

**COUNTY OF SOLANO**  
**PUBLIC WORKS MAINTENANCE WORKER**

**Rev. 02/96**

As amended 02/08/96

**DEFINITION**

Under general supervision, performs construction and maintenance work on Public Works projects; performs related duties as required.

**DISTINGUISHING CHARACTERISTICS**

This is a journey level class performing a wide variety of tasks related to construction, repair, and maintenance of roads, flood control channels, roadside drainage, bridges, and traffic signs. This class is distinguished from Senior Public Works Maintenance Worker in that the latter is primarily a heavy equipment operator (motor graders, power shovels, etc.) and may guide and expedite the work of a small crew in road repair activities.

**EXAMPLES OF DUTIES**

Depending on whether assigned to the Road, Channel, or Traffic Maintenance division, duties may include but are not limited to the following:

**Channel Maintenance**

1. Drains roadside rain and flood waters and clears fallen trees and limbs, mud slides and other road hazards during winter storm months; clears and trims brush, trees, tree limbs and other material from the roadside, channels, channel roads, bridges or levees; operates loader power broom, shears, chain saws, chipper, and a variety of light and heavy mowers; sweeps intersections clear of debris and loose gravel.
2. Reconstructs damaged bridges, channels or levees and manually places rip rap; repairs access road washouts, fences, and access gates on wood and chain link fences by using small hand tools and welders as needed; repairs, installs or replaces culverts using front end loader, backhoe and a variety of power equipment; replaces water channel flap gates.

**Traffic Maintenance**

3. Stencils traffic lettering and speed limits on roadway using stencils and spray paint equipment and maintains a stenciling log; helps strip roads by finding the center of the roadway and marking the center using "cat pawing" techniques or by operating the lead car for the striper and filling the striper with paint and reflective beads; installs pavement markers.

**EXAMPLES OF DUTIES (Continued)**

4. Installs and repairs road signs and sign posts at proper height and angle and regularly inspects all signs on an assigned route; washes all signs using a power washer as needed and maintains a traffic sign log book; fabricates road signs using various materials, color and lettering in accordance with highway regulations and current needs; operates a sign baking machine.

**Road Maintenance**

5. Operates a dump truck and attached equipment to haul asphalt or other materials and spread material on roadways for chip sealing or dust coating or blade patching; installs guardrails along County roads; installs pavement markers.
6. Assists in permanent patch, pothole patch, chip seal, tack oiling, dust coat, blade patch, crack sealing, and pavement removal and replacement on various road projects; applies oils, aggregates, and blacktop to roadways; uses level lute, and various manual and power rollers to spread, level and compact road materials; installs pipe culverts under roadways; may keep track of bottom dumps of road aggregates during road construction and use calculator to compute amounts delivered.
7. Delivers, installs and removes voting machines, booths and ballot boxes as necessary for elections; sprays chemicals to eliminate or retard vegetation growth along roadsides and channels; installs and sets proper safety signs prior to performing road maintenance work; may act as flag person or pilot car operator during road reconstruction activities.

**QUALIFICATION GUIDELINES**

**Education and/or Experience**

Some construction and maintenance experience which demonstrates possession of and competency in requisite knowledge and abilities. Typical qualifying experience would be:

Twelve months of construction and maintenance experience which demonstrates possession of and competency as a journey level public works maintenance worker.

**Knowledge/Abilities**

**Considerable knowledge** of methods, techniques and materials used in road work such as chip sealing, patching, dust coating, crack sealing, and oiling; operation of equipment and tools commonly used in road construction, traffic signing pavement marking, and channel/bridge maintenance; construction signing for safety of motorists and workers; procedures used in road

**Knowledge/Abilities (Continued)**

repair and reconstruction; motor vehicle code as it relates to operation of construction equipment; traffic sign construction; traffic sign regulations and requirements; tree trimming methods and techniques, pavement marking methods and techniques; pavement marking regulations and requirement; guardrail installation methods; use of herbicides and maintenance of spray equipment; carpentry tools and methods as the relate to concrete forms and fences; methods and techniques of lifting and cribbing bridges; pouring and finishing concrete; materials, compaction methods and placement of material for rip rapping, backfill, and run off protection around bridges, channel slopes, and levees slopes; safe work methods around heavy equipment in traffic, canals and stream beds.

**Ability to** operate a variety of construction equipment in a safe and efficient manner; service and make minor adjustments and repairs to construction equipment; follow and understand verbal and written directions; detect uneven surfaces and level them out; establish and maintain cooperative working relationships; demonstrate tact and diplomacy in dealing with the public; work safely around vehicular traffic; proofread and/or edit for errors in spelling, grammar and punctuation on road signs; read and understand highway manuals regarding traffic signing and marking; operate hand and power pruning tools, power washers and spray painting and equipment; work at heights; make routine arithmetical calculations; determine the center of a roadway; determine proper sign placement and alignment; work around and mix paints, solvents, and glues; weld and construct fences and concrete forms; work with concrete; maintain balance in and around streams; and at heights of 50-75 feet.

**SPECIAL REQUIREMENTS**

Possession of a valid Class A California Driver's License with an X endorsement is required.

Incumbents and candidates applying for positions in this class may be subject to, depending on job assignment, drug and alcohol testing as required under the Federal Omnibus Transportation Employee Testing Act of 1991. Testing includes post-accident and pre-employment, as well as random and reasonable suspicion testing as required by law.

Incumbents must be able to perform heavy manual labor associated with construction and maintenance tasks; which involves the full range of body movements involving reaching, bending grasping and climbing, and may require lifting objects weighing up to 50-100 pounds.

Incumbents may be required to work with hot paving materials.

Incumbents must work out doors in all types of weather conditions; may be required to work outside normal business hours.