



Jason Pereira, PE, CPSWQ, QSD/P, QISP, CGP/IGP-ToR

Jason Pereira is a founding Principal of CWE with 24 years of experience in developing and implementing of stormwater management programs for compliance with NPDES Permit requirements and has prepared numerous documents for the implementation of pollution prevention practices including WQMPs, SWPPPs, Erosion Control Plans, SPCC Plans, and TMDL Implementation Plans. He has worked extensively on projects to obtain tangible, cost-effective improvements in water systems and urban runoff water quality through proactive initiatives in regulatory compliance. As a technical expert, Jason has presented numerous workshops on critical water-related issues at CASQA Annual Conferences and other events.

RELEVANT EXPERIENCE

City of Torrance Stormwater Basin and Treatment

Wetlands Enhancement Principal-in-Charge for the design of two treatment wetlands and two infiltration basins to retain, treat, and infiltrate stormwater runoff. This project helps the City comply with the Santa Monica Bay Beaches Bacteria TMDL requirements. Designed two 10-inch and one 14-inch pressured storm drain lines. Performed a wetlands sustainability analysis to evaluate dry-weather inflows, evaporation, evapotranspiration, and infiltration and ensure the long-term functionality of the wetlands system. Conducted a hydrologic analysis using MODRAT in WMS to evaluate the reservoir routing and pumping from the interconnected wetlands/detention basin system under Capital Flood and SUSMP conditions. Conducted public outreach to gain input from the nearby community and residents. Designed construction documents for the proposed improvements, including site grading, roadway paving, recycled water line, and piping plans; retaining walls; park lighting and signage; stream channel and infiltration basin design; trails, viewing areas, and landscaping details; a water-tight system for irrigation; inlet and outlet structures; bridge structures; culverts, pump stations, and other control structures; electrical and mechanical plans; and SCADA plans. The project included coordination with the LACFCD. Special consideration was given to protect the burrowing owl habitat and the legless lizard. Performed legless lizard surveys prior to and during construction. Specifications per Greenbook and special provisions and estimates were also prepared.



Years of Experience

24

Education

BS, Civil Engineering,
University of California,
Los Angeles

Registrations

Civil Engineer, CA, 61509

Certified Professional in
Storm Water Quality, 527

Qualified SWPPP Developer/
Practitioner, 21

Qualified Industrial
Stormwater Practitioner, 090

Industrial General Permit
Trainer of Record, 090

Construction General Permit
Trainer of Record

Awards and Recognition

Storm Water Solutions
magazine, "Industry Icon,"
2015

City of Los Angeles Laurel Canyon Boulevard Green Street Design-Build This project received awards from the ASCE Los Angeles Section, ASCE Metropolitan Los Angeles Branch, and CASQA. Principal-in-Charge for the design of bioswales along 1,000 linear feet of Laurel Canyon Boulevard for LA Sanitation – City of Los Angeles and the Los Angeles Conservation Corps. The project provided increased groundwater recharge, reduced flooding impacts, protected compatible beneficial uses, and improved the neighborhood quality of life. This was accomplished by the design of a series of infiltration swales along Laurel Canyon Boulevard between Kagel Canyon Street and Terra Bella Street with curb, gutter, and sidewalk improvements. This project collected stormwater runoff from a 125-acre drainage area. Duties included developing design and traffic control plans and performing construction management.

City of Los Angeles Garvanza Park Rainwater Capture and Use This project received the prestigious CASQA Outstanding Stormwater BMP Implementation Project Award. Principal Engineer responsible for assisting LA Sanitation – City of Los Angeles and North East Trees to determine the feasibility of retrofitting Garvanza Park with regional stormwater management BMPs to enhance urban and stormwater runoff water quality from an 85-acre watershed for TMDL compliance. Designed a drainage system to route runoff from an existing 48-inch RCP storm drain into a pretreatment BMP system consisting of a hydrodynamic separator and settling basin, one water tight subsurface detention gallery, and one subsurface-infiltration gallery for onsite landscape irrigation use and infiltration. Designed the pump station with SCADA and inline monitoring systems. Delineated and characterized the tributary watershed to conduct a hydrologic and hydraulic analysis, and performed a pollutant load removal analysis for the proposed structural treatment controls. Performed tasks involving utility research, topographic ground surveying, potholing, a geotechnical analysis, including onsite infiltration testing, and shoring analysis. Delivered PS&E construction documents and assisted with the bid process. Performed construction administration duties, including construction inspection and material testing. Performed post-construction water quality monitoring to assess BMP function and effectiveness, which proved the project is showing tangible results in terms of TMDL compliance. Worked with stakeholders to identify concerns prior to and during construction.

City of Beverly Hills Burton Way Median Green Street Principal-in-Charge for a feasibility study and the design of bioswales and green street improvements to capture and retain urban runoff on the Burton Way median in the City of Beverly Hills. These improvements will assist the City in complying with the Ballona Creek Watershed EWMP and the Ballona Creek Metals TMDL. The project includes aesthetic improvements with efficient landscape design, including drought-tolerant plants that reduce outdoor irrigation use and help the City meet water conservation objectives. The multi-benefit design incorporates walking trails, including public art displays and an aesthetically pleasing landscape. The project will enhance water quality, reduce flooding impacts, and provide a beautiful, tranquil community space that increases public awareness of stormwater quality and water conservation issues.



Vik Bapna, PE, ENV SP, CPSWQ, QSD/P

Vik Bapna is an award-winning civil engineer with 29 years of experience in the planning, design, and construction of more than \$200 million worth of civil engineering projects, ranging from single-lot developments to regional stormwater best management practice (BMP) projects with multiple stakeholders. His experience includes developing multi-benefit water quality enhancement projects, developing multiuse projects to infiltrate urban and stormwater runoff, designing structural treatment control BMPs, and developing project concepts. Vik was responsible for developing the first urban watershed plan that addressed flood protection, water quality enhancements, creation of open space and recreational opportunities, and habitat enhancements.

RELEVANT EXPERIENCE

City of Torrance Stormwater Basin and Treatment

Wetlands Enhancement Project Manager for the design of two treatment wetlands and two infiltration basins to retain, treat, and infiltrate stormwater runoff. Managed the design of two 10-inch and one 14-inch pressured lines. Supervised topographic and boundary survey and coordinated a geotechnical investigation for the design of earthwork, pipelines, structures, and other site improvements. Performed a wetlands sustainability analysis to evaluate dry-weather inflows, evaporation, and infiltration and ensure the long-term functionality of the wetlands system. Conducted a hydrologic analysis using MODRAT in WMS to evaluate the reservoir routing and pumping from the interconnected wetlands/detention basin system under Capital Flood and LID Plan conditions. Conducted public outreach to gain input from the nearby community and residents. Managed design of construction documents for improvements, including site grading, roadway paving, recycled water line, and piping plans; retaining walls; park lighting and signage; stream channel and infiltration basin design; trails, viewing areas, and landscaping details; a water-tight system for irrigation; inlet and outlet structures; bridge structures; culverts, pump stations, and other control structures; electrical and mechanical plans; and Supervisory Control and Data Acquisition (SCADA) plans. Coordinated with the Los Angeles County Flood Control District (LACFCD). Special consideration was given to protect the burrowing owl habitat and the legless lizard. Managed legless lizard surveys prior to and during construction.



Years of Experience

29

Education

BS, Civil Engineering, 1991,
New Jersey Institute of
Technology

Registrations

Civil Engineer, CA, 52060

Envision™ Sustainability
Professional Credential

Certified Professional in
Storm Water Quality, 543

Qualified SWPPP Developer/
Practitioner, 368

Awards and Recognition

Orange County Engineering
Council, "Outstanding
Engineering Merit Award,"
2015

Storm Water Solutions
magazine, "Industry Icon,"
2015



City of Santa Monica Los Amigos Park Stormwater Harvesting and Direct Use

Demonstration Project Manager for the design of a demonstration project that tapped into an existing storm drain line running along a school athletic field and the City of Santa Monica's Los Amigos Park, rerouted stormwater and dry-weather flows from the storm drain through a vortex system into a cistern, treated the stormwater and dry-weather runoff, and delivered highly-treated water to the park irrigation system and indoor plumbing for toilet flushing. The project's purpose was to demonstrate the feasibility of harvesting local water resources such as storm drain flows to decrease potable water use, reduce polluted urban runoff discharge to the receiving water body, and protect the future of California's water supplies. Tasks performed included: developing a project study report, performing a geotechnical investigation and utility search, preparing design PS&Es, obtaining regulatory approvals, public education and outreach, construction support, preparing a Sampling and Analysis Plan, assisting the City in report preparation, and designing educational signage.

City of San Fernando Regional Park Infiltration Principal-in-Charge for design services for the San Fernando Regional Park, which consists of installing an underground manufactured infiltration system, and removing/replacing the existing baseball field and irrigation system. The infiltration system will serve a drainage area greater than 400-acres and recharge groundwater sources with approximately 200 acre-feet of stormwater annually. The system has a single storm capture capacity greater than 24 acre-feet. Tasks include: utility and community coordination; conducting a preliminary design report; performing environmental studies that meet CEQA requirements; obtaining permits; providing topographical surveys; conducting a geotechnical investigation report; developing a plan for landscape and irrigation improvements; preparing a hydrologic and hydraulic study; providing potholing services; preparing PS&Es; preparing an O&M manual for proposed structural stormwater BMPs, pretreatment devices, and stormwater infiltration system; and providing bid and construction support.

City of Beverly Hills Burton Way Median Green Street Project Manager for the design of bioswales and green street improvements to capture and retain urban runoff on the Burton Way median in the City of Beverly Hills. These improvements will assist the City in complying with the Ballona Creek Watershed EWMP and Ballona Creek Metals TMDL. Designing aesthetic improvements with efficient landscape, including drought-tolerant plants that reduce outdoor irrigation use and help the City meet water conservation objectives. Runoff will be used for median irrigation, reducing the need for potable water and there will be up to eight acre-feet of storm water storage beneath the median. The multi-benefit design incorporates walking trails, public art displays and an aesthetically pleasing landscape.

City of Los Angeles Garvanza Park Rainwater Capture and Use Project Manager responsible for assisting LA Sanitation – City of Los Angeles and North East Trees to determine the feasibility of retrofitting Garvanza Park with subregional stormwater management BMPs to enhance urban and stormwater runoff water quality from an 85-acre watershed for Total Maximum Daily Load (TMDL) compliance. Managed the design of a drainage system to route runoff into a pretreatment BMP system consisting of a designed pump station, hydrodynamic separator and settling basin, one water tight subsurface detention gallery, and one subsurface-infiltration gallery for onsite landscape irrigation use and infiltration, Supervisory Control and Data Acquisition (SCADA), and inline monitoring systems.



William “Bill” Young, PE

William “Bill” Young is a respected leader in the California civil engineering community, with 40 years of experience managing large and small design projects from conceptualization and design through construction. Bill’s experience covers a diverse range of community improvement projects, involving parking lot, street, curb, and gutter repairs and improvements; highway design; pavement rehabilitation design, including pervious pavement and interlocking pavers; bioswales and bioretention systems; stormwater BMPs; flood control infrastructure; and irrigation lines. He also has experience obtaining all necessary permits for these projects. His career experience includes three years of field survey, including field topography, boundary, construction staking, and as-built verification for utilities and flood control projects.

RELEVANT EXPERIENCE

City of Bell Gardens John Anson Ford Infiltration Cistern Project to Capture Urban Runoff Project Manager for developing design PS&Es for this urban runoff capture project. John Anson Ford Park is located in the City of Bell Gardens and the project will help the City and the Lower Los Angeles River Upper Reach 2 Watershed Management Group meet its NPDES MS4 Discharge requirements. The project will capture dry weather and storm runoff from a highly industrialized urban catchment area of 2,295 acres. The project is anticipated to provide compliance with existing water quality objectives for the entire Rio Hondo watershed portion of the LAR UR2 WMA. Tasks include: a geotechnical field analysis, utility search, hydrologic and hydraulic analysis, topographic mapping, preparation of design plans, construction specifications, and engineering cost estimates.

City of El Monte Garvey Avenue Grade Separation Drainage Improvement Project Manager for improving drainage infrastructure in the City of El Monte by identifying and delineating tributary areas that contribute stormwater flow to the Garvey Avenue underpass. The project involves upgrades to the existing drainage system, including installation of new catch basins, inlets, and storm drain pipes; improvements to the existing pump station diverting the stormwater to the storm drain system; and implementation of green infrastructure initiatives to retain, reuse, or infiltrate the collected stormwater runoff. Tasks include: project management; stakeholder outreach; technical evaluations; right-of-way acquisition; obtaining regulatory permits from the USACE, RWQCB, and CDFW; preparing PS&Es; developing an O&M plan; and providing assistance with funding opportunities.



Years of Experience

40

Education

BS, Civil Engineering, 1979,
California State Polytechnic
University, Pomona

Registrations

Civil Engineer, CA, 35715

Affiliations

American Society of Civil
Engineers
American Public Works
Association



City of Burbank Johnny Carson Park Improvement and Stream Restoration This project received the American Society of Landscape Architects (ASLA) Southern California Quality of Life Award. Project Manager and Design Lead for civil design services for park improvements and the restoration of an urban stream through the 17-acre Johnny Carson Park in the City of Burbank. The restoration involved the removal of concrete and asphalt stream channel lining and its replacement with a bioengineered channel. The channel flows under two pedestrian bridges that required evaluation for loads, as well as analysis for scour related to flow constrictions since the abutments were to remain in place. A topographic survey was conducted, the bridges were inspected, the channel hydraulics were analyzed and a restored channel was designed. Other services included Plans, Specifications & Estimates (PS&E) for grading, drainage, access road enhancements, retaining walls, and walking trails.

City of Long Beach El Dorado Nature Center Improvement Task Manager for civil design services for improvements to the El Dorado Nature Center (EDNC). The project design will reflect the EDNC’s environmental mission by integrating creative and sustainable green elements into the park improvements. Tasks include: restoring and improving the parking lot, constructing ADA-accessible paths and trails to connect the parking lot and main entrance, designing a main entrance bridge replacement, enhancing the main entry gate and signage, improving the outdoor amphitheater for educational sessions and events, upgrading the entry site lighting, improving the play area and integrating natural materials, and replacing non-native trees and shrubs with appropriate native landscaping.

Mountains Recreation and Conservation Authority Mission Canyon Trailhead Task Manager for the preparation of civil, structural, and electrical plans and specifications for the Mission Canyon Trailhead project. Civil engineering services include preparing a site grading plan using topographic survey and site layout, preparing site control and utility plans (electrical, sewer, and potable water), preparing drainage design and calculations, preparing water quality-required designs and reports, preparing CSI format civil specifications, providing permitting support, and coordinating with CEQA to provide estimates quantities of earthwork and pavement. Structural engineering services include reviewing geotechnical reports, preparing structural notes and calculations, and reviewing plans, elevations, sections, and details for the retaining wall and parking lot light foundation.

Los Angeles County Department of Parks and Recreation Earvin Magic Johnson Park Design Lead for conceptual design, schematic design, construction documents and administration, plan checks, bidding, and as-built drawings for improvements to Earvin Magic Johnson Park and Ujima Village. The Earvin Magic Johnson Park is a facility that serves a portion of the greater Los Angeles area with limited park facilities. The Los Angeles County Department of Parks and Recreation (LACDPR) plans to renovate the facility. The renovation includes improvements to the south lake area, including the addition of a community center, a splash pad, playground facilities, and use of stormwater for irrigation and lake water replenishment. A water and sewer study was conducted to assess the feasibility of bringing potable water from the existing water line, adding a line for fire hydrants, and delivering waste water to the existing water system. Tasks include topographic surveys, hydrology study and drainage analysis, grading, utility search, and topographic mapping of the 113-acre park.



Ben Willardson, PhD, PE, ENV SP, D.WRE, QSD/P

Dr. Ben Willardson has 20 years of professional experience and is a Southern California stormwater management expert. He has extensive experience in the development and review of hydrologic, hydraulic, and sediment transport models and has been heavily involved in the implementation of stormwater management programs for compliance with National Pollutant Discharge Elimination System (NPDES) Permit requirements for the County of Los Angeles and has guided the development of methodologies to evaluate the effective use of Best Management Practices (BMPs) within the County. He has reviewed hydrologic and stormwater quality methodologies for implementations as standards within Los Angeles County. Ben has operated 14 dams and 27 spreading grounds for flood control and water conservation within the complex flood control system serving Los Angeles County, and has represented the interests of the County during discussions with the Los Angeles Regional Water Quality Control Board and U.S. Environmental Protection Agency regarding discharge of water from Superfund sites into the flood control system.

RELEVANT EXPERIENCE

City of Torrance Stormwater Basin and Treatment

Wetlands Enhancement This project received awards from APWA, ASCE, *ENR*, CASQA, and *Storm Water Solutions* magazine. Technical Manager for the design of two treatment wetlands and two infiltration basins to retain, treat, and infiltrate stormwater runoff. This project helps the City comply with the Santa Monica Bay Beaches Bacteria TMDL requirements. Designed two 10-inch and one 14-inch pressured storm drain lines. Performed a wetlands sustainability analysis to evaluate dry-weather inflows, evaporation, evapotranspiration, and infiltration and ensure the long-term functionality of the wetlands system. Conducted a hydrologic analysis using MODRAT in WMS to evaluate the reservoir routing and pumping from the interconnected wetlands/detention basin system under Capital Flood and LID Plan conditions. Conducted public outreach to gain input from the nearby community and residents. Designed construction documents for the proposed improvements, including site grading, roadway paving, recycled water line, and piping plans; retaining walls; park lighting and signage; stream channel and infiltration basin design; trails, viewing areas, and



Years of Experience

20

Education

PhD, Civil Engineering, 2011,
University of Southern
California

MS, Civil Engineering, 2001,
Utah State University

BS, Civil Engineering, 2000,
Utah State University

Registrations

Civil Engineer, CA, 64937

Civil Engineer, UT,
368681-2202

Envision™ Sustainability
Professional Credential

Diplomate, Water Resources
Engineer, 00668

Qualified SWPPP Developer/
Practitioner, 24214

Awards and Recognition

Storm Water Solutions
magazine, "Industry Icon,"
2015

landscaping details; a water-tight system for irrigation; inlet and outlet structures; bridge structures; culverts, pump stations, and other control structures; electrical and mechanical plans; and SCADA plans. The project included coordination with the LACFCD. Special consideration was given to protect the burrowing owl habitat and the legless lizard. Performed legless lizard surveys prior to and during construction. Specifications per Greenbook and special provisions and estimates were also prepared.

City of Culver City Washington Boulevard P3 Urban Runoff Diversion Senior Engineer providing document review for median work integration for the design of diversion system that will capture stormwater and urban runoff from a 40-acre drainage area. The project is located on Washington Boulevard near Walnut Avenue at the City boundary. The drainage area is comprised of commercial and residential land uses completely within the City boundaries. The system is expected to capture approximately 115,600 cubic feet of stormwater runoff. Additional tasks include review of the Geotechnical Investigation Report and Percolation Test Results, developing project concepts for diversion and bio-filtration systems, conducting an environmental study, performing hydrologic and hydraulic analyses and preparing a report, coordinating with the LACDPW, performing a topographic survey, conducting a utility search for the project site to identify existing or planned future utility conflicts along the proposed project components, preparing PS&Es, providing community outreach support, and providing construction support services.

San Gabriel Valley Council of Governments Rio Hondo Load Reduction Strategy Senior Engineer providing hydraulic modeling for a feasibility assessment and preliminary design for three diversion locations within Rio Hondo Los Angeles River watershed in compliance with MS4 Permit requirements. The Rio Hondo Load LRS addresses requirements pertaining to the Los Angeles River Bacteria TMDL. The three diversion areas include Alhambra Wash, Eaton Wash, and Rubio Wash. Additional tasks include: coordination with the LACSD to verify discharge allowed to the sanitary sewers in the area, detailed flow analysis and coordination with the LACSD and watermaster, environmental evaluation and documentation, site field investigation, topographic survey for each site, utility search to identify existing or planned utility conflicts, geotechnical evaluation to identify soil characteristics and infiltration capacity for each site, permits and easement evaluation, preliminary operations and maintenance, and preparation of a feasibility assessment report and preliminary design plans.

Los Angeles County Department of Parks and Recreation Earvin Magic Johnson Park Project Manager for a hydrology study, utility search, and topographic mapping for the Earvin Magic Johnson Park and Ujima Village. The Earvin Magic Johnson Park is a facility that serves a portion of the greater Los Angeles area with limited park facilities. The LACDPR planned to renovate the facility. The renovation included improvements to the Ujima Village area, which had been designated as a remediation site due to VOCs. The project required an environmental impact study prior to selection of the preferred improvements. Tasks managed included: topographic surveys, a utility search and utility mapping, and hydrologic analysis of the 113-acre park for existing conditions.



Steven Bell, PE, ENV SP, CFM, QSD

Steven Bell is a professional civil engineer with a specialization in water resource engineering. He has over 15 years of professional experience performing hydrologic and hydraulic analyses, flood mapping and drainage reports. He has prepared reports on behalf of private, state, local, and tribal clients in order to achieve compliance with regulations. In addition, Steven has developed plans for reconstruction of roadways and stormwater conveyance facilities for several municipalities in Oklahoma.

RELEVANT EXPERIENCE

City of San Fernando Regional Park Infiltration Hydrology and Hydraulics Support preparing hydrologic and hydraulic studies for the San Fernando Regional Park, which consists of installing an underground manufactured infiltration system, and removing/replacing the existing baseball field and irrigation system. The infiltration system will serve a drainage area greater than 400 acres and recharge groundwater sources with approximately 200 acre-feet of stormwater annually. The system has a single storm capture capacity greater than 24 acre-feet. Additional tasks include: utility and community coordination; conducting a preliminary design report; performing environmental studies that meet CEQA requirements; obtaining LACFCD connection permits; providing topographical surveys; conducting a geotechnical investigation report; developing a plan for landscape and irrigation improvements; providing potholing services; preparing PS&Es; preparing an O&M manual for proposed structural stormwater BMPs, pretreatment devices, and stormwater infiltration system; and providing bid and construction support.

City of Bell Gardens John Anson Ford Park Infiltration Cistern Hydrology and Hydraulics Support for developing design PS&Es for this urban runoff capture project. John Anson Ford Park is located in the City of Bell Gardens and the project will help the City and the Lower Los Angeles River Upper Reach 2 Watershed Management Group meet its NPDES MS4 Discharge requirements. The project will capture dry-weather and storm runoff from a highly industrialized urban catchment area of 2,295 acres. The project is anticipated to provide compliance with existing water quality objectives for the entire Rio Hondo watershed portion of the LAR UR2 WMA. Tasks include: modeling using SWMM, EPA-SWMM, WSPG, and XP-WSPG, and providing QA/QC on hydrologic and hydraulic calculations. Additional tasks include conducting a geotechnical field analysis, utility search, topographic mapping, preparation of design PS&Es.



Years of Experience

15

Education

MS, Civil Engineering, 2006,
University of Oklahoma

BS, Civil Engineering, 2004,
University of Oklahoma

Registrations

Civil Engineer, CA, 81531

Civil Engineer, OK, 24571

Envision™ Sustainability
Professional Credential,
30283

Certified Floodplain Manager,
US-19-11240

Qualified SWPPP Developer,
C81531

San Gabriel Valley Council of Governments Rio Hondo Load Reduction Strategy Preliminary Engineering and Final Design Services

Senior Engineer for a feasibility assessment along with preliminary design for the Alhambra, Rubio, and Eaton diversion locations within Rio Hondo Los Angeles River watershed in compliance with MS4 Permit requirements. The Rio Hondo LRS addresses requirements pertaining to the Los Angeles River Bacteria TMDL. The three diversion areas include Alhambra Wash, Eaton Wash, and Rubio Wash. Tasks include providing flow regime calculations and providing QA/QC for feasibility study review. Additional tasks included coordination with the LACSD to verify discharge allowed to the sanitary sewers in the area, detailed flow analysis and coordination with the LACSD and watermaster, environmental evaluation and documentation, site field investigation, topographic survey for each site, utility search to identify existing or planned utility conflicts, geotechnical evaluation to identify soil characteristics and infiltration capacity for each site, permits and easement evaluation, preliminary operations and maintenance, and preparation of a feasibility assessment report and preliminary design plans.

City of Santa Barbara Bohnett Park Stormwater Treatment Senior Engineer for design plans and construction specifications for the stormwater treatment system in the 2.25-acre Bohnett Park, located within the Westside neighborhood of Santa Barbara. The project system captures, treats, and infiltrates storm water from two 18-inch storm drains. Tasks performed included checking the hydrology using Los Angeles County methods, calculating infiltration scenarios, and modeling in MODRAT and Hydraflow. Additional tasks included project management and coordination, schedule and budget tracking, and coordination with the City Project Manager; data review of storm drain records and LiDAR maps, utilities within the park, design plans for park improvements, existing geotechnical information, and the City's Stormwater BMP Guidance Manual; drainage report preparation for the stormwater capture and treatment system design and existing site conditions; geotechnical investigation including borings 15 feet below existing grade for soil classification and infiltration at three different locations within the park; preparation of two conceptual design alternatives; and preparation of PS&Es for the agreed upon alternative. This project was completed within budget and one month ahead of schedule.

City of Culver City Washington Boulevard P3 Urban Runoff Diversion Hydrology and Hydraulics support providing drainage reviews for a diversion system that will capture stormwater and urban runoff from a 40-acre drainage area. This system is expected to capture approximately 115,600 cubic feet of stormwater runoff. Tasks performed include preparing a geotechnical report summary, gathering data for the existing hydraulic model, revising concept drainage areas, modeling the existing storm drain under Washington Boulevard using WSPG, modeling the reconfiguration of pipes and sewer flows, and providing calculations for the dewatering permit, drainage area, and free-falling water. Additional tasks include developing project concepts for diversion and bio-filtration systems, conducting an environmental study, coordinating with the City of Los Angeles and LACPW, performing a topographic survey, conducting a utility search to identify existing or planned future utility conflicts along the proposed project components, preparing preliminary and final PS&Es, providing community outreach, and providing construction support.



Kayla Kilgo, PhD, EIT, ENV SP

Dr. Kayla Kilgo has over five years of professional experience modeling riverine systems using software, such as HEC-HMS and HEC-RAS, for floodplain management. Kayla is currently providing calculations for the City of Los Angeles LA River Bikeway and Greenway project, which converts an existing 12-mile-long maintenance road along the Los Angeles River into a greenway, which includes a Class I Bicycle Path. Her additional experience includes assisting with Environmental Site Assessments (ESAs), drafting site-specific drawings for environmental compliance documents, and writing environmental permits, compliance reports, and BMP plans.

RELEVANT EXPERIENCE

San Gabriel Valley Council of Governments Rio Hondo Load Reduction Strategy Preliminary Engineering and Final Design Services Assistant Engineer preparing a feasibility assessment and preliminary design for three diversion locations within Rio Hondo Los Angeles River watershed in compliance with the Municipal Separate Storm Sewer (MS4) Permit requirements. The three diversion areas include Alhambra Wash, Eaton Wash, and Rubio Wash.

Tasks include: coordination with the Los Angeles County Sanitation Districts (LACSD) to verify discharge allowed to the sanitary sewers in the area, detailed flow analysis and coordination with the LACSD and watermaster, environmental evaluation and documentation, site field investigation, topographic survey for each site, utility search to identify existing or planned utility conflicts, geotechnical evaluation to identify soil characteristics and infiltration capacity for each site, permits and easement evaluation, preliminary operations and maintenance, and preparation of a feasibility assessment report and preliminary design plans.

City of West Hollywood Beverly and Robertson Boulevards Complete Street Staff Engineer providing calculations and design for a project intended to improve mobility and pedestrian safety by adding 10,000 square feet of impervious surface within the public right-of-way. The project also includes widened sidewalks, bulb-outs at all intersections and planters with directional pedestrian ramps at crosswalks, roadway paving with sharrow bicycle route markings, street tree planting, parkway planting using drought-tolerant groundcover, street lighting, and pedestrian-level street lighting. Tasks include PS&Es, topographic surveying to produce the base map, utility research of substructures in the vicinity of the work, and plan approval by jurisdictional agencies for catch basin, fire hydrant, and street light relocations.



Years of Experience

5

Education

PhD Philosophy,
Environmental Engineering
and Science, Clemson
University

MS, Environmental
Engineering, University of
Alabama

BS, Civil Engineering,
University of Alabama

Registrations

Engineering-in-Training, CA,
166344

ENVISION™ Sustainability
Professional Credential,
30368



Allen Xie

PE, QSD, QISP

NPDES Compliance Reporting and Regulatory Support, Stormwater and Non-Stormwater Monitoring

Allen Xie has 11 years of experience in SWPPP development, inspections, monitoring, hydraulic analysis, and civil design. He has performed duties including developing SWPPPs for industrial and municipal facilities, conducting environmental monitoring for industrial facilities, conducting groundwater monitoring, performing hydraulic analysis, conducting site assessments, preparing PS&Es, conducting hydraulic studies, analyzing lab and field data to comply with regulatory permits, preparing traffic control studies, preparing and submitting compliance reports, and preparing seismic calculations for treatment structures.

RELEVANT EXPERIENCE

City of Visalia Development and Implementation of

Citywide Stormwater Management Plan Senior Engineer for the preparation of a citywide Stormwater Management Plan as outlined by the SWRCB Phase II Small MS4 General Permit for stormwater discharges. The 2013 Phase II Small MS4 General Permit identifies permit requirements, including program management, public education and outreach, public involvement and participation, illicit discharge detection and elimination, construction site stormwater runoff control, pollution prevention/good housekeeping for the Permittee Operations Program, post-construction stormwater management, water quality monitoring, program effectiveness assessment and improvement, TMDL compliance, and an annual reporting program. Tasks performed include documenting implementation progress and program effectiveness, reviewing the enforcement response plan and educational materials, identifying IC/ID elimination methods, reviewing existing GIS data to be used in outfall mapping, and conducting pollution prevention and good housekeeping inspections.

City of Los Angeles San Fernando Valley Green Street Network Evaluation – Van Nuys

Boulevard Senior Engineer providing sampling services as part of the Van Nuys Boulevard Green Street water quality monitoring plan development. Conducting wet-weather sampling and developing a wet-weather performance report for proposed LID strategies, and estimating the amount of runoff entering or bypassing the various BMPs using measured depths. Composite sampled loads are allocated to the total amount of runoff calculated at the various BMPs to determine the pollutant load retained by the various BMPs and the load that bypasses the BMPs.



Years of Experience

11

Education

MS, Civil Engineering,
California State University,
Fullerton

BS, Civil Engineering,
California State Polytechnic
University, Pomona

Registrations

Civil Engineer, CA, 85112

Qualified SWPPP Developer,
C85112

Qualified Industrial
Stormwater Practitioner,
PE85112



Chris Pendroy, ENV SP, QSD/P

Chris is experienced in inspecting capital improvement projects in order to verify compliance with construction plans, specifications, and regulatory requirements. His expertise includes conducting field visits and job walks, completing structural calculations, managing utility coordination and research, developing improvement plans, and coordinating with local residents, municipalities, and staff to ensure successful project completion. Chris' duties include conducting post-construction BMP inspections, QSP inspections, SWPPP development reviews, preparing plans for complex BMP infrastructure, gathering data and preparing stormwater master plans, and assisting clients with regulatory compliance.

RELEVANT EXPERIENCE

City of Los Angeles Laurel Canyon Boulevard Green

Street Design-Build This project received awards from the ASCE and CASQA. Construction Inspector for the design of bioswales along 1,000 linear feet of Laurel Canyon Boulevard for LA Sanitation – City of Los Angeles and the Los Angeles Conservation Corps. The project provided increased groundwater recharge, reduced flooding impacts, protected compatible beneficial uses, and improved the neighborhood quality of life. This was accomplished by the design of a series of infiltration swales along Laurel Canyon Boulevard between Kagel Canyon Street and Terra Bella Street with curb, gutter, and sidewalk improvements. This project collected stormwater runoff from an approximately 125-acre drainage area. Duties included developing design and traffic control plans for the project and performing construction management.

City of Torrance Stormwater Basin Treatment Wetlands Enhancement This project was the recipient of awards from the APWA, ASCE, ENR, CASQA, and *Storm Water Solutions* magazine. Construction Inspector for the design and construction management of two treatment wetlands and two infiltration basins to retain, treat, and infiltrate stormwater runoff. This project helps the City comply with the Santa Monica Bay Beaches Bacteria TMDL requirements. Construction management tasks included preparing progress reports and schedule updates, attending on-site construction management meetings with City staff, monitoring daily construction compliance, preparing daily inspection reports on City forms, providing geotechnical and testing services, performing surveying, providing landscape architecture, requesting and reviewing as-built plans showing revisions made during construction at different stages of the project, and preparing grant invoice packages.



Years of Experience

26

Education

MS, Civil & Environmental Engineering,
University of California, Irvine

BS, Civil Engineering,
University of California, Irvine

Registrations

Envision™ Sustainability
Professional Credential

Qualified SWPPP Developer
and Practitioner, CA, 24503

City of Santa Monica Los Amigos Park Storm Drain Runoff Harvesting and Direct Use Demonstration

This project was the recipient of awards from the ASCE, CASQA, and *Storm Water Solutions* magazine. Senior Engineer providing construction support for the design of a demonstration project that tapped into an existing storm drain line running along a school athletic field and the City of Santa Monica's Los Amigos Park, rerouted stormwater and dry-weather flows from the storm drain through a vortex system into a cistern, treated the stormwater and dry-weather runoff, and delivered highly-treated non-potable water to the park irrigation system and indoor plumbing for toilet flushing. The project's purpose was to demonstrate the feasibility of harvesting local water resources such as storm drain flows to decrease potable water use, reduce polluted urban runoff discharge to the receiving water body, and protect the future of California's water supplies. Other tasks performed included: developing a project study report, performing a geotechnical investigation and utility search, preparing design PS&Es, obtaining regulatory approvals, public education and outreach, preparing a SAP, assisting the City in report preparation, and designing educational signage.

City of Culver City Washington Boulevard P3 Urban Runoff Diversion Design support providing drainage reviews for a diversion system that will capture stormwater and urban runoff from a 40-acre drainage area. This system is expected to capture approximately 115,600 cubic feet of stormwater runoff. Tasks performed include preparing a geotechnical report summary, gathering data for the existing hydraulic model, revising concept drainage areas, modeling the existing storm drain under Washington Boulevard using WSPG, modeling the reconfiguration of pipes and sewer flows, and providing calculations for the dewatering permit, drainage area, and free-falling water. Additional tasks include developing project concepts for diversion and bio-filtration systems, conducting an environmental study, coordinating with the City of Los Angeles and LACPW, performing a topographic survey, conducting a utility search to identify existing or planned future utility conflicts along the proposed project components, preparing preliminary and final PS&Es, providing community outreach, and providing construction support.

City of Los Angeles Peck Park Canyon Enhancement Proposition O Pre-Design and Design Senior Engineer for the pre-design, constructability review, value engineering, and design of water quality enhancements, and slope and channel bank stabilization measures for Peck Park Canyon, which is comprised of 31 acres of undeveloped land within the 76-acre Peck Park. These improvements resulted in slope stabilization, reduced channel bank erosion, and naturalization throughout the canyon including the implementation of bioswales and detention ponds in tributary drainage areas. The various BMPs were designed to improve runoff water quality both entering and leaving the canyon, and promote compliance with the Los Angeles Harbor and San Pedro Bay TMDLs. BMP alternatives were evaluated for overall effectiveness to address the expected pollutants of concern, cost-effectiveness, and ease of operation and maintenance.



