

**City of Merced – Proposed Scope of Work  
On-Call Consultant Services:  
General Civil Engineering, Survey, & Traffic Engineering**

## **Proposed Scope of Work**

Below is the scope of services we can offer under the on-call General Civil Engineering, Survey and Traffic Engineering contract.

### **General Civil Engineering**

Our decades of experience in providing engineering services to public agencies throughout the state makes us **the most helpful firm in California** to provide a complete array of services, including the following:

- Preliminary Design Reports (PDRs)
- Utility Planning and Coordination
- Storm Drainage Design
- Water Storage, Distribution, and Supply
- Sanitary Sewer Design
- Water and Wastewater Treatment
- Certified Accessibility Specialist (CASp) Review
- Management Plans for Water, Sewer, and Storm Drainage
- Infrastructure Master Plans and Fee Studies
- Street and Road Design
- Roundabout Design
- Grade Separations
- Traffic Signal, Signage, and Pavement Delineation Design
- Pavement Management
- Construction Engineering, Observation and Monitoring, Management, and Permitting
- Development Plan Checking Services
- Grant Writing and Project Funding Assistance
- Contract City or District Engineer Services

### **Survey**

Representative land surveying services performed on an as-needed basis include:

- Review of Final and Parcel Maps, Records of Survey, and Lot Line Adjustments
- Review of Development Improvement Plans
- Topographic, ALTA, Boundary and Cadastral Surveys
- Construction Staking
- Right-of-way Acquisitions
- Parcels Maps

### **Traffic Engineering**

QK's traffic engineering staff includes licensed civil and traffic engineers with extensive experience in the subdisciplines essential to providing complete traffic engineering services, including the following:

- Traffic Engineering Design (including the use of the Caltrans Standard Specifications and Standard Plans)
- Traffic Operations Analysis
- Transportation Studies
- Traffic Engineering Reports
- Traffic Signal Design

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- Bicycle and Pedestrian Facilities
- Active Transportation Plans
- Roundabouts
- Neighborhood Traffic Calming
- Safe Routes to School
- Roadway Lighting
- Ramp Metering
- Sign Lighting
- Traffic Handling
- Signing
- Pavement Delineation
- Expert Witness Testimony for Traffic-Related Matters
- Traffic Signal and Traffic Signal System Evaluation
- Red Light Traffic Monitoring Facilities
- Engineering and Traffic Surveys (Speed Zone Studies)
- On- and Off-Street Parking Analysis Studies
- Parking Facilities Design
- Traffic Control Device Assessments

***Utility Coordination***

Below are the utility coordination services we can provide:

- Submittals of Improvement Plans to Affected Utility Company
- Preparation of Utility Company Applications and Contract Reviews
- Coordination services for Subdivisions and Commercial Developments
- Joint Trench Composites
- Coordination of Relocations for Road Improvements/Widening Projects
- Coordination of New Power Connections for Well Sites and Lift Stations
- Coordination of On-Site Upgrades with Local Power Companies
- Rule 20A Underground Districts
- Researching Utility Locations for Design and Construction
- Research and Due Diligence Reports – Site Specific
- Coordination of Power Connections for New Streetlights and Traffic Signals
- Coordination and Permitting/License Agreements with Railroads
- Site Development, Site Acquisition and Zoning for Cell Towers

***Landscape Architecture***

Our team is up-to-date on the current Model Water Efficiency Landscape Ordinance (MWELO), as part of a statewide effort to reduce water waste. Landscapes designed by our professionals incorporate designs that meet the new MWELO requirements.

How we help clients with Landscape Architecture:

- Public Parks
- Site Planning
- Planting and Irrigation Design
- Paved and Grassy Recreation Facilities
- Sports Parks

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- Skate Parks
- Tot Lots and Pre-teen Playgrounds
- Streetscapes
- Pedestrian Malls
- Bicycle and Pedestrian Trails
- Picnic and Barbeque Facilities
- Disc Golf Courses
- Decorative Lighting and Fencing
- Splash Pads
- Existing Park Renovations
- Accessible Playground Design
- MWELo Existing Irrigation Evaluations
- Visual Impact Assessments (VIA) for EIRs

***Environmental Compliance***

If needed, QK's skilled planning professionals can assist in addressing environmental concerns with innovative, cost-effective solutions.

