

**POSITION DUTY STATEMENT**

PM-0924 (REV 01/2022)

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| CLASSIFICATION TITLE<br>Senior Transportation Engineer, CT | OFFICE/BRANCH/SECTION<br>D10 Construction 501, District #910 |               |
| WORKING TITLE<br>Senior Resident Engineer (Specialist)     | POSITION NUMBER<br>910-501-3161                              | REVISION DATE |

As a valued member of the Caltrans leadership team, you make it possible for the Department to provide a safe and reliable transportation network that serves all people and respects the environment.

**GENERAL STATEMENT:**

Under direction of the Construction Manager (a Supervising Transportation Engineer), incumbent will perform a wide variety of difficult and complex transportation engineering work. Serves as the licensed professional Senior Resident Engineer on large and/or complex construction projects delivered under alternative delivery methods and/or valued in excess of \$30 million. Will assign work, give instructions, make decisions on difficult engineering and administrative problems in connection with directing work on various transportation projects. A valid Professional Engineering License (Civil) required for appointment.

**CORE COMPETENCIES:**

As a Senior Transportation Engineer, CT, the incumbent is expected to become proficient in the following competencies as described below in order to successfully perform the essential functions of the job, while adhering to and promoting the Department's Mission, Vision, Values, Strategic Imperatives and Goals. Effective development of the identified Core Competencies fosters the advancement of the following Leadership Competencies: Change Commitment, Risk Appetite, Self-Development/Growth, Conflict Management, Relationship Building, Organizational Awareness, Communication, Strategic Perspective, and Results Driven.

- **Flexibility and Managing Uncertainty :** Adjusts thinking and behavior in order to adapt to changes in the job and work environment. (Cultivate Excellence - Engagement, Innovation)
- **Decision Making:** Makes critical and timely decisions. Takes charge. Supports appropriate risk. Makes challenging and appropriate decisions. (Cultivate Excellence, Strengthen Stewardship and Drive Efficiency - Engagement, Integrity, Pride)
- **Ethics and Integrity:** Demonstrated concern to be perceived as responsible, reliable, and trustworthy. Respects the confidentiality of information or concern shared by others. Honest and forthright. Conforms to accepted standards of conduct. (Cultivate Excellence, Strengthen Stewardship and Drive Efficiency - Integrity)
- **Problem-solving and Decision-making :** Identifies problems and uses logical analysis to find information, understand causes, and evaluate and select or recommend best possible courses of action. (Cultivate Excellence, Strengthen Stewardship and Drive Efficiency - Engagement, Integrity)
- **Relationship Building:** The ability to develop and maintain internal and external trust and professional relationships, which includes listening and understanding to build rapport. (Cultivate Excellence, Strengthen Stewardship and Drive Efficiency - Engagement)
- **Customer Focus:** Considers, prioritizes, and takes action on the needs of both internal and external customers. (Strengthen Stewardship and Drive Efficiency - Engagement)
- **Communication:** Expresses oneself clearly in all forms of communication. Gives feedback and is receptive to feedback received. Knows that listening is essential. Keeps others in the Division and other functional units informed as appropriate. (Cultivate Excellence, Strengthen Stewardship and Drive Efficiency - Engagement, Integrity)
- **Analytical Skills:** Approaches problems using a logical, systematic, and sequential approach. Weighs priorities and recognizes underlying issues. (Cultivate Excellence - Engagement)
- **Technical Expertise:** Depth of knowledge and skill in a technical area. (Cultivate Excellence, Strengthen Stewardship and Drive Efficiency - Innovation, Integrity)

**TYPICAL DUTIES:**

| Percentage                              | Job Description |
|---|-----------------|
| Essential (E)/Marginal (M) <sup>1</sup> |                 |