Tammy Takigawa

ENV SP, EIT

Tammy Takigawa is certified as an EIT and currently assisting licensed staff with civil design, water resources, and stormwater management projects. She has conducted thorough research on several projects for local municipalities, which involved compiling data and records related to utilities, hydrology and hydraulics, existing facility plans, and water quality. Tammy's duties include utilities research, BMP design, LID planning and implementation, permitting, stormwater compliance, and feasibility assessments.

RELEVANT EXPERIENCE

City of Culver City Washington Boulevard P3 Urban Runoff

Diversion Engineer assisting with the design of a diversion system to capture stormwater and urban runoff from a drainage area of approximately 40 acres for the City of Culver City. The project is located on Washington Boulevard near Walnut Avenue at the City boundary. The drainage area is comprised of commercial and residential land uses completely within the City boundaries. The system is expected to capture approximately 115,600 cubic feet of stormwater runoff. Tasks include: review of the Geotechnical Investigation Report and Percolation Test Results, developing project concepts for diversion and bio-filtration systems, conducting an environmental study, performing hydrologic and hydraulic analyses and preparing a report, coordinating with the LACDPW, performing a topographic survey, conducting a utility search for the project site to identify existing or planned future utility conflicts along the proposed project components, preparing PS&Es, providing community outreach support, and providing construction support services.

City of Los Angeles Laurel Canyon Boulevard Green Street Design-Build This project received awards from the ASCE and CASQA. Design support for the design of bioswales along 1,000 linear feet of Laurel Canyon Boulevard for LA Sanitation – City of Los Angeles and the Los Angeles Conservation Corps. The project provided increased groundwater recharge, reduced flooding impacts, protected compatible beneficial uses, and improved the neighborhood quality of life. This was accomplished by the design of a series of infiltration swales along Laurel Canyon Boulevard between Kagel Canyon Street and Terra Bella Street with curb, gutter, and sidewalk improvements. This project collected stormwater runoff from an approximately 125-acre drainage area. Duties included developing design and traffic control plans for the project and performing construction management.

City of San Fernando Regional Park Infiltration Design Support preparing hydrologic and hydraulic studies for the San Fernando Regional Park, which consists of installing an



Years of Experience

5

Education

BS, Civil Engineering,
California State University,
Long Beach

Registrations

Engineer-in-Training, 154975

ENVISION™ Sustainability
Professional Credential,
21840

underground manufactured infiltration system, and removing/replacing the existing baseball field and irrigation system. The infiltration system will serve a drainage area greater than 400 acres and recharge groundwater sources with approximately 200 acre-feet of stormwater annually. The system has a single storm capture capacity greater than 24 acre-feet. Additional tasks include: utility and community coordination; conducting a preliminary design report; performing environmental studies that meet CEQA requirements; obtaining LACFCD connection permits; providing topographical surveys; conducting a geotechnical investigation report; developing a plan for landscape and irrigation improvements; providing potholing services; preparing PS&Es; preparing an O&M manual for proposed structural stormwater BMPs, pretreatment devices, and stormwater infiltration system; and providing bid and construction support.

City of Santa Monica Los Amigos Park Storm Drain Runoff Harvesting and Direct Use Demonstration This project was the recipient of awards from the ASCE, CASQA, and *Storm Water Solutions* magazine. Design support providing construction support for the design of a demonstration project that tapped into an existing storm drain line running along a school athletic field and the City of Santa Monica's Los Amigos Park, rerouted stormwater and dry-weather flows from the storm drain through a vortex system into a cistern, treated the stormwater and dry-weather runoff, and delivered highly-treated non-potable water to the park irrigation system and indoor plumbing for toilet flushing. The project's purpose was to demonstrate the feasibility of harvesting local water resources such as storm drain flows to decrease potable water use, reduce polluted urban runoff discharge to the receiving water body, and protect the future of California's water supplies. Other tasks performed included: developing a project study report, performing a geotechnical investigation and utility search, preparing design PS&Es, obtaining regulatory approvals, public education and outreach, preparing a SAP, assisting the City in report preparation, and designing educational signage.

City of Santa Barbara Bohnett Park Stormwater Treatment Staff Engineer for design plans and construction specifications for the stormwater treatment system in the 2.25-acre Bohnett Park, located within the Westside neighborhood of Santa Barbara. The project system captures, treats, and infiltrates storm water from two 18-inch storm drains. Tasks performed included checking the hydrology using Los Angeles County methods, calculating infiltration scenarios, and modeling in MODRAT and Hydraflow. Additional tasks included project management and coordination, schedule and budget tracking, and coordination with the City Project Manager; data review of storm drain records and LiDAR maps, utilities within the park, design plans for park improvements, existing geotechnical information, and the City's Stormwater BMP Guidance Manual; drainage report preparation for the stormwater capture and treatment system design and existing site conditions; geotechnical investigation including borings 15 feet below existing grade for soil classification and infiltration at three different locations within the park; preparation of two conceptual design alternatives; and preparation of PS&Es for the agreed upon alternative. This project was completed within budget and one month ahead of schedule.



Mike Nguyen

Mike Nguyen has 13 years of civil engineering experience involving design, public works construction, and land development projects. His recent experience includes managing capital improvement projects, as well as PS&E and traffic control plan preparation for public works projects, including parking lot, street, water supply, park, and median improvement projects. Mike also provides design for grading and drainage; street and highway design, LID, geometric layout, and pavement rehabilitation.



Years of Experience

13

Education

BS, Civil Engineering, 2005,
California State Polytechnic
University, Pomona

RELEVANT EXPERIENCE

City of Bell Gardens John Anson Ford Infiltration Cistern Project to Capture Urban Runoff

Project Engineer for developing design PS&Es for this urban runoff capture project. John Anson Ford Park is located in the City of Bell Gardens and the project will help the City and the Lower Los Angeles River Upper Reach 2 Watershed Management Group meet its NPDES MS4 Discharge requirements. The project will capture dry weather and storm runoff from a highly industrialized urban catchment area of 2,295 acres. The project is anticipated to provide compliance with existing water quality objectives for the entire Rio Hondo watershed portion of the LAR UR2 WMA. Tasks include: a geotechnical field analysis, utility search, hydrologic and hydraulic analysis, topographic mapping, preparation of design plans, construction specifications, and engineering cost estimates.

City of Torrance Stormwater Basin and Treatment Wetlands Enhancement This project received awards from the American Public Works Association (APWA), American Society of Civil Engineers (ASCE), Engineering News-Record (ENR), California Stormwater Quality Association (CASQA), and Storm Water Solutions magazine. Project Engineer for the design of two treatment wetlands and two infiltration basins to retain, treat, and infiltrate stormwater runoff. This project helps the City comply with the Santa Monica Bay Beaches Bacteria TMDL requirements. Designed two 10-inch and one 14-inch pressured storm drain lines. Performed a wetlands sustainability analysis to evaluate dry-weather inflows, evaporation, evapotranspiration, and infiltration and ensure the long-term functionality of the wetlands system. Conducted a hydrologic analysis using MODRAT in WMS to evaluate the reservoir routing and pumping from the interconnected wetlands/detention basin system under Capital Flood and SUSMP conditions. Conducted public outreach to gain input from the nearby community and residents. Designed construction documents for the proposed improvements, including site grading, roadway paving, recycled water line, and piping plans; retaining walls; park lighting and signage; stream channel and infiltration basin design; trails, viewing areas, and landscaping details; a water-tight system for irrigation; inlet and outlet structures; bridge

structures; culverts, pump stations, and other control structures; electrical and mechanical plans; and SCADA plans. The project included coordination with the LACFCD. Special consideration was given to protect the burrowing owl habitat and the legless lizard. Performed legless lizard surveys prior to and during construction. Specifications per Greenbook and special provisions and estimates were also prepared.

City of Santa Monica Los Amigos Park Stormwater Harvesting and Direct Use

Demonstration This project was the recipient of the 2017 CASQA Outstanding Stormwater Sustainability Project, ASCE Outstanding Small Project, and the *Storm Water Solutions* magazine Top Stormwater and Erosion Control Project Awards. Design Support for the design of a demonstration project that tapped into an existing storm drain line running along a school athletic field and the City of Santa Monica's Los Amigos Park, rerouted stormwater and dry-weather flows from the storm drain through a vortex system into a cistern, treated the stormwater and dry-weather runoff, and delivered highly-treated water to the park irrigation system and indoor plumbing for toilet flushing. The project's purpose was to demonstrate the feasibility of harvesting local water resources such as storm drain flows to decrease potable water use, reduce polluted urban runoff discharge to the receiving water body, and protect the future of California's water supplies. Tasks performed included: developing a project study report, performing a geotechnical investigation and utility search, preparing design PS&Es, obtaining regulatory approvals, public education and outreach, construction support, preparing a Sampling and Analysis Plan, assisting the City in report preparation, and designing educational signage.

City of Culver City Washington Boulevard P3 Urban Runoff Diversion Design Lead assisting with the design of a diversion system to capture stormwater and urban runoff from a drainage area of approximately 40 acres for the City of Culver City. The project is located on Washington Boulevard near Walnut Avenue at the City boundary. The drainage area is comprised of commercial and residential land uses completely within the City boundaries. The system is expected to capture approximately 115,600 cubic feet of stormwater runoff. Tasks include: review of the Geotechnical Investigation Report and Percolation Test Results, developing project concepts for diversion and bio-filtration systems, conducting an environmental study, performing hydrologic and hydraulic analyses and preparing a report, coordinating with the LACDPW, performing a topographic survey, conducting a utility search for the project site to identify existing or planned future utility conflicts along the proposed project components, preparing PS&Es, providing community outreach support, and providing construction support services.

City of Beverly Hills Burton Way Median Green Street Project Engineer for the design of bioswales and green street improvements to capture and retain urban runoff on the Burton Way median in the City of Beverly Hills. These improvements will assist the City in complying with the Ballona Creek Watershed EWMP and Ballona Creek Metals TMDL. Designing major aesthetic improvements with efficient landscape design, including drought-tolerant plants that reduce outdoor irrigation use and help the City meet water conservation objectives. Runoff will be used for median irrigation, reducing the need for potable water and there will be up to eight acre-feet of storm water storage beneath the median. The multi-benefit design incorporates walking trails, public art displays and an aesthetically pleasing landscape. It is anticipated that the project will reduce potable water use by approximately 1.25 million gallons per year.



Bill Boeck

Mike Nguyen has 13 years of civil engineering experience involving design, public works construction, and land development projects. His recent experience includes managing capital improvement projects, as well as PS&E and traffic control plan preparation for public works projects, including parking lot, street, water supply, park, and median improvement projects. Mike also provides design for grading and drainage; street and highway design, LID, geometric layout, and pavement rehabilitation.

RELEVANT EXPERIENCE

City of Culver City Washington Boulevard P3 Urban

Runoff Diversion Drafter assisting with the design of a diversion system to capture stormwater and urban runoff from a drainage area of approximately 40 acres for the City of Culver City. The project is located on Washington Boulevard near Walnut Avenue at the City boundary. The drainage area is comprised of commercial and residential land uses completely within the City boundaries. The system is expected to capture approximately 115,600 cubic feet of stormwater runoff. Tasks include: review of the Geotechnical Investigation Report and Percolation Test Results, developing project concepts for diversion and bio-filtration systems, conducting an environmental study, performing hydrologic and hydraulic analyses and preparing a report, coordinating with the LACDPW, performing a topographic survey, conducting a utility search for the project site to identify existing or planned future utility conflicts along the proposed project components, preparing PS&Es, providing community outreach support, and providing construction support services.

City of San Fernando Regional Park Infiltration Drafting Support for the San Fernando Regional Park, which consists of installing an underground manufactured infiltration system, and removing/replacing the existing baseball field and irrigation system. The infiltration system will serve a drainage area greater than 400 acres and recharge groundwater sources with approximately 200 acre-feet of stormwater annually. The system has a single storm capture capacity greater than 24 acre-feet. Additional tasks include: utility and community coordination; conducting a preliminary design report; performing environmental studies that meet CEQA requirements; obtaining LACFCD connection permits; providing topographical surveys; conducting a geotechnical investigation report; developing a plan for landscape and irrigation improvements; providing potholing services; preparing PS&Es; preparing an O&M manual for proposed structural stormwater BMPs, pretreatment devices, and stormwater infiltration system; and providing bid and construction support.



Years of Experience

15

Education

Santa Ana College

Computer Aided Drafting
Certificate

Registrations

Microstation V8, InRoads
Certificate

AutoCAD Civil 3D 2012

AutoCAD, Land Desktop
Certificate



Gerald “Gerry” Greene, DEnv, PE, QEP, QSD/P

Dr. Gerald “Gerry” Greene has 31 years of experience providing comprehensive water quality services to Southern California public agencies. His experience includes the development of monitoring plans, conducting water quality sampling, providing water quality monitoring plan review, performing feasibility studies, assisting agencies with environmental compliance and permitting, and designing landmark urban runoff treatment facilities. Prior to joining CWE, Gerry served as Principal Civil Engineer for the City of Downey for over a decade. Gerry is also a seasoned biologist with three decades of experience. His impressive background in wildlife biology and habitat restoration ensures his water quality projects are constructed and implemented in a sustainable manner that enhances the local environment. His expansive knowledge of local, societal, and physical conditions adds a valuable dimension to the assistance he provides to Los Angeles County clients.

RELEVANT EXPERIENCE

City of Torrance Stormwater Basin and Treatment

Wetlands Enhancement Biological Survey Lead for the design of two treatment wetlands and two infiltration basins to retain, treat, and infiltrate stormwater runoff. This project helps the City comply with the Santa Monica Bay Beaches Bacteria TMDL requirements. Designed two 10-inch and one 14-inch pressured storm drain lines. Performed a wetlands sustainability analysis to evaluate dry-weather inflows, evaporation, evapotranspiration, and infiltration and ensure the long-term functionality of the wetlands system. Conducted a hydrologic analysis using MODRAT in WMS to evaluate the reservoir routing and pumping from the interconnected wetlands/detention basin system under Capital Flood and SUSMP conditions. Conducted public outreach to gain input from the nearby community and residents. Designed construction documents for the proposed improvements, including site grading, roadway paving, recycled water line, and piping plans; retaining walls; park lighting and signage; stream channel and infiltration basin design; trails, viewing areas, and landscaping details; a water-tight system for irrigation; inlet and outlet structures; bridge structures; culverts, pump stations, and other control structures; electrical and mechanical plans; and SCADA plans. The project included coordination with the LACFCD.



Years of Experience

31

Education

DEnv, Environmental Science and Engineering, University of California, Los Angeles

MS, Biology, California State University, Long Beach

BA, Biology and Economics, University of California, Los Angeles

Registrations

Civil Engineer, CA, 55597

Qualified Environmental Professional, 11960237

Qualified SWPPP Developer/Practitioner, 00176

Awards and Recognition

Storm Water Solutions magazine, “Industry Icon,” 2015

Special consideration was given to protect the burrowing owl habitat and the legless lizard. Performed legless lizard surveys prior to and during construction. Specifications per Greenbook and special provisions and estimates were also prepared.

City of Los Angeles Laurel Canyon Boulevard Green Street Design-Build PAEP Lead for water quality monitoring of a green street project along 1,300 linear feet of Laurel Canyon Boulevard for LA Sanitation – City of Los Angeles and the Los Angeles Conservation Corps. The project aims to provide increased groundwater recharge, reduce flooding impacts, protect compatible beneficial uses, and improve the neighborhood quality of life. Tasks include coordinating and performing water quality monitoring.

City of El Monte Garvey Avenue Grade Separation Drainage Improvement Funding Opportunities Lead for improving drainage infrastructure in the City of El Monte by identifying and delineating tributary areas that contribute stormwater flow to the Garvey Avenue underpass. The project involves upgrades to the existing drainage system, including installation of new catch basins, inlets, and storm drain pipes; improvements to the existing pump station diverting the stormwater to the storm drain system; and implementation of green infrastructure initiatives to retain, reuse, or infiltrate the collected stormwater runoff. Tasks include: project management; stakeholder outreach; technical evaluations; right-of-way acquisition; obtaining regulatory permits from the USACE, RWQCB, and CDFW; preparing PS&Es; developing an O&M plan; and providing assistance with funding opportunities.

City of Beverly Hills Burton Way Median Green Street Technical Advisor for a feasibility study and the design of bioswales and green street improvements to capture and retain urban runoff on the Burton Way median in the City of Beverly Hills. These improvements will assist the City in complying with the Ballona Creek Watershed Enhanced Watershed Management Program (EWMP) and the Ballona Creek Metals Total Maximum Daily Load (TMDL). The project includes aesthetic improvements with efficient landscape design, including drought-tolerant plants that reduce outdoor irrigation use and help the City meet water conservation objectives. The multi-benefit design incorporates walking trails, including public art displays and an aesthetically pleasing landscape. The project will enhance water quality, reduce flooding impacts, and provide a beautiful, tranquil community space that increases public awareness of stormwater quality and water conservation issues.

City of Los Angeles Proposition O BMP Optimization Water Quality Monitoring Project Manager responsible for coordinating eight wet-weather and seven dry-weather monitoring events, over three years, at up to thirty-five sites spread among eleven Proposition O BMP project locations that included: Echo Park Lake, Grand Boulevard Tree Wells, Hansen Dam Wetlands Restoration, Imperial Highway Sunken Median, Mar Vista Recreation Center, Oros Green Street, Peck Park Canyon Enhancement, Penmar Water Quality Improvement, South LA Wetlands, Westminster Dog Park, and Westside Park Irrigation.. Tasks managed include: development of a Monitoring Plan and QAPP, weather forecasting and tracking, coordination of sampling events with the City of Los Angeles' EMD, sample bottle preparation, field analytical analysis, field observation logging, collection and delivery of samples, data processing and analysis, and event summary technical memorandums. Various sites provide safety challenges, including lakes, median strips, underground vaults, and vehicle traffic. Results are utilized to assess BMP functionality and effectiveness in order to make recommendations and coordinates with the City and other consultants to identify program challenges and accomplishments.



Nan Jia, EIT

Nan Jia received her Master's degree in Environmental Engineering from University of California, Irvine in December, 2018. After graduation, she started working at CWE as Engineer I. Her duties include but not limited to technical report writing, database management, water quality monitoring, and water quality data analysis. She has assisted licensed engineers to develop Stormwater Pollution Prevention Plans (SWPPP) and helped municipalities with stormwater compliance.

RELEVANT EXPERIENCE

Orange County Public Works South Orange County

Watershed Management Area Water Quality Improvement Plan Engineer I for evaluation of six stream reaches identified in the South Orange County Watershed Management Area's WQIP for rehabilitation alternatives and feasibility studies in compliance with San Diego County Regional MS4 Permit requirements for South Orange County. Requirements of the WQIP to be addressed include detailed hydrologic characterization, including flood hydrology and continuous simulation hydrology; detailed hydraulic, geomorphic, and sediment transport characterization; evaluation of the potential ecological and recreational enhancement from rehabilitation; detailed assessment of constraints and opportunities; preliminary engineering evaluation of restoration potential; preliminary evaluation of permitting issues; analyses, results, and basis for recommended alternatives; preliminary cost estimates, schedule requirements, and identification of key contingencies; and realistic assessment of funding sources and appropriate phasing relative to other reaches.

City of Culver City Washington Boulevard P3 Urban Runoff Diversion Monitoring support assisting with the evaluation of a diversion system to capture stormwater and urban runoff from a drainage area of approximately 40 acres for the City of Culver City. The project is located on Washington Boulevard near Walnut Avenue at the City boundary. The drainage area is comprised of commercial and residential land uses completely within the City boundaries. The system is expected to capture approximately 115,600 cubic feet of stormwater runoff. Tasks include: review of the Geotechnical Investigation Report and Percolation Test Results, developing project concepts for diversion and bio-filtration systems, conducting an environmental study, performing hydrologic and hydraulic analyses and preparing a report, coordinating with the LACDPW, performing a topographic survey, conducting a utility search for the project site to identify existing or planned future utility conflicts along the proposed project components, preparing PS&Es, providing community outreach support, and providing construction support services.



Years of Experience

2

Education

MS, Civil and Environmental Engineering,
University of California, Irvine

BS, Environmental Sciences,
University of Minnesota-Twin Cities

Registrations

Engineer-in-Training, 166942



Ryan Kearns

Ryan Kearns has over three years of experience in watershed management, environmental compliance, and water quality sampling. In 2016, Ryan received his Bachelor of Science degree in Chemical Engineering from the University of California, Riverside. Prior to joining CWE, Ryan worked as the Project Coordinator for Inland Empire Waterkeeper, where he conducted surface water quality monitoring, stormwater litigation monitoring and public outreach within the middle to upper Santa Ana Watershed. He currently assists lead scientists and engineers in environmental compliance permitting, water quality sampling, and preparing water quality monitoring plans and reports.



Years of Experience

2

Education

BS, Chemical Engineering,
University of California,
Riverside

RELEVANT EXPERIENCE

City of Culver City Washington Boulevard P3 Green Street and Diversion Environmental Coordinator assisting with the Mitigated Negative Declaration (MND) and coordinating environmental studies for the design of a diversion system to capture stormwater and urban runoff from a drainage area of approximately 40 acres for the City of Culver City. The MND tiers off the Programmatic EIR prepared by LACFCD. The MND discusses findings that were not fully assessed in the PEIR.

City of Agoura Hills Medea and Palo Comado Creek Stormwater Treatment Plant, Linear Park, and Wetlands Improvement Environmental Coordinator developing MND and coordinating environmental studies for the design of stormwater treatment plant, linear park, and various wetlands improvements in the City of Agoura Hills. The MND tiers off the Programmatic EIR prepared by LACFCD and includes additional studies including biological and cultural resources.

Santa Ana Watershed Project Authority Middle Santa Ana River Bacteria TMDL Monitoring Program Environmental Scientist monitoring 303(d) impaired water bodies for the Middle SAR TMDL Task Force. Tasks included: conducting water sampling for twelve water bodies for bacterial TMDLs, making field observations, conducting data management and analysis, and performing maintenance and calibration of environmental monitoring instruments.

Confidential Client: Upper Santa Ana River Watershed Water Monitoring Program Quality Assurance and Quality Control officer that coordinated a water quality monitoring program to assess the effects of bacteria discharge into creeks in Region 4 of the Santa Ana River watershed. Tasks included: provided direction on field sampling logistics, personnel assignments, and field operation; ensured conformity to sample handling, processing, and testing requirements; coordinated and communicated tasks with contractor organizations; prepared a final report containing analysis of sampling data, analytical methods, and QA narrative and analytical test results.



Tommy Muttaraid, PE

Tommy Muttaraid has more than 18 years of experience in structural design, emphasizing in concrete and steel structures as well as project management. Tommy has in-depth experience in the design of bridges, soldier beam retaining walls, and pump stations. He has experience with fencing and gate design, including preparing structural details and performing calculations. Tommy has worked on projects involving park design and improvement, street improvement, storm drain, and other public works infrastructure for public agencies throughout California.

RELEVANT EXPERIENCE

City of Torrance Stormwater Basin and Treatment

Wetlands Enhancement This project was the recipient of awards from the APWA, ASCE, *ENR*, CASQA, and *Storm Water Solutions* magazine. Structural Engineer for services provided to the City of Torrance for the design of two treatment wetlands and two infiltration basins to retain, treat, and infiltrate stormwater runoff. These treatment wetlands will help the City comply with the Santa Monica Bay Beaches Bacteria TMDL requirements. Structural tasks included performing structural calculations and design for retaining walls, inlet and outlet structures, bridge structures, and control structures.

City of Burbank Johnny Carson Park Improvement and Stream Restoration This project received the Southern California Quality of Life Merit Award from the ASLA. Structural Lead for an improvement and upgrade project for the renovation of park walkway lights, service roads, drainage channels, play equipment, and stage and irrigation. Tasks completed included performing a bridge assessment and preparing a structural footing design for lights and other utilities.

Watershed Conservation Authority Azusa River Wilderness Park Structural Lead for services provided to the WCA for the Special Use Area within the River Wilderness Park in Azusa, California. The objective was to create a sustainable, multi-benefit watershed project that addressed the open space needs, such as recreation and ecological health, and restoration, of the region. Tasks included the preparation of design plans for two Arizona crossings to be located at the Old San Gabriel Canyon and one single-span bridge with associated headwalls and wing walls.



Years of Experience

18

Education

Masters of Business
Administration, California
State Polytechnic University,
Pomona

BS, Civil Engineering,
University of California, Irvine

Licenses and Certificates

Civil Engineer, CA, 66008



David Farrell, PLS

David Farrell is a Professional Land Surveyor registered in the State of California with 35 years of experience. He is knowledgeable of the principles, practices, and procedures of ALTA, topographic and boundary surveys, legal descriptions, and easement preparation. He has played impactful roles on numerous award-winning projects, including the City of Los Angeles Garvanza Park Rainwater Capture and Use, City of Torrance Stormwater Basin and Treatment Wetlands Enhancement, and City of Burbank Johnny Carson Park Improvement and Stream Restoration.



Years of Experience

35

Education

Antelope Valley College

Licenses and Certificates

Professional Land Surveyor,
CA, 7813

Certified in GPS Technology

RELEVANT EXPERIENCE

City of Torrance Stormwater Basin and Treatment Wetlands Enhancement This project was the recipient of awards from the APWA, ENR, ASCE, CASQA, and *Storm Water Solutions* magazine. Surveyor for the design of two treatment wetlands, two infiltration basins, and 300 feet of storm drain piping to retain, treat, and infiltrate stormwater runoff to help the City comply with the Santa Monica Bay Beaches Bacteria TMDL. Performed topographic surveys and mapped record boundaries for three individual sites and developed the survey control.

City of Los Angeles Laurel Canyon Boulevard Groundwater Recharge and Green Street Design-Build This project received awards from the ASCE and CASQA. Survey Lead for the design of bioswales along 1,000 linear feet of Laurel Canyon Boulevard between Kagel Canyon Street and Terra Bella Street for LA Sanitation – City of Los Angeles and the Los Angeles Conservation Corps. Conducted a topographic survey of Laurel Canyon Boulevard and at the Kagel Canyon intersection with Interstate 5, projected in NAD 83, to develop base files and project plan sheets. The project provided increased groundwater recharge, reduced flooding impacts, protected compatible beneficial uses, and improved the neighborhood quality of life.

City of Beverly Hills Burton Way Median Green Street Survey Lead for the design of bioswales and green street improvements to capture and retain urban runoff on the Burton Way median in the City of Beverly Hills. These improvements will assist the City in complying with the Ballona Creek Watershed EWMP and Ballona Creek Metals TMDL. Tasks included performing a topographic survey.

Sevag Avanesian, PE Electrical Engineer

Mr. Avanesian is specialized in power systems and is experienced in various engineering projects including design of power systems, lighting systems, low-voltage systems and fire alarm systems for new construction and tenant improvement projects for clients in Education, Institutional and Commercial sectors.

YEARS WITH JCCA: 11 Years

YEARS OF EXPERIENCE: 15 Years

EDUCATION: Electrical Engineering, Bachelor of Science
University of California, Irvine

LICENSES: California License No. E22793

EXPERIENCE:

- Big Blue Bus Lighting Upgrade, City of Santa Monica
- Low Voltage Infrastructure, Children and Family Services, Los Angeles, County of Los Angeles Internal Services Department (LAISD)
- CCTV Electrical Infrastructure, Central Juvenile Hall, LAISD
- Low Voltage Infrastructure, Department of Mental Health, Torrance, LAISD
- ADA & Electrical Infrastructure Study, Walnut Library, LAISD
- Overhead Electrical Replacement & Upgrade, Fish Springs Hatchery, DGS
- Increased Secured Bed Capacity, Metropolitan State Hospital, DGS
- DSH-Infrastructure Master Plan (IMP), Department of State Hospitals (DSH)
- Standby Generator, West Facility, California Men's Colony, San Luis Obispo, CDCR
- Arnold Unit & Antelope Camp Kitchen/Dining Replacement, California Correctional Center (CCC), Susanville, CDCR
- Upgrade FCI Medium Switchgear, FCC Lompoc, Federal Bureau of Prisons
- Determine Loads for Sewer and Electrical Infrastructure, Terminal Island, Federal Bureau of Prisons
- Replace Substations 1 and 13, Building S25, Boeing, El Segundo, CA
- Replace Substations 8 and 9, Building S25, Boeing, El Segundo, CA
- Replace Substation A & B, Building S49, Boeing, El Segundo, CA
- Replace Switchgear, Building S50, Boeing Satellite Development Center
- Del Valle Fire Training Facility, County of Los Angeles Department of Public Works (LADPW)
- Bonelli Irrigation Refurbishment, Pump Station Renovation, LADPW

Hector Lacsa, PE Electrical Engineer

Mr. Lacsa's professional experience includes electrical engineering for power plants, substations, industrial plants, and commercial buildings. He also had vast experience in the electrical design of fire alarms, communication and signaling, lighting, and power for schools and commercial building tenant improvement, fuel stations, and housing projects.

YEARS WITH JCCA: 10 Years

YEARS OF EXPERIENCE: 29 Years

EDUCATION: Electrical Engineering, 1991, Bachelor of Science
Bicol University, Legaspi City

LICENSES: California License No. 18399
Nevada License No. 020098

EXPERIENCE:

- Overhead Electrical Replacement & Upgrade, Fish Springs Hatchery, DGS
- Increased Secured Bed Capacity, Metropolitan State Hospital, DGS
- DSH-Infrastructure Master Plan (IMP), Department of State Hospitals (DSH)
- Electrical System Upgrades, Mule Creek State Prison, California Department of Corrections and Rehabilitation (CDCR)
- Standby Generator, West Facility, California Men's Colony, San Luis Obispo, CDCR
- Arnold Unit & Antelope Camp Kitchen/Dining Replacement, California Correctional Center (CCC), Susanville, CDCR
- Upgrade FCI Medium Switchgear, FCC Lompoc, Federal Bureau of Prisons
- Replace Substations 1 and 13, Building S25, Boeing, El Segundo, CA
- Replace Substations 8 and 9, Building S25, Boeing, El Segundo, CA
- Replace Substation A & B, Building S49, Boeing, El Segundo, CA
- Replace Switchgear, Building S50, Boeing Satellite Development Center
- Del Valle Fire Training Facility, County of Los Angeles Department of Public Works (LADPW)
- Bonelli Irrigation Refurbishment, Pump Station Renovation, LADPW
- CCTV Electrical Infrastructure, Central Juvenile Hall, LAISD
- ADA & Electrical Infrastructure Study, Walnut Library, LAISD



Robert Nolan, PE, LEED AP, CEM, CMVP **Mechanical/Plumbing Engineer**

Mr. Nolan is experienced in the design and renovation of HVAC, clean rooms, fire protection and plumbing for schools, industrial, manufacturing and commercial facilities.

YEARS WITH JCCA: 21 Years

YEARS OF EXPERIENCE: 24 Years

EDUCATION: Bachelor of Science – Mechanical Engineering, 1996

LICENSES: California License No. M31684
Maryland License No. 38559
Missouri License No. 2011035637
Utah License No. 8127554-2202
CEM 17051
LEED Certified

EXPERIENCE:

- Cath Lab #10, Feasibility Study, Providence Little Company of Mary Medical Center
- Cath Lab #12, Providence Little Company of Mary Medical Center
- Cath Lab #13, Providence Little Company of Mary Medical Center
- DSH-Infrastructure Master Plan (IMP), Department of State Hospitals (DSH)
- DSH-Patton Chiller Replacement
- DSH-Statewide Deferred Maintenance Program
- DSH-Metropolitan Central Utility Plant Upgrade Budget Package
- CHS Parking E Clinical Research Biomarker Seismic Renovation – LEED Gold, University of California, Los Angeles (UCLA), Capital Programs
- NPI Seismic Renovation, UCLA
- Semel-IPCN Renovation – LEED Silver, UCLA, Capital Programs
- OPAT Heat Exchanger Installation, UCLA, Capital Programs
- Powell Restrooms ADA Upgrade, UCLA
- Upgrade Chilled Water Plant, Beaudry Building, Los Angeles Unified School District (LAUSD)
- Electrical System Upgrades, Mule Creek State Prison, California Department of Corrections and Rehabilitation (CDCR)
- Upgrade Boilers and Steam Distribution, Porterville Development Center, Department of General Services (DGS)
- CalTower HVAC Upgrade, Kitchell, DGS
- Replace Modular Buildings, Bautista Conservation Camp, Hemet CA, DGS
- FCI Petersburg Temporary Dining, Federal Bureau of Prisons (FBOP)



William Smith, PE, LEED AP **Mechanical Engineer**

Mr. Smith has Mechanical Design Engineering and Construction Management experience in the building types of hospitals, commercial and industrial buildings, museums, schools, computer rooms, environmental control facilities, military and government projects.

YEARS WITH JCCA: 26 Years

YEARS OF EXPERIENCE: 46 Years

EDUCATION: Bachelor of Science – Mechanical Engineering, 1973

LICENSES: California License No. 18339

EXPERIENCE:

- Domestic Hot Water Heaters Replacement, Feasibility Study, Taft Correctional Institution, Federal Bureau of Prisons (FBOP)
- Leaks in Water Distribution System, FCI Taft, FBOP
- HVAC Feasibility Study, Department of Beaches and Harbor, Los Angeles County Internal Services Department (LAISD)
- Water System Study, CCI, California Department of Corrections and Rehabilitation (CDCR)
- Feasibility Study for HVAC Replacements, Building S, Rooms B369 & B946, Northrop Grumman
- Boiler Replacement, Building R5, Northrop Grumman
- AHU #43, Building D1, Northrop Grumman
- Main Gas Line Upgrade, Space Park, Northrop Grumman
- JWST Upgrade, North Highbay, Building M4, Northrop Grumman
- I&S Lab Relocation to Building M1, Northrop Grumman
- Analyze HVAC System & Replace AHU 43H2, Building S24, Boeing, El Segundo, CA
- Taft Lab Relocation, Building S25, Boeing, El Segundo, CA
- First Floor Annex Office Remodel, Building S50, Boeing, El Segundo, CA
- Upgrade Boilers and Steam Distribution, Porterville Developmental Center, Department of General Services (DGS)
- Increased Secured Bed Capacity, Metropolitan State Hospital, DGS
- Olympic Pool, Phase II, Castaic Sports Complex, Los Angeles County Department of Public Works (LADPW)
- SAIC Occupation, Jones Lang LaSalle (JLL)
- Fuel System Refurbishment, Barton Heliport, LADPW
- HVAC Replacement, Marvin Elementary School, Los Angeles Unified School District (LAUSD)

**EXPERTISE**

- Project Management
- Historic Preservation Planning
- Field Survey/Recording
- Historic Research
- CEQA/NEPA Evaluations and Compliance
- Caltrans Compliance
- Findings of Effect
- National Register Nominations
- Historic Preservation Certification Part 1 and 2 Tax Credit Applications
- City Planning

EDUCATION

M.A., History (Historic Preservation), University of California, Riverside

B.A., Political Science, University of California, Riverside

PROFESSIONAL EXPERIENCE

Associate and Cultural Resources Group Leader, LSA, Riverside, California, 2005–Present

Historian/Architectural Historian, CRM TECH, Riverside, California, 2003–2005

Associate Planner, City of Riverside, Riverside, California, 1990–2003

PROFESSIONAL RESPONSIBILITIES

Ms. Tibbet has been practicing architectural history in southern California since 1997. She meets the Secretary of the Interior's Professional Qualification Standards as a Historian and Architectural Historian and has extensive experience with field recording/survey work; historic research; preparation of historic context statements, significance evaluations, DPR 523 forms, and cultural resources reports in compliance with CEQA and NEPA regulations, including Army Corps and Caltrans projects. Ms. Tibbet has worked as the on-call preservation consultant for various cities, has conducted peer reviews, and completed impacts assessments (CEQA) and findings of effect (NEPA). She has surveyed and evaluated thousands of built environment resources including water conveyance systems and has authored or contributed to hundreds of cultural resources reports.

