, codes and regulations including the Land Surveyors Act and the Subdivision Map Act; work site safety; and current office technology and equipment.

**Required Skills and Abilities to:** Oversee project work; coordinate with external agencies; read and interpret maps, legal descriptions, diagrams, construction drawings, and specifications; use a variety of survey software, Geographic Information Systems, CAD applications; operate a variety of electronic survey equipment; use independent judgment and exercise discretion; problem solve; prioritize and multi-task; communicate clearly orally and in writing; work independently and in a team environment; train technical staff; and operate current office equipment including computers and supporting applications.

### **Certificates, Licenses, And Registrations Requirements**

Employees in this position may be required to obtain and maintain the following certifications, licensing, and registrations:

#### **Certificates**

- None

#### **Licenses**

- Valid California Class C Driver License that allows you to drive in the course of your employment
- License in good standing as a California Professional Land Surveyor

Job Title: Land Surveyor

Job Code: YA110

Adopted: 11/8/2022

Effective: 06/26/2022

Revised:

Supersedes:

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### **Registrations**

- None

### **PHYSICAL DEMANDS, WORK ENVIRONMENT, AND VISION REQUIREMENTS**

The physical demands and work environment characteristics described here are representative of those that must be met or may be encountered by an employee to successfully perform the job duties of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the job duties.

**Physical Demands:** The work requires some physical exertion such as long periods of standing; walking over rough, uneven, or rocky surfaces; recurring bending, crouching, stooping, stretching, reaching, or similar activities; recurring lifting of moderately heavy items such as personal computers and record boxes. The work may require specific, but common, physical characteristics and abilities such as above-average agility and dexterity.

**Work Environment:** The work involves moderate risks or discomforts that require special safety precautions, e.g., working around moving parts, carts, or machines, or irritant chemicals; etc. Employees may be required to use protective clothing or gear such as masks, gowns, coats, boots, goggles, gloves, or shields.

**Vision Requirements:** No special vision requirements