QK's environmental planning staff has prepared over 4,000 CEQA and NEPA environmental documents that successfully meet project objectives and schedules while complying with ever changing environmental regulations. QK's team of environmental planners is well versed in the preparation of the CEQA and NEPA services anticipated for the proposed project.

***Additional Capabilities***

QK also has the capability to provide a number of additional services. Below are some brief titles of the additional services that we provide.

- Construction Management & Observation
- Labor Compliance
- Geographical Information Systems (GIS)
- Urban Design
- Land Use Planning
- Biology & Environmental Permitting



**2018 Charge Rate Schedule**

<b>Technical Services</b>	
<b>Project Assistant</b>	<b>\$66 /hour</b>
<b>Project Administrator</b>	<b>\$88 /hour</b>
<b>Assistant CADD Technician/Designer /GIS Technician</b>	<b>\$83 /hour</b>
<b>Associate CADD Technician/Designer /GIS Analyst</b>	<b>\$97 /hour</b>
<b>Senior Associate CADD Technician/Designer/ GIS Analyst</b>	<b>\$112 /hour</b>
<b>Senior CADD Technician/Designer /GIS Analyst</b>	<b>\$127 /hour</b>
<b>Professional Services</b>	
<b>Engineering</b>	
<b>Assistant Engineer</b>	<b>\$110 /hour</b>
<b>Associate Engineer</b>	<b>\$133 /hour</b>
<b>Senior Associate Engineer</b>	<b>\$156 /hour</b>
<b>Senior Engineer</b>	<b>\$180 /hour</b>
<b>Principal Engineer</b>	<b>\$199 /hour</b>
<b>Planning/Environmental/Landscape Architecture</b>	
<b>Assistant Planner/Environmental Scientist</b>	<b>\$77 /hour</b>
<b>Associate Planner/Environmental Scientist</b>	<b>\$97 /hour</b>
<b>Senior Associate Planner/Environmental Scientist</b>	<b>\$121 /hour</b>
<b>Senior Planner/Environmental Scientist/Landscape Architect</b>	<b>\$142 /hour</b>
<b>Principal Planner/Environmental Scientist</b>	<b>\$157 /hour</b>
<b>Senior Principal Planner/Environmental Scientist</b>	<b>\$187 /hour</b>
<b>Construction and Project Management</b>	
<b>Field Construction Observer</b>	<b>\$99 /hour</b>
<b>Associate Field Construction Observer</b>	<b>\$118 /hour</b>
<b>Senior Field Construction Observer</b>	<b>\$138 /hour</b>
<b>Assistant Construction Manager</b>	<b>\$110 /hour</b>
<b>Associate Construction Manager</b>	<b>\$129 /hour</b>
<b>Project Manager</b>	<b>\$133 /hour</b>
<b>Senior Associate Construction/Project Manager</b>	<b>\$148 /hour</b>
<b>Senior Construction/Project Manager</b>	<b>\$165 /hour</b>
<b>Principal Project Manager</b>	<b>\$180 /hour</b>
<b>Surveying</b>	
<b>Assistant Surveyor</b>	<b>\$97 /hour</b>
<b>Associate Surveyor</b>	<b>\$110 /hour</b>
<b>Senior Associate Surveyor</b>	<b>\$133 /hour</b>
<b>Senior Surveyor</b>	<b>\$156 /hour</b>
<b>One-Person Survey Crew</b>	<b>\$121 /hour</b>
<b>Two-Person Survey Crew</b>	<b>\$198 /hour</b>
<b>Three-Person Survey Crew</b>	<b>\$240 /hour</b>

Fees are based on the median hourly pay rate for employees in each classification, plus indirect costs, overhead, and profit.

**Expenses:**

<b>Plotting, In-house Printing and Reproduction, Equipment Rentals, Laboratory Analyses</b>	<b>1.15 x Cost</b>
<b>Transportation and per diem</b>	<b>1.15 x Cost</b>
<b>Mileage</b>	<b>\$0.63/mile</b>
<b>Off-road vehicles</b>	<b>\$50.00/day</b>
<b>Communication expenses (telephone, parcel post, etc.)</b>	<b>1.15 x Cost</b>
<b>Other Expenses – Including Subconsultants &amp; Purchased Services through Subcontracts</b>	<b>1.15 x Cost</b>

Rates are effective through December 31, 2018. If contract assignment extends beyond that date, a new rate schedule may be added to the contract. Litigation support will be billed at \$300 per hour. Rates based on "Prevailing Wage" (PW) for Construction Surveying will be determined by project and County per California law.