Current Availability: 20%

PROJECT EXPERIENCE**CWE, Mesmer, LFTF-1, and LFTF-2****Los Angeles and Culver City, Los Angeles County, California**

Ms. Tibbet prepared a Historic Resources Assessment (HRA) of three low-flow diversion projects (Mesmer, LFTF-1, and LFTF-2). The proposed undertakings involved segments of three flood control channels, Centinela Creek Channel (Mesmer), Ballona Creek Channel (LFTF-1), and Sepulveda Channel (LFTF-2), that fall under the jurisdiction of the United States Army Corps of Engineers (USACE). LSA prepared the assessment pursuant to the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA).

City of Pasadena, Azusa Conduit, Angeles National Forest**Los Angeles County, California**

Ms. Tibbet served as the Project Manager, architectural historian, and researcher for this project, which involved the survey and evaluation of an approximately 5.83-mile long water conduit associated with a hydroelectric power plant owned by the City of Pasadena. The conduit is situated on the east and south sides of the San Gabriel River, which is a "navigable water of the United States" and falls under the jurisdiction of the U.S. Army Corps of Engineers. The conduit, which dates to the 1890s, was determined eligible for listing in the National Register of Historic Places. A report, including an extensive historic context and DPR 523 forms, was completed.

City of Anaheim, Lincoln Avenue Widening Project**Anaheim, Orange County, California**

Ms. Tibbet completed a historic resources assessment and impacts analysis for the Lincoln Avenue Widening Project from West Street to Harbor Boulevard within the Anaheim Colony Historic District (ACHD) in Anaheim. A total of 18 properties were evaluated and, of those, eight properties, including the ACHD, were evaluated as "historical resources" as defined by CEQA. An impacts analysis was completed using the Secretary of the Interior's *Standards for the Treatment of Historic Properties (Rehabilitation)*.



EXPERTISE

- Cultural Resources Management
- Native American Consultation
- California Prehistory
- Lithic Analysis

EDUCATION

California State University, Northridge, M.A., Anthropology, Northridge, California, 2013.

California Polytechnic State University, San Luis Obispo, B.S., Social Sciences, San Luis Obispo, California, 2008.

PROFESSIONAL EXPERIENCE

Archaeologist, LSA, Irvine, California, November 2013–Present.

PROFESSIONAL CERTIFICATIONS/ REGISTRATIONS

Register of Professional Archaeologists (#28731436)

Professionally listed Archaeologist for the Counties of Orange and Riverside

PROFESSIONAL RESPONSIBILITIES

Ms. Collison's primary duties include report and proposal preparation for CEQA- and NEPA-level documents, Native American consultation, directing and participating in surveys, and monitoring for cultural resources. She is skilled in lithic analysis and excels at identifying the various stages of production of stone tools. Her field experience includes work in the California Central Coast, Orange County, Riverside County, Ventura County, Mono County, the Tahoe region of the Sierra Nevada, and the Great Basin. Ms. Collison also has experience collaborating on eligibility reports for the National Register of Historic Places and contributing to Section 404 permit applications, and has performed archaeological reconnaissance surveys for environmental recovery projects following California wildfire events.

Current Availability: 35%

PROJECT EXPERIENCE

Irvine Ranch Water District, San Joaquin Reservoir Filtration Facility Project Newport Beach, California

Ms. Collison prepared a cultural resources record search technical memorandum for this project. The memorandum included the results of the record search conducted at the South Central Coastal Information Center, as well as management recommendations for the project.

Rancho California Water District, Vail Dam Seismic and Hydrologic Remediation Project Riverside County, California

Ms. Collison is overseeing preparation of the archaeological resources assessment for this project. This project involves the demolition of the existing arch dam and construction of a new gravity concrete dam downstream, with associated construction and modification of inlet/outlet facilities, pipelines, a spillway, and access roads. LSA is preparing the environmental document and various technical studies for the project. The archaeological resources assessment involves a field survey of approximately 600 acres and a record search for the project impact areas. Ms. Collison is also assisting Rancho California Water District with Native American consultation under Assembly Bill 52.

Riverside County Flood Control and Water Conservation District, Green Acres Dam Community of Homeland, California

Ms. Collison served as a field archaeologist and Native American liaison on this project. LSA was under contract to the Riverside County Flood Control and Water Conservation District (RCFCWCD) to provide a cultural resources assessment for the Green Acres Dam Project. Ms. Collison recorded and

mapped archaeological sites and documented the bedrock milling features on these sites for the project, in addition to writing and compiling all necessary documentation for the cultural resources assessment. Ms. Collison also led a visit to the archaeological sites in the project area for the Pechanga Band of Luiseño Indians and the RCFCWCD.



EXPERTISE

- Environmental Impact Analysis
- Land Use Planning
- Project Management

EDUCATION

Master of Planning, University of Southern California, Los Angeles, 2002

BA, Art History and Organizational Studies, Pitzer College, Claremont, California, 2000

PROFESSIONAL EXPERIENCE

Principal, LSA, Irvine, California, 2015–Present

Project Coordinator, The Center for Economic Development, Los Angeles, California, 2001–2002

PROFESSIONAL AFFILIATIONS

Association of Environmental Professionals (AEP)

Orange County AEP Board of Directors, 2016–2018

Director of Public Information, Orange County Section, American Planning Association, 2003–2005

National Trust for Historic Preservation

PROFESSIONAL RESPONSIBILITIES

As a Principal in LSA's Environmental Planning Division, Ms. Dubois is responsible for project oversight and preparation of environmental documents for a variety of land development, redevelopment, institutional, and capital improvement projects. Her primary responsibilities include research, preparation, and management of EIRs and EISs prepared in compliance with CEQA and NEPA. Since joining LSA, Ms. Dubois has prepared environmental analyses for a variety of clients, including both public agencies and private sector clients.

Current Availability: 25 percent

PROJECT EXPERIENCE

Rancho California Water District, Vail Dam Seismic and Hydrologic Remediation Project **Temecula, California**

Ms. Dubois is the Principal in Charge for preparation of an Environmental Impact Report (EIR) (and NEPA document to be determined) and technical studies for the Vail Dam Seismic and Hydrologic Remediation Project. The Rancho California Water District proposes to remediate seismic and hydrologic hazards associated with the existing Vail Dam, an arch dam, by constructing a new straight-axis gravity concrete dam immediately downstream of the existing dam. RCWD is the CEQA Lead Agency. The NEPA lead agency has not yet been determined; however, coordination is currently ongoing with the Federal Emergency Management Agency, United States Bureau of Reclamation, United States Army Corps of Engineers, and United States Fish and Wildlife Service.

Orange County Sanitation District, Headquarters Complex **Fountain Valley, California**

Ms. Dubois is Principal in Charge for the preparation of an Initial Study/Addendum to the Specific Plan for the Fountain Valley Crossings to provide environmental clearance for the Orange County Sanitation District (OCSD) Headquarters Complex, Site and Security, and Entrance Realignment Program. The project includes construction of a new 109,000 sf, three-story administration building, a surface parking lot, landscaping, signage, security lighting, and a pedestrian overcrossing across Ellis Avenue. The Initial Study/Addendum was adopted by OCSD in June 2020.

Moulton Niguel Water District, Operations Center **Laguna Hills, California**

Ms. Dubois was the Principal in Charge and Project Manager responsible for preparation of an IS/MND and related technical reports for the Moulton Niguel Water District (MNWD) Operations Center. MNWD proposed to construct a two-story 45,000 sf office building, expand aboveground fuel storage, realign the entrance to the facility, and construct a detention/bioretention basin and on- and off-site utility improvements including installation of a new 21-inch reinforced concrete pipe storm drain in the public right-of-way. The IS/MND was adopted in July 2018, and the project was approved. Construction began in fall 2019.

**Irvine Ranch Water District, San Joaquin Reservoir Filtration Facility
Newport Beach, California**

Ms. Dubois Principal in Charge and Project Manager responsible for preparation of an IS/MND and related technical studies for this project. The Irvine Ranch Water District proposes to construct a filtration facility at the existing San Joaquin Reservoir located south of Bonita Canyon Drive in Newport Beach. The IS/MND was circulated for public review in June 2020. Subsequent to circulation of the IS/MND, IRWD made some modifications to the proposed Project. IRWD intends to recirculate the IS/MND for public review in fall 2020.

**Irvine Ranch Water District, Eastwood Recycled Water Pump Station
Irvine, California**

Ms. Dubois was the Principal in Charge and Project Manager responsible for preparation of an IS/MND and related technical reports for the Eastwood Recycled Water Pump Station Project. The Project will ultimately house 14 pumps within one building and include the installation of three surge tanks, installed slightly below grade, with a roof structure. The project's purpose is to meet increasing demand in the Irvine Ranch Water District's Zone B and Zone C recycled water service areas, provide a high degree of operational flexibility, and maximize the use of recycled water. Construction will include a concrete foundation, concrete masonry unit block building, lighting, connections to existing recycled water lines within the adjacent roadway, new recycled water lines within the adjacent roadway, storm water drainage infrastructure (e.g., curb and gutter), and installation of asphalt concrete for parking. The IS/MND was adopted in January 2018, and the project was approved.

**South Coast Water District, Upper and Lower Niguel Shores Meter Improvement Projects
Dana Point, California**

Ms. Dubois is the Project Manager for the South Coast Water District (SCWD) on-call environmental services contract with LSA. As part of the contract, LSA prepared Categorical Exemption (CE) memoranda for both the Upper and Lower Niguel Shores Meter Improvement Projects on two sites in Dana Point. The CE memoranda describe why the two projects are exempt from the requirements of CEQA pursuant to *State CEQA Guidelines* Sections 15301 and 15302, respectively. The Upper Niguel Shores Meter Improvement Project involved the replacement of valves, piping, and a recycled water meter in an existing underground meter vault, and qualified for a Class 2 exemption under CEQA. The Class 2 exemption covers the replacement or reconstruction of existing structures and facilities on the same site and with substantially the same purpose and capacity as the structure replaced. The Lower Niguel Shores Meter Improvement Project involved the construction of a new underground meter vault including valves, piping, and a recycled water meter, and qualified for a Class 1 exemption under CEQA. The Class 1 exemption covers the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination. The SCWD Board of Directors approved the projects in June 2018, and LSA filed Notices of Exemption on behalf of SCWD in July 2018.

**South Coast Water District, Rehabilitation of Reservoir 1A and Reservoir RW-1
Laguna Beach and Unincorporated Orange County, California**

Ms. Dubois is the Project Manager for the South Coast Water District (SCWD) on-call environmental services contract with LSA. As part of the contract, LSA prepared a Categorical Exemption (CE) support memorandum for the rehabilitation of Reservoirs 1A and RW-1. Reservoir 1A is an aboveground storage tank reservoir at 21613 Ocean Vista Drive in Laguna Beach. Reservoir RW-1 is an aboveground storage tank reservoir located at the South Orange County Wastewater Authority Coastal Treatment Plant. LSA provided memorandums documenting that proposed rehabilitation work for the reservoirs would be consistent with the existing use of the project sites and would not include the expansion of the use beyond the existing condition, and that the projects would not result in any specific or general exceptions to the use of a CE as detailed under *State CEQA Guidelines* Section 15301. The SCWD Board of Directors approved both projects in September 2017, and LSA filed the Notice of Exemptions on behalf of SCWD.



EXPERTISE

- CEQA/NEPA
- Surface Water Quality
- Storm Water Quality
- Floodplains

EDUCATION

University of California, Berkeley,
M.S., Civil and Environmental
Engineering, December 2003.

University of California, Davis,
B.S., with Honors, Evolution and
Ecology, June 1998.

PROFESSIONAL CERTIFICATIONS

Qualified SWPPP Developer/
Practitioner (QSD/QSP)

Certified Professional in Storm
Water Quality (CPSWQ)

Engineer-in-Training (EIT)

PROFESSIONAL EXPERIENCE

Associate, LSA, San Luis Obispo,
California, May 2006–Present.

Staff Engineer, McGuire Malcolm
Pirnie, Irvine, California, February
2004–May 2006.

Summer intern, GeoSyntec
Consultants, Walnut Creek,
California, June–August 2003.

PROFESSIONAL RESPONSIBILITIES

Ms. West has over 20 years of experience in the management and preparation of environmental documents, water quality assessments, and floodplain impact reports for a variety of transportation, development/redevelopment, and infrastructure projects in compliance with CEQA and NEPA. Her project management experience includes a range of projects in Orange County for cities, Caltrans, transportation agencies, sanitation and water districts, and private developers. Her water quality experience includes regulatory compliance; water quality sampling; peer review of technical reports; and preparation of water quality assessments, storm water pollution prevention plans, floodplain analyses, and quality control/quality assurance plans for water quality sampling projects.

Current Availability: 25 percent

PROJECT EXPERIENCE

Turtle Ridge Irvine, California

Ms. West prepared a Categorical Exemption for the modification of stormwater conveyance pipes along Shady Canyon Drive between Summit Park Drive and Cloverfield Drive within the Village of Turtle Ridge in the City of Irvine. Runoff had eroded part of the grassy knoll, forming a small trench along the slope of the hill. In addition, water was accumulating on Shady Canyon Drive during the rainy season. The project proposed conveyance pipes to collect runoff at the toe of the slope and convey it into the local storm drain system. Catch basin inlets and street crossfall along Shady Canyon Drive were also proposed to be modified to ensure 100% conveyance of runoff into the storm drain system.

Rancho California Water District (RCWD), Vail Dam Seismic and Hydrologic Remediation Project Temecula, California

Ms. West is Project Manager for preparation of an Environmental Impact Report (EIR) (and NEPA document to be determined) and technical studies for the Vail Dam Seismic and Hydrologic Remediation Project. RCWD proposes to remediate seismic and hydrologic hazards associated with the existing Vail Dam, an arch dam, by constructing a new straight-axis gravity concrete dam immediately downstream of the existing dam. RCWD is the CEQA Lead Agency. The NEPA lead agency has not yet been determined; however, coordination is currently ongoing with the United States Federal Emergency Management Agency, United States Bureau of Reclamation, United States Army Corps of Engineers, and United States Fish and Wildlife Service.

San Onofre Nuclear Generating Station (SONGS) Independent Spent Fuel Storage System (ISFSI) Expansion Project San Diego County, California

Ms. West was the QSD and prepared the SWPPP and SWPPP Amendment for the SONGS ISFSI Expansion project. The project included construction of a subterranean ISFSI on the existing SONGS site to store spent fuel cells as part of decommissioning of the SONGS facility. The Permit Registration Documents were submitted to the State Water Resources Control Board in February 2016.

**PROFESSIONAL
EXPERIENCE, CONT.**

Graduate Student Researcher,
Department of Civil and
Environmental Engineering,
University of California, Berkeley,
September 2002–March 2003.

Post-Graduate Researcher II,
Department of Vegetable Crops,
USDA-ARS Aquatic Weed
Laboratory, University of
California, Davis, June 2000–
August 2002.

Post-Graduate Researcher II,
Department of Wildlife, Fisheries,
and Conservation Biology,
University of California, Davis,
June 1998–June 2000.

**PROFESSIONAL
AFFILIATIONS**

Membership Committee Chair,
Channel Counties Chapter,
Association of Environmental
Professionals, 2019–2021

Annual Conference Moderator
Coordinator, California
Stormwater Quality Association,
2014–2020

President, Toastmasters Club
5204, 2019–2021

Vice President of Membership,
Toastmasters Club 5204, 2018–
2019

The SWPPP Amendment was submitted in December 2017 in order to extend the construction period and reduce the size of the construction site.

**20 Old Ranch Road
City of Laguna Niguel, California**

Ms. West served as Project Manager for preparation of an Initial Study/Mitigated Negative Declaration (IS/MND) Addendum and construction monitoring for hillside grading and terracing at 20 Old Ranch Road in the City of Laguna Niguel. Subsequent to approval of the IS/MND and completion of construction of the single-family residence, it became necessary to terrace a hillside on the Project site to reduce ongoing scour and erosion. Ms. West prepared the IS/MND Addendum for the additional grading, which was approved by the Planning Commission in February 2018.

**Irvine Ranch Water District, San Joaquin Reservoir Filtration Facility
Newport Beach, California**

Ms. West was part of the project management team for preparation of the IS/MND for this project. The Irvine Ranch Water District (IRWD) proposes to construct a filtration facility at the existing San Joaquin Reservoir in Newport Beach. The IS/MND was circulated for public review in June 2020.

**Eastwood Recycled Water Pump Station IS/MND
Irvine, California**

IRWD proposed to construct the Zone A to B and Zone A to C Booster Pump Stations (Multi-Zone Pump Station) Project at the intersection of Jeffrey Road and Irvine Boulevard in the City of Irvine. Ms. West assisted in preparation of the IS/MND for the project, including the hydrology and water quality section.

**Metro, Baseline Construction Compliance Evaluation
Los Angeles, California**

Ms. West conducted the baseline construction compliance evaluation and inspection for compliance with storm water regulations for three Metro projects. The evaluation included a comparison of Metro's baseline construction specifications with applicable federal/State/local requirements. A site visit of the construction sites was conducted to verify compliance with the applicable regulatory requirements.

**County of Los Angeles Department of Beaches and Harbors, Storm Water
Campaign Technical Support
Los Angeles County, California**

Ms. West provided storm water technical expertise to the County of Los Angeles Department of Beaches and Harbors in support of its Can the Trash! storm water campaign. The community outreach campaign included a "Clean and Blue" animated video and poster design contest targeting elementary school children, encouraging them to participate in ocean cleanup including beaches and upstream sources. The winning posters were widely reproduced and displayed on trash barrels at Los Angeles County beaches and recreation facilities as eye-catching friendly reminders to "Can the Trash." The campaign was the recipient of the California Stormwater Quality Association's 2019 Outstanding News, Information Outreach, and Media Project award.



EXPERTISE

- Paleontological Mitigation Reports
- Paleontological Resource Monitoring
- Fossil Collection, Salvage, Identification, and Curation
- Federal, State, and Local Laws, Ordinances, Regulations, and Standards (LORS) regarding Paleontological Resources

EDUCATION

Ph.D., Paleontology,
University of California,
Berkeley, 2005

B.A., Biology, Minor in
Geology, Magna Cum Laude,
University of Colorado,
Boulder, 1999

PROFESSIONAL EXPERIENCE

Senior Paleontologist, LSA, Irvine,
California, April 2013–Present

Project Manager, Department
of Geological Sciences,
California State University,
Fullerton, and John D. Cooper
Archaeological and
Paleontological Center, Santa
Ana, California, April 2012–
April 2013

Geologist, Geological Survey
of Alabama, Tuscaloosa,
Alabama, April 2010–February
2012

PROFESSIONAL RESPONSIBILITIES

Dr. Rieboldt is an Associate and Senior Paleontologist at LSA with 20 years of experience in the paleontology and geology fields. She has worked as a geologist and paleontological consultant on many different projects, including carbon sequestration and astrobiology research programs funded by the United States Department of Energy and the National Aeronautics and Space Administration, respectively, as well as on projects for the State of California Department of Parks and Recreation, Caltrans, and various private developers in California, Nevada, and Utah. Dr. Rieboldt oversees the paleontological resources program at LSA and prepares and reviews paleontological assessment reports, mitigation plans, and monitoring reports. She provides guidance on the various federal, State, and local regulations and guidelines regarding paleontological resources as they apply to projects throughout the State. She also is responsible for scheduling paleontological monitors on both large- and small-scale projects.

Current Availability: 30%

PROJECT EXPERIENCE

Rancho California Water District, Vail Dam Seismic and Hydrologic Remediation Project Riverside County, California

Dr. Rieboldt is overseeing preparation of the paleontological assessment for this project. This project involves the demolition of the existing arch dam and construction of a new gravity concrete dam downstream, with associated construction and modification of inlet/outlet facilities, pipelines, spillway, and access roads. LSA is preparing the environmental document and various technical studies for this project. The paleontological assessment involves a field survey of nearly 600 acres, fossil locality searches for the area surrounding the dam and Vail Lake, and a literature review of over 10 different geologic units from four different geologic maps of different scales covering the project area. Based on this background research, the paleontological assessment will determine the potential for project development to impact paleontological resources and make the appropriate recommendations regarding mitigation.

Medea and Paleo Comado Creek Stormwater Treatment Plant and Linear Park Project Agoura Hills, Los Angeles County, California

Dr. Rieboldt determined the potential for this project to impact paleontological resources in compliance with CEQA. The Medea and Palo Comado Creek Stormwater Treatment Plant and Linear Park Project sought to treat storm water runoff and improve local water quality through the construction of a storm water treatment facility near the confluence of Medea Creek and Palo Comado Creek, as well as a linear park along Agoura Road above the existing flood control channel. As part of her duties, Dr. Rieboldt reviewed relevant geological and paleontological literature, requested a fossil locality search through the Natural History Museum of Los Angeles County, and oversaw a field survey of the project area. Dr. Rieboldt documented the results of the background research, determined the potential for project

activities to impact paleontological resources, and made the appropriate recommendations regarding mitigation of those impacts in a paleontological resources technical memorandum for the project.

Resumes

F. Fred Buhamdan, PE, PMP

Sr. Principal

PROFESSIONAL EXPERIENCE

Mr Buhamdan is an office manager and a licensed civil engineer (PE) in the State of California with substantial experience in performing geotechnical investigations, engineering design, and project management. These projects included various educational and commercial buildings, renewable energy facilities, retail centers, office/warehouse projects, street improvements, industrial facilities, and public works projects.

Engineering experience includes hundreds of projects involving shallow and deep foundations design, settlement and slope stability analysis, pavement design, geologic hazards analysis preparation of project proposals and geotechnical engineering reports, and construction management.

Higher education includes a Master of Science degree of Civil Engineering from California State University. Professional licenses include a Project Management Professional (PMP) Certificate.

Management duties include overseeing projects budget and schedule, managing client's expectations, business development, and supervising engineers, geologists, sub-consultants and sub-contractors, and laboratory and field personnel.

The following is a representative list of distinguished projects Mr. Buhamdan has served as an engineer of record, project manager, authorized project reviewer, and/or project engineer.

PROJECT EXPERIENCE

- Garvey Avenue Grade Separation Drainage, El Monte, CA
- Transfer Station Water Quality Improvement Project, Culver City, CA
- City wide Storm Drain Point Repair Project, Rancho Palos Verdes, CA
- SGVCOG ACE Rio Hondo Load Reduction Strategy Design, multiple Cities in LA County, CA
- Sterling Avenue and Marshall Blvd. Sewer and Gas Lines, San Bernardino, CA
- Two-Year Sewer Main Rehabilitation Program - Manhattan Beach, CA
- Culver City Diversion Sewer Project – Culver City, CA
- Multiple Trunk Sewer Line Projects – Long Beach, CA
- Temecula Flood Control Channel Recon and Repair, Temecula, CA
- San Fernando Regional Park Infiltration, San Fernando, CA
- Burton Way Median Green Street, Beverly Hills, CA
- Laurel Canyon Blvd. Green Street Project, Los Angeles, CA
- John Anson Ford Park Infiltration Study, Bell Gardens, CA
- Studebaker Road Street Rehabilitation, Cerritos, California
- OCTA Building Modification and Expansion, Orange, CA



EDUCATION

Master of Science, Civil Engineering, California State University, 2007

Bachelor of Science, Civil Engineering, University of Mutah, 2002

REGISTRATIONS

Registered Civil Engineer:
California PE C77455,
Exp 06/30/2021

Project Management Professional (PMP)

AFFILIATIONS

American Society of Civil Engineers

COMMITMENT TO CONTRACT

20%

Sivasubramaniam (Raj) Pirathiviraj, P.E., G.E.

Senior Geotechnical Engineer

PROFESSIONAL EXPERIENCE

Mr. Pirathiviraj is a Senior Engineer and registered geotechnical engineer (GE) and professional civil engineer (PE) in the State of California with substantial experience in performing geotechnical investigation, geotechnical design and project management. These projects included various infiltration system, best management practices, school facilities including aquatic center, hospital buildings and facilities, commercial buildings and facilities, transportation structures and facilities, levees, light rail tracks and airport facilities.

Engineering experience has included project management, construction monitoring, dam inspection, levee repair, field investigation, foundation design and review for bridges, walls and buildings and write and review geotechnical reports, foundation reports, materials reports, technical memorandums, addendums and letters, and request for information.

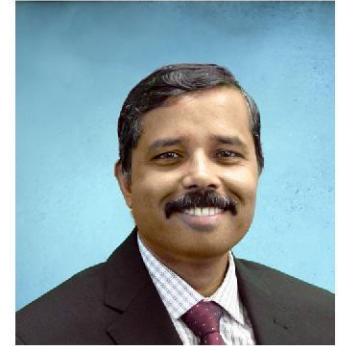
Higher education includes a Master of Science degree in Civil and Geotechnical Engineering from State University of New York at Buffalo.

Management duties include overseeing project budget and schedule, managing client's expectations, and supervising junior engineers, laboratory and field personnel, sub-consultants and sub-contractors.

The following is a representative list of distinguished projects Mr. Pirathiviraj has served as a geotechnical engineer of record, project manager, and/or project engineer.

PROJECT EXPERIENCE

- LA Public Works Compton Creek Low Flow Diversion, Los Angeles, CA
- LA Public Works Arroyo Seco Low Flow Diversion, Pasadena, CA
- Agoura Hills Stormwater Treatment Facility, Agoura Hills, CA
- Temecula Flood Control Channel Recon and Repair at Pala Park, Temecula, CA
- Rio Hondo Load Reduction Strategy Design, San Gabriel Valley, CA
- John Anson Ford Park Infiltration Cisterns, Bell Gardens, CA
- Mill Creek Diversion and Debris Management Improvement, San Bernardino County, CA
- San Fernando Regional Park Infiltration, San Fernando, CA
- Mesmer Low Flow Diversion, Culver City, CA
- Walnut Stormwater Capture and Groundwater Replenishment Basin, Torrance, CA
- Los Alamitos High School Aquatic Center, Los Alamitos, CA
- Orange Coast College Student Housing, Costa Mesa, CA
- Orange Coast College Tennis Court and Parking, Costa Mesa, CA
- Santiago Charter Middle School Solar Canopies, Orange, CA
- Coachella Valley Unified School District Solar Canopies, Coachella, CA
- SR-91/71 Interchange Improvements, Riverside County, CA
- SR-91 Westbound Widening, Orange County, CA
- SR-91 Bridges in Riverside County, CA
- SR-91 Retaining Walls and Soundwalls in Riverside County, CA
- SR-73 Storm Water Monitoring, Orange County, CA



EDUCATION

MSc/Civil and Geotechnical Engineering/State University of New York at Buffalo, United States/2004.

BSc/Civil Engineering/University of Peradeniya, Sri Lanka/2001.

REGISTRATIONS

Registered Geotechnical Engineer California

Registered Civil Engineer California

AFFILIATIONS

American Society of Civil Engineers

WORK HISTORY

Terracon Consultants, Inc.
Senior Engineer, 2016-Present

Earth Mechanics, Inc.
Project Engineer, 2009-2016

AECOM formally URS
Corporation
Project Manager, 2004-2009

COMMITMENT TO CONTRACT
20%

**Engineer/Scientist****2021*
Rate/Hour**

Principal	\$269
Senior Project Manager	\$265
Project Manager	\$232
Technical Manager	\$228
Task Leader	\$202
Principal Engineer	\$197
Senior Engineer	\$186
Project Engineer	\$163
Staff Engineer	\$136
Assistant Engineer	\$110
Senior Environmental Scientist	\$166
Environmental Scientist	\$138
Environmental Analyst	\$103

Construction Services

Construction Manager	\$190
Senior Construction Inspector	\$145
Construction Inspector	\$128

Field Survey

Licensed Surveyor	\$177
3-Person Survey Crew	\$249
2-Person Survey Crew	\$200

Support Services

GIS Specialist	\$133
Senior Engineering Technician	\$108
Engineering Technician	\$94
CADD Designer	\$110
Project Coordinator	\$98
Administrative Assistant	\$88

General

Direct Expenses	Cost + 10%
Subcontract Services	Cost + 10%
Specialized Computer Applications (per hour)	\$15
Mileage	Current IRS Rate
Field Vehicle – Hourly	\$12/hour
Field Vehicle – Daily	\$80/day
Field Vehicle – Monthly	\$1,500/month
B&W Photocopies (per page)	\$0.10
Color Photocopies (per page)	\$0.50

*Rates will be adjusted annually based on the US Department of Labor, Bureau of Labor Statistics, Consumer Price Index for All Urban Consumers.

Rates for field equipment, health and safety equipment, and graphical supplies presented upon request.

Based on CWE maintaining General Liability Insurance for bodily injury and property damage with an aggregate limit of \$2,000,000 per occurrence. In the event the client desires additional coverage, CWE will, upon the client's written request, obtain additional insurance and adjust the above billing rates accordingly.

J.C. CHANG & ASSOCIATES, INC.

ENGINEERS ■ ARCHITECTS ■ PLANNERS

385 VAN NESS AVENUE, SUITE 208

TORRANCE, CA 90501

TEL: (310) 212-7644 ■ FAX: (310) 212-5272

www.jccainc.com

2020 BILLING RATES AND COST SCHEDULE

<u>DESCRIPTION OF SERVICES</u>	<u>UNIT</u>	<u>UNIT PRICE</u>
Principal	MH	\$ 200.00
Project Manager	MH	\$ 170.00
Architect	MH	\$ 160.00
Engineer	MH	\$ 160.00
CAD Operator	MH	\$ 120.00
Clerical	MH	\$ 100.00
Reproduction (In House)	Sheet	\$ 5.00
Reports/Specifications	Set	\$ 50.00
CAD Plot	Sheet	\$ 20.00
Computer Discs	Each	\$ 15.00
Plan Check or Permit Fees		Cost + 10%
Reproduction Services (Contract)		Cost + 10%
Other Services (See Note 1)		Cost + 10%

NOTES

1. This applies only to subcontracted or other type of work requested by client that is outside the scope of our normal services for A/E projects (e.g. equipment rental), or on services that require no A/E input.

HOURLY BILLING RATES EFFECTIVE JUNE 2019

Job Classification							Hourly Rate Range ^{1,2}
Planning	Environmental	Transportation	Air/Noise	Cultural/ Paleontological Resources	Biology	GIS	
Principal	Principal	Principal	Principal	Principal	Principal	Principal	\$175–390
Associate	Associate	Associate	Associate	Associate	Associate	Associate	\$125–245
Senior Planner	Senior Environmental Planner	Senior Transportation Planner/Engineer	Senior Air Quality/Noise Specialist	Senior Cultural Resources Manager/Paleontologist	Senior Biologist/Botanist/Wildlife Biologist/Ecologist/Soil Scientist/Herpetologist/Arborist	Senior GIS Specialist	\$115–220
Planner	Environmental Planner	Transportation Planner/Engineer	Air Quality/Noise Specialist/Climate Change Specialist	Cultural Resources Manager Archaeologist/Architectural Historian/Paleontologist	Biologist/Botanist/Wildlife Biologist/Ecologist/Soil Scientist/Herpetologist/Arborist	GIS Specialist	\$85–150
Assistant Planner	Assistant Environmental Planner	Assistant Transportation Planner/Engineer	Air Quality/Noise Analyst	Cultural Resources Analyst	Assistant Biologist/Botanist/Wildlife Biologist/Ecologist/Soil Scientist/Herpetologist/Arborist	Assistant GIS Specialist	\$85–100
Field Services							
Senior Field Crew/Field Crew							\$80–100
Office Services							
Graphics							\$115–150
Marketing							\$75–125
Office Assistant							\$65–115
Project Assistant							\$70–145
Research Assistant/Intern							\$50–80
Word Processing/Technical Editing							\$95–125

¹ The hourly rate for work involving actual expenses in court (e.g., giving depositions or similar expert testimony) will be billed at \$400 per hour regardless of job classifications.

² Hourly rates are subject to review at least annually, on or about June 1 of each year, and may be adjusted to reflect changing labor costs at LSA's discretion at that time.

LSA IN-HOUSE DIRECT COSTS EFFECTIVE JUNE 2019¹

Description	Unit Cost	Description	Unit Cost
Reproduction (8.5 x 11) B/W	\$0.07 per page	GPS Unit	\$75.00 per day
Reproduction (8.5 x 11) Color	\$0.40 per page	Total Station Surveying Instrument	\$50.00 per day
Reproduction (11 x 17) B/W	\$0.10 per page	Level (Laser or Optical)	\$25.00 per day
Reproduction (11 x 17) Color	\$0.75 per page	Laser Rangefinder	\$25.00 per day
CD Production	\$5.00 per CD	Sound Meter	\$75.00 per day
USB Flash Drive	\$5.00 per drive	Sound Meter with Velocity Transducer	\$85.00 per day
Plotting	\$3.75 per sq ft	Aerial Photo	Cost
Aerial Drone	\$200.00 per day	Boat Rental	\$125.00 per day
Mileage On-Road	Current federal rate	Water Quality Meter	\$25.00 per day
Mileage Off-Road	Current federal rate	Night Vision Goggles	\$50.00 per unit per night

¹ Direct costs shall be reimbursed at cost plus 10 percent.



2020 Schedule of Services and Fees Southern California

1. PERSONNEL

Senior Principal / Office Manager	\$ 185.00 /hour
Principal	\$ 175.00 /hour
Senior Engineer/Geologist	\$ 165.00 /hour
Senior Project Manager	\$ 155.00 /hour
Project Engineer/Geologist	\$ 145.00 /hour
Project Manager	\$ 135.00 /hour
Senior Staff Engineer/Geologist	\$ 125.00 /hour
Staff Engineer/Geologist	\$ 105.00 /hour
Field Engineer/Geologist	\$ 95.00 /hour
Soil Technician I	\$ 68.00 /hour ¹
Soil Technician II	\$ 75.00 /hour ¹
Asphalt Field Technician	\$ 75.00 /hour ¹
Special Inspector-Concrete and Masonry	\$ 75.00 /hour ¹
Special Inspector-Steel, Fire Proofing and CWI Welding	\$ 85.00 /hour ¹
Administration	\$ 68.00 /hour
Computer Data Entry	\$ 75.00 /hour
<i>Asphalt / Soil Technician I-II (Prevailing Wage)</i>	<i>\$ 98.00 /hour¹</i>
<i>Special Inspector (Prevailing Wage)</i>	<i>\$ 105.00 /hour¹</i>

NOTE: Deposition or court testimony at 1.5 times regular rate, with a minimum of \$160.00 per hour with payment due at the time of service.

1- Increase hourly rate by 1.5 for weekend, night and holiday work and 4 hour minimum. Travel time is portal to portal.