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| 45% | E | Performs the duties of lead worker over a team of inspectors, materials testers, consultants, and office personnel engaged in construction inspection on projects delivered under an alternative delivery method and/or valued in excess of \$30 million. This will include but is not limited to coordinating/assigning work, training, giving instructions, and making decisions on various engineering and administrative tasks in connection with various transportation projects. The incumbent will give instructions to contractors. The contractor works at many tasks and completes many items of work on a project. These are covered by complex specifications, and the Senior Resident Engineer must interpret and enforce the State's requirements to ensure compliance. Ensures engineering integrity of construction projects including plan revisions, make engineering inspections; ensures compliance with plans and specifications; monitors contractor's work and progress; time-impact analysis; measures and records pay quantities; prepares daily reports. The Senior Resident Engineer duties include analyzing the plans and estimating. Writes reports and makes estimates of a specialized nature in connection with various highway or other transportation projects. Reports any personnel, training, or staffing issues to the Senior Transportation Engineer (Supervisor) for resolution. |
| 35% | E | Responsible for reviewing and approving contract change orders, progress and final pay estimates, comprehensive field reports, and miscellaneous correspondence. Reviews plans and estimates for completeness and accuracy. Prepare comprehensive reports and correspondence; writes reports and conducts engineering investigations to insure compliance with applicable laws, ordinance, standards, plans and specifications. Assists the Construction Manager with construction contract claims resolution. Makes Contract Acceptance recommendations.   |
| 5%  | E | Responsible to make sure that expenditures do not exceed allotted funds and if at any time it becomes apparent that the balance of funds is not sufficient to complete the projects than these concerns need to be elevated promptly to the Construction Manager. Incumbent is also responsible to communicate any delivery date commitment issues to Construction Manager.   |
| 5%  | E | Ensures that project construction conforms to traffic control, environmental, hazardous waste and storm water pollution prevention criteria. Assist with ensuring performance of all safety-related activities. Traffic Management planning. Assist with ensuring compliance with regulations and specifications related to labor and civil rights.   |
| 5%  | M | Coordinates resources such as equipment, vehicles, offices, construction staking requests and overtime.   |
| 5%  | M | Assist with ensuring that the project records are maintained per the Construction Manual. Act as subject matter expert during alternative delivery pre-construction procurement activities including, but not limited to, contract price reconciliation, subcontractor selection processes, value engineering proposal analysis, risk identification, risk ownership assessment/analysis, and work order package evaluation.  |

<sup>1</sup>ESSENTIAL FUNCTIONS are the core duties of the position that cannot be reassigned.

MARGINAL FUNCTIONS are the minor tasks of the position that can be assigned to others.

**SUPERVISION OR GUIDANCE EXERCISED OVER OTHERS**

None. Incumbent will serve as lead worker and may be called upon to act in absence of the supervisor for a short duration. Incumbent may serve as a lead for functional guidance in training and assisting less experienced employees.

**KNOWLEDGE, ABILITIES, AND ANALYTICAL REQUIREMENTS**

Knowledge of: Basic principles of physics, chemistry, and mathematics as applied to civil engineering; stress analysis; mechanics; engineering economics; hydrology and hydraulics.

Incumbent should have knowledge of: Storm Water Pollution Prevention Plans (SWPPP); Cal/OSHA safety regulations; methods, materials, tools and equipment used in highway and bridge construction; design engineering; cost estimating; knowledge of the various influences of transportation facilities and systems on the environment; testing of materials; principles and practices used in utility relocation; scheduling; critical path method (CPM) scheduling; and safety practices.

Incumbent must have a complete knowledge of contract administration paperwork and documentation. Must have knowledge of the Construction Manual, Standard Specifications, and Special Provisions. The Senior Resident Engineer must thoroughly study the assigned projects, becoming familiar with all its facets. Incumbent is required to have a advanced degree of analytical skill to determine if construction work meets specification requirements and to interpret plans and specifications correctly. The Senior Resident Engineer will be expected to work under considerable independence and make judgment calls as to when issues, problems, or contract clarifications needs to be elevated to the Construction Manager. The Senior Resident Engineer has authority under Section 5-1.01, "Authority of the Engineer", of the Standard Specifications. Incumbent to work closely with Assistant Resident Engineers(The Assistant Resident Engineers will be making recommendations and elevating all issues that

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have a mandate that only a licensed Professional Engineer has authority).

Ability to communicate effectively, both verbally and in writing, and work under pressure is required. Must be able to prepare reports and correspondence. Must be able to use and understand computers. Must have the ability to make neat and accurate mathematical calculations and engineering notes; and possess interpersonal skills necessary to be an effective team member.

Must be able to organize and prioritize. Must be able to concentrate, formulate effective strategies, be multi-tasked, adapt to changes in priorities, and complete complex task or projects with short notice. Ability to resolve emotionally charged issues reasonably and diplomatically. Must be able to develop and maintain cooperative working relationships.

