

**CITY OF REDWOOD CITY  
PUBLIC WORKS MAINTENANCE WORKER III**

**DEFINITION**

To operate a full range of heavy equipment in construction and maintenance of streets, sewers, or water service; perform a variety of semi-skilled and skilled tasks in the construction, maintenance, and repair of streets, sidewalks, sewers, and storm drains; perform a variety of semi-skilled and skilled tasks in the installation, maintenance, and repair of water system mains, pipes, and facilities; or to work on a traffic sign and paint crew.

**DISTINGUISHING CHARACTERISTICS**

This is an advanced journey level class in the Public Works Maintenance Worker class series. Positions in this class are characterized by one or more of the following: skillfully operate heavy equipment a predominant portion of the time; regularly lead two or more other Maintenance Workers on a small crew, serving in a lead capacity; regularly perform specialized and complex maintenance work in multiple public works areas.

**SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from higher level maintenance personnel. Technical or functional supervision may also be provided by higher level maintenance personnel.

Assignments may require that III level positions provide technical supervision to lower level personnel.

**EXAMPLES OF DUTIES** - Duties may include, but are not limited to, the following:

Operate heavy construction equipment such as backhoe, roller, bulldozer, scraper, grader, gradall, motorized sweepers, and front-end loaders for a variety of construction and maintenance operations involving streets, sidewalks, street trees, curbs, gutters, water and sewer lines.

May direct the work of employees operating equipment on a training basis.

Identify equipment needs for each assigned project.

Perform minor repairs on equipment and report the need for major repairs.

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Operate a motor sweeper and sweep streets and gutters; select effective and efficient method to cover assigned route; adjust gutter and pickup brooms to effectively sweep streets and gutters; dump hopper when full.

Perform general servicing, including cleaning of motor sweeper; check for broom and chain wear; replace brooms; report mechanical or other equipment problems.

**Street and Sewer**

Perform street maintenance duties; operate construction and maintenance equipment such as trucks, tractors, and skip loaders for a variety of construction and maintenance operations involving streets, sidewalks and gutters, sewer lines, and drainage channels.

Spread asphalt in patching and repairing streets.

Use concrete cutting and breaking equipment; operate a jackhammer; pour and finish concrete; construct concrete forms and perform rough carpentry work.

Inspect ditches, drainage areas and roadside shoulders for noxious weeds; remove weeds; identify weeds and apply appropriate herbicides.

Set up traffic safety devices and barricades as necessary.

Maintain storm drains, catch basins and storm drain pipes.

Perform emergency street, sewer, storm drain or other public service maintenance work as required.

Perform sewer maintenance duties; operate maintenance equipment and tools such as power tools, sewer rodder, hydraulic jet cleaner, vac-all, front loader, compressor, power wench, boom truck, main and auxiliary pumps, and related equipment and tools.

Perform routine preventive maintenance on equipment as assigned.

Install and repair underground pipes; remove blockages from sewer and storm drain lines.

Utilize proper safety precautions related to all work performed.

Read and interpret maps of underground sewer and drainage systems.

Perform related duties as assigned.

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**Water Service**

Independently, or as a member of a crew, perform semi-skilled work in the installation, repair, and maintenance of the City water system.

Operate backhoe in digging trenches for pipe; operate trencher in digging narrow trenches; operate loader in loading truck; operate crane in lowering pipe into trench; operate dump truck; set up tapping machines and tap into main lines.

Set up and operate auger machine to make opening under highway and sidewalks.

Measure and cut pipe.

Install mains, copper tubing, hydrants, valves, meters and meter boxes.

When in charge of leak truck, locate main and other lines with T-scope; locate leak by sinking gad holes; excavate and repair leak.

When assigned to valve truck, operate and repair valves as needed.

Read grade stakes for water service, meter height, and fire hydrants.

Set and read grade for trenching machine.

Perform related duties as assigned.

**Traffic Sign and Paint**

Paint or stencil such traffic directional markings as crosswalks, safety loading zones, bus stops, parking and center lines and railroad and school crossings.

Paint and stripe barricades and guard rails.

Perform brush and spray painting.

Operate striping machine as needed.

Cut and prepare stencils.

Maintain, clean, and repair painting equipment and stencils.

Set up proper pattern of cones and signs to control traffic for safety purposes.

Make inspections to find street signs that need repairing or replacing.

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Lay out, fabricate, and install regulatory, guide, warning, and construction signs; straighten and reset street signs and parking meter poles; submit reports of work done.

Paint light poles.

Install and repair stop signs, parking signs, speed signs, street signs, railroad signs, and police watch signs; fabricate signs.

Perform related duties as assigned.

**QUALIFICATIONS**

**Knowledge of:**

Operating characteristics of heavy construction equipment, including backhoe, bulldozers, loaders, cranes, and grades.

Methods, techniques and tools and the operational characteristics of mechanical equipment used in the construction and maintenance of streets, sewers, sidewalks, storm drains, water service facilities, and traffic signs/markings.

Procedures and techniques of concrete and asphalt work.

Hazards associated with the work and proper safety precautions.

Traffic laws, ordinances, and rules involved in truck and heavy equipment operations.

Purposes and uses of a variety of vehicles, equipment, power tools and hand tools including motorized, pneumatic, and hydraulic equipment.

Standards relating to installation, location and required maintenance of traffic signs and pavement markings.

City policies and procedures pertaining to street sweeping.

Operation, care, adjustments, and fault diagnosis of motorized street sweeper and auxiliary equipment.

Properties of backfill materials, construction materials, concrete, asphalt, hot patch, cold patch, oils, paints, and a variety of other materials used in maintenance work.

Application of pesticides and herbicides.

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Equipment, methods, and materials used in the installation, repair, maintenance, and cleaning of water mains, lines, and related facilities.

Pipefitting and cement work.

**Ability to:**

Skillfully operate and service a variety of types of heavy equipment.

Oversee the work of others.

Perform skilled maintenance, construction and repair work in the area of work assigned.

Operate a variety of vehicles and equipment in a safe and effective manner.

Work effectively in the absence of close supervision.

Use and operate hand tools, mechanical equipment, and power tools and equipment required for the work in a safe and efficient manner.

Read and interpret basic maps and blueprints.

Assist in the training and supervision of others and in the safe operation of equipment.

Do asphalt and concrete work; do pipe and masonry work; work with paints and prepare surfaces for painting.

Work safely and adhere to principles of safety when working near traffic or in other environments.

Establish cooperative working relationships with others.

**Physical Characteristics:**

Must be able to perform heavy manual labor, work outside in varying climatic conditions, lift heavy objects, and be in sufficiently good health to perform job duties.

**Experience and Training Guidelines:**

*Any combination of experience and education that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:*

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**Experience:**

One to two years similar to that of a Public Works Maintenance Worker II in the City of Redwood City.

**Education:**

Equivalent to completion of the twelfth grade.

**License or Certificate:**

Possession of a valid California Class A Commercial Driver's License is required.

If assigned to the Wastewater Management Services division (sewer assignment only), possession of a California Water Environment Association (CWEA) Collection System Maintenance Grade II certificate is required.

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**Effective Date:** May, 2004

**Bargaining Group:** Service Employees' International Union - Local 715

**Amended:** October, 2011