2. EXPENSES AND SUPPLIES

Vehicle Charge (mileage)	\$ 0.65 /mile
Per Diem	\$ 150.00 / day
Photo Ionization Device (PID)	\$ 100.00 /day
Miscellaneous Charges (equipment, materials, etc.)	COST +15%

3. GEOTECHNICAL LABORATORY TESTING

Visual-Manual Engineering Classification	\$ 10.00 /test
In-situ Moisture and Density	\$ 15.00 /test ³
In-situ Moisture	\$ 5.00 /test
Specific Gravity	\$ 80.00 /test
Atterberg limits (liquid and plastic limits) ASTM	\$ 80.00 /test
Atterberg limits (liquid and plastic limits) COE	\$ 105.00 /test
Shrinkage Limit	\$ 60.00 /test
Sieve Analysis (Fine Sieve + wash)	\$ 120.00 /test
Sieve and Hydrometer Analysis	\$ 200.00 /test
# 200 Wash	\$ 40.00 /test
Hydrometer Only	\$ 125.00 /test
Organic Content	\$ 65.00 /test
Sand Equivalent	\$ 120.00 /test
Maximum Density (Standard 4-inch)	\$ 135.00 /test
Maximum Density (Modified 4-inch)	\$ 180.00 /test
Maximum Density (Standard 6-inch)	\$ 180.00 /test
Maximum Density (Modified 6-inch)	\$ 180.00 /test
Maximum Density (CA 216)	\$ 155.00 /test
Direct Shear (in-situ)	\$ 220.00 / test ³
Direct Shear (remolded)	\$ 250.00 / test
Unconfined Compression	\$ 100.00 / test ³
Triaxial Shear	On request / test ³
Consolidation (without time rate)	\$ 165.00 / test ³
Consolidation (with time rate – Per load increment)	\$ 60.00 / load increment ³
Swell test	\$ 80.00 / test ³



2020 Schedule of Services and Fees Southern California

Collapse Potential	\$ 80.00 / test ³
Expansion Index	\$ 125.00 / test
Permeability	\$ 250.00 / test
pH and Resistivity	\$ 40.00 /test
Chloride	\$ 35.00 /test
Soluble Sulfate	\$ 60.00 /test
CBR	\$ 300.00 /test
R-Value	\$ 250.00 /test

3- Increase rate by \$30 per test if sample is Shelby tube.

**AGREEMENT TO PROVIDE ON-CALL
STORMWATER PROJECT DESIGN SERVICES**

THIS AGREEMENT is made and entered into this 20th day of October, 2020 by and between Stantec Consulting Services, Inc. ("Consultant"), and the City of Santa Ana, a charter city and municipal corporation organized and existing under the Constitution and laws of the State of California ("City").

RECITALS

- A. On July 16, 2020, the City issued Request for Proposal No. 20-102, by which it sought qualified consultants to provide on-call stormwater project design services for the City's Public Works Agency.
- B. Consultant submitted a responsive proposal that was among those selected by the City. Consultant represents that it is able and willing to provide the services described in the scope of work that was included in RFP No. 20-102.
- C. In undertaking the performance of this Agreement, Consultant represents that it is knowledgeable in its field and that any services performed by Consultant under this Agreement will be performed in compliance with such standards as may reasonably be expected from a professional contracting firm in the field.

NOW THEREFORE, in consideration of the mutual and respective promises, and subject to the terms and conditions hereinafter set forth, the parties agree as follows:

1. SCOPE OF SERVICES

On an on-call basis, and at the City's sole discretion, Consultant shall perform the services described in the scope of work that was included in RFP No. 20-102, which is attached as Exhibit A, and as more specifically delineated in Consultant's proposal, which is attached as Exhibit B and incorporated in full.

2. COMPENSATION

- a. City neither warrants nor guarantees any minimum or maximum compensation to Consultant under this Agreement. Consultant shall be paid only for actual services performed under this Agreement at the rates and charges identified in Exhibit C. Consultant is one of three (3) consultants selected to provide services for stormwater projects on an on-call basis under RFP No. 20-102. The total compensation for these services provided by all such consultants selected under RFP No. 20-102 shall not exceed the shared aggregate amount of \$2,000,000 during the term of the Agreement, including any extension periods.
- b. Payment by City shall be made within forty-five (45) days following receipt of proper invoice evidencing work performed, subject to City accounting procedures.

Payment need not be made for work which fails to meet the standards of performance set forth in the Recitals and Scope of Work, which may reasonably be expected by City.

3. TERM

This Agreement shall commence on the date first written above and terminate on October 19, 2023, unless terminated earlier in accordance with Section 17, below. The term of this Agreement may be extended for one 2-year period upon a writing executed by the City Manager and City Attorney.

4. PREVAILING WAGES

Consultant is aware of the requirements of California Labor Code Section 1720, et seq., and 1770, et seq., as well as California Code of Regulations, Title 8, Section 16000, et seq., ("Prevailing Wage Laws"), which require the payment of prevailing wage rates and the performance of other requirements on "public works" and "maintenance" projects. If the services being performed are part of an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and the total compensation is \$1,000 or more, Consultant agrees to fully comply with such Prevailing Wage Laws. Consultant shall defend, indemnify and hold the City, its elected officials, officers, employees and agents free and harmless from any claim or liability arising out of any failure or alleged failure to comply with the Prevailing Wage Laws.

5. INDEPENDENT CONSULTANT

Consultant shall, during the entire term of this Agreement, be construed to be an independent Consultant and not an employee of the City. This Agreement is not intended nor shall it be construed to create an employer-employee relationship, a joint venture relationship, or to allow the City to exercise discretion or control over the professional manner in which Consultant performs the services which are the subject matter of this Agreement; however, the services to be provided by Consultant shall be provided in a manner consistent with all applicable standards and regulations governing such services. Consultant shall pay all salaries and wages, employer's social security taxes, unemployment insurance and similar taxes relating to employees and shall be responsible for all applicable withholding taxes.

6. OWNERSHIP OF MATERIALS

This Agreement creates a non-exclusive and perpetual license for City to copy, use, modify, reuse, or sublicense any and all copyrights, designs, and other intellectual property embodied in plans, specifications, studies, drawings, estimates, and other documents or works of authorship fixed in any tangible medium of expression, including but not limited to, physical drawings or data magnetically or otherwise recorded on computer diskettes, which are prepared or caused to be prepared by Consultant under this Agreement ("Documents & Data"). Consultant shall require all subconsultants to agree in writing that City is granted a non-exclusive and perpetual license for any Documents & Data the subconsultant prepares under this Agreement. Consultant represents and warrants that Consultant has the legal right to license any and all

Documents & Data. Consultant makes no such representation and warranty in regard to Documents & Data which were provided to Consultant by the City. City shall not be limited in any way in its use of the Documents and Data at any time, provided that any such use not within the purposes intended by this Agreement shall be at City's sole risk.

7. INSURANCE

Prior to undertaking performance of work under this Agreement, Consultant shall maintain and shall require its subconsultants, if any, to obtain and maintain insurance as described below:

- a. **Commercial General Liability Insurance.** Consultant shall maintain commercial general liability insurance naming the City, its officers, employees, agents, volunteers and representatives as additional insured(s) and shall include, but not be limited to protection against claims arising from bodily and personal injury, including death resulting therefrom and damage to property, resulting from any act or occurrence arising out of Consultant's operations in the performance of this Agreement, including, without limitation, acts involving vehicles. The amounts of insurance shall be not less than the following: single limit coverage applying to bodily and personal injury, including death resulting therefrom, and property damage, in the total amount of \$1,000,000 per occurrence, with \$2,000,000 in the aggregate. Such insurance shall (a) name the City, its officers, employees, agents, volunteers and representatives as additional insured(s); (b) be primary with respect to insurance or self-insurance programs maintained by the City; and (c) contain standard separation of insureds provisions.
- b. **Business automobile liability insurance,** or equivalent form, with a combined single limit of not less than \$1,000,000 per occurrence. Such insurance shall include coverage for owned, hired and non-owned automobiles.
- c. **Worker's Compensation Insurance.** In accordance with the California Labor Code, Consultant, if Consultant has any employees, is required to be insured against liability for worker's compensation or to undertake self-insurance. Prior to commencing the performance of the work under this Agreement, Consultant agrees to obtain and maintain any employer's liability insurance with limits not less than \$1,000,000 per accident.
- d. If Consultant is or employs a licensed professional such as an architect or engineer: Professional liability (errors and omissions) insurance, with a combined single limit of not less than \$1,000,000 per claim with \$2,000,000 in the aggregate.
- e. The following requirements apply to the insurance to be provided by Consultant pursuant to this section:
 - (i) Consultant shall maintain all insurance required above in full force and effect for the entire period covered by this Agreement.
 - (ii) Certificates of insurance shall be furnished to the City upon execution of this Agreement and shall be approved by the City.

- (iii) Certificates and policies shall state that the policies shall not be cancelled or reduced in coverage or changed in any other material aspect, by Consultant, without thirty (30) days prior written notice to the City.
 - (iv) Consultant shall supply City with a fully executed additional insured endorsement.
- f. If Consultant fails or refuses to produce or maintain the insurance required by this section or fails or refuses to furnish the City with required proof that insurance has been procured and is in force and paid for, the City shall have the right, at the City's election, to forthwith terminate this Agreement. Such termination shall not affect Consultant's right to be paid for its time and materials expended prior to notification of termination. Consultant waives the right to receive compensation and agrees to indemnify the City for any work performed prior to approval of insurance by the City.

8. INDEMNIFICATION

Consultant agrees to defend, and shall indemnify and hold harmless the City, its officers, agents, employees, Consultants, special counsel, and representatives from liability: (1) for personal injury, damages, just compensation, restitution, judicial or equitable relief arising out of claims for personal injury, including death, and claims for property damage, which may arise from the negligent operations of the Consultant or its subconsultants, agents, employees, or other persons acting on their behalf which relates to the services described in section 1 of this Agreement; and (2) from any claim that personal injury, damages, just compensation, restitution, judicial or equitable relief is due by reason of the terms of or effects arising from this Agreement. This indemnity and hold harmless agreement applies to all claims for damages, just compensation, restitution, judicial or equitable relief suffered, or alleged to have been suffered, by reason of the events referred to in this Section or by reason of the terms of, or effects, arising from this Agreement. The Consultant further agrees to indemnify, hold harmless, and pay all costs for the defense of the City, including fees and costs for special counsel to be selected by the City, regarding any action by a third party challenging the validity of this Agreement, or asserting that personal injury, damages, just compensation, restitution, judicial or equitable relief due to personal or property rights arises by reason of the terms of, or effects arising from this Agreement. City may make all reasonable decisions with respect to its representation in any legal proceeding. Notwithstanding the foregoing, to the extent Consultant's services are subject to Civil Code Section 2782.8, the above indemnity shall be limited, to the extent required by Civil Code Section 2782.8, to claims that arise of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the Consultant.

9. INTELLECTUAL PROPERTY INDEMNIFICATION

Consultant shall defend, indemnify and hold harmless the City, its officers, agents, representatives, and employees against any and all liability, including costs, and attorney's fees, for infringement of any United States' letters patent, trademark, or copyright contained in the work product or documents provided by Consultant to the City pursuant to this Agreement.

10. RECORDS

Consultant shall keep records and invoices in connection with the work to be performed under this Agreement. Consultant shall maintain complete and accurate records with respect to the costs incurred under this Agreement and any services, expenditures, and disbursements charged to the City for a minimum period of three (3) years, or for any longer period required by law, from the date of final payment to Consultant under this Agreement. All such records and invoices shall be clearly identifiable. Consultant shall allow a representative of the City to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement during regular business hours. Consultant shall allow inspection of all work, data, documents, proceedings, and activities related to this Agreement for a period of three (3) years from the date of final payment to Consultant under this Agreement.

11. CONFIDENTIALITY

If Consultant receives from the City information which due to the nature of such information is reasonably understood to be confidential and/or proprietary, Consultant agrees that it shall not use or disclose such information except in the performance of this Agreement, and further agrees to exercise the same degree of care it uses to protect its own information of like importance, but in no event less than reasonable care. "Confidential Information" shall include all nonpublic information. Confidential information includes not only written information, but also information transferred orally, visually, electronically, or by other means. Confidential information disclosed to either party by any subsidiary and/or agent of the other party is covered by this Agreement. The foregoing obligations of non-use and nondisclosure shall not apply to any information that (a) has been disclosed in publicly available sources; (b) is, through no fault of the Consultant disclosed in a publicly available source; (c) is in rightful possession of the Consultant without an obligation of confidentiality; (d) is required to be disclosed by operation of law; or (e) is independently developed by the Consultant without reference to information disclosed by the City.

12. CONFLICT OF INTEREST CLAUSE

Consultant covenants that it presently has no interest and shall not have interests, direct or indirect, which would conflict in any manner with performance of services specified under this Agreement.

13. NOTICE

Any notice, tender, demand, delivery, or other communication pursuant to this Agreement shall be in writing and shall be deemed to be properly given if delivered in person or mailed by first class or certified mail, postage prepaid, or sent by fax or other telegraphic communication in the manner provided in this Section, to the following persons:

To City: Clerk of the City Council
 City of Santa Ana

20 Civic Center Plaza (M-30)
P.O. Box 1988
Santa Ana, CA 92702-1988
Fax: (714) 647-6956

Executive Director
Public Works Agency
City of Santa Ana
20 Civic Center Plaza (M-21)
P.O. Box 1988
Santa Ana, CA 92702

To Consultant: Stantec Consulting Services, Inc.
38 Technology Dr
Irvine, CA 92618
Attn: Roger Chung, PE, CFM, QSD/P, F. ASCE
Project Manager

A party may change its address by giving notice in writing to the other party. Thereafter, any communication shall be addressed and transmitted to the new address. If sent by mail, communication shall be effective or deemed to have been given three (3) days after it has been deposited in the United States mail, duly registered or certified, with postage prepaid, and addressed as set forth above. If sent by fax, communication shall be effective or deemed to have been given twenty-four (24) hours after the time set forth on the transmission report issued by the transmitting facsimile machine, addressed as set forth above. For purposes of calculating these timeframes, weekends, federal, state, County or City holidays shall be excluded.

14. EXCLUSIVITY AND AMENDMENT

This Agreement represents the complete and exclusive statement between the City and Consultant regarding the subject matter herein, and supersedes any and all other agreements, oral or written, between the parties. In the event of a conflict between the terms of this Agreement and any attachments hereto, the terms of this Agreement shall prevail. This Agreement may not be modified except by written instrument signed by the City and by an authorized representative of Consultant. The parties agree that any terms or conditions of any purchase order or other instrument that are inconsistent with, or in addition to, the terms and conditions hereof, shall not bind or obligate Consultant or the City. Each party to this Agreement acknowledges that no representations, inducements, promises or agreements, orally or otherwise, have been made by any party, or anyone acting on behalf of any party, which are not embodied herein.

15. ASSIGNMENT

Inasmuch as this Agreement is intended to secure the specialized services of Consultant, Consultant may not assign, transfer, delegate, or subcontract any interest herein without the prior written consent of the City and any such assignment, transfer, delegation or subcontract without the City's prior written consent shall be considered null and void. Nothing in this Agreement shall

be construed to limit the City's ability to have any of the services which are the subject to this Agreement performed by City personnel or by other Consultants retained by City.

16. WAIVER

No waiver of breach, failure of any condition, or any right or remedy contained in or granted by the provisions of this Agreement shall be effective unless it is in writing and signed by the party waiving the breach, failure, right or remedy. No waiver of any breach, failure or right, or remedy shall be deemed a waiver of any other breach, failure, right or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

17. TERMINATION

This Agreement may be terminated by the City upon thirty (30) days written notice of termination. In such event, Consultant shall be entitled to receive and the City shall pay Consultant compensation for all services performed by Consultant prior to receipt of such notice of termination, subject to the following conditions:

- a. As a condition of such payment, the Executive Director may require Consultant to deliver to the City all work product completed as of such date, and in such case such work product shall be the property of the City unless prohibited by law, and Consultant consents to the City's use thereof for such purposes as the City deems appropriate.
- b. Payment need not be made for work which fails to meet the standard of performance specified in the Recitals of this Agreement.

18. NON-DISCRIMINATION

Consultant shall not discriminate because of race, color, creed, relation, sex, marital status, sexual orientation, age, national origin, ancestry, or disability, as defined and prohibited by applicable law, in the recruitment, selection, training, utilization, promotion, termination or other employment related activities or in connection with any activities under this Agreement. Consultant affirms that it is an equal opportunity employer and shall comply with all applicable federal, state and local laws and regulations.

19. JURISDICTION-VENUE

This Agreement has been executed and delivered in the State of California and the validity, interpretation, performance, and enforcement of any of the clauses of this Agreement shall be determined and governed by the laws of the State of California. Both parties further agree that Orange County, California, shall be the venue for any action or proceeding that may be brought or arise out of, in connection with or by reason of this Agreement.

20. PROFESSIONAL LICENSES

Consultant shall, throughout the term of this Agreement, maintain all necessary licenses, permits, approvals, waivers, and exemptions necessary for the provision of the services hereunder and required by the laws and regulations of the United States, the State of California, the City of Santa Ana and all other governmental agencies. Consultant shall notify the City immediately and in writing of its inability to obtain or maintain such permits, licenses, approvals, waivers, and exemptions. Said inability shall be cause for termination of this Agreement.

21. MISCELLANEOUS PROVISIONS

- a. Each undersigned represents and warrants that its signature herein below has the power, authority and right to bind their respective parties to each of the terms of this Agreement, and shall indemnify City fully, including reasonable costs and attorney's fees, for any injuries or damages to City in the event that such authority or power is not, in fact, held by the signatory or is withdrawn.
- b. All exhibits referenced herein and attached hereto shall be incorporated as if fully set forth in the body of this Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the date and year first above written.

ATTEST:

CITY OF SANTA ANA

DAISY GOMEZ
Clerk of the Council

KRISTINE RIDGE
City Manager

APPROVED AS TO FORM
SONIA R. CARVALHO
City Attorney

CONSULTANT

By: John M. Funk
John M. Funk
Assistant City Attorney

Sherry L. Weinmeier
Name: Sherry L. Weinmeier
Title: Principal

RECOMMENDED FOR APPROVAL

Nabil Saba
NABIL SABA, PE
Executive Director
Public Works Agency

**Appendix
ATTACHMENT 1
SCOPE OF WORK**

**CITY OF SANTA ANA
REQUEST FOR PROPOSALS
FOR
ON-CALL STORMWATER PROJECT DESIGN SERVICES
RFP NO. 20-102**

INTRODUCTION/BACKGROUND

The City of Santa Ana is 27.2 square miles and is located in central Orange County, California. Santa Ana is the most densely populated city in the county, with a total population of 338,247 and approximately 12,435 people per square mile. Santa Ana sits within three major watersheds: the Newport Bay watershed, the Santa Ana River watershed, and the Anaheim Bay/Huntington Harbour watershed.

The City of Santa Ana is a co-permittee under the North Orange County Municipal Separate Storm Sewer System (MS4) Permit (Order No. R8-2009-0030, as amended by Order No. R8-2010-0062). The Permit presents a series of technical, legal, and regulatory challenges to the City and as a result, the City has established a rigorous stormwater compliance program. The Permit requires the City to reduce the discharge of pollutants in urban stormwater runoff to Waters of the US to the “Maximum Extent Practicable”. One of the most effective mechanisms in reducing pollutants and improving surface water quality is via the construction of structural Best Management Practices (BMPs). Stormwater infiltration, biotreatment, harvest and reuse, and diversion to the sanitary sewer are proven methods to achieve water quality goals and the City seeks to continue its proactive approach in implementing such projects. Additionally, structural BMPs can provide ancillary benefits such as increasing local water supplies, reducing flooding, and providing public education and recreational opportunities for Santa Ana residents.

The City desires to retain Civil Engineering Consultants on an as-needed or “on-call” basis to design complex, regional stormwater capture and treatment projects and perform other stormwater-related tasks as outlined in the Scope of Services below. Professional Services Agreements will be entered into with the selected Civil Engineering Consultants and the selected Consultants will be asked to provide professional engineering services proposals on a project-by-project basis, based on an agreed-upon scope of services and fees. After review of the proposals and associated costs, the City will issue a Notice to Proceed (NTP) for the selected Consultant to begin work on the project/task.

Funding sources for each project may vary. The City intends to seek local, State, and Federal grant moneys to fund regional stormwater projects and the selected firm shall comply with the funding agency’s requirements. Additionally, all work shall be done in accordance with the most

recently adopted North Orange County MS4 Permit and any other applicable local, State, and Federal laws.

Consultants shall utilize in-house staff and/or sub-consultants to complete assignments to meet the City's standards. For specialized work, for which the prime consultant requires a sub-consultant, the prime consultant shall serve as an administrative liaison between the City and the sub-consultant and shall include these administrative costs in their proposed project management fees.

Prime consultant mark-ups for sub-consultant work will not be allowed.

All proposals, plans, drawings, specifications, estimates, grant applications, modeling, studies, presentations, and/or reports will be subject to the final approval and satisfaction of the City. The selected consultants must have the expertise, experience, and demonstrated resources available to perform the work described in this RFP.

The City desires to enter into Agreements with the three top-ranking firms for an initial three (3)-year term, with a City option to exercise one (1), two (2)-year extension period. The annual amount to be expended under the Agreement will vary at the City's discretion and will be dependent on available grant funding opportunities and local match availability.

A. SCOPE OF SERVICES

Work under this Agreement may include, but is not limited to, the following tasks below:

1) Project Planning/Feasibility Studies

Firms shall be capable of performing the following tasks:

- a. Hydraulic computer modeling
- b. Stormwater sampling/monitoring/data analysis
- c. Flow monitoring studies
- d. Mapping services
- e. Hydrologic calculations
- f. Preparation/review of Water Quality Management Plans (WQMP)
- g. Conceptual design/drawing
- h. Percolation rate testing/geotechnical reporting
- i. Coordination with outside agencies
- j. Project presentations
- k. Researching existing field conditions and utilities
- l. Cost benefit analyses
- m. Technical feasibility and project impact analyses
- n. Drafting project planning documents
- o. Monitoring and alerting the City of potential grant funding opportunities

- o. Any other work required to successfully plan for projects and adequately assess project feasibility

2) Environmental Documentation/Permitting

Firms shall be capable of performing the following tasks:

- a. Prepare and file all necessary environmental documents and apply for all required permits including, but not limited to:
 - i. California Environmental Quality Act (CEQA)
 - ii. National Environmental Policy Act (NEPA)
 - iii. Federal Clean Water Act Section 401
 - iv. Federal Clean Water Act Section 404
 - v. California Department of Fish and Wildlife (CDFW) Section 1602
 - vi. Orange County Sanitation District (OCSD) Discharge Permits
 - vii. Orange County Flood Control District (OCFCD) Encroachment Permit

3) Project Design

Firms shall be capable of performing the following tasks:

- a. Land Surveying
- b. Civil-Engineering Design
- c. Structural Design
- d. Geotechnical Design
- e. Architectural Design
- f. Electrical Design
- g. Mechanical Design
- h. Instrumentation and Control Systems Design
- i. Landscape Architecture and Irrigation Design
- j. Detailed Engineering/Cost Estimation
- k. Preparation of construction bid documents and specifications
- l. Any other work required to complete project design

General Requirements and Project Deliverables

Design level survey and base mapping of the project site shall be prepared in US Customary English units by a California licensed Land Surveyor in accordance with the City guidelines and in Microstation V8i Computer Aided Design and Drafting (CADD) format. The horizontal datum shall be NAD 83 and the vertical datum shall be NAVD 88. All survey field notes shall be on forms provided by the City, shall be neatly completed in pencil, and shall become property of the City upon completion of the project. Informal field investigations including marking of removal areas may be required for some of the sidewalk, curb and gutter, and pavement replacement projects.

The Consultants shall contact manufacturers and/or contractors to verify the engineer's estimate prior to submitting to the City. Specifications shall be prepared in Microsoft Word and an electronic copy of the final version shall be furnished to the City. The City will provide the specification boiler plate to the Consultants. If requested, all preliminary and bid sets of plans shall be plotted on bond or velum paper using Microstation V8i CADD software program. All drawings shall be completed per the City of Santa Ana CADD Standards and any special provisions thereof. For interim submittals, the City may opt to receive only PDF versions of the plans for reviewing purposes. If so, the Consultant team will provided plans and/or specifications accordingly. All original plan sheets, the title sheet of the specifications, calculations, and reports shall be signed and stamped by the Consultants' licensed professional engineer responsible/in-charge of the project.

The Consultants shall monitor project progress, maintain project files, and control the quality of the work performed by in-house staff and/or sub-consultants. Incomplete (not meeting targeted completion) or poor quality work will not be accepted. The Consultants shall revise the documents within a revised schedule set by the City, which may require overtime. No additional compensation necessary for the consultant to complete this work to the satisfaction of the City shall be approved by the City for the required revisions. It is the responsibility of the Consultants to produce a professional-level quality of work product.

The Consultants shall coordinate plan check, design topics, permits and any other issues with the City, other Agencies, and all utility companies as required. At the direction of the City, the Consultants shall be the liaison with affected agencies.

The Consultants' services for plans specifications and estimating (PS&E) for engineering project preparation and special studies/investigations shall include and be in conformance with the latest editions of the following: Title 24 of the California Code of Regulations (California Building Standards Code), American Water Works Association, California Department of Transportation, the Americans with Disabilities Act, the City of Santa Ana Municipal Code (SAMC), professional Standards established by the City, and or Federal, State and local guidelines established in the project.

As part of the preparation of the PS&E, the consultant shall prepare the special provisions pertaining to the items of work included in the plans that are not addressed on the latest editions of the applicable standards.

The Consultants shall have complete responsibility for the accuracy and completeness of all documents and plans prepared. The plans will be reviewed by the City for conformity with the requirements of the Agreement. Reviews by the City do NOT include a detailed checking of design or accuracy with which such designs are depicted in the documents and plans. The documents and plans furnished under the Agreement shall be of a quality acceptable to the City of Santa Ana. The criteria for acceptance shall be a product of neat appearance, thoroughly organized, technically and grammatically correct, checked, dated, and having the maker and checker identified.

The Consultants shall have project management control procedures in effect during the entire time work is being performed under the Agreement. This task shall include the following:

- Project Management Plan – at the request of the City, the consultant shall provide a detailed management plan including information and coordination with other agencies to ensure compliance and completion of the (PS&E) packages. This plan shall include all milestones and task breakdown for each of the tasks and subtasks included therein. The Project Management Plan shall be submitted to the Project Manager for review and within 15 calendar days of the issued Notice to Proceed
- Deliverables
- Quality Control/Quality Assurance (QA/QC) Plan
- Project Schedule/Invoicing
- Project Correspondence

In case of conflict, ambiguities, discrepancies, errors, or omissions, the Consultant shall submit the matter to the City for clarification.

The Consultants shall perform engineering design services resulting in contract documents (plans, specifications and cost estimates “PS&E”) for various projects on an as-needed basis. However, work tasks may include studies or a variety of engineering tasks. If requested by the City, the Consultants shall provide a Work Plan, which includes a detailed schedule of the assigned project prior to the issuance of a Notice to Proceed (NTP) and/or Task Order. Specific Task Orders with NTP’s will be provided for project(s) at the discretion of the City. Work required per Task Order shall comply with the Scope of Services and additional provisions in each Task Order and this agreement.

4) Other Requirements

Firms shall be capable of performing the following tasks:

- a. Assistance with local, State, and Federal Grant applications
- b. Construction and bidding phase support including, but not limited to:
 - i. Responding to bidder inquiries during the bidding process, including preparation of any addenda. Following award of the construction contract, the Consultant may attend the pre-construction meeting.
 - ii. Reviewing and approving submittals and shop plan drawings. The Consultant shall complete shop plan drawing reviews within two (2) weeks of receipt. Contract Change Order reviews shall be completed within two (2) working days of receipt.
 - iii. Responding to written Requests for Information (RFI) to provide clarification or resolve discrepancies in the contract documents. Responses shall be completed within three (3) working days.
 - iv. Providing periodic field reviews and bringing to the attention of the City any defects or deficiencies in the work by the construction contractor which the Consultant has observed. The Consultant shall have no authority to issue instruction on behalf of the City, or to deputize another to do so.

- c. Attending meetings with City Staff or on behalf of the City
- d. Development of Project Performance Monitoring Plans, Quality Assurance Project Plans (QAPP), or similar
- e. Conduct site visits during pre-construction, construction, and post-construction project phases
- f. Construction management support
- g. Post-construction phase support including, but not limited to:
 - i. Local, State, and Federal Grant reporting assistance
 - ii. Stormwater sampling/monitoring/data analysis
 - iii. Stormwater quality data upload to California Environmental Data Exchange Network (CEDEN)
 - iv. Project effectiveness assessments
 - v. Provide as-built drawings to the City

B. PROJECT SCHEDULE AND PROGRESS

Upon request by the City, Consultants shall submit detailed project schedules outlining all project tasks and milestones. Progress review meetings shall be held at intervals deemed appropriate by the City. Consultants shall furnish two copies of all completed work or status update of partially completed work since the last progress review meeting. Progress reports shall be submitted monthly in electronic format indicating achievements and project schedule progress.

C. CITY RESPONSIBILITIES

The City will provide information in its possession relevant to the completion of the tasks outlined in this RFP. In general, this includes, but is not limited to:

- Furnish scope of work and provide general direction as needed for the assigned project
- Plan check coordination within the City
- Advertise, award, and administration of construction contract
- Documents, data, maps, or information relevant to the design of the project
- Electronic files (sample plans & specifications, City of Santa Ana's CADD Standards)
- Electronic files for title sheets and sheet borders
- Facilitate meeting space and coordination at City facilities

D. SPECIAL REQUIREMENTS

ADDITIONAL WORK

Upon request by the City, Consultants shall submit supplemental proposals for Additional Work not called for under the Scope of Services of this Agreement. Consultants must obtain written approval prior to commencing any Additional Work.

FEE PROPOSAL:

In addition to Section IV.B.3 (Submittal Requirements: Fee Proposal) the fee schedule shall be structured as follows:

The fee proposal shall include the firm's standard hourly fee schedule. A list of all positions and hourly rates required to perform the services in this RFP shall be described herein. At the request of the City, the Consultant shall provide a more detailed fee proposal when a specific project proposal is requested of the Consultant.

OTHER TERMS AND CONDITIONS:

1. The project will be implemented in compliance with the City of Santa Ana's policies, as well as Prevailing Wage law and applicable State and Federal Requirements.
2. The City regards the inclusion of California based designs, engineering, and construction professionals, facilities, and services as part of a Team to be highly desirable, but is not mandatory.
3. The City reserves the right to amend this Request for Proposal by addendum prior to the final dates of submission.
4. All reports, proposals, or other data or materials which are submitted shall become the sole property of the City of Santa Ana with the exception of the confidential Financial Capacity information and fee proposals.
5. All products used or developed in the execution of any contract resulting from this request will remain in the public domain at the completion of this project.
6. The City has an affirmative action program. The purpose of the affirmative action program is to encourage certified minority business enterprises and women business enterprises. All submitting firms must have established affirmative action programs approvable by the City. During the RFP stage, all firms will need to complete a "Certification of Non-Discrimination by Contractors" for each firm on their team.

SPECIAL REQUIREMENTS (ATTACHMENT 4)

This project may utilize California Department of Transportation (Caltrans) grant funds and shall therefore comply with all state and federal requirements. The below referenced forms included in Attachment 4 (Additional Provisions) of the Appendix must be completed in their entirety and submitted with your proposal:

- LAPM Exhibit 10-H: Sample Cost Proposal
- LAPM Exhibit 10-O1: Consultant Proposal DBE Commitment
- LAPM Exhibit 10-O2: Consultant Contract DBE Commitment

Removed via RFP No. 20-102
Addendum 3

- LAPM Exhibit 10-K: Consultant Certification of Contract Costs and Financial management System

Please reference Caltrans Local Assistance Procedure Manual, Consultant Selection, Chapter 10, for further instructions and guidelines pertaining to the completion of these forms: <https://dot.ca.gov/-/media/dot-media/programs/local-assistance/documents/lapm/ch10.pdf>

COMPLIANCE WITH REQUIREMENTS OF FUNDING AGENCY:

This agreement may be funded with state and/or federal grant funds administered by Caltrans. Proposer shall comply with all requirements as they pertain to the use of these funds. Refer to Attachment 4 for Caltrans required forms, including Exhibit 10-H – Sample Cost Proposal (H2 for On-Call Contracts) in the Appendix of this RFP.

DISADVANTAGED BUSINESS ENTERPRISES (DBE) GOAL:

The Agency has established a DBE goal for this Contract. Proposers are encouraged to obtain DBE participation for this contract. Refer to Exhibit 10-I – Notice to Proposers DBE Information included in the Appendix of this RFP. Proposers must submit Exhibits 10-O1 & 10-O2 – Consultant Proposal & Contract DBE Commitment to demonstrate compliance with Agency's DBE goal.

CONSULTANT AUDIT AND REVIEW PROCESS:

Prior to contract award and dependent on contract award amount, the selected Consultant shall be subject to an audit or review by Caltrans' Audit and Investigations (A&I), other state audit organizations, or the federal government. The selected Consultant shall complete Exhibit 10-K – Consultant Annual Certification of Indirect Costs and Financial Management System for all prime and sub-consultants in the Appendix of this RFP. To independently download any of the Caltrans Exhibits required per this RFP, visit: <https://dot.ca.gov/programs/local-assistance/forms/local-assistance-procedures-manual-forms>

A COVER LETTER

August 12, 2020

**Mr. Craig Foster,
CPSWQ, QSD/P**City of Santa Ana
NPDES Manager
20 Civic Center Plz
(M-22)
Santa Ana, CA 92701**RE: Proposal
for No. 20-102**On-Call Stormwater
Project Design
Services

Dear Craig:

A vibrant and diverse community with unmatched character, the City of Santa Ana (City) works diligently to maintain and enhance your stormwater capture effort. To proactively manage this significant and ongoing effort, you look to consulting partners who understand your vision to provide the expertise and support needed to help design and implement sustainable and maintainable water quality systems. Stantec Consulting Services Inc. (Stantec) is an ideal-fit partner for you and your upcoming projects.

Full A-E capabilities from preliminary study to conceptual design to final PS&E and construction. Your contract and task orders will benefit from our broad experience in stormwater engineering services. Your projects will benefit from our team's extensive local and regional knowledge of green infrastructure planning and the detailed design process.

Project manager **Roger Chung, PE, CFM, QSD/P, F. ASCE**, and his team are known for expertly providing stormwater planning, and conceptual design, preliminary engineering through final PS&E. He is available and committed to deliver the same outstanding, full-service experience to you.

Successful City relationship and understanding of your processes and procedures. Our extensive agency experience throughout Orange County and Southern California spans several local cities, including Santa Ana. Roger recently provided study and design services for the **City's Raitt & Myrtle Park Project**, a project intended to integrate a regional stormwater capture project into a community desired public use park with skate tracks.

Stantec has been at the forefront of stormwater management in California for four decades. We round out the latest technologies and concepts for regional stormwater capture, stormwater resources feasibility assessment, stormwater harvesting, and reuse, and LID planning and design with a long history of working on local and regional stormwater infrastructure projects in Southern California. Our experience will be invaluable to your City.

Local, available staff. Your on-call needs are our priority. Roger will match technical experts to your task order needs. Our team is local and 100% committed and responsive-efficiently delivering high-quality services on your task orders and project needs.

As requested, we have included our fee proposal in a separately sealed envelope.

Project manager, Roger is authorized to bind Stantec Consulting Services Inc. in a contract with the City. He will serve as your primary representative and contact person for this proposal. We look forward to the opportunity to support your many upcoming projects and welcome the opportunity to further discuss how we can serve the dynamic Santa Ana community.

Sincerely,

Stantec Consulting Services Inc.