Must have the ability to evaluate work methods and traffic conditions closely, both before and during the work, to assure safety.

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**RESPONSIBILITY FOR DECISIONS AND CONSEQUENCES OF ERROR**

The Senior Resident Engineer is responsible for ensuring the contract is built according to plans and specifications, that construction operations provide for the safety of employees and the traveling public and that all changes in the contract are covered by change orders agreed upon by the contractor and the State. Incumbent monitors contract funds and alerts the Construction Manager to problems in a timely manner. Incumbent monitors delivery date commitments and alerts the Construction Manager to problems in a timely manner.

Failure to understand and failure to incorporate appropriate standards, requirements and policies into work product may result in expensive waste of time and materials, cause additional work and project delays, and could result in excessive construction contract claims, and unnecessary costs to the State. An error in decision, judgment, or the processing of estimates or other contract administration paperwork would result in errors in payment to contractors and/or providers of service under contract with the Department. Poor engineering decisions made by incumbent could cause reduction of productivity

Incumbent is responsible for his/her actions, decisions, quality of work, and proper use of State time, equipment and materials. Improper performance of duties and/or failure to adhere to established policies, procedures and guidelines could lead to adverse action and possible termination.

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**PUBLIC AND INTERNAL CONTACTS**

Incumbent must be able to communicate effectively with others including Department staff, technical/professional level staff of outside agencies, assistant resident engineers, contractor's personnel and members of the public regarding construction projects. Has frequent contact with City and County representative, private contractors, traveling public, Senior Engineers and their staff, and other branches, both District and Headquarters, to provide a coordination of effort in processing estimates, payments and other documents that are handled by the Construction Field Office. Incumbent must be able to communicate effectively with Contractor's personnel, property owners and internal personnel. Good communicative skills are essential in carrying out the duties.

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**PHYSICAL, MENTAL, AND EMOTIONAL REQUIREMENTS**

Must be able to lead. Must be able to work on uneven ground, climb, lift, carry, bend, squat, kneel, crouch, reach, pull, push, grasp, sit, stoop, crawl, and repetitive use of extremities. Must be able to transport variety of objects that are less or equal to 40 pounds. Hard hat and safety vest or approved safety shirt must be worn at all times in the field, no exceptions. May be required to sit for long periods of time. May be required to stand for long periods of time.

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**WORK ENVIRONMENT**

Job will have exposure to night work, field work, earthwork, paving operations, lab work, fog, weather conditions, chemicals, lab conditions, equipment, machinery, heat, cold, dust, gas, fumes, outdoor conditions, indoor conditions, humidity, and high decibels of noise. Hardhat and safety vest or approved safety shirt, and eye protection must be worn at all times in the field, no exceptions. Incumbent must work with a variety of materials including testing equipment. While at the Construction office employees will normally work in a climate-controlled office under artificial light. However due to periodic problems with the heating and air conditioning, the building temperature may fluctuate. Workload may subject employee to night work, flexible hours, frequent changes of shift, frequent changes of work hours and workdays, and geographic transfer. Travel is required. A valid California driver's license is desired. Incumbent may be required to travel on short-term and/or long-term expense. Vacations may be restricted during peak times. Overtime may be required.

Incumbent will be required to participate and complete the Caltrans Resident Engineer Certificate Program.

This position may be eligible for telework. The amount of telework is at the discretion of the Department and based on Caltrans's evolving telework policy. Caltrans supports telework, recognizing that in-person attendance may be required based on

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operational needs. Employees are expected to be able to report to their worksites with minimum notification if an urgent need arises. The selected candidate will be required to commute to the headquarterd location as needed to meet operational needs. Business travel may be required, and reimbursement considers an employee's designated headquarterd location, primary residence, and may be subject to CalHR regulations or applicable bargaining unit contract provisions. All commute expenses to the headquarterd location will be the responsibility of the selected candidate.

I have read, understand and can perform the duties listed above. (If you believe you may require reasonable accommodation, please discuss this with your hiring supervisor. If you are unsure whether you require reasonable accommodation, inform the hiring supervisor who will discuss your concerns with the Reasonable Accommodation Coordinator.)

EMPLOYEE (Print)

EMPLOYEE (Signature)

DATE

I have discussed the duties with, and provided a copy of this duty statement to the employee named above.

SUPERVISOR (Print)

SUPERVISOR (Signature)

DATE