Roger Chung, PE, CFM, QSD/P, F. ASCE
Project Manager
roger.chung@stantec.com
949-491-5615



Sherry Weinmeier, PE, LEED AP, ENV SP
Principal-in-Charge
sherry.weinmeier@stantec.com
949-923-6265

25F-210

B CONTRACT AGREEMENT STATEMENT

We have reviewed your proposed RFP/contract terms in Attachment 2 and believe that should we be selected for this assignment, we will be able to conclude a mutually satisfactory contract with you.

C FIRM AND TEAM EXPERIENCE

Firm profile: Local presence

The Stantec community unites approximately 22,000 employees working in over 350 locations across 6 continents.

We're designers, engineers, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe.

Our comprehensive local experience in Santa Ana and greater Orange County area makes us ideally-suited for this contract. We have been serving the Southern California community since 1983 and are committed and eager to continuing our services.

Over the past 35 years, we have provided professional consulting services on many miles of storm drain pipes, drainage studies, and stormwater managements throughout the City and Orange County. We are intimately familiar with your standards, procedures, and personnel.

Located only 12 miles from your office, we will respond quickly to your requests. Our well-established Design Quality Control Program has been utilized on your past projects, and has proven to keep your schedules and budgets on track.

SECTION	PAGE
Organization chart, including key personnel	3
Team member availability and experience table	4-5
Résumés	Appendix C1-C25

Our stormwater/drainage experience includes:



Oso Parkway Drainage Improvement—City of Mission Viejo



Sierra Lake Golf Course Stormwater Capture—City of Fontana



South La Senda Low-Flow Diversion—City of Laguna Beach



El Modena Natural Treatment System—City of Orange

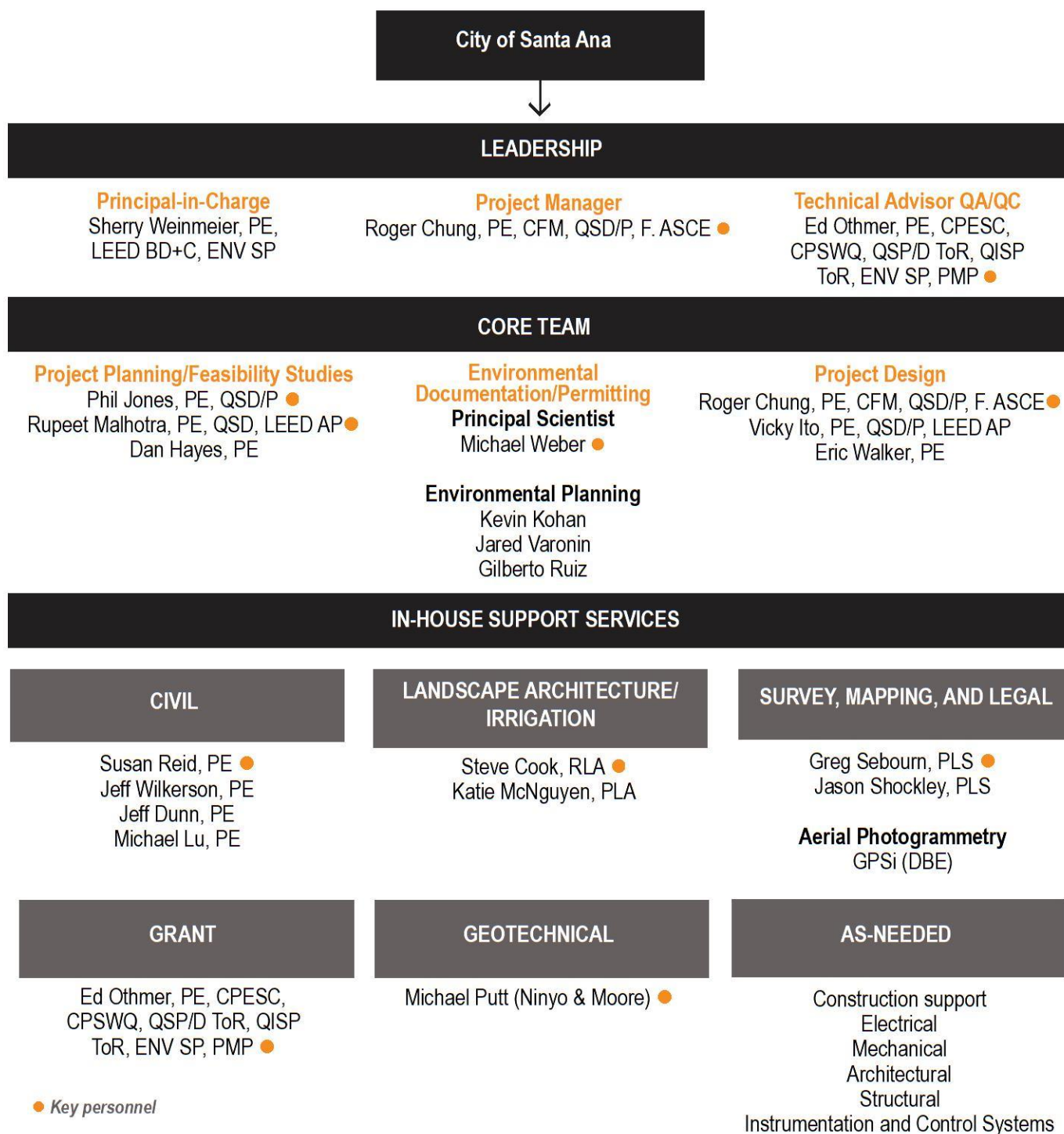


Broken Creek Channel—City of Claremont

Organization Chart

Our organization chart—with **key personnel** noted—demonstrates how our team members are organized and managed to help ensure projects run smoothly and efficiently. Project manager, Roger is our primary contact person and will lead our presentation interview, if requested. Should Roger be unavailable at any point, the City should contact Sherry Weinmeier, our principal-in-charge.

Each team member has been selected based on their similar project experience, strong understanding of your community, and workload availability. The majority of our team members have collaborated on related projects for the last decade. We will engage the best available staff from the table below and our additional support service categories if needed at the right time based on the task order.



We've designated team members who are available, dedicated, and experts in their field. Below please find approximate average percentage of each individual's time devoted to your on-call stormwater needs—you can feel confident this contract is our priority and we are committed to its successful completion.

Our résumés provided in the Appendix detail our team members' experience on similar projects and engineering expertise.

Team member availability and experience table

TEAM MEMBER/ROLE	PERCENT AVAILABLE FOR THIS PROJECT	RELEVANT EXPERIENCE							
		CITY/LOCAL EXPERIENCE	TASK ORDER/ON-CALL EXPERIENCE	REGIONAL STORMWATER CAPTURE PLANNING	DRAINAGE IMPROVEMENTS	PRELIMINARY/FINAL PS&E IMPROVEMENTS	STAKEHOLDER ENGAGEMENT	GREEN STREET PLANNING AND DESIGN	WATER QUALITY MANAGEMENT PLAN
Roger Chung, PE, CFM, QSD/P, F. ASCE ● Project Manager / Project Design	30%	✓	✓	✓	✓	✓	✓	✓	✓
Sherry Weinmeier, PE, LEED BD+C, ENV SP Principal-in-Charge	10%	✓	✓	✓	✓	✓	✓	✓	✓
Ed Othmer, PE, CPESC, CPSWQ, QSP/D ToR, QISP ToR, ENV SP, PMP ● Technical Advisor QA/QC / Grant	15%	✓	✓	✓	✓	✓	✓	✓	✓
Phil Jones, PE, QSD/P ● Project Planning/Feasibility Studies	50%	✓	✓	✓	✓	✓	✓	✓	✓
Rupeet Malhotra, PE, QSD, LEED AP ● Project Planning/Feasibility Studies	75%	✓	✓	✓	✓	✓		✓	
Dan Hayes, PE Project Planning/Feasibility Studies	75%	✓	✓	✓	✓	✓	✓	✓	✓
Michael Weber ● Environmental Documentation/Permitting Principal Scientist	25%	✓	✓	✓	✓		✓		
Kevin Kohan Environmental Documentation/Permitting Environmental Planning	25%	✓	✓	✓	✓		✓		
Jared Varonin Environmental Documentation/Permitting Environmental Planning	25%	✓	✓	✓	✓		✓		

● Key personnel

TEAM MEMBER/ROLE	PERCENT AVAILABLE FOR THIS PROJECT	RELEVANT EXPERIENCE							
		CITY/LOCAL EXPERIENCE	TASK ORDER/ON-CALL EXPERIENCE	REGIONAL STORMWATER CAPTURE PLANNING	DRAINAGE IMPROVEMENTS	PRELIMINARY/FINAL PS&E IMPROVEMENTS	STAKEHOLDER ENGAGEMENT	GREEN STREET PLANNING AND DESIGN	WATER QUALITY MANAGEMENT PLAN
Gilberto Ruiz Environmental Documentation/Permitting Environmental Planning	25%	✓	✓	✓	✓		✓		
Vicky Ito, PE, QSD/P, LEED AP Project Design	75%	✓	✓	✓	✓	✓	✓	✓	✓
Eric Walker, PE Project Design	75%	✓	✓	✓	✓	✓	✓	✓	✓
Susan Reid, PE ● Civil	25%	✓	✓	✓	✓	✓		✓	✓
Jeff Wilkerson, PE Civil	25%	✓	✓	✓	✓	✓	✓	✓	✓
Jeff Dunn, PE Civil	25%	✓	✓			✓	✓		
Michael Lu, PE Civil	25%	✓	✓			✓	✓		
Steve Cook, RLA ● Landscape Architecture/Irrigation	25%	✓	✓	✓	✓	✓	✓	✓	✓
Katie McNguyen, PLA Landscape Architecture/Irrigation	25%	✓	✓	✓	✓	✓	✓	✓	✓
Greg Sebourm, PLS ● Survey, Mapping, and Legal	25%	✓	✓	✓	✓	✓	✓	✓	✓
Jason Shockley, PLS Survey, Mapping, and Legal	25%	✓	✓	✓	✓	✓	✓	✓	✓
Ramon Ramos (GPSi) Survey, Mapping, and Legal Aerial Photogrammetry	100%	✓	✓	✓	✓	✓	✓		
Michael Putt (Ninyo & Moore) ● Geotechnical	75%	✓	✓	✓	✓	✓		✓	✓

D UNDERSTANDING OF NEED

ANTICIPATED APPROACH

We are committed to completing your projects on schedule and within budget. The following is a brief description of our general approach to meet your project goals and objectives.

Project Management Activities

We will provide the required project management activities, including the following:

- Project schedule
- Meetings
- Coordination time
- Status reports
- Submittal requirements, including QA/QC

Roger will oversee and confirm the project management activities are completed successfully through the following responsibilities:

- Efficiently initiating the project and take a proactive role
- Coordinating all aspects of the work plan
- Providing deliverables on schedule
- Facilitating communications with you and other agencies
- Providing advisory services as needed

Project manager, Roger, will be the focal point for internal and external facilitation, serving as a link between you and our team members. He will appropriate, assign, and direct the required resources to complete the project.

Preview of Submittal Meetings

We will conduct a preview submittal meeting when the plans are submitted. At the preview submittal meetings we will walk you through the submittal contents providing explanations or clarifications for specific areas where your input or decision is to be made before moving on to the next phase. After your review, we will attend a review meeting for you to explain your comments.



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Minimizing Your Risks

A major underlying approach will be to minimize risks to you during the project's construction. This will be accomplished by preparing construction plans that accurately show the best available record data and that includes a proven design best suitable for the project's constraints. We propose to include custom details for each point of connection to existing facilities and appurtenances. These details will clearly show the contractor the required work to best avoid a change of conditions during the construction phase.

TASKS NECESSARY FOR SUCCESSFUL COMPLETION

The scope of services section identifies and describes each necessary task. Our initial design process will focus on utilities research, identifying permits and stakeholder requirements and preparing an accurate base map. Throughout the final design process, our approach will be to minimize risks to you during the project's construction. This will be accomplished by preparing construction plans that accurately show the best available record data and a design that is best suited for the project's constraints. For instance, we propose to include custom details for each point of connection to existing facilities and appurtenances. These details will clearly show the contractor the required work to best avoid a change of conditions during construction. If a project has state and/or federal requirements, we have the experience to prepare the necessary forms and will comply to all requirements for the project to be successful.

We've successfully designed 50+ stormwater treatment/capture projects throughout Southern California within the last 10 years, using a proven approach similar to one that may be most appropriate for your projects.

KEY ISSUES AND SPECIAL CONCERNS

Based on our experience with projects similar to those anticipated for this contract, key issues and concerns will include constructability, utility research, and accurate base map preparation.

Constructability and Construction Budget

The design solutions will need to be thorough and effective. Understanding the key constraints will be necessary for your projects to be effective and provide the City with the most cost-efficient project and reduce impacts to the community. Key alignment constraints and considerations that will be investigated will include the following:

- Proposed connections to the existing manholes
- Opportunities for trenchless construction methods
- Impacts to traffic, neighborhoods and driveways
- Potential utility conflicts and depths of crossings
- Adjacent pipeline trench impacts
- Construction schedule constraints and durations
- Impacts to community, businesses, and other activities in the project area
- Construction cost estimates

Utility Research

A critical issue for constructing any facility is properly identifying the existing utilities and determining any potential conflicts with utility crossings. This issue is addressed by our approach to detail and thoroughness. We will perform a thorough record search utilizing the USA Dig Alert database and available record drawings. Using the USA Dig Alert database and our contacts with the various agencies, we will request all available as-built data, and request information on existing facilities and any future planned projects in the area that may potentially impact the proposed construction schedule.

Once the utility information is obtained, it will then be carefully calculated in the base AutoCAD drawing. As we have done on all of our projects, our design engineer will field walk the site, noting all above ground features, such as valve cans, manhole covers, appurtenances, and any repaired pavement trench limits. They will also measure any USA markings requested ahead of time at the potholing stage. He will verify the field measurements and adjust the locations accordingly in the drawings to show the exact locations based on the information to date.

Based on this task's importance and during the preliminary alignment analysis, our team will back check the utility data and record drawing information with the AutoCAD drawing files and construction plans. This back check procedure is intended to verify that the information from the record drawings and utility data is correctly translated onto the construction plans.

Our approach to this stage of the project is critical. We have a firm understanding of how important a proper and thorough search is, and what the impact that any missing or wrong information will have on a project's success and potential for contractor change orders. Therefore, we will also keep an active tracking log of all our requests and data received, when and what was received. We will catalog the data received according to utility location and type/size.

Traffic Control

Maintaining bus routes, residential, commercial, and emergency vehicle access to the homes and businesses that are located near the project installation route is critical to the project's success. We will use our experience designing and assisting in the implementation of pipelines, both force mains and gravity flow facilities, within residential communities.

First, we will consider traffic control techniques to reduce traffic volumes within the project area and lessen the effects of construction traffic. Specific residential access provisions will be explicitly stated on the plans and included in the project specifications. Second, we will develop a phasing plan to restrict the contractor's work to a given location until the improvements at that location are complete. Finally, requirements for residential notifications will also be included in the specifications so that residents will know in advance when work on the proposed storm drain improvements will be performed in the vicinity of their homes.

Accurate Base Map Preparation

To yield the best possible design and reduce contractor change orders, we will:

- Maintain a thorough set of record data
- Interpret the record data correctly
- Correctly translate the record data onto the base map
- Field verify the information once the map is created and correct any errors or omissions

PROJECT CONTROLS

Project Schedule

We will prepare and submit an initial schedule with the critical milestones for the major tasks involved in the project to be provided at the project's kickoff meeting. The schedule will be updated and submitted at least monthly. Additional schedules may be provided as directed by the City. We will prepare the schedule in the latest version of Microsoft Project for Windows.

Meetings

Roger will meet with the City on an average of not less than once a month during preliminary and final design, and as needed during bidding and construction, to discuss work progress, including schedules, budgets, submittal reviews, and overall project status.

Depending on the meeting agenda, Roger will be accompanied by our appropriate team member as necessary to attend the meetings with the City. We will prepare the agenda for each meeting, record the minutes of all meetings, and submit a copy of the minutes to the City, for review, within five working days after each meeting, and before distribution.

Bi-Weekly Project Status Report

We will submit a project status report to the City via email on a bi-weekly basis for appraising and monitoring of both work progress, meeting action items, outstanding data collection, schedule, and budget status.

Submittals

As described in our approach subsection, we will perform routine and final checks prior to sending any submittal to the City, to verify accuracy, conformance, and integrity of all documents. We will perform quality assurance/quality control checks on all submittals made to the City.

E RELEVANT PROJECT EXPERIENCE

We bring decades of experience helping communities achieve and advance their stormwater management goals. We have the depth of resources to provide all A-E tasks in-house—from preliminary engineering all the way through final PS&E.

The below table highlights our similar, recent projects, followed by full descriptions.

PROJECT NAME	YEAR COMPLETED	LOCAL/SOUTHERN CALIFORNIA	FEASIBILITY STUDY	FULL A-E SERVICES	PRELIMINARY ENGINEERING	FINAL PS&E	MEETING REGIONAL STORMWATER MANAGEMENT OBJECTIVE	LANDSCAPE ARCHITECTURE	STAKEHOLDER COORDINATION
Long Beach Municipal Urban Stormwater Treatment	Ongoing	✓	✓	✓	✓	✓	✓	✓	✓
Port of Long Beach Recycled Water/Stormwater Harvesting Feasibility Study	Ongoing	✓	✓	✓	✓				✓
East San Gabriel Valley Watershed Management Plan and Coordinated Integrated Monitoring Program (CIMP)	Ongoing	✓	✓	✓	✓		✓	✓	✓
Lower San Diego Creek Tributaries Urban Runoff Diversion Study	2019	✓	✓	✓	✓		✓		✓
Natural Treatment System Basin Designs—33 Sites	2017	✓	✓	✓	✓	✓	✓	✓	✓

Long Beach Municipal Urban Stormwater Treatment Port of Long Beach, CA

An ambitious, comprehensive, and innovative project that will intercept dry weather runoff (excessive irrigation, spills, construction sites, pool draining, car washing, and paved area washing) and a percentage of the first-flush storm flows generated within the City prior to discharging to existing storm drain outfalls flowing into the Los Angeles River. Long Beach is a highly-urbanized municipality and the dry weather and stormwater runoff generated within the City is collected through a complex system of underground storm drains and then discharged. Water quality standards associated with stormwater runoff are governed by the requirements of the National Pollutant Discharge Elimination System (NPDES) permit and regulated by the Los Angeles Regional Water Quality Control Board. The new facility will assist the City in complying with the permit requirements by intercepting untreated flows that would normally discharge directly to the Los Angeles River. The intercepted flows will be conveyed to a centralized treatment facility. A portion of the advanced treated water will be used for non-potable irrigation of City parks and to create wetlands along the river corridor. In addition to water quality improvement, the project incorporates educational features of its benefits.

The facility is an untraditional solution to water quality treatment, representing a creative and innovative regional approach, which has the financial backing of Caltrans and the San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy (RMC). This solution applies multiple strategies to address many important and critical watershed objectives/issues, including stormwater water quality and water resource management.

By intercepting, diverting, and treating the dry weather urban runoff and the first flush of rainwater runoff, the new facility will reduce and/or eliminate pollution that would otherwise discharge into the Los Angeles River and spread into beaches and ocean waters. The facility's recycled water byproduct will help create and sustain wetlands riparian habitat and replace potable water for the irrigation of parks.



Key Elements

- A new conveyance system: a new forced-main will convey urban runoff from stormwater collection sumps to the treatment facility with new pumps connected to the new pipeline for flow diversion.
- A new advanced treatment facility using ceramic ultrafiltration membranes for solids and metal removals, manganese filters for polishing, and advanced oxidation for organic compounds/disinfection. It will be LEED (Silver) and ENVISION certified and provide reclaimed water for nearby park irrigation.
- New wetlands to create both riparian habitats and additional public park space for the community. Reclaimed water from the treatment facility will be used to fill and sustain the water level in the new wetlands.

Team Members

- Roger Chung, PE, CFM, QSD/P, F. ASCE—Stantec
- Ed Othmer, PE, CPESC, CPSWQ, QSP/D ToR, QISP ToR, ENV SP, PMP—Stantec
- Steve Cook, RLA—Stantec
- Greg Sebourm, PLS—Stantec

Project Dates

2018-Ongoing

Reference

Lincoln Lo, PE, LEED AP, ENV-SP, QSD
Assistant City Engineer
Public Works, Engineering Bureau
411 W. Ocean Blvd, 5th Floor, Long Beach, CA 90802
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E: lincoln.lo@longbeach.gov

Recycled Water/Stormwater Harvesting Feasibility Study Port of Long Beach, CA

At the ever-growing business hub, the Port adopted the Green Port Policy aimed at implementing environmentally sustainable port operations. The Green Port Policy employs guiding principles for the Port's environmental protection efforts. One of its key initiatives is to reduce potable water demand. The recycled water feasibility study included identifying and evaluating alternative sources of recycled water that could be available to supply the Port customers, evaluating the feasibility of constructing a wastewater treatment plant to be owned and operated by the Port as well as identifying potential recycled water customers, identifying acceptable recycled water uses and preparing an engineer's estimate of probable construction costs for the various identified alternatives.

As a separate task, the stormwater harvesting study was performed to evaluate opportunities for stormwater harvesting and reuse. The stormwater harvesting and reuse feasibility study identified infrastructure requirements and costs to capture and reuse all stormwater originating from the Harbor District. The study also evaluated construction and operational impacts on port terminals, and feasibility and costs of diversions from Port stormwater infrastructure to the sanitary sewer. Stantec developed an engineer's estimate of probable construction costs for the various identified alternatives and conducted a triple bottom line benefit cost analysis to prioritize the different opportunities.



Key Elements

- The possible end uses for recycled stormwater were evaluate and quantified, in addition to evaluating the monetary value of harvested stormwater and determine if it could be sold to end users in the Harbor District or water purveyors, or diverted to the planned City of Long Beach Municipal Urban Stormwater Treatment facility.

Team Members

- Roger Chung, PE, CFM, QSD/P, F. ASCE—Stantec
- Ed Othmer, PE, CPESC, CPSWQ, QSP/D ToR, QISP ToR, ENV SP, PMP—Stantec
- Rupeet Malhotra, PE, QSD, QISP, LEED AP—Stantec

Project Dates

2019-Ongoing

Reference

Dylan Porter
Environmental Planning
Port of Long Beach
415 W Ocean Blvd., Long Beach, CA 90802
T: 562-283-7118
E: dylan.porter@polb.com

East San Gabriel Valley Watershed Management Plan and Coordinated Integrated Monitoring Program (CIMP)

East San Gabriel Valley Watershed Management Group, CA

Stantec is currently implementing the CIMP for the Group which is comprised of the Cities of Pomona, Claremont, San Dimas, and La Verne. The CIMP evaluates impacts from MS4 discharges and provides decision support for actions to improve water quality and comply with the MS4 Permit.

Three years of CIMP implementation have yielded information critical to establishing a regional BMP program and adaptive management, including the planning, permitting, and installation of six permanent sample stations. Permit compliance is determined on a yearly basis. Additionally, Stantec developed and is implementing a process to identify and prioritize multi-benefit regional stormwater capture opportunities (LID projects).

Stantec will perform the reasonable assurance analysis (RAA) to determine the volume of stormwater needed to be captured/treated within each subwatershed in each jurisdiction to achieve zinc, E coli, and nitrogen load reduction goals (as it is assumed that zinc, E.coli, and nitrogen are the limiting pollutants in the watershed). Once the volume capture requirement is established, Stantec will establish shortfalls for compliance with stormwater capture goals (i.e., subwatersheds with not enough or no planned projects).

The RAA is the compliance mechanism to meet the Water Quality-Based Effluent Limits (WQBELs) and Receiving Water Limitations (RWLs) provisions of the MS4 Permit. Stantec will update the RAA applying the Watershed Management Modeling System (WMMS) developed by the County of Los Angeles. Cost-benefit analysis for the prioritized projects will be also conducted. As a final deliverable, Stantec will develop the Watershed Management Plan for the ESGV.



Key Elements

- Updating the WMMS model by meteorological data (85%-24-hr Design Storm)
- Updating land use information
- Updating impervious area information
- Updating the jurisdiction-based load reduction goals
- Recalibrating model based upon observed CIMP data (2015-2019)
- Inputting identified regional BMPs

Team Members

- Ed Othmer, PE, CPESC, CPSWQ, QSP/D ToR, QISP ToR, ENV SP, PMP—Stantec
- Rupeet Malhotra, PE, QSD, QISP, LEED AP—Stantec

Project Dates

2018-Ongoing

Reference

Julie Carver
Environmental Compliance Supervisor
Water Resources Department
T: 909-620-3628
E: julie_carver@ci.pomona.ca.us

Lower San Diego Creek Tributary Urban Runoff Diversion Alternative Feasibility Study Irvine, CA

The Irvine Ranch Water District (IRWD) began treating urban runoff in 1997 by constructing wetlands at the San Joaquin Marsh and Wildlife Sanctuary in Irvine located adjacent to Riparian View between Michelson Drive and Campus Drive. A large portion of urban runoff from San Diego Creek, Orange County Flood Control District (OCFCD), Facility No. F05, is diverted/pumped into a system of man made ponds or wetland detention facilities where it is detained/ treated between 10-20 days then the “polished” or treated water is diverted back into San Diego Creek for discharge into the Newport Bay estuary system. Bacteria, Nitrogen, Phosphorus and other pollutants are removed from the urban runoff by flowing through the wetlands and interacting with the plants, soils, and exposure to ultraviolet radiation/ sunlight.

Between 2015 and 2017, IRWD in partnership with City of Irvine, City of Tustin, Caltrans, County of Orange, and OCFCD constructed the Peters Canyon Channel Water Capture and Reuse Pipeline project. This project diverted dry-weather, urban runoff, and groundwater flows from the tributaries to a new urban runoff diversion pipeline facility to an Orange County Sanitary District (OCSD) sewer main line.

The Peters Canyon Channel water Capture and Reuse Pipeline project created a need for additional dry-weather flows to feed the San Joaquin Marsh wetlands. Coupled with the desire to reduce pollution from San Diego Creek and the Newport Bay Estuary system, IRWD identified three tributaries within the lower San Diego Creek watershed for study to determine the feasibility of diverting their dry-weather flows to the San Joaquin Marsh. The three tributaries were identified as: Bonita Canyon Creek, UCI Storm Drain and San Canyon Channel.

Stantec reviewed the constituent and flow rate data for the three tributaries and determined that the tributary dry-weather flows could be introduced without significant consequence to the Marsh 's health and function. Furthermore, given the high concentration of some constituents, Stantec concluded that dilution with existing Marsh inflow and treatment within the San Joaquin Marsh itself would result in an enhancement of water quality in reaches of San Diego Creek located downstream of the Marsh.



Stantec performed feasibility assessment and alternative analyses for all the three tributaries streams to construct diversion pipelines to intercept and capture the dry-weather flows prior to discharge into the San Diego Creek and convey to the San Joaquin Marsh. The assessment included location and type of diversion structures, types and alignment of the conveyances, preliminary engineers opinion of probable construction cost and alternatives ranking.

Key Elements

- Review water quality sampling data
- Review of the constituents from each tributary system
- Assess feasibility meeting water quality objective
- Develop conceptual diversion locations
- Develop conceptual diversion conveyances alternatives
- Evaluate and ranking the alternatives
- Prepare preliminary cost estimate

Team Members

- Roger Chung, PE, CFM, QSD/P, F. ASCE—Stantec
- Phil Jones PE, QSD/P—Stantec
- Dan Hayes, PE—Stantec

Project Dates

2017-2019

Reference

Ian Swift
Natural Resources Manager
Irvine Ranch Water District
3512 Michelson Drive Irvine, CA 92612
T: 949-453-5864
E: Swift@irwd.com

Natural Treatment System Basin Designs—33 Sites Orange County, CA

Stantec has designed and supported construction of 33 Natural Treatment System (NTS) basins within the San Diego Creek watershed, the primary tributary to Upper Newport Back Bay and the Pacific Ocean. The NTS program is a public private partnership between Irvine Ranch Water District (IRWD) and the Irvine Community Development Company to provide a master planned regional water quality solution to improve the environment in the Upper Newport Back Bay, a high priority impaired water body with the Santa Ana Regional Water Quality Control Board. The scope of the NTS basin work ranges from small offline basins supporting a local drainage area, to large in-line basins located within regional flood control channels and retarding basins. Our experience spans IRWD's entire NTS basin network and history of the NTS program between the Irvine Community Development Company (ICDC).

Our involvement with the NTS program began with designing the San Joaquin Marsh wetlands, where we refined and perfected treatment processes in a one of a kind regional water quality treatment facility. We also established the first NTS basins within the Quail Hill and Turtle Ridge planning areas, developing flow control structure details and the first Operations and Maintenance (O&M) Manuals. As the program evolved and became more complex with the development of more planning areas, our methodologies did too. Stantec helped specify equipment and develop details for automated water quality monitoring equipment and flow monitoring sensors. This improved data collection contributed to a better understanding of each basin's effectiveness within the NTS basin network.



Key Elements

- Our team has been involved in all stages of the development process, from early concept design to tentative mapping entitlement. Services included preparation of construction-level plan, specification, and estimates (PS&Es) and O&Ms, processing of approvals through various public agencies, and construction support.

Team Members

- Roger Chung, PE, CFM, QSD/P, F. ASCE—Stantec
- Phil Jones, PE, QSD/P—Stantec
- Greg Sebourm, PLS—Stantec
- Dan Hayes, PE—Stantec

Project Dates

2003-2017

Reference

Ian Swift
Natural Resources Manager
Irvine Ranch Water District
3512 Michelson Drive Irvine, CA 92612
T: 949-453-5864
E: Swift@irwd.com

F REFERENCES

Satisfied clients are the strongest testament to a well-managed project. We encourage you to reach out to the contacts listed below as part of your selection process.

CLIENT REFERENCE	PROJECT NAME	YEAR COMPLETED
Public Works, Engineering Bureau Lincoln Lo, PE, LEED AP, ENV-SP, QSD Assistant City Engineer T: 562-570-6695 E: lincoln.lo@longbeach.gov	Long Beach Municipal Urban Stormwater Treatment	Ongoing
Port of Long Beach Dylan Porter Environmental Planning T: 562-283-7118 E: dylan.porter@polb.com	Recycled Water/Stormwater Harvesting Feasibility Study	Ongoing
Water Resources Department Julie Carver Environmental Compliance Supervisor T: 909-620-3628 E: julie_carver@ci.pomona.ca.us	East San Gabriel Valley Watershed Management Plan and Coordinated Integrated Monitoring Program (CIMP)	Ongoing
Irvine Ranch Water District Ian Swift Natural Resources Manager 3512 Michelson Drive Irvine, CA 92612 T: 949-453-5864 E: Swift@irwd.com	Lower San Diego Creek Tributary Urban Runoff Diversions Alternative Feasibility Study	2019
Irvine Ranch Water District Ian Swift Natural Resources Manager 3512 Michelson Drive Irvine, CA 92612 T: 949-453-5864 E: Swift@irwd.com	Campus Drive/Bristol Street Intersection Improvement	2017



"Stantec's team has an extensive amount of experience and leadership necessary to perform engineering services on public work projects of any size and magnitude...Their highly-qualified staff has consistently demonstrated the ability to work well with integrating multiple disciplines, jurisdictions, and resource agencies necessary in completing a project."

—Richard Schlesinger, PE;
City Engineer, City of Mission Viejo

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SCOPE OF SERVICES

The following summarizes the anticipated services needed for the stormwater design project described in Attachment 1—Scope of Work of the RFP:

1—Project Planning/Feasibility Studies

1.1 Utility Research and Data Collection

We will collect the necessary information to complete the design, including location of all known utilities, and incorporate the information on the plans. A data collection tracking log will be kept to track the data collected and requested.

We will request from the City the existing records, documents, and as-built plans for the City's facilities and improvements such as for street, water, sewer, and storm drain facilities. For the other utilities in the area or additional areas that may require utility requests, we will identify these utilities in these areas and make the additional requests as necessary and identified by DigAlert.

We will review all the utility records collected and assess if any other research or communication is required to get all the data necessary for their design.

1.2 Survey and Mapping

Survey and mapping will be performed and prepared in accordance with the City's standards. These tasks will include:

- **Existing right-of-way and base mapping:** Monuments will be observed to retrace the centerlines and rights-of-way within the project limits. The results will be incorporated into a base map illustrating the existing right-of-way conditions.
- **Aerial topography:** Current aerial topography and existing planimetric data will be obtained. The photography will be flown for use at a scale of 1-inch = 20 feet, with contours compiled at one-foot intervals. Spot elevations and existing site features identifiable from the photography will be compiled, and color digital ortho-photo will be prepared.
- **Supplemental field topography:** Conventional ground survey will supplement the aerial effort to spot verify the

aerial topography and obtain additional detail in connection points. This data will be used in conjunction with the aerial mapping to create a single topographic map to be used as a basis for design.

1.3 Flow Monitoring

Stantec's flow monitoring subconsultant will perform any required flow monitoring services. These services would typically capture flow data for one week, two weeks or four weeks.

1.4 Geotechnical Investigations

Geotechnical investigations are proposed to be performed at the project's preliminary design phase so the appropriate determinations can be made based on the existing conditions of the project area related to the gravity pipe alignment, as well as for the BMP effort.

We will coordinate with the City prior to field borings performed to obtain an agreement as to the locations and alignment to be assumed.

Ninyo & Moore will provide soil borings for the selected project alignment. Boring depths will be at least 3 feet deeper than the lowest required invert unless otherwise specified. The geotechnical report will contain soil classification, in-place density, relative compaction, sand equivalent, depth to groundwater (if any), soil stability related to trench excavation, and pavement section thickness. The soils report will be reviewed and approved by a registered geotechnical engineer.

1.5 Alternatives Analysis

We will perform an alternatives analysis for the proposed gravity pipeline. It is assumed that up to three alternatives will be investigated related to the alignment of the proposed gravity pipeline.

With the alignments analyzed, trenchless construction methods will be considered, such as pipe bursting, jack and bore, and other trenchless methods. These methods may only apply where the gravity pipe is to be straight between manholes.

A matrix will be prepared that evaluates the different alternatives, and provides a ranking to help determine the selected solution. Criteria used for the evaluation matrix will

be coordinated with the City, but is anticipated to include criteria such as ease of construction, traffic impacts, duration, day or night time requirements, bypass pumping requirements, and construction costs.

Alternatives analysis workshop will be held to discuss the evaluation matrix and proposed recommendations. A PowerPoint presentation will be prepared that shows each alternative, the pros and cons for each, and estimated project costs.

We will obtain input from the City in this manner so as to recommend the appropriate project. Prior to finalizing the recommendation, we will obtain the geotechnical investigation report, potholing data, and all utility data to determine feasibility of the proposed recommendation.

1.6 Subsurface Utility Engineering Services

As part of the preliminary alignment and alternatives analysis, some potholing may be preferred to take place during the preliminary design phase of the project. Stantec's subsurface utilities subconsultant will perform the subsurface utility engineering services for all known utilities crossings and potential conflict areas with other projects. Potholing will locate active and abandoned utilities within the project site. Potholes will also identify the existing pavement section (thickness of asphalt concrete, Portland cement concrete, asphalt base, native, etc.).

1.7 Identify Permits and Stakeholder Coordination

We will identify and coordinate utility work with the City and all impacted agencies prior to developing the final alignment for the selected sanitary sewer improvements. We will identify the all impacted stakeholders in relation to construction of the proposed project, scheduling, costs, and permits necessary for any reconstruction/relocation of existing utilities and/or permits.

1.8 Prepare Preliminary Design Report

We will prepare a preliminary design report for the City's review and comment. The report will contain the necessary information to establish the project to be designed and constructed. The final design will be based on the conclusions and recommendations in the preliminary design report.

2—Environmental Documentation/Permitting

2.1 Initial Study

Stantec will prepare an Initial Study (IS) that complies with the California Environmental Quality Act (CEQA) Guidelines and conforms to established thresholds for determining significant effects. It is assumed that Appendix G of the CEQA Guidelines will be used as the format for the IS. Stantec will prepare an IS that will provide a clear understanding of the potential effects of the project. An analysis of impacts that could occur as a result of project implementation will be presented for each resource area. Impacts will be assessed and described, and significance of impacts will be measured against criteria that have been established by regulation, accepted standards, or other definable criteria.

In performing the environmental analysis, Stantec will rely on professional judgment and review of existing documentation, as well as the proposed technical studies included as part of this scope of work.

The anticipated technical studies are:

- Air Quality
- Noise Study
- Traffic
- Drainage and Water Quality
- Biological Resources Survey/Assessment and Report
- Jurisdictional Wetlands/Waters Delineation and Report
- Others as determined

2.2 CEQA Documents

Based on the Initial Study (IS) and as determined by the City, Stantec will either prepare a Negative Declaration (ND) or a Mitigated Negative Declaration (MND). If mitigation is required, Stantec will include mitigation measures to reduce potentially significant impacts to less than significant to the degree feasible. In the event that federal funds and/or permits are required and therefore, NEPA compliance, we will advise the City.

2.3 Mitigation Monitoring and Reporting Plan

If mitigation is required, Stantec will prepare a Mitigation Monitoring and Reporting Plan (MMRP). The MMRP will include a tabular summary of mitigation measures, required timing, responsible party, and verification methodology.

2.4 Environmental Phase 1 ISA

A Phase I Initial Site Assessment (Phase I ISA) will be conducted to identify potential recognized environmental concerns (RECs) associated with the project in general accordance with the American Society for Testing and Materials (ASTM) Standard E1527-13 and the USEPA All Appropriate Inquiry Rule (40 CFR § 312), as well as those specified in Exhibit C of the City's Request for Proposal No. G1-19-1496. The Phase I ISA will include interviews, file review and research, field reconnaissance, and report preparation.

2.5 Notice of Intent

Stantec will prepare a Notice of Intent (NOI) that the City plans to adopt the CEQA document. The notice shall include a project description, location, proponent, date of publication, public review period, and where the document can be located for review. Stantec will prepare and submit the NOI to the County Clerk. If the project requires approval by a state agency, Stantec will also submit the NOI to the State Clearinghouse.

2.6 Notice of Completion

Stantec will prepare a Notice of Completion (NOC) form using Appendix C of the CEQA Guidelines. Stantec will prepare and submit the NOC to the County Clerk. If the project requires approval by a state agency, Stantec will also submit the NOI to the State Clearinghouse.

2.7 Notice of Determination

Subsequent to adoption of the CEQA/NEPA document, Stantec will prepare and submit the Notice of Determination (NOD) to the County Clerk. If the project requires approval by a state agency, Stantec will also submit the NOD to the State Clearinghouse. The NOD must be submitted within five days of adoption.

2.8 Public Noticing

In addition to the noticing described in Tasks 2.5, 2.6, and 2.7, Stantec proposes to mail the NOI to adopt a the CEQA document to the last known name and address of all organizations and individuals who have previously requested such notice in writing and will coordinate publication one time in a newspaper of general circulation in the area affected by the project.

2.9 Permitting

In addition to the above CEQA and possible NEPA clearance requirements that may be needed. Stantec also provides the

services needed to coordinate with the jurisdictional agencies and prepare and process all necessary permits/agreement applications with the US Army Corp of Engineers for Section 401 and 404 permitting, California Fish and Wildlife Services for Section 1602 permitting, and discharge and encroachment permitting through OCSD and OCFCD or Caltrans respectively.

3—Project Design

3.1 50% Complete Plans, Specifications, and Estimates

The 50-percent submittal will include horizontal and vertical alignments with pertinent information to verify accuracy of design. The construction plans will be prepared for 24" x 36" size sheets, with the City's standard title block format; construction plans will include general notes, construction notes and details as necessary. Plan and Profile of proposed pipelines will not exceed 500 feet per sheet (with a scale of 1 inch=20 feet horizontal and 1 inch=4 feet vertical).

3.2 90% Complete Plans, Specifications, and Estimates

We will prepare 90%completed construction plans based on the review comments and preliminary design plans. The 90% construction plans will include the entire plan set, including the title sheet, general notes sheet, plan and profile sheets, and detail sheet(s). All of the necessary construction notes, details, and quantities will be shown on the 90% plans.

The final design will conform to all requirements of Federal, State, and Local codes, ordinances, and regulations, and carry out the concepts agreed upon in the Preliminary Engineering task.

Contract specifications in the City's format will also be prepared for the bid package. The specifications will include but not limited to any special provisions, technical specifications, and an itemized cost estimate of the proposed improvements.

For the 90-percent submittal, we will provide full-size sets and half-size sets of 90%complete plans, sets of specifications, and cost estimate for each bid package. We will provide one (1) soft copy of plans in AutoCAD and pdf formats; one (1) soft copy of specifications in Microsoft Word and pdf, and one (1) soft copy of cost estimate. We will provide one copy of bid schedule in Microsoft Excel and pdf formats.

3.3 100% Complete Plans, Specifications and Estimates

We will prepare 100% completed construction plans and specifications, and incorporate all review comments and permitting requirements into the design.

The City will provide special provision sections for review and updating. Front-end bid documents provided to the City's Public Works Department will also be part of the bid documents.

We will provide a copy of 100% complete plans in electronic format (i.e. PDF) for final review prior to printing. After the plans have been accepted for printing, we will provide full-size sets and half-size sets printed on regular paper, sets of final specifications, and cost estimate. We will provide one (1) soft copy of plans in AutoCAD and pdf formats; one (1) soft copy of specifications in Microsoft Word and pdf, and one (1) soft copy of cost estimate. We will provide one copy of bid schedule in Microsoft Excel and pdf formats.

4—Other Requirements

4.1 Grant Applications

Stantec has developed a robust process for preparing successful grant packages that is tailored to each application. Stantec will assist the City in identifying funding opportunity and at the City's request we can assign a lead grant writer with skills and experience tailored to the desired funding type. The lead grant writer will assemble a customized grant preparation team, with a focus on technical skills, relevant experience, and cost control. With our internal team assembled, Stantec will facilitate a kickoff meeting with the City. The objectives of the kickoff meeting are to:

- Introduce and integrate the Stantec/City project team and establish roles
- Discuss and define the project goals and scope of work to be completed with the funding
- Prepare a list of stakeholders that may include other government agencies, community groups, and technical experts
- Present and discuss a grant package outline and schedule

4.2 Construction Support

Because questions arise in the field during construction, we will act as the liaison to you from the beginning to the end of a project to make sure that the finished product is true to the design. We will assist the construction team in completing

the project according to the level of quality required. This is accomplished through our design team's responsiveness and cooperativeness in providing timely processing of submittals and answers to design questions, as well as performing any necessary investigations and field revisions.

4.3 Final Record Drawing

At project completion, the contractor will provide redlined plans that address any field adjustments that occurred during construction. We will prepare the final record drawings based on the construction redlines.

Appendix
ATTACHMENT 3-1: NON-COLLUSION AFFIDAVIT
CERTIFICATIONS

NON-COLLUSION AFFIDAVIT
(Title 23 United States Code Section 112 and
Public Contract Code Section 7106)

To the CITY OF SANTA ANA DEPARTMENT OF PUBLIC WORKS

In accordance with Title 23 United States Code Section 112 and Public Contract Code 7106 the BIDDER declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the BIDDER has not directly or indirectly induced or solicited any other BIDDER to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived or agreed with any BIDDER or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the BIDDER has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the BIDDER or any BIDDER, or to fix any overhead, profit, or cost element of the bid price, or of that of any other BIDDER, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the BIDDER has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Note: The above Non-collusion Affidavit is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Non-collusion Affidavit. BIDDERS are cautioned that making a false certification may subject the certifier to criminal prosecution.

Signed

Deeray W. [Signature]

State of California

County of _____

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 20____, by _____, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

see attached

Notary Public Signature

Notary Public Seal

CALIFORNIA JURAT WITH AFFIANT STATEMENT

GOVERNMENT CODE § 8202

- ☒ See Attached Document (Notary to cross out lines 1-6 below)
☐ See Statement Below (Lines 1-6 to be completed only by document signer[s], not Notary)

Signature of Document Signer No. 1

Signature of Document Signer No. 2 (if any)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Orange

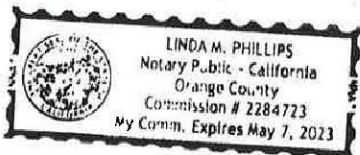
Subscribed and sworn to (or affirmed) before me
on this 31st day of July, 2020
by _____
Date Month Year

(1) Sherry Weinmacer

(and (2) _____),
Name(s) of Signer(s)

proved to me on the basis of satisfactory evidence
to be the person(s) who appeared before me.

Signature Linda M. Phillips
Signature of Notary Public



Seal
Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Non-Collusion Affidavit Document Date: _____
Number of Pages: 1 Signer(s) Other Than Named Above: none

Appendix
ATTACHMENT 3-1: NON-COLLUSION AFFIDAVIT
CERTIFICATIONS

NON-COLLUSION AFFIDAVIT
(Title 23 United States Code Section 112 and
Public Contract Code Section 7106)

To the CITY OF SANTA ANA DEPARTMENT OF PUBLIC WORKS

In accordance with Title 23 United States Code Section 112 and Public Contract Code 7106 the BIDDER declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the BIDDER has not directly or indirectly induced or solicited any other BIDDER to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived or agreed with any BIDDER or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the BIDDER has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the BIDDER or any BIDDER, or to fix any overhead, profit, or cost element of the bid price, or of that of any other BIDDER, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the BIDDER has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Note: The above Non-collusion Affidavit is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Non-collusion Affidavit. BIDDERS are cautioned that making a false certification may subject the certifier to criminal prosecution.

Signed *Samira Cauda*

State of California
County of Orange

Subscribed and sworn to (or affirmed) before me on this 06 day of August 2020, by _____, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

E. Conzeller
Notary Public Signature



Notary Public Seal

Appendix
ATTACHMENT 3-1: NON-COLLUSION AFFIDAVIT
CERTIFICATIONS

NON-COLLUSION AFFIDAVIT
 (Title 23 United States Code Section 112 and
 Public Contract Code Section 7106)

To the CITY OF SANTA ANA DEPARTMENT OF PUBLIC WORKS

In accordance with Title 23 United States Code Section 112 and Public Contract Code 7106 the BIDDER declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the BIDDER has not directly or indirectly induced or solicited any other BIDDER to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived or agreed with any BIDDER or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the BIDDER has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the BIDDER or any BIDDER, or to fix any overhead, profit, or cost element of the bid price, or of that of any other BIDDER, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the BIDDER has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Note: The above Non-collusion Affidavit is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Non-collusion Affidavit. BIDDERS are cautioned that making a false certification may subject the certifier to criminal prosecution.

Signed 

State of California
 County of _____

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 20____, by _____
 _____, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

**NOTARY CERTIFICATE
 ATTACHED**

 Notary Public Signature

 Notary Public Seal

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

CALIFORNIA JURAT

State of California)

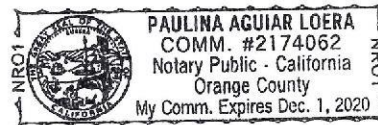
County of Orange)

Subscribed and sworn to (or affirmed) before me on this 10 day
of August, 20 20, by Paul Hamilton Rivers

proved to me on the basis of satisfactory evidence to be the person(s)
who appeared before me.

Signature

Paulina Aguiar Loera



(Seal)

OPTIONAL INFORMATION

Although the information in this section is not required by law, it could prevent fraudulent removal and reattachment of this jurat to an unauthorized document and may prove useful to persons relying on the attached document.

Description of Attached Document

This certificate is attached to a document titled/for the purpose of

Non-Collusion Affidavit.

containing _____ pages, and dated _____

Additional Information

Method of Affiant Identification

Proved to me on the basis of satisfactory evidence:
☐ form(s) of identification ☐ credible witness(es)

Notarial event is detailed in notary journal on:
Page # _____ Entry # _____

Notary contact: _____

Other

☐ Affiant(s) Thumbprint(s) ☐ Describe: _____

Appendix
ATTACHMENT 3-2: NON-LOBBYING CERTIFICATION
CERTIFICATIONS

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:


1. No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
2. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence any officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant loan, loan or cooperative agreement, the undersigned shall complete and submit a "Disclosure of Lobbying Activities".

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U. S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such sub recipients shall certify and disclose accordingly.

Firm Stantec Consulting Services Inc.

Signed and Printed Name: Sherry Weinmeier



Title Principal

Date August 12, 2020

Appendix
ATTACHMENT 3-2: NON-LOBBYING CERTIFICATION
CERTIFICATIONS

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

1. No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
2. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence any officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant loan, loan or cooperative agreement, the undersigned shall complete and submit a "Disclosure of Lobbying Activities".

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The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such sub recipients shall certify and disclose accordingly.

Firm Ninyo & Moore

Signed and Printed Name: Michael Putt, PG, CEG



Title Principal Geologist

Date August 6, 2020


Appendix
ATTACHMENT 3-2: NON-LOBBYING CERTIFICATION
CERTIFICATIONS

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

1. No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
2. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence any officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant loan, loan or cooperative agreement, the undersigned shall complete and submit a "Disclosure of Lobbying Activities".

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U. S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such sub recipients shall certify and disclose accordingly.

Firm Geospatial Professional Solutions Inc. (GPSI)
 Signed and Printed Name: Paul Hamilton-Rivers 
 Title Chief Operations Officer
 Date August 5, 2020

Appendix
ATTACHMENT 3-3: NON-DISCRIMINATION CERTIFICATION
CERTIFICATIONS


The undersigned consultant or corporate officer, during the performance of this contract, certifies as follows:

1. The Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The Consultant shall, in all solicitations or advertisements for employees placed by or on behalf of the Consultant, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. The Consultant shall send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Consultant's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Consultant shall comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
5. The Consultant shall furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his/her books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation, to ascertain compliance with such rules, regulations, and orders.
6. In the event of the Consultant's non-compliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, the contract may be canceled, terminated, or suspended in whole or in part and the Consultant may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulations, or order of the Secretary of Labor, or as otherwise provided by law.
7. The Consultant shall include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted

by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontract or purchase order as the administering agency may direct as means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in the event the Consultant becomes involved in, or is threatened with, litigation with a sub-consultant or vendor as a result of such direction by the administering agency, the Consultant may request that the United States enter into such litigation to protect the interests of the United States.

8. Pursuant to California Labor Code Section 1735, as added by Chapter 643 Stats. 1939, and as amended,

No discrimination shall be made in the employment of persons upon public works because of race, religious creed, color, national origin, ancestry, physical handicaps, mental condition, marital status, or sex of such persons, except as provided in Section 1420, and any consultant of public works violating this Section is subject to all the penalties imposed for a violation of the Chapter.

Signed: 
 Title: Principal
 Firm: Stantec Consulting Services Inc.
 Date: August 12, 2020

Appendix
ATTACHMENT 3-3: NON-DISCRIMINATION CERTIFICATION
CERTIFICATIONS

The undersigned consultant or corporate officer, during the performance of this contract, certifies as follows:

1. The Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The Consultant shall, in all solicitations or advertisements for employees placed by or on behalf of the Consultant, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. The Consultant shall send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Consultant's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Consultant shall comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
5. The Consultant shall furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his/her books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation, to ascertain compliance with such rules, regulations, and orders.
6. In the event of the Consultant's non-compliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, the contract may be canceled, terminated, or suspended in whole or in part and the Consultant may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulations, or order of the Secretary of Labor, or as otherwise provided by law.
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Signed:



Title:

Principal Geologist

Firm:

Ninyo & Moore

Date:

August 6, 2020

Appendix
ATTACHMENT 3-3: NON-DISCRIMINATION CERTIFICATION
CERTIFICATIONS

The undersigned consultant or corporate officer, during the performance of this contract, certifies as follows:

1. The Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
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3. The Consultant shall send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Consultant's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
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6. In the event of the Consultant's non-compliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, the contract may be canceled, terminated, or suspended in whole or in part and the Consultant may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulations, or order of the Secretary of Labor, or as otherwise provided by law.
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Signed:

Paul Hamilton-Rivers

Title:

Chief Operations Officer

Firm:

Geospatial Professional Solutions, Inc. (GPSI)

Date:

August 5, 2020



Roger Chung •

PE, QSD/P, CFM, F. ASCE

Project Manager / Project Design

Education

- BS, Environmental and Civil Engineering

Registrations/Certifications

- Professional Engineer #C65388, CA
- QSD/QSP #20600, CA
- Certified Floodplain Manager

Why select

- Proven PM—100s of successfully delivered projects, including 12+ task orders for 5 on-call contracts in the past 5 years
- Expansive concept-level through PS&E experience
- Successful local agency project experience, including with the City
- Proven record of quality and delivery

Roger has more than 21 years of civil engineering experience with expertise in hydrology, hydraulic and structural analysis for the preparation of drainage studies, drainage master plans and the preparation of design plans, specifications, and cost estimates for water supply and flood control facilities. He has been involved in the hydraulic analysis and design of numerous water recharge and flood control projects in San Bernardino, Riverside, Orange, Los Angeles, San Diego, Kern and Ventura Counties.

Fullerton Road Grade Separation*, Industry, CA, (Task Manager)

Roger managed a task for the preparation of plans, reports and supporting technical studies for the storm drain and water quality portions of this \$140 million grade separation project that will lower Fullerton Road under the existing Union Pacific Railroad tracks in the City of Industry, and unincorporated area of Los Angeles County, between Rowland Street and State Route 60. Plans call for constructing a six-lane roadway underpass on Fullerton Road with retaining walls and a new railroad bridge.

Tustin Avenue and Rose Drive Grade Separation Project*, Orange County, CA (Drainage Task Manager)

Roger managed a drainage task for the preparation plans, reports and supporting technical studies for the storm drain and water quality portions of OCTA's Tustin Avenue Grade Separation project. Services included the completion of the plans for a 65% level submittal, a draft 100% level submittal, and a final 100% level submittal; incorporation of the Tustin/Rose Grade Separation Quality Management System Manual (QMS Manual) procedures, and the incorporation of OCTA's comments at 65% and draft 100% level submittals; and processing of the plans and their supporting studies with the Orange County Flood Control District (OCFCD) for the portion of the Project that would impact the existing Atwood Channel that is owned by OCFCD.

San Diego International Airport - Rental Car Center (RCC) Bus Parking Storage Facility (CIP# 104181)*, San Diego, CA (Drainage/Water Quality Task Manager)

Roger was the drainage/water quality task manager for the design of the RCC Bus Parking Facility and Rental Car Overflow Parking. The project provided a vehicle storage parking lot and a 4,600 SF Driver Break Building which will be shared with the Taxi Hold/Shuttle Van Lot. The project required roadway and parking lot improvements, installation of gates and card readers at the parking lot entrance and exit architectural/structural design for the building, utilities, parking lot lighting, and landscaping and irrigation. The project also included obtaining a building permit from the City of San Diego.

** Denotes projects completed with other firms*

San Diego International Airport – San Park 2, Pacific Highway North (CIP 104146)*, San Diego, CA (Drainage/Water Quality Task Manager)

Roger managed the final PS&E for approximately 2,050 additional spaces located at the south easterly corner of Pacific Highway and Washington Street. This project provides a long-term parking facility to replace existing parking areas that will be impacted by the development of the future CONRAC and FBO sites on the North Side. The proposed project consisted of site grading, paving, parking striping, storm drain, and underground detention facilities to control storm runoffs and water quality.

San Diego International Airport - South Side Site Protection (CIP 104126)*, San Diego, CA (Drainage/Water Quality Task Manager)

Roger managed the drainage/water quality task orders for the interim improvements to the approximately 40-acre Teledyne Ryan Site. The project scope includes design of a storm drain system that strategically routed project developed flows to several different storm drain connections with limited capacity to accept additional flow. The storm drain design also included installation of two different types of Best Management Practices (BMPs) for the site improvements as required by the SUSMP for the overall SDRAA project area. A low flow Low-Impact-Design (LID) infiltration BMP was designed within sump areas designed within the parking lot. The LID infiltration BMPs used porous pavement and a rock gallery to infiltrate first flush runoff to the maximum extent possible. The second BMP incorporated into the project was a high flow off line filtration BMP designed for installation just upstream of the project's storm drain connection points to the existing storm drain system in Harbor Drive. The combination of these two BMP systems mitigated stormwater flow generated from impervious AC pavement surfaces created by the project development.

San Diego International Airport – North Side Interior Roadway and Utilities (CIP 104118)*, San Diego, CA (Drainage/Water Quality Task Manager)

Roger managed the preliminary, final PS&E and construction support for an interior roadway (Admiral Bolan Way) which extends between the existing Pacific Coast Highway/ Sassafras intersection and the extension of Washington Street. This roadway houses the utilities that serve the entire north side development, including sewer, water, natural gas, electrical, telecommunications, and storm drain. The project included a lift station system to pump the sewage to the City sewer main. Uses of this roadway system include FBO/GA, cargo businesses, centralized shipping and distribution, San Park 2 parking facility, and CONRAC.

El Modena Park - Natural Treatment System, Phase 2*, Orange, CA (Project Manager)

Roger was responsible for preliminary improvement plans and construction drawings for modifications to two existing detention basins in the County of Orange to provide for the interception of dry-weather flows. Intercepted flows were routed to the modified basins for water quality improvements through natural treatment systems. Services included performing dry-weather flow hydrology calculations for watershed tributary to proposed improvements, hydraulic analyses leading to the design of required project infrastructure, preparation of improvement plans and specifications for project improvements, and providing bid and engineering support services during construction.

South La Senda Low-Flow Diversion Project*, Laguna Beach, CA (Project Manager)

Roger was responsible for the engineering design and construction support services for a water quality diversion facility. The completed facility intercepts nuisance flows from storm drain lines that would otherwise discharge to the beach and continue to the Pacific Ocean. Nuisance flows are intercepted in a sub-surface vault and an automated sump pump evacuates accumulated flows to the local sewer system. The hydraulic and structural design of the facility, which consisted of a 15-foot-deep reinforced concrete sub-surface vault, a 48-inch-diameter reservoir pipe, a sump pump housing structure, pump controls, and a forcemain sewer discharge line were performed. Upon the completion of the design, construction documents required for the public bid process and upon commencement of construction activities were prepared and construction support services including approval of shop drawings, construction observations, and the preparation of As-Built plans were provided.

Rancho Mission Viejo's Ranch Plan Planned Community Hydrology and Hydraulic Check Services*

Roger provided plan checking services for OC Public Works related to the development of the Rancho Mission Viejo's Ranch Plan Planned Community, an 8-square-mile development within the greater 176-square-mile San Juan Creek watershed. Plan checking services included the review of hydrology studies for four of the five proposed development planning areas for conformance with the Orange County Hydrology Manual and its addenda. The firm checked assumptions, hydrologic parameter derivations, rational method analyses, and unit hydrograph method analyses. The firm also reviewed hydraulic calculations performed in support of proposed master plan facilities, and proposed flood control detention basins.

** Denotes projects completed with other firms*



Ed Othmer

PE, CPESC, CPSWQ, QSP/D ToR, QISP ToR,
ENV SP, PMP

Technical Advisor QA/QC /Grant

Education

- MS and BS, Civil Engineering

Registrations/Certifications

- Registered Civil Engineer #57536, CA
- Certified Professional in Erosion and Sediment Control #2776
- CPSWQ@ #103
- QSD/QSP #00060
- ENV SP #22220
- QISP #00089

Why select

- Extensive stormwater management knowledge
- Expert in local and regional water quality design guideline and criteria
- Leading multiple regional stormwater management projects

Our California stormwater sector lead, Ed has more than 25 years of engineering experience and is a licensed California Professional Engineer, a Certified Professional in Stormwater Quality, Qualified SWPPP Practitioner and Developer, and a Qualified Industrial Stormwater Practitioner. He has served as Principal-in-Charge and Project Manager on innumerable stormwater projects across the United States which have involved the development of NPDES stormwater pollution prevention and monitoring programs, preparation of erosion and sediment control guidelines, stormwater research and pilot studies, NPDES illicit storm drain connection programs, spill prevention studies, control and countermeasures planning, and industrial stormwater pollution prevention programs. Throughout his career, Ed has managed projects for federal, state, local, and private sector clients. He also serves on the Executive Committee and as the Water Committee Co-Chair of the Industrial Environmental Association.

Port of Long Beach, Recycled Water/Stormwater Harvesting Feasibility Study, Port of Long Beach, CA

Protection of water quality and conservation of potable water supplies are top priorities of the Port of Long Beach and of the Green Port Policy. As project manager, Ed is leading a team that is conducting a special study focused on opportunities for the use of recycled water at the Port and opportunities for stormwater harvesting and reuse. This planning level special study includes:

Water recycling to:

- Inventory existing reclaimed water lines installed within the Harbor District
- Assess additional infrastructure needs and costs required to use existing recycled water lines
- Assess possible sources of reclaimed water, such as local publicly owned treatment works (POTWs)
- Evaluate feasibility and costs assessment of a Port owned and operated POTW
- Identify possible end uses within the Port (toilets, irrigation, industrial water users, truck/equipment wash racks, cooling towers, well injection, dust control) and quantification of demand
- Assess infrastructure needs and cost to expand the existing system to meet demand

** Denotes projects completed with other firms*

Stormwater harvesting and reuse to:

- Identify infrastructure requirements and costs to capture and reuse all stormwater originating from the Harbor District
- Evaluate construction and operational impacts on port terminals
- Assess and quantify the possible end uses for recycled stormwater
- Evaluate potential cost savings associated with deferred regulatory compliance costs
- Consider the monetary value of harvested stormwater and determine if it could be sold to end users in the Harbor District or water purveyors
- Assess the feasibility and costs of diversions from Port stormwater infrastructure to sanitary sewer
- Evaluate opportunities to divert Port of Long Beach stormwater to the planned City of Long Beach Municipal Urban Stormwater Treatment facility for treatment and potential reuse
- Conduct a triple bottom line benefit cost analysis to prioritize the different opportunities

Long Beach Municipal Urban Stormwater Treatment, City of Long Beach, CA

As project manager, Ed is leading a team that is designing a facility that will treat urban runoff first-flush wet weather flow before it enters the LA River. The LB-MUST facility will meet the City's National Pollutant Discharge Elimination System (NPDES) permit water quality standards as well as total maximum daily loads (TMDLs). In addition to water quality improvement, the Project incorporates educational features to inform the public of the Project benefits.

The project intercepts, diverts, and treats dry weather urban runoff (fresh and brackish water) and first flush of stormwater runoff from 15 pump stations. The LB-MUST facility includes the following state-of-the-art equipment: 1) Purifics' Ceramic Ultrafiltration (CUF), which is a robust silicon carbide Ceramic Membrane Process; and 2) Photo-Cat, which is a photo-catalytic oxidation and reduction process. Additionally, a brackish wetland (LID feature) will be constructed for water quality polishing and as a community park. Treated fresh water will help create and sustain the proposed wetlands riparian habitat as well as provide an alternative water source for other nearby parks and the Civic Center.

East San Gabriel Valley Watershed Management Group CIMP and WMP Implementation, San Gabriel Valley, CA

Ed is managing the implementation of the East San Gabriel Valley Watershed Management Group (Group) CIMP, which evaluates impacts from MS4 discharges and provides decision support for actions to improve water quality and enable the Group to comply with the MS4 Permit. Ed conducted a study to identify regional opportunities for stormwater capture and infiltration to achieve NPDES Permit requirements and to augment groundwater supplies. A multi-step process was applied to identify stormwater capture opportunities within the East San Gabriel Valley (ESGV) Watershed. Key factors considered in the multi-step process included land use, jurisdictional areas, topography, hydrologic soil group, nearby wells, existing recycled water conveyances, storm drain systems, etc. The study identified preferred sites for each City, within each of the HUC-12 watersheds, as well as within each of the water district's jurisdiction.

Ed also developed a concept for a regional stormwater capture facility, which will be located at the Palm Lakes Golf Course. The facility was sized to capture the 85th percentile, 24-hour storm event from the 158-acre watershed. The stormwater capture facility consisted of a pre-treatment system, drywells, surface infiltration basin, and belowground infiltration basin.

City of San Diego, Stormwater Engineering and Consulting Services*, San Diego, CA

Ed led the team to deliver the following scope of work: 1) Task Management and Administration, 2) Best Management Practices Development and Engineering, 3) Stormwater Infrastructure Asset Management Services, 4) Environmental Assessment and Permitting Services, 5) Stormwater Monitoring and Investigations, 6) Strategic Planning, and 7) Program Assessment Services.

El Dorado County Water Agency Stormwater Resource Plan Development

Ed served as a technical advisor for the development of the Stormwater Resources Plan (SWRP) for West Slope portion of El Dorado County. The SWRP was developed for the El Dorado County Water Agency (Agency) in collaboration with the County of El Dorado (County) and the City of Placerville (City). Due to the foothill setting, the West Slope SWRP has a broader scope to cover the intended watershed planning including three main components: surface water storage, (headwater) watershed management, and stormwater management.

** Denotes projects completed with other firms*



Phil Jones

PE, QSD/P

Project Planning/Feasibility Studies

Education

- MS and BS, Civil Engineering

Registrations/Certifications

- Professional Engineer #C44010, CA
- QSD/QSP, Certification #20073

Why select

- Extensive knowledge of Orange County regional flood control facilities and watersheds
- In depth understanding of Santa Ana Region water quality management plan criteria and OC Technical Guidance Document
- Recent City project experience and deep understanding of local needs.

Phil has over 34 years of experience managing engineering design, maintenance, and construction administration services for various public works projects, including flood control facilities, roadways, bridges, and bicycle and pedestrian pathways. For more than 30 years, Phil served within the County of Orange, OC Public Works Department (OCPW) in the Design, Construction, and Operations & Maintenance Divisions, on behalf of the County of Orange and the Orange County Flood Control District (OCFCD), with the mission of protecting Orange County areas from the threat and damage of flooding. Phil played an integral role, most notably as the Manager of the Design Division and Manager of the General Maintenance Division, updating the County's road, bridge, and regional flood control infrastructure. At Stantec, Phil continues to provide flood control infrastructure engineering, working closely with Stantec's Community Development and Water Resources teams to deliver floodplain hydraulic analysis, water quality management plans, hydrology and drainage studies, and preparation of technical specifications.

Throughout his career, Phil has successfully delivered large flood control and water resources projects ranging up to \$40+ million in the Fountain Valley, Talbert and Huntington Beach Channel systems, sections of East Garden Grove-Wintersburg Channel, Carbon Creek, Fullerton Creek, and San Juan and Trabuco Creeks.

Pomona Rincon Transfer Station, Chino Hills, CA

Phil prepared a water quality management plan for the proposed Pomona Rincon Transfer Station. The site will be located on a 1.4-acre strip of land adjacent to the Pomona Rincon Sewer Lift Station and will be used to temporarily store excavated dirt, green waste removed from park and landscape areas, and concrete from work performed by city crews and contractors.

Carbon Canyon Park - Hydraulic Feasibility Study, Brea, CA

Phil prepared a preliminary design report and provided a drainage alternatives analysis for the Westside Drainage System, as part of the hydraulic feasibility study at Carbon Canyon Regional Park in Brea, California. The project developed alternatives for flood prevention and conveyance of stormwater flows.

Northwest Community Open Space Park, San Juan Capistrano, CA

Phil prepared a water quality management plan and hydrology

** Denotes projects completed with other firms*

report for a proposed 3.6-acre park in San Juan Capistrano, California. The new park will include a cultural area, multi-use trail, and various artwork and amenities. Stantec provided surveying and engineering services, including grading, utilities, drainage, and traffic plans as a subcontractor to landscape architecture firm NUVIS.

East Garden Grove-Wintersburg Channel and Fullerton Creek Channel, Orange County, CA

Phil provided HEC RAS floodplain analysis for the East Garden Grove- Wintersburg Channel and Fullerton Creek Channel, as part of Orange County Flood Control District's FEMA Hazard Mitigation Grant Application.

Carbon Creek Channel Facility Study Needs Assessment, Brea, CA

Phil prepared a study to establish the scope of work for a preliminary design report for the Carbon Creek Channel facility.

I-710 Corridor Improvement Project, Long Beach, CA

Phil reviewed and provided comments on hydrology and drainage issues for the proposed I-710 corridor improvement project, as part of the Environmental Impact Report assistance required by the City of Long Beach Environmental Planning Program. Stantec also reviewed and commented on water quality, active transportation, and community enhancement elements as a subcontractor to Michael Baker International.

Montalvo Canyon Drainage Study, San Clemente, CA

Phil provided HEC RAS analysis for proposed channel improvements near the outlet of Montalvo Creek at the Pacific Ocean. As a subcontractor to FluvialTech Inc., Stantec provided civil engineering services, including cost estimating; boundary survey; preparation of PS&Es for bank establishment and channel restoration; bid package; coordination and meetings; and engineering support during construction.

Planning Area 39, Phase 2B - Los Olivos, Irvine, CA

Phil provided drainage management services, including sediment yield, water quality design capture volume, and a hydrology report for a mixed-use community. The project is part of Stantec's construction support services for improvements to the tentative parcel map, street, and utility infrastructure.

Eland 1 Solar Farm (2018), California City, CA

Stantec provided peer review of archaeology and historical assessment to evaluate potential impacts on cultural resources at a solar farm in California City, California. Phil provided a preliminary hydrology and drainage study for an addendum to the final Environmental Impact Report.

2530 Arden Way, Sacramento, California

Phil provided HEC RAS floodplain analysis of Strong Ranch Slough as part of proposed improvements at 2530 Arden Way in Sacramento, California.

Laguna Audubon Retarding Basin Improvement (2018 – Ongoing), Laguna Beach, CA

Phil provided preparation of technical specifications and special provisions, as part of final engineering services for the Laguna Audubon Retarding Basin. The tributary watershed area is approximately 706 acres and lies within the cities of Laguna Beach, Laguna Woods, and Aliso Viejo. Stantec previously prepared a study to evaluate the basin's current performance for the 2-, 5-, 10-, 25-, and 100-year expected value storm events and determine if additional improvements to the basin could further enhance its effectiveness. The study recommended three alternatives in providing the basin with the prescribed 2-feet of freeboard above the Probable Maximum Flood (PMF) water surface. The client selected to construct a perimeter floodwall along the earthen basin crest and the extension of existing concrete outlet channel walls to be implemented.

Orange County Public Works Operations and Maintenance Division*, Orange County, CA

Phil managed the ongoing maintenance and operations of regional dams, pump stations, and water diversion facilities where he oversaw maintenance supervisors in charge of the County Worker and Court Referral Programs, fabricators and installers, welders, and carpenters in the Special Trades Section for County road signs.

Orange County Public Works Design Division*, Orange County, CA

Phil managed the engineers, project managers, design engineers, and engineering technicians/draftsmen employed in the OC Public Works Design Division. Division responsibilities included developing technical engineering studies and construction plans, specifications, estimates, and construction documents for regional and local infrastructure projects. During disasters and heavy storm activity, Phil led a team of storm patrol leaders and emergency workers.

** Denotes projects completed with other firms*



Rupeet Malhotra •

PE, QSD, LEED AP

Project Planning/Feasibility Studies

Education

- MS and BS, Civil Engineering

Registrations/Certifications

- Professional Engineer #78574, CA
- QSD #23276
- LEED AP Building Design + Construction #11267844

Why select

- Proven expertise in design and peer review of stormwater treatment measures and erosion and sediment control measures for NPDES permit compliance
- Expansive experience driving projects from concept/feasibility level through detailed design and PS&E
- Proven record of quality and delivery

Rupeet is a Civil & Water Resources Professional Engineer licensed in California with more than 15 years of progressive experience in floodplain management, stormwater management & design, project management, NPDES permit compliance, drainage design, SWPPP development, erosion & sediment control design, and scour countermeasures analysis and design. Rupeet has considerable experience in developing SWPPP documents for construction sites and industrial facilities pursuant to the requirements of the Construction General Permit and Industrial General Permit, respectively, and has been providing SWPPP development/review and BMP services to private and public sector clients in Northern California for over 10 years. Rupeet is also an experienced third-party reviewer of stormwater management plans for new development and redevelopment and has assisted Bay Area engineering firms and developer clients with the review of their SWMP designs to meet the San Francisco Bay Area MRP Provision C.3 requirements.

Fairgrounds Water Drainage Improvements Feasibility Study-Stormwater Resource Plan Implementation El Dorado County Water Management Agency, El Dorado County, CA

Rupeet is the lead engineer responsible for developing the feasibility study for use of stormwater as a resource at the El Dorado County Fairgrounds property. The project was identified in the El Dorado County Water Agency Stormwater Resource Plan and will alleviate localized flooding conditions and enable continued, reliable use of the fairgrounds.

Green Infrastructure On-Call Services – Educational Curriculum Development San Francisco Public Utilities Commission

As a long-term client, San Francisco Public Utilities Commission has tasked Stantec with the development of training curriculum for inspection and maintenance of green infrastructure BMPs owned and/or maintained by SFPUC. The training curriculum is being developed for construction, maintenance and inspection crew to provide green infrastructure O&M guidance. Rupeet's role is to provide oversight on the development of curriculum modules and advance the curriculum development.

Stormwater Management Memorandum; South County Regional Water Authority (SCRWA) New Maintenance Facility, Gilroy, CA

Rupeet was the senior engineer on the Stormwater Management Design for the SCRWA New Maintenance Facility Building. The

** Denotes projects completed with other firms*

project added 30,00 sf of impervious area and was required to meet the Central Coast Regional Water Quality Control Board's Performance Requirements for City of Gilroy. The requirements included LID design, stormwater retention and peak management to mitigate the impact of increased impervious area. Rupeet directed the development of hydrology and hydraulics to evaluate the impacts of the improvements.

Watershed Asset Management Plan Development Services Stormwater Engineering and Consulting Services, City of San Diego, San Diego, CA

The City's Stormwater Division adopted the asset management approach to manage its storm drainage assets which resulted in the development of the 2013 Watershed Asset Management Plan. Rupeet has led the task of advancing the program to WAMP 2.0 to incorporate updated asset inventory, revised levels of service, and a business risk exposure approach to determine the City's needs and funding requirements. The asset management approach is a compelling tool for communicating funding needs of the Division, tying those funding needs directly to regulatory requirements and desires expressed by citizens for the services the Division was providing. The application of asset management to storm water and watershed management, based on this case study, is a way to successfully optimize use of resources, integrate municipal flood control and storm water quality management, transparently justify funding requirements and management decisions, and build and transform an organization into one that can sustainably manage storm water quality and drainage on behalf of a municipality's residents, businesses and other customers.

Recycled Water/Stormwater Harvesting Feasibility Study Port of Long Beach (2020), Long Beach, CA

Rupeet is conducting a special study focused on opportunities for the use of the Port's recycled water and opportunities for stormwater harvesting and reuse. This planning level special study includes the following elements for stormwater harvesting and reuse to evaluate:

- And identify the infrastructure requirements and costs to capture and reuse all stormwater originating from the Harbor District.
- Construction and operational impacts on port terminals
- Possible end uses for recycled stormwater
- Potential cost savings associated with deferred regulatory compliance costs
- Monetary value of harvested stormwater and determine if it could be sold to end users in the Harbor District or water purveyors

- Feasibility and costs of diversions from Port storm water infrastructure to the sanitary sewer
- Opportunities to divert Port of Long Beach stormwater to the planned City of Long Beach Municipal Urban Stormwater Treatment (MUST) facility for treatment and potential reuse.
- A triple bottom line benefit cost analysis to prioritize different opportunities.

Stormwater Management Plan Third Party Reviews for MRP C.3 and NPDES Compliance*, Bay Area

Rupeet accomplished in SWMP Inspection and Review and NPDES permit compliance. She has assisted several Bay Area developers and engineering firms to comply with the Regional Municipal Permit Section C.3 by providing third party reviews of their Stormwater Management Plans. In her role, she has provided technical peer review of green infrastructure measures such as bioretention areas, flow through planters, green roofs, Silva cells, tree well plants, infiltration devices, pervious pavement and hydromodification control devices, as well as provided sizing and design related guidance.

Water Quality Treatment Design for Delta Diablo Sanitation District*, Delta Diablo Sanitation District, CA

Rupeet performed detailed hydrologic and hydraulic analyses and water quality design for the Delta Diablo Pump Stations for the Delta Diablo Sanitation District. The proposed development at the pump station sites include pump station upgrades and site grading and paving. She designed the stormwater treatment measures (bioretention area, pervious pavements) for the proposed improvements to confirm compliance with C.3 requirements and developed the conceptual design and technical report.

Hydrology & Hydraulic Analysis, Stormwater Management Design and Stormwater Management Plan Report - 74 Monte Vista Avenue, Atherton*, CA

Rupeet performed detailed hydrologic and hydraulic analyses for a single family residence upgrades and addition in Atherton. The development includes a single-family residence that needed parking and covered area upgrades exceeding 2500 sf of impervious area, but less than 10,000 sf of impervious area increase. Therefore, this project was designed as a Small Regulated Project and stormwater treatment measures were designed for water quality enhancement. She performed the hydrologic, hydraulic, and stormwater treatment design calculations, designed green infrastructure BMPs, developed design drawings, and stormwater control plan report to meet the City's requirements for C.3 compliance.

** Denotes projects completed with other firms*



Michael Weber •

Environmental Documentation/ Permitting Principal Scientist

Education

- BS, Environmental Studies

Why select

- Extensive experience preparing and managing CEQA/NEPA documents
- Stantec's permitting leader for Southern California
- Fully knowledgeable of local, state, and federal agencies

With 20 years of progressive environmental consulting experience, Michael's expertise involves land uses subject to discretionary agency approvals and public environmental review. Michael provides environmental services and leads multi-disciplinary teams through all life cycle phases of projects. Michael has experience with aerospace, commercial, education, industrial, oil and gas, thermal power generation, recreation, renewable energy, residential, mixed-use, transportation, water, and wastewater land uses.

Michael has an expertise in environmental permitting, and has experience obtaining discretionary permits for projects that are subject to multi-agency oversight and significant community involvement. He works on projects that are often located in sensitive areas with significant natural resource constraints. Michael has experience obtaining project permits and approvals from a wide range of federal, state and local agencies. Michael also has extensive knowledge in preparing and managing environmental documents for projects, especially those subject to compliance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). He guides projects through scoping, technical study, public environmental review, permitting, implementation, and decommissioning.

Michelson Sewer Lift Station Replacement Project, Irvine, CA, Environmental Task Manager

Michael prepared a CEQA Notice of Exemption for the Lead Agency on this project. It involved replacing and reconstructing an existing sewer lift station in the City of Irvine to avoid conflict with proposed development in the area.

Newport Bay Water Wheel/Trash Removal Project, Newport Beach, CA, Project Manager

Michael managed preparation of an IS/MND to meet California Environmental Quality Act requirements for this innovative project that involves construction and operation of a trash removal system in the California Coastal Zone of San Diego Creek/Upper Newport Bay. The project would substantially reduce the volume of trash flowing into Newport Bay and adjacent sensitive habitats/shoreline and benefit biological resources, water quality, and aesthetics. The environmental impact analysis was supported through preparation of a Jurisdictional Wetlands/Waters Delineation Report, Biological Resources Technical Report and Aquatic Resources Survey Report. Stantec prepared the

** Denotes projects completed with other firms*

IS/MND under a very compressed schedule to assist the City in securing substantial Water Quality, Supply, and Infrastructure Improvement Act of 2014 (Prop 1) grant funding for the innovative project. Stantec's scope of work included responding to public comments and addressing concerns for potential impacts related to odors, attracting vectors such as rodents, degrading viewsheds, and entrapment of wildlife. Stantec's response to comments were integrated into a Final IS/MND that was adopted by City Council. Stantec also assisted the City with meeting public noticing requirements throughout the CEQA process.

Well 21 Equipping and Pipeline Project, Orange County, CA, Task Manager

Michael managed preparation of the IS and MND for the Yorba Linda Water District, so their project could comply with CEQA. The IS and MND evaluated the potential impacts of completing a new potable water well, and installing an one-mile long water conveyance pipeline to connect the well to existing water conveyance infrastructure.

State Street Sewer Replacement Project, Santa Barbara, CA, Principal Scientist

Michael prepared a noise study of proposed nighttime sewer replacement activities in support of the City of Santa Barbara issuing a Special Permit and CEQA exemption. The noise study predicted expected construction noise levels at nearby residential receptors, evaluated significance in comparison to the City of Santa Barbara's noise ordinance, recommended measures including temporary sounds wall to reduce noise, and evaluated criteria used by the City of Santa Barbara in deciding whether to allow nighttime construction to avoid conflicts with adjacent commercial operations in the city center.

Midwestern Placer Regional Sewer Project, Placer County, CA, Senior Environmental Planner

Michael served as a senior environmental planner, and assisted with preparation of an EIR, which evaluated potential impacts of the project. The goal was to consolidate wastewater treatment from multiple service areas and wastewater treatment facilities. He prepared the air quality, greenhouse gas emissions, hazards and hazardous materials, and noise sections of the EIR. He also assisted with the reports quality assurance and quality control review.

Telegraph Road Traffic Throughput & Safety Enhancements, Downey, CA, Environmental Task Manager

Michael provided California Environmental Quality Act and National Environmental Policy Act-related services for this

City of Downey roadway project involving construction of raised landscape median islands, sidewalk improvements, and intersection signal modifications along 1.6 miles of Telegraph Road in the City of Downey. After conducting a preliminary environmental screening of the project that was used to support a National Environmental Policy Act Categorical Exclusion, Michael prepared and filed a California Environmental Quality Act Notice of Exemption (Categorical, Class 1) with the County Clerk and State Clearinghouse to support a streamlined environmental review and permitting process.

Buena Vista Hills Electrical Transmission Project, CA Resources Corporation, Kern County, CA, Project Manager

Michael served as project manager for this project that included the installation of seven miles of electrical transmission and distribution lines and a substation to provide power to an oil field development. Project components were located on lands under federal, state, and local jurisdictions. Stantec's scope of work included a Plan of Development, Biological Assessment/Biological Evaluation, Cultural Resources Study, Paleontological Resources Study, Clean Air Act General Conformity Analysis, Restoration Plan, agency permitting, CEQA Initial Study/Mitigated Negative Declaration, and NEPA Environmental Assessment. Permit applications were prepared and submitted to the Bureau of Land Management (Right of Way Grant and Special Use Permit SF 299 application for Transportation and Utility Systems and Facilities on Federal Lands), California Department of Fish and Wildlife (Incidental Take Permit & Streambed Alteration Agreement) and Department of Water Resources (Encroachment Permit).

Resources jurisdiction. Key environmental concerns Michael managed emergency response services provided Guidance Charter School Project, Charter School Property Solutions, Palmdale, CA, 2016, Environmental Task Manager

Michael managed preparation of an IS/MND for this project pursuant with the requirements of the CEQA. The project included construction and operation of a 1,138 student capacity charter middle and high school campus on 30 acres in the City of Palmdale. The IS/MND was completed within two weeks to support a fast-tracked permitting approval process and included substantial technical study to address potential aesthetics, air quality, greenhouse gas emissions, and traffic impacts. The IS/MND was adopted by the City as Lead Agency.

** Denotes projects completed with other firms*



Susan Reid •

PE

Civil

Education

- BS, Civil Engineering

Registrations/Certifications

- Professional Engineer #56872, CA

Why select

- 100+ successful projects, with vast majority involving concept-level to final PS&E design
- Significant on-call contract and task order delivery experience
- 20+ years of local agency infrastructure project experience

Susan's 20-year career providing engineering and design services for public and private infrastructure projects has involved roadways, pedestrian and bike trails/paths, hydrology and drainage, and environmental work. She has significant on-call contract and task order experience for local Orange County public works, water, parks, and transportation agencies. She is an expert in numerous precise geometrics and computer aided programs, including AutoCAD Civil 3D InRoads/MicroStation, WSPGW, and various Orange and Los Angeles County hydrology and hydraulics programs.

CV Link, Coachella Valley, CA (Project Engineer)

Susan is providing civil and traffic engineering final PS&E design services for the on-street segments of CV Link. CV Link is a 50-mile shared use protected path connecting the Coachella Valley communities from Palm Springs to Coachella. We are working closely with the client and desert communities to design this world-class facility. CV Link is a \$100 million project with nearly all funding in place.

Laguna Beach Pathway Projects, Laguna Beach, CA (Project Engineer)

Susan provided civil engineering for the Top of the World pedestrian pathway and new pathway along Laguna Canyon Road, from the College of Art and Design to the City's Act V Parking Lot.

San Diego Creek Channel Bike Trail Relocation, Irvine, CA (Project Engineer)

Susan provided engineering services for restoring a 1.2-mile segment of the San Diego Creek Channel that is currently owned and maintained by Irvine. Paved bicycle and hiking trails border the channel. She is providing improvements to relocate the bike trail at Alton Parkway along the Canon USA property within the channel right of way. Channel structural improvements were designed to replace eroded and damaged areas of the channel including rip rap structures, grade control structures, and eroded soil cement ramps and slopes.

** Denotes projects completed with other firms*

Culver Drive/University Avenue Intersection and Widening, Irvine, CA (Project Engineer)

Susan provided full A-E services for the City at this major arterial intersection to improve the LOS and mitigate the future projected substandard LOS at the Culver Drive and University Drive intersection. She is helping provide civil engineering, right-of-way services, landscape design, flood control, utility relocations, and environmental permitting through final PS&E.

Redondo Beach Cycle Track, Redondo Beach, CA (Project Designer)

Susan helped develop plans for proposed bicycle friendly facilities along two important roadways within Redondo Beach's Marina district. She helped prepare concept drawings and final plans for the favored alternative, which includes a Class I separated cycle track and City Welcome Park while increasing parking capacity within the coastal zone. The project included traffic analysis and simulation of the road diet and roundabout, conceptual visualization, field survey and aerial topography, civil design of the cycle track, drainage facilities, landscape and site furnishings, and related signing and striping plans.

John Wayne Airport Campus Drive/Bristol Street Intersection Improvements, Orange County, CA (Project Designer)

Susan is providing design and engineering services. The project consists of widening southbound Campus Drive to provide an additional 600-foot-long, third right-turn lane onto northbound Bristol Street.

Burbank Channel Bikeway Project, Burbank, CA (Project Engineer)

We are providing full A-E and environmental services to the City of Burbank which completes an important bikeway link through design of a Class I bikeway and multi-use trail along the Burbank Channel. This bikeway will extend from the City's Metrolink station south toward the Los Angeles River Trail located just beyond the City limits. We have provided presentations at council meetings, met with the community in open gatherings and one-on-one with the City, and also helped develop a community survey to gather input from all interested members. Our concept designs looked closely at each of their concerns and provided detailed cost estimates of the proposed project alternatives. One of the interesting project challenges is the conversion of an abandoned rail road spur line bridge to be used for the bikeway with added protective railing. We are also providing at-grade crossings at four locations and linkages to dead-end streets at four locations.

Bayview Drive Improvements, County of Orange, CA (Project Engineer)

Susan provided professional engineering services for the street improvements including preparation of a Focused Study Report. Her services included an alternatives analysis to alleviate flooding and ponding issues, as well as avoid utility conflicts during the construction of a new storm drain and street improvements, right-of-way studies, detailed hydrology and hydraulics computations, and preparation of the Environmental Analysis Checklist.

Moulton Parkway Smart Street Widening Improvements, El Toro Road to Santa Maria Avenue, Laguna Woods, California (Project Engineer)

Susan served as project engineer for civil engineering and design services for Moulton Parkway Smart Street Improvements including Class 2 Bikeway from 400 feet north of El Toro Road to 500 feet north of Santa Maria Avenue. Improvements included raised median islands, median and parkway landscaping, concrete bus pads, street lights, modification of existing traffic signals, signing and striping, soil nail wall, retaining walls, wrought iron fencing, and adjusting and relocation of utilities. Stantec's services included preparing PS&E documents for the proposed improvements. Close coordination with the Orange County Public Works and other consultants was needed to achieve the goals of the project.

On-Call Street Improvements in Lake Forest's Light Industrial Area, Lake Forest, CA (Project Engineer)

Susan provided engineering for Front Street, Orange Avenue, and Whisler Drive—all located in a light industrial area—to improve roadway surface, drainage, and pedestrian access. The scope of work included preparation of numerous alternatives to design improvements with the least of right-of-way impact. She provided a design solution to an existing drainage sump with no storm drain outlet by modifying the street cross section to provide positive surface drainage towards an existing storm drain system.

Kline Drive Roadway and Storm Drain Improvements, County of Orange and City of Newport Beach, CA (Project Engineer)

Susan developed various alternatives to alleviate storm drain issues, prepared detailed hydrology and hydraulics computations, and prepared the County of Orange Environmental Analysis Checklist.

** Denotes projects completed with other firms*



Steve Cook

RLA

Landscape Architecture and Irrigation

Education

- BS, Agricultural Business Management

Registrations/Certifications

- Landscape Architect #4053, CA
- Landscape Irrigation Auditor #82148, Irrigation Association
- Landscape Contractor #C27-528894, CA

Why select

- Expert in community-customized landscape designs
- Recently delivered award-winning landscape project for an Orange County agency
- Expert in new and efficient irrigation delivery systems

Steve's 25 years of combined experience as a registered landscape architect, a licensed landscape contractor, a certified water auditor, and a member of the Environmental Protection Agency's (EPA) Watersense Partnership Program, provide him a broad base of valuable knowledge. His experience as a landscape architect and a certified landscape water auditor provide him the knowledge necessary to design the most current environmentally friendly and efficient irrigation delivery systems. As an EPA Watersense Partner, he stays abreast of the regional, as well as local policies—enabling him the ability to foresee technological and societal trends, and allowing him the advantage of incorporating relevant new irrigation elements or design techniques into current project designs accordingly.

San Diego Creek Channel Bike Trail Relocation, Irvine, CA (Landscape Architect)

Steve managed the landscape improvement services for restoring a 1.2-mile segment of the San Diego Creek Channel, which is currently owned and maintained by the City of Irvine. A Class I bicycle and hiking trail borders the channel. The Landscaped areas that were to be affected were managed by various property owners/districts. Steve's early coordination efforts with these stakeholders allowed for a consensus on scope. As a result the first iteration of this project gained acceptance and approval.

Redondo Beach Cycle Track, Redondo Beach, CA (Landscape Architect Task Manager)

Steve developed plans for the bicycle friendly facilities along two important roadways within Redondo Beach's Marina district, as well as a welcome park at Redondo Beach's northern gateway at Hermosa Beach. His team also provided the colored graphics used at the stakeholder outreach meetings at which he presented the project's landscape elements. Steve's experience with plants that tolerate and even thrive in the coastal environments was of vital importance as this project is located within some of the harshest coastal influence. His input on the pavement materials and site furnishings, as well as the inter-nodal connection points for pedestrian/cyclists was essential for providing a safe and enjoyable experience for the various users.

** Denotes projects completed with other firms*

Laguna Beach Pathway Projects, Laguna Beach, CA (Landscape Architect)

Steve managed the landscape architecture portion of the PS&E preparation for the Top of the World (TOW) Pedestrian Pathway which connects the TOW neighborhood to the Orange County regional trail system, and new pathway adjacent to Laguna Canyon Road, from the College of Art and Design to the City's Act V Parking Lot. Both trails bisected natural coastal sage scrub so determining the lowest impact design while meeting the goals of the project fell within his team's scope. His experience in designing with natural materials, as well as his in-depth knowledge of this region's California native plant families, were keys to the success of these projects.

Golden Valley Road, Santa Clarita, CA (Landscape Architect)

Steve prepared the landscape concept plan for preliminary approvals and later the landscape construction documents. This project was a street widening and renovation project was adjacent to and spanned the Caltrans right of way at SR-14. He worked closely with the City's staff to incorporate the new landscape items into the existing. Existing points of connections were used where possible and new ones were installed where necessary. One particular challenge discovered during design was the lack of an existing power source for an area of new landscape. Steve's knowledge of cutting edge products within his industry, which is a result of maintaining his Certified Irrigation Auditor and EPA WaterSense Partner credentials, allowed him to suggest to the City the use of a newly released solar powered controller that would meet the most current water saving requirements. Avoiding the need to install a new electrical supply saved the City design and construction costs.

Miraloma Streetscape, Anaheim, CA (Landscape Architect)

Steve prepared the landscape concept plan for preliminary approvals and later the landscape construction documents. While the project was mainly a property conversion from commercial use to a ground water recharge basin, the streetscape was considered an important element for community acceptance.

Working closely with the staff of the Orange County Water District, Steve's past experience as a landscape contractor gave him the ability to accurately determine the existing planting and hardscape elements that could be salvaged to not only save money, but provide a more mature look to the finished product.

His knowledge of California native plant material and the most current irrigation methods and materials resulted in reduced cost relative to construction, water savings, and lower maintenance requirements.

Mecca Streets Revitalization - Economic Development Agency, Riverside, CA (Landscape Architect)

Steve prepared the landscape conceptual drawings and construction documents for this 2013 APWA merit award-winning neighborhood/community redevelopment project. He worked closely with representatives of the County of Riverside's Economic Development Agency and its Transportation Department to provide landscape architectural services that met the desires and needs of both. Steve's coordination with other disciplines was a key element of the preliminary design. The conceptual drawings that his team prepared were used to communicate the intent. The drawings were also used in the securing of development funds. Steve's team took the project from conceptual through construction documentation.

El Camino Real/Carmel Mountain Road at Torrey Hills, San Diego, CA (Landscape Architect)

Steve prepared the landscape construction documents for complete streetscape improvements, including 3 miles of streetscape within the right-of-way along El Camino Real from Carmel Valley Road and Carmel Mountain Road and the adjacent slope improvements (roughly 40 acres of constructed slopes), that would ultimately be maintained by the Sorrento Hills Landscape Maintenance District. The streetscape design included access driveways and intersections for commercial, multi-family residential, light industrial egress. Through design and construction, these egress points were relocated. Steve helped coordinate the ongoing plan modifications with the adjacent land owners and their contractors to make the necessary modifications to accommodate for these changes. At the west end of the Carmel Mountain Road improvements, it was necessary to prepare for a future onramp at I-5. The improvements within this area were designed and processed in accordance with the Caltrans standards.

Throughout the project, Steve coordinated closely with Caltrans and the local neighborhood representatives. He also provided construction management services from preliminary construction through project buy-off from the maintenance district and/or Caltrans.

** Denotes projects completed with other firms*



Greg Sebourn •

PLS

Survey, Mapping, and Legal

Education

- AS, Survey

Registrations/Certifications

- Professional Land Surveyor #8395, CA

Why select

- Two decades of professional experience in land surveying and mapping
- Extensive experience in land surveying and mapping education
- Served as California Land Surveyors Association's Director

Greg has more than 20 years of professional experience in numerous aspects of land surveying and mapping. His expertise includes business development; project management; client management; and surveying, mapping, and map checking services. Greg works with public and private entity clients throughout Southern California supporting monument preservation efforts; and design topographic, and construction surveys for pavement, sewer, and right-of-way improvement projects.

On-Call Services, City of Anaheim City-Wide Sanitary Sewer Improvement Program *, Anaheim, CA, Senior Survey Project Manager

This project involved several miles of new pipelines together with short segments to repair the aging infrastructure. Greg deployed substantial resources quickly, allowing for several construction sites to be served simultaneously. His services included design topographic surveying, construction surveying, and monument preservation. With several thousands of feet of new sanitary sewer lines being laid simultaneously, quality assurance and quality control procedures were an integral part of daily activities.

On-Call Surveying and Mapping, MWD of Southern California County of Riverside, CA, Survey and Mapping Task Leader

Greg led the effort to conduct boundary and topographic surveys over portions of MWD pipeline easements and related properties. The project included several miles of pipeline, as well as dozens of properties and easements. The boundary covered several Public Land Survey System Sections, as well as rancho boundaries. His deliverables included CADD files, point files, GIS .SHP files, and a Record of Survey map filed with the Riverside County Surveyor.

Joint Outfall "J" Trunk Sewer Unit IE Section 3 Protection at La Rotonda Canyon Rancho Palos Verdes, CA Principal In-Charge / Senior Project Manager

The County Sanitation Districts of Los Angeles County (Districts) selected Stantec to provide digital topographic mapping by field surveying and drafting services for the subject project. The project area surveyed and mapped was La Rotonda Canyon and protective concrete and grouted riprap improvements approximately 700 feet southwest from the cul-de-sac at the end of La Rotonda Drive within the Trump National Golf Course in the City of Rancho Palos Verdes.

** Denotes projects completed with other firms*

The project required Stantec to retrace a previous survey and tie new control and monitoring stations to the network. Additionally, the Districts requested surface modeling of the canyon and the outlet of the canyon at the Pacific Ocean where a 150- to 200-foot vertical cliff existed. To collect the surface data Stantec used conventional and non-traditional methods.

Photogrammetry provided for large-scale mapping while terrestrial methods (total stations) created a more detailed data set. Due to the vertical drop and the dangers of working near the slope, Stantec utilized an Unmanned Aerial Vehicle (UAV) to collect surface data without endangering staff safety. Together with the photogrammetric data, terrestrial data, and UAV data, Stantec was able to create a detailed model for monitoring and design purposes.

This was the first time that the Districts had used UAV technology on a pipeline project. The project was delivered on time and on budget.

IRWD Zone A to B and Zone A to C BPS , Irvine, CA, Project Surveyor

Greg provided land surveying services required to design and build Zone A to B and Zone A to C BPS at PA 5B Eastwood Village. Land surveying and mapping services included aerial control, right-of-way base mapping, topographic design surveying, and 10-scale mapping.

Multiple On-Call Map Checking*, Public Municipalities Southern California , Quality Assurance/Quality Control Supervisor

Greg has provided map checking services to numerous municipalities and other agencies for more than 10 years. Reviewing and verifying final maps, parcel maps, Records of Survey, Corner Records, certificates of compliance, lot line adjustments, legal descriptions, and plats for compliance and conformity with local and state regulations has allowed Greg to sharpen his QA/QC skills. Greg has provided map and survey document checking for the Cities of Irvine, Fullerton, Montebello, Covina, Baldwin Park, Bell Gardens, and Cudahy, as well as the County of Orange and others.

Santiago Canyon College – Coastkeeper Demonstration Garden* 2008 , Project Leader

Greg was the project leader providing boundary, topographic, and construction staking services for the Coastkeeper Demonstration Garden at Santiago Canyon College in Orange, California. The project involved topographically surveying portions of the college campus and a Metropolitan Water District (MWD) of Southern California pipeline easement traversing the campus. More

than 2,500-feet of trails lined with native vegetation were laid, along with five complex vignettes constructed for students and visitors to study landscaping with native and drought-tolerant vegetation. The project required a high level of coordination between the college administrative staff; district leaders; the City of Orange; MWD; Orange County Coastkeepers; and several firms representing civil engineering, architecture, landscape architecture, electrical engineering, and other disciplines. The award-winning Coastkeeper Demonstration Garden remains a significant resource for the education community and neighbors—demonstrating the use and management of native vegetation, drought-tolerant plants, and best practices in conservation landscaping.

On-Call Surveying and Mapping, Metropolitan Water District (MWD) of Southern California*, Metropolitan Water District (MWD) , County of Riverside, CA , Survey and Mapping Task Leader

Greg led the effort to conduct boundary and topographic surveys over portions of MWD pipeline easements and related properties. The project included several miles of pipeline, as well as dozens of properties and easements. The boundary covered several Public Land Survey System Sections, as well as rancho boundaries. His deliverables included CADD files, point files, GIS .SHP files, and a Record of Survey map filed with the Riverside County Surveyor.

Robert W. Goldsworthy Desalter* , WRD , Torrance, California , 2014 , Project Surveyor

The Goldsworthy Desalter expansion required implementing a control survey, centerline and right-of-way alignment survey, terrestrial topographic survey, and a photogrammetric survey. The project required a high-precision geodetic control survey to tie current conditions and control to the historic control used at the time the facility was first constructed. Additionally, the survey required setting seven aerial targets for correlation of imagery to ground conditions. Once the data was collected from photogrammetric processes, a ground survey of key topographic features was conducted. One innovation expanded the aerial coverage beyond the initial work limits in anticipation that the project scope could be revised to accommodate certain conditions. The additional photogrammetric coverage had no additional cost and remains available should WRD choose to revise the route or limits of design. The survey data was delivered on schedule and on budget in March 2014.

** Denotes projects completed with other firms*



Ninyo and Moore

Michael Putt •

PG, CEG

Geotechnical

Education

- BS, Geology

Registrations/Certifications

- Professional Geologist #7581, CA
- Certified Engineering Geologist # 2341, CA

Michael is a principal geologist with Ninyo & Moore and has extensive experience in providing engineering geology consultation in Southern California. Michael has extensive experience on a variety of project types, including highways, bridges, bore and jack tunneled undercrossings, hillside and flat-land mass grading projects for residential, commercial, and industrial developments, pipelines, and forensic investigations. Michael performs project administration and management, prepares and reviews geologic and geotechnical reports and provides third party review services for geotechnical reports. He conducts geologic and geotechnical field evaluations, including detailed logging of large- and small-diameter borings and trenches, and geologic evaluation/mapping. Projects have included fault hazard evaluations, landslide studies, slope stability analysis, seismic refraction studies, geologic reconnaissance studies, forensic evaluations, and construction and inspection services.

City of Santa Ana, Warner Avenue Storm Drain (Principal Geologist)

Michael provided geotechnical services for the Warner Avenue Storm Drain project located in Santa Ana, California. The project consisted of a 14-foot-wide by 6-foot-deep reinforced concrete box, and 60-inch-diameter reinforced concrete pipes that connected to existing storm drain pipes in the project area. The primary geotechnical considerations for the project included the stability of temporary excavations and need for shoring, relatively shallow groundwater and construction dewatering, and potential uplift forces on the storm drains due to the shallow groundwater. Services included review of background materials, subsurface exploration consisting of three exploratory borings, laboratory testing to evaluate soil characteristics, geologic and engineering analyses, and preparation of a written report representing findings and geotechnical recommendations.

Los Angeles Bureau of Engineering, Stormwater Capture Parks Program, Los Angeles, CA (Principal Geologist)

Michael provided geotechnical consulting services for the Los Angeles Bureau of Engineering Stormwater Capture Parks Program Project located in Los Angeles County, California. The program captures up to 2,912 acre-feet of stormwater and urban runoff per year that drain from 5,868 acres within a

portion of the San Fernando Valley in order to reduce the potential for flooding, improves stormwater quality, increases water supplies through stormwater capture, and provides recreational, social, and economic benefits. The project consisted of the installation of underground infiltration galleries, dry wells, catch basins, diversion structures, pump stations, hydrodynamic separator units, flow measuring devices, supervisory control and data acquisition, educational signage, and park restoration/improvements. Services included project coordination, background review, permit acquisition, coordination with Underground Service Alert for utility markout, subsurface evaluation, 15 cone penetration tests (CPTs) to depths of up to approximately 50 feet below the ground surface, percolation testing (falling head and constant head testing) in 15 borings, laboratory testing of collected samples, analytical characterization and disposal of drummed soil, compilation and analysis of the collected data, and preparation of geotechnical reports.

County of Los Angeles, Green Streets Master Plan Part 2 (Principal Geologist)

Michael performed a geotechnical study for the County of Los Angeles Department of Public Works' Green Streets Master Plan Part 2 Project. The purpose of our services was to provide geotechnical subsurface and infiltration data for five sites located within the cities of Westmont, Altadena, Rowland Heights, Valinda, and Agoura Hills, California. Services included a subsurface evaluation and extensive geotechnical laboratory testing was performed on the subsurface soil samples collected at each site. Constant and falling head infiltration testing was performed in each drywell using a continuous rotation of three 10,000-gallon water trucks. The flow rates were measured using a digital flowmeter and continuous datalogger and manual readings were collected during the testing. Total volumes of discharged infiltration water at each drywell site ranged from 17,000 to 56,000 gallons. Infiltration testing results were presented in graphical format in a second data report for the project.

Cypress Storm Drain Replacement Project, Cypress, CA (Principal Geologist/Project Manager)

Michael provided a geotechnical evaluation for the Walker Street, Aspen Street and Hanover Drive Storm Drain Replacement project located in Cypress, California. The purpose of the study was to evaluate the subsurface soil and geologic conditions along the project alignment and to provide geotechnical recommendations for design and construction of the new storm drains.

Myra Avenue Storm Drain and Sewer Improvements, Cypress, CA (Principal Geologist/Project Manager)

Michael provided geotechnical consulting services for the Myra Avenue Pump Station No. 3, Storm Drain and Sewer Improvement project located in Cypress, California. The purpose of the geotechnical services were to evaluate the geotechnical characteristics of the subsurface soils as they pertain to the design and construction of the proposed pump station, storm drains, laterals, catch basins, and sewer replacements.

Orange County Sanitation District/Plant No. 2, Job P2-105, Digester Ferric Chloride System Rehabilitation (Project Geologist)

Michael served as project geologist providing a geotechnical evaluation report for final design. Services included review of historical background documents, exploratory borings, laboratory testing, and geotechnical engineering. The geotechnical report addressed geologic conditions and seismic hazards, groundwater, seismic design parameters, site earthwork and foundations. Recommendations were presented for structure pad earthwork, mat foundation designs, trenching and shoring, lateral earth pressures, and construction dewatering.

Orange County Sanitation District/Magnolia Trunk Sewer Rehabilitation (Project Geologist)

Michael served as project geologist for a design-build project to rehabilitate the trunk sewer line utilizing the slip lining technique. The slip lining technique involves the excavation of access pits through relatively soft alluvial soil below groundwater to expose the top of the sewer pipeline for installation of the liner. Services included geotechnical and environmental consulting services during the design phase that included preparation of geotechnical evaluation reports, environmental screening for soil and groundwater contamination including aerially deposited lead, performance of pre-construction site condition surveys, and preparation of a vibration monitoring plan.

County of Orange/Rossmoor Storm Channel Improvements (Principal Geologist/Project Manager)

Michael provided geotechnical consulting services for the Rossmoor Storm Channel Improvements Project. The project involved the design of three alternative improvement concepts for the channel that has deteriorated with age and threatens adjacent properties with overflows. The improvement alternatives included reconstructing the channel walls with vertical retaining walls and/or slopes at various inclinations. The project was performed in collaboration with Orange County Public Works and Orange County Flood Control District.



Sherry Weinmeier

PE, ENV SP, LEED AP BD+C

Principal-in-Charge

Sherry is a proven and highly respected leader in the A-E industry, having delivered civil engineering and design services for public agency clients throughout California for more than 30 years. Sherry's extensive expertise includes concept-level infrastructure design through final design services for large-scale master planned communities, a wide range of local public works facilities. Sherry's outstanding commitment to collaboration and communication, strong understanding of details, and dedication to owners' goals has resulted in her projects regularly being delivered on schedule and within budget.

Education

- BS, Civil Engineering

Registrations/Certifications

- Professional Engineer #41751, CA
- Envision™ Sustainability Professional (ENV SP), Institute for Sustainable Infrastructure
- LEED AP Building Design + Construction, U.S. Green Building Council

Relevant Experience

- Santa Ana Cycle Track, Santa Ana, CA (Project Manager)
- CV Link, Coachella Valley, CA (Engineering Project Manager)
- Redondo Beach Cycle Track, Redondo Beach, CA (Civil Lead)
- Maine Avenue Complete Streets, Baldwin Park, CA (Roadway Task Lead)
- Heritage Park Parking Lot Improvements, Irvine, CA (Project Manager)

** Denotes projects completed with other firms*



Dan Hayes

PE

Project Planning/Feasibility Studies

Dan has more than 24 years of civil engineering experience with extensive experience in structural analyses and design, and preparation of design plans, specifications and cost estimates for retaining walls, water systems, pump stations, channels, dams and reservoir facilities. He has been involved in the structural analysis and design of several retaining walls, water recharge and flood control projects in Riverside, San Bernardino, Orange, and Los Angeles counties.

Education

- BS, Civil Engineering and Environmental Engineering

Registrations

- Professional Engineer #63132, CA

Relevant Experience

- Newport Boulevard Widening and Rehabilitation, Newport Beach, CA
- Oso Parkway Widening and Rehabilitation, Mission Viejo, CA
- Michaelson Floodwall Design, Irvine, CA
- San Diego Creek Invert Repair Project, Irvine, CA
- Laguna Beach Pacific Vista Slope Stabilization, Laguna Beach, CA
- Villa Park Dam, Orange County, CA
- Newland Street Improvements, Orange County, CA



Kevin Kohan
Environmental and Regulations/Compliance

Kevin coordinates major land development projects through the administrative review process at local, state, and federal levels for both public agency and private sector clients. He manages interdisciplinary teams of regulatory compliance experts, planners, landscape architects, biologists, wetlands specialists, and mitigation monitors. Kevin has consulted on numerous endangered species Section 7 assignments—including coordinating a team of water engineers on implementing reclaimed water usage in Castaic, California. His clear understanding of state water issues and associated environmental policies has resulted in successfully working with the Riverside County Habitat Conservation Agency-Endangered Species. Additionally, Kevin has prepared and processed resource permits through the USACE, USFWS, CDFW, and RWQCB.

Education

- MA and BA, Urban Planning

Relevant Experience

- Main Street Downtown Corona*, CA (Environmental Task Manager)
- Nichols Road Bridge*, Lake Elsinore, CA (Urban Planner)
- Alberhill Villages Specific Plan*, Lake Elsinore, CA (Project Manager)
- Bridal Creek Specific Plan*, County of Riverside, CA (Urban Planner)

** Denotes projects completed with other firms*



Jared Varonin
Environmental and Regulations/Compliance

Jared manages our biological services program in Southern California. He is an established thought leader on issues relating to stream and wetlands restoration, fish migration, rare plants, and endangered species. Over the past 17 years, Jared has earned a reputation for persevering in the face of challenges and getting things done, applying his scientific expertise and experience to overcome complex environmental challenges, develop creative mitigation strategies, and analyze impacts.

Education

- BS, Ecology and Systematic Biology

Relevant Experience

- Westlake Trails Project*, Westlake Village, CA (Lead Biologist)
- Special Status/Pre-Construction Surveys and Biological Monitoring*, Simi Valley, CA (Project Manager/Lead Biologist)
- Virginia Colony Biological Assessment and Constraints Analysis*, Moorpark, CA (Lead Biologist)
- USACE Santa Ana River Marsh Habitat Restoration and Bird Surveys*, Orange County, CA (Project Manager/Lead Biologist)
- USACE Santa Ana River Mainstem Project*, Riverside/Orange Counties, CA (Project Manager/Lead Biologist)
- Calleguas Creek at Upland Road Landscape Installation Project*, Camarillo, CA (Project Manager/Lead Biologist)



Gilberto Ruiz

**Environmental Documentation/Permitting
Environmental Planning**

With more than 18 years of progressive environmental consulting experience, Michael's expertise involves land uses subject to discretionary agency approvals and public environmental review. He provides environmental services and leads multi-disciplinary teams through all project phases. Michael has experience with aerospace, commercial, education, industrial, oil and gas, power, recreation, renewable energy, residential, transportation, water, and wastewater land uses.

Education

- MA, Urban & Regional Planning
- BA, Spanish Literature

Relevant Experience

- I-10 High Occupancy Toll Lanes Community Impact Assessment—Caltrans District 7*, Los Angeles, CA
- I-405 Widening—Caltrans District 12*, Orange County, CA
- SR 91/71 Interchange Project—Caltrans District 8* CA
- Regional Landfill Options for Orange County (RELOOC) EIR*, Orange County, CA
- Muskingum Drive Sewer Diversion Project IS/MND* Los Angeles, CA
- Laguna Nigel to San Juan Capistrano Passing Siding Project* San Juan Capistrano, CA
- Centinela Grade Separation Study* Inglewood, CA

** Denotes projects completed with other firms*



Vicky Ito

**PE, QSP/QSD, LEED AP
Project Design**

Vicky has more than 17 years of urban development experience including residential subdivision, commercial development, and power transmission and distribution. She has prepared Water Quality Management Plans, preliminary site plans, construction documents, hydrology reports and Stormwater Pollution Prevention Plans as well as coordinated with regulatory agencies.

Education

- BS, Civil

Registrations

- Professional Engineer #73766, CA
- QSP/QSD # 25810
- LEED AP

Relevant Experience

- Mesa Substation - Hydrology Report and Preliminary Design for Water Quality Basin, Los Angeles, County, CA
- House of Imports - WQMP, Buena Park, CA
- Brightwater Residential Development, Huntington Beach, CA
- Anaheim Convention Center Betterment VII - Backbone Sewer Relocation, Domestic Water and Storm Drain Facilities, Sewer Study, Anaheim, CA
- The Covey (Dickerson School Site), Buena Park, CA



Eric Walker

PE

Project Design

Jonathan has authored various grants for Southern California transportation clients, including Metro and Orange County Public Works. He is proficient in the Microsoft Office Suite, Google Earth GIS, Microsoft Project, EPANET, EPASWMM, HEC-HMS, AutoCAD, MicroStation, TruTraffic, and Synchro 8.

Education

- BS, Civil Engineering

Registrations

- Professional Engineer #88905, CA

Relevant Experience

- Murano & Luminare Palm Springs, CA
- Brightwater Huntington Beach, CA
- Goleta-Gaviota 66kV Distribution Line Replacement Project, Santa Barbara, CA
- Rose Paving Office Building and Truck Yard, Santa Fe Springs, CA
- Tehachapi Renewable Transmission Project (TRTP) Segments 6 & 11, Los Angeles, CA
- CarMax - Irvine, CA



Jeff Wilkerson

PE

Deputy Project Manager and Civil Design

Jeff is an experienced engineer and project/task manager with 18 years of Orange County agency project experience, including for the City of Santa Ana. He regularly prepares PS&E packages for roadway improvements, site improvements, and water and sewer systems for numerous public and private agencies. He has significant knowledge of and experience adhering to and applying Caltrans; Green Book; APWA; and local agency, state, and Federal standards.

Education

- MS and BS, Civil Engineering

Registrations/Certifications

- Professional Engineer #63466, CA

Relevant Experience

- Santa Ana Cycle Track, Santa Ana, CA (Project Engineer)
- Jeffrey Bike Trail Extension*, Irvine, CA (Engineering Task Manager)
- Howard Way, Century Place and 16th Street Roadway Rehabilitation, Costa Mesa, CA (Project Manager)
- Victoria Street Rehabilitation, Costa Mesa, CA (Project Manager)
- 17th Street/Tustin Avenue and Harbor Boulevard/Wilson Street Intersections Improvements, Costa Mesa, CA (Project Engineer)

** Denotes projects completed with other firms*



Jeff Dunn

PE

Civil

Jeff has 23 years of experience in water resource engineering including domestic water, reclaimed water, and sewer facilities. His design experience consists of domestic water pipelines and pump stations, reclaimed water pipelines and pump stations, gravity sewers, force mains, and lift stations. He has been involved in the design of over 42 miles of pipelines ranging in diameter from 4 inches to 36 inches. In addition, he has experience in construction management and observation. He has completed over 25 planning studies and hydraulic analyses of domestic water, reclaimed water, and sewer collection system facilities.

Education

- BS, Civil Engineering

Registrations

- Professional Engineer #58455, CA

Relevant Experience

- Irvine Desalter/Well Site Development, Irvine, CA
- Water Master Plan Update, Laguna Beach, CA
- Vista Del Verde Village III, Bastanchury Sewer Pipeline, Yorba Linda, CA
- Randall Street Domestic Water Improvements, Orange, CA
- UCI Medical Center (UCIMC) Water Improvements, Orange, CA
- Newport Beach 10.0-Million-Gallon Reservoir, Newport Beach, CA
- Tonner Hills Water and Sewer Facilities Plan, Brea, CA

** Denotes projects completed with other firms*



Michael Lu

PE

Civil

Michael has nine years of diverse civil and environmental engineering design experience in wastewater treatment process, public utilities, and domestic utilities. In addition to engineering design, Michael has worked on numerous hydraulic modeling projects for water and recycled water distribution systems, as well as sewer collection systems. He also has experience working on environmental compliance projects, such as industrial wastewater discharge permitting and NPDES inspections. Michael has worked with the City of Los Angeles Bureau of Engineering, Irvine Company, Irvine Ranch Water District, Orange County Water District, Genentech, Brea Canon Oil Co, and various municipalities and local agencies. In addition to his experience on multi-million design projects, Michael has managed and served as the design lead on various small to medium-sized projects.

Education

- MS, Environmental Engineering
- BA, Chemistry

Registrations

- Professional Engineer #81310, CA

Relevant Experience

- Planning Area 51 Sub-Area Master Plan Update, Irvine, CA
- North Vineyard Sewer Feasibility Study, Ontario, CA
- Planning Area 6 Sewer Flow Monitoring Study, Irvine, CA
- On-Call Hydraulic Modeling Services for IEUA, Various Locations, CA
- Irvine Ranch Water District (IRWD) Recycled Water Distribution System Analysis, Irvine, CA



Katie McNguyen

PLA

Landscape Architecture/Irrigation

Katie's more than nine years of landscape architecture experience has allowed her to see firsthand how to design a project from the ground-up. As a skilled landscape contractor and licensed landscape architect, Katie exhibits both hands-on experience and technical skills essential for design development and construction administration. Her construction administration experience involves plan checking, tagging trees in the field, and attending routine construction meetings. Katie focuses her designs on the ease of maintenance and creative plant layout options that are both environmentally conscious and aesthetically pleasing.

Education

- MA, Landscape Architecture
- BA, Psychology

Registrations

- Registered Landscape Architect #6100, CA

Relevant Experience

- Maine Avenue Complete Streets, Baldwin Park, CA
- Saddleback Church Parking Lot, San Juan Capistrano, CA
- La Palma Recharge Basin, Anaheim, CA
- Planning Area 40 Natural Treatment System (NTS) Basin, Irvine, CA
- Top of the World Park, Laguna Beach, CA
- 23201 Saguaro Renovation, Lake Forest, CA
- University Town Center Offsite Roadway Improvements, San Diego, CA

** Denotes projects completed with other firms*



Jason Shockley

PLS

Survey, Mapping, and Legal

Jason has more than 27 years of surveying experience as a certified party chief in land, boundary, and topographic surveys, as well as wet utility infrastructure, highway design, and construction surveys. He currently manages all crews and is responsible for reduction of all field data. Jason is proficient in the use of coordinate geometry computer programs, total station with data collectors, digital levels, and GPS equipment. His areas of expertise includes the management of large capital projects, geodetic and GPS surveys, and state plan coordinate system calculations and high precision vertical levels, and field crew safety and training.

Education

- Chief Program, International Union of Operating Engineers

Registrations

- Professional Land Surveyor #9105, CA

Relevant Experience

- Orange County Sanitation District On-Call Surveying Services, Orange County, CA
- Mesa Consolidated Water District On-Call Survey/Mapping Services, Costa Mesa, CA
- 930 Zone Recycled Water Reservoir and Pipeline, Chino Hills, CA
- Morris Reservoir Bathymetric Survey, West Covina, CA
- Downtown Sewer Rehabilitation *, Long Beach, CA
- Santa Monica Sewer Rehab *, Santa Monica, CA
- County of Los Angeles Department of Public Works As-Needed Survey Services, Los Angeles County, CA



Ramon Ramos

PLS, CP

Survey, Mapping, and Legal Aerial Photogrammetry

Ramon has extensive experience in photogrammetric production and management, with a strong emphasis on digital applications, gained during his employment with Genge/Murray & McCormick Aerial Surveys, Stewart Geo Technologies, Saudi Aramco, and the Philippine government. He has supervised departments of 15-30 production personnel using state-of-the-art photogrammetric equipment and techniques to complete large-area, high-accuracy projects for public agencies.

Ramon is a licensed Land Surveyor in California. He is also an ASPRS-certified photogrammetrist and served for three years as Regional Director, ASPRS Southwest Region. He is the Executive Vice President & Principal of Geospatial Professional solutions, Inc. (GPSI).

Education

- BS, Geodetic Engineering

Registrations

- Professional Land Surveyor #9431, CA
- ASPRS Certified Photogrammetrist # 1271

Relevant Experience

- Los Angeles River Photogrammetry & Lidar Mapping, US Army Corps of Engineers, Los Angeles District, Los Angeles City, CA
- Lake Mathews Photogrammetry Mapping, Metropolitan Water District, Riverside County, CA
- Wittman Drainage & Rawhide Wash Lidar Mapping, Maricopa County Flood Control District, Maricopa County, AZ
- Whittier Narrows Dam Photogrammetry & Lidar Mapping, US Army Corps of Engineers, Los Angeles District, South El Monte, CA
- Riverside Levees Photogrammetry & Lidar Mapping, US Army Corps of Engineers, Los Angeles District, South El Monte, CA

FEE PROPOSAL

August 12, 2020

Mr. Craig Foster, CPSWQ, QSD/P
City of Santa Ana
NPDES Manager
20 Civic Center Plz (M-22)
Santa Ana, CA 92701

RE: Fee Proposal for No. 20-102 On-Call Stormwater Project Design Services

Dear Mr. Craig:

At Stantec, we strongly believe that the measurement of value is partially referenced from pricing, but also from credentials and capabilities. Our proposal has been created with an understanding of this balance. We have included a standard hourly fee schedule for our employees and subconsultants on the following pages. We also understand that any rate change, after being awarded, needs your written approval.

Thank you again for considering us to provide our services for your on-call projects. We look forward to working for you with the assurance that we will commit our best resources for your upcoming projects.

Sincerely,
STANTEC CONSULTING SERVICES INC.

A handwritten signature in black ink, appearing to read "Roger Chung".

Roger Chung, PE, CFM, QSD/P, F. ASCE
Project Manager
roger.chung@stantec.com
949-491-5615

A handwritten signature in black ink, appearing to read "Sherry Weinmeier".

Sherry Weinmeier, PE, LEED AP, ENV SP
Principal-in-Charge
sherry.weinmeier@stantec.com
949-923-6265

STANTEC RATE SCHEDULE

LABOR CLASSIFICATION	BILLING LEVEL	HOURLY RATE
Senior Principal	17	\$234
Senior Project Manager	16	\$225
Project Manager	15	\$211
Project Engineer	14	\$201
Design Engineer	13	\$185
Engineering Designer	12	\$177
Survey Analyst	13	\$185
Survey Technician	11	\$168
Senior Technologist	11	\$168
Design Technician	10	\$158
Senior CAD Technician	9	\$152
CAD Technician	8	\$142
Senior Administrative Support	7	\$137
Administrative Support	6	\$126
Two-Person Survey Crew	N/A	\$285

**Rates for a typical project and excludes legal services*

REIMBURSABLE EXPENSES	RATE	RATE
Plots/Large Format	\$0.450/sf (black and white)	\$2.50/sf (color)
Small Format Prints (8.5"x11")	\$0.060/ea (black and white)	\$0.75/ea (color)
Small Format Prints (11"x17")	\$0.130/ea (black and white)	\$0.150/ea (color)
Delivery to City Offices	\$30 round trip	
Delivery to Stantec Irvine Office	\$22 round trip	
Foamcore Mounting	\$3.500/sf (3/16")	\$4.500/sf (1/2")
Edge Binding	\$1.250/ea (standard)	\$2.500/ea (screw post)
Mylar (4 mil)	\$0.950/sf	

Expenses will be billed at cost plus 10%

Schedule of Fees

Hourly Charges for Personnel

Professional Staff

Principal Engineer/Geologist/Environmental Scientist/Certified Industrial Hygienist	\$ 195
Senior Engineer/Geologist/Environmental Scientist	\$ 190
Senior Project Engineer/Geologist/Environmental Scientist	\$ 185
Project Engineer/Geologist/Environmental Scientist	\$ 175
Senior Staff Engineer/Geologist/Environmental Scientist	\$ 150
Staff Engineer/Geologist/Environmental Scientist	\$ 145
GIS Analyst	\$ 125
Technical Illustrator/CAD Operator	\$ 103

Field Staff

Certified Asbestos/Lead Technician	\$ 185
Field Operations Manager	\$ 125
Nondestructive Examination Technician (UT, MT, LP)	\$ 119
Supervisory Technician	\$ 115
Special Inspector (Concrete, Masonry, Structural Steel, Welding, and Fireproofing)	\$ 109
Senior Technician	\$ 108
Technician	\$ 103

Administrative Staff

Information Specialist	\$ 85
Geotechnical/Environmental/Laboratory Assistant	\$ 80
Data Processor	\$ 75

Other Charges

Concrete Coring Equipment (includes technician)	\$ 190/hr
Anchor Load Test Equipment (includes technician)	\$ 190/hr
GPR Equipment	\$ 180/hr
Inclinometer	\$ 100/hr
Hand Auger Equipment	\$ 80/hr
Rebar Locator (Pachometer)	\$ 25/hr
Vapor Emission Kit	\$ 65/kit
Nuclear Density Gauge	\$ 12/hr
X-Ray Fluorescence	\$ 70/hr
PID/FID	\$ 25/hr
Air Sampling Pump	\$ 10/hr
Field Vehicle	\$ 15/hr
Expert Witness Testimony	\$ 450/hr
Direct Expenses	Cost plus 15 %
Special equipment charges will be provided upon request.	

Notes

For field and laboratory technicians and special inspectors, overtime rates at 1.5 times the regular rates will be charged for work performed in excess of 8 hours in one day Monday through Friday and all day on Saturday. Rates at twice the regular rates will be charged for all work in excess of 12 hours in one day, all day Sunday and on holidays.

Field technician and special inspection hours are charged at a 4-hour minimum, and 8-hour minimum for hours exceeding 4 hours.

Invoices are payable upon receipt. A service charge of 1.5 percent per month may be charged on accounts not paid within 30 days.

Our rates will be adjusted in conjunction with the increase in the Prevailing Wage Determination during the life of the project, as applicable.

The terms and conditions are included in Ninyo & Moore's Work Authorization and Agreement form.

Schedule of Fees for Laboratory Testing

SOILS

Atterberg Limits, D 4318, CT 204	\$ 170
California Bearing Ratio (CBR), D 1883	\$ 550
Chloride and Sulfate Content, CT 417 & CT 422	\$ 175
Consolidation, D 2435, CT 219	\$ 300
Consolidation, Hydro-Collapse only, D 2435	\$ 150
Consolidation – Time Rate, D 2435, CT 219	\$ 200
Direct Shear – Remolded, D 3080	\$ 350
Direct Shear – Undisturbed, D 3080	\$ 300
Durability Index, CT 229	\$ 175
Expansion Index, D 4829, IBC 18-3	\$ 190
Expansion Potential (Method A), D 4546	\$ 170
Geofabric Tensile and Elongation Test, D 4632	\$ 200
Hydraulic Conductivity, D 5084	\$ 350
Hydrometer Analysis, D 422, CT 203	\$ 220
Moisture, Ash, & Organic Matter of Peat/Organic Soils	\$ 120
Moisture Only, D 2216, CT 226	\$ 35
Moisture and Density, D 2937	\$ 45
Permeability, CH, D 2434, CT 220	\$ 300
pH and Resistivity, CT 643	\$ 175
Proctor Density D1557, D 698, CT 216, AASHTO T-180	\$ 220
Proctor Density with Rock Correction D 1557	\$ 340
R-value, D 2844, CT 301	\$ 375
Sand Equivalent, D 2419, CT 217	\$ 125
Sieve Analysis, D 422, CT 202	\$ 145
Sieve Analysis, 200 Wash, D 1140, CT 202	\$ 100
Specific Gravity, D 854	\$ 125
Thermal Resistivity (ASTM 5334, IEEE 442)	\$ 925
Triaxial Shear, C.D, D 4767, T 297	\$ 550
Triaxial Shear, C.U., w/pore pressure, D 4767, T 2297 per pt	\$ 450
Triaxial Shear, C.U., w/o pore pressure, D 4767, T 2297 per pt	\$ 350
Triaxial Shear, U.U., D 2850	\$ 250
Unconfined Compression, D 2166, T 208	\$ 180

MASONRY

Brick Absorption, 24-hour submersion, 5-hr boiling, 7-day, C 67	\$ 70
Brick Compression Test, C 67	\$ 55
Brick Efflorescence, C 67	\$ 55
Brick Modulus of Rupture, C 67	\$ 50
Brick Moisture as received, C 67	\$ 45
Brick Saturation Coefficient, C 67	\$ 60
Concrete Block Compression Test, 8x8x16, C 140	\$ 70
Concrete Block Conformance Package, C 90	\$ 500
Concrete Block Linear Shrinkage, C 426	\$ 200
Concrete Block Unit Weight and Absorption, C 140	\$ 70
Cores, Compression or Shear Bond, CA Code	\$ 70
Masonry Grout, 3x3x6 prism compression, C 39	\$ 45
Masonry Mortar, 2x4 cylinder compression, C 109	\$ 35
Masonry Prism, half size, compression, C 1019	\$ 120
Masonry Prism, Full size, compression, C 1019	\$ 200

REINFORCING AND STRUCTURAL STEEL

Chemical Analysis, A 36, A 615	\$ 135
Fireproofing Density Test, UBC 7-6	\$ 90
Hardness Test, Rockwell, A 370	\$ 80
High Strength Bolt, Nut & Washer Conformance, per assembly, A 325	\$ 150
Mechanically Spliced Reinforcing Tensile Test, ACI	\$ 175
Pre-Stress Strand (7 wire), A 416	\$ 170
Reinforcing Tensile or Bend up to No. 11, A 615 & A 706	\$ 75
Structural Steel Tensile Test: Up to 200,000 lbs., A 370	\$ 90
Welded Reinforcing Tensile Test: Up to No. 11 bars, ACI	\$ 80

CONCRETE

Compression Tests, 6x12 Cylinder, C 39	\$ 35
Concrete Mix Design Review, Job Spec	\$ 300
Concrete Mix Design, per Trial Batch, 6 cylinder, ACI	\$ 850
Concrete Cores, Compression (excludes sampling), C 42	\$ 120
Drying Shrinkage, C 157	\$ 400
Flexural Test, C 78	\$ 85
Flexural Test, C 293	\$ 85
Flexural Test, CT 523	\$ 95
Gunite/Shotcrete, Panels, 3 cut cores per panel and test, ACI	\$ 275
Lightweight Concrete Fill, Compression, C 495	\$ 80
Petrographic Analysis, C 856	\$ 2,000
Restrained Expansion of Shrinkage Compensation	\$ 450
Splitting Tensile Strength, C 496	\$ 100
3x6 Grout, (CLSM), C 39	\$ 55
2x2x2 Non-Shrink Grout, C 109	\$ 55

ASPHALT

Air Voids, T 269	\$ 85
Asphalt Mix Design, Caltrans (incl. Aggregate Quality)	\$ 4,500
Asphalt Mix Design Review, Job Spec	\$ 180
Dust Proportioning, CT LP-4	\$ 85
Extraction, % Asphalt, including Gradation, D 2172, CT 382	\$ 250
Extraction, % Asphalt without Gradation, D 2172, CT 382	\$ 150
Film Stripping, CT 302	\$ 120
Hveem Stability and Unit Weight D 1560, T 246, CT 366	\$ 225
Marshall Stability, Flow and Unit Weight, T 245	\$ 240
Maximum Theoretical Unit Weight, D 2041, CT 309	\$ 150
Moisture Content, CT 370	\$ 95
Moisture Susceptibility and Tensile Stress Ratio, T 238, CT 371	\$ 1,000
Slurry Wet Track Abrasion, D 3910	\$ 150
Superpave, Asphalt Mix Verification (incl. Aggregate Quality)	\$ 4,900
Superpave, Gyrotory Unit Wt., T 312	\$ 100
Superpave, Hamburg Wheel, 20,000 passes, T 324	\$ 1,000
Unit Weight sample or core, D 2726, CT 308	\$ 100
Voids in Mineral Aggregate, (VMA) CT LP-2	\$ 90
Voids filled with Asphalt, (VFA) CT LP-3	\$ 90
Wax Density, D 1188	\$ 140

AGGREGATES

Clay Lumps and Friable Particles, C 142	\$ 180
Cleaness Value, CT 227	\$ 180
Crushed Particles, CT 205	\$ 175
Durability, Coarse or Fine, CT 229	\$ 205
Fine Aggregate Angularity, ASTM C 1252, T 304, CT 234	\$ 180
Flat and Elongated Particle, D 4791	\$ 220
Lightweight Particles, C 123	\$ 180
Los Angeles Abrasion, C 131 or C 535	\$ 200
Material Finer than No. 200 Sieve by Washing, C 117	\$ 90
Organic Impurities, C 40	\$ 90
Potential Alkali Reactivity, Mortar Bar Method, Coarse, C 1260	\$ 1,250
Potential Alkali Reactivity, Mortar Bar Method, Fine, C 1260	\$ 950
Potential Reactivity of Aggregate (Chemical Method), C 289	\$ 475
Sand Equivalent, T 176, CT 217	\$ 125
Sieve Analysis, Coarse Aggregate, T 27, C 136	\$ 120
Sieve Analysis, Fine Aggregate (including wash), T 27, C 136	\$ 145
Sodium Sulfate Soundness, C 88	\$ 450
Specific Gravity and Absorption, Coarse, C 127, CT 206	\$ 115
Specific Gravity and Absorption, Fine, C 128, CT 207	\$ 175

ROOFING

Roofing Tile Absorption, (set of 5), C 67	\$ 250
Roofing Tile Strength Test, (set of 5), C 67	\$ 250

Special preparation of standard test specimens will be charged at the technician's hourly rate.
Ninyo & Moore is accredited to perform the AASHTO equivalent of many ASTM test procedures.

GPSI Schedule of Rates

Escalation Rate
Profit

3.30%
10%
(Based on the Bureau of Labor Statistics
Consumer Price Index)

GPSI O/H

188.37%

Labor Category

	Year1	Year2	Year3	Year4	Year5
Aerial Project Manager	\$217.35	\$224.52	\$231.93	\$239.59	\$247.49
Photogrammetrist	\$138.49	\$143.06	\$147.78	\$152.66	\$157.70
Lidar Specialist	\$148.10	\$152.99	\$158.04	\$163.26	\$168.64
Photogrammetric Technician	\$114.51	\$118.29	\$122.19	\$126.23	\$130.39
CAD/GIS Specialist	\$117.37	\$121.24	\$125.24	\$129.37	\$133.64
Clerical	\$73.27	\$75.69	\$78.19	\$80.77	\$83.44

Per Hour

Ultracam Falcon Prime Digital Photogrammetric Camera

\$2,100

Riegl Lidar Sensor LMS-Q780

\$2,750

Commercial Aerial Images (CAI) - Subcontractor to GPSI

Escalation Rate
Profit

3.30%
10%
(Based on the Bureau of Labor Statistics
Consumer Price Index for the Los Angeles
area April 2019)

CAI O/H

174.50%

Labor Category

	Year1	Year2	Year3	Year4	Year5
Pilot	\$124.77	\$128.88	\$133.14	\$137.53	\$142.07
Camera/LIDAR operator	\$94.81	\$97.94	\$101.17	\$104.51	\$107.96

Per Hour

Aircraft - Cessna Turbo 206H

Travel, rental, Hotel*

* As per SAFCA 2019-002 Attachment 8.2 Exhibit B

CONSULTANT EXPENSE REIMBURSEMENT GUIDELINES

REQUEST FOR PROPOSALS (RFP)
FOR
ON-CALL STORMWATER PROJECT DESIGN SERVICES


RFP NO.: 20-102



CITY OF SANTA ANA
Public Works Agency
20 Civic Center Plz (M-22)
Santa Ana, CA 92701

Craig Foster, CPSWQ, QSD/P
NPDES Manager
(714) 647-5659
cfoster@santa-ana.org

Approved for Release:


Jason Gabriel
Principal Civil Engineer
Public Works Agency

KEY RFP DATES (Subject to change at discretion of City):

Issue Date:	Thursday July 16, 2020
Deadline for Requests for Information:	August 1, 2020
Proposal Due Date:	Thursday August 6, 2020 at 4:00 p.m.
Projected Award Date:	Tuesday September 15, 2020



NOTICE INVITING PROPOSALS

NOTICE IS HEREBY GIVEN that proposals will be received from qualified firms for On-Call Stormwater Project Design Services.

Responses to this Request for Proposals (RFP) will be accepted until Wednesday, August 12, 2020.

Proposals shall be submitted electronically through the PlanetBids system. No other form of submittal will be accepted. It is the responsibility of the proposer to ensure that any proposals submitted have been uploaded to PlanetBids prior to the proposal due date and time stated on the cover page of this RFP.

Proposals shall NOT be mailed or sent via telegraphic, electronic or facsimile means.

All notifications, requests for information, updates and addenda will be posted on the PlanetBids page at <https://www.planetbids.com/portal/portal.cfm?CompanyID=20137>. Proposers shall be responsible for monitoring the site to obtain information regarding this solicitation. Failure to respond to required updates may result in a determination of a nonresponsive proposal.

LETTER OF INTENT: As a courtesy to the City, all interested firms are encouraged to submit a Letter of Intent of their pending proposal to the noted Project Manager by the required date, as shown on the cover page of this RFP. Letters shall be sent via certified mail or email. Failure to submit a Letter of Intent will not lead to disqualification of the firm.



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I. INTRODUCTION / PROJECT DESCRIPTION

Nature of Work:

The City of Santa Ana is seeking qualified engineering firms to design a variety stormwater projects on an as-needed or “on-call” basis. A detailed Scope of Work is included in the Appendix of this RFP as Attachment 1.

Number of Proposals and Signature:

Five (5) hard copies are required to accompany an electronic submittal of the complete proposal package on PlanetBids. One of the hard copies shall be marked as “ORIGINAL” and be signed by a company official with the power to bind the company, and submitted to the City of Santa Ana. *Please be explicit in identifying the appropriate person with legal authority to bind the company.*

The Statement of Qualifications shall be limited to a maximum of (10) double-sided pages (excluding front and back covers, section dividers and attachments such as resumes, forms). Font size shall be minimum 11-point Arial. Proposal exhibits shall be maximum 11” x 17”.

Proposal Evaluation and Rating:

The criteria for evaluating the proposals submitted is shown below:

Relevant Project Experience	40%
Firm/Team Experience	30%
Understanding of Need	25%
References	5%

The City has established a proposal review committee to evaluate proposers based on the response to this RFP, which includes adherence to outlined directions and format, and the City evaluation criteria set forth above. A final score will be calculated for each submitted proposal and used to rank the proposers.

After ranking, cost negotiations may begin with the most qualified consultant and only their cost proposal will be opened. Should negotiations fail or result in a price that the City does not consider fair and reasonable, negotiations will be formally terminated and the City will then undertake negotiations with the second most qualified consultant. If the negotiations with the second most qualified firm are not successful, negotiations with the third most qualified consultant, and so on, until the price is determined to be fair and reasonable by the City.



Project Funding:

Funding sources for each project may vary and shall comply with the funding agency's requirements. Special conditions may apply. Refer to Attachment 1 (Scope of Work) in the Appendix of this RFP.

Project may be funded with State and Federal grant funds administered by the California Department of Transportation (Caltrans). Special conditions shall apply. Refer to Attachments 1 (Scope of Work) in the Appendix of this RFP for further information.

Prevailing Wages:

In accordance with the California State Labor Code, prevailing wage rates apply. Copies of the prevailing rate of per diem wages are on file with the Public Works Agency and shall be made available to any interested party on request.

Term of Contract Agreement:

The City desires to enter into contracts with the top scoring three (3) selected firms for an initial three (3) year term with a City option for one (1), two (2) year extension period. This term is outlined in the Standard Consultant Agreement, as contained in the Appendix of this RFP as Attachment 2.

II. INSTRUCTIONS TO PROPOSERS

A. CITY RESPONSIBILITIES

The City will provide information in its possession relevant to preparation of required information in this RFP. The City will provide only the staff assistance and documentation specifically referred to herein.

B. PROPOSER RESPONSIBILITIES

Point of Contact: The selected proposer will assume responsibilities for all services in its proposal. The selected proposer shall identify a sole point of contact with the greatest knowledge concerning the required service operations and contractual matters, including payment of all charges resulting from the Agreement.

Evidence of Financial Capacity: Proposer may be requested to submit its most recent audited financial statement, evidencing proposer's financial capacity to fully perform the required services, including provision of equipment and personnel expenses over a ninety (90) day period. If said financial statement does not reflect full ninety (90) day operational capacity, proposer may include a letter of credit as evidence of supplemental capacity.



C. REQUEST FOR INFORMATION OR CLARIFICATION

All questions or requested clarifications shall be made only in writing to the Q&A section located in PlanetBids no fewer than five (5) calendar days prior to the date and time set for opening of proposals. No verbal requests or responses will be accepted. Significant interpretations or clarifications will be addressed via addenda to this RFP.

D. ADDENDA

Any changes in RFP from the date of release to date of submittal will result in an addendum or amendment. Notification of such addendum or amendment shall be posted on PlanetBids at <https://www.planetbids.com/portal/portal.cfm?CompanyID=20137> as set forth in the Notice Inviting Proposals. Addenda shall become part of the agreement documents.

E. LICENSES & PERMITS

The selected proposer shall be required to obtain a City of Santa Ana Business license within ten (10) business days of selection and must provide a copy to the City's project manager or designee prior to commencing any work in Santa Ana.

Additionally, Proposer will be responsible for obtaining any licenses/permits required by the Scope of Work.

F. INSURANCE

The Selected Proposer shall provide the required evidence of insurance coverage as set forth in the Scope of Work within ten (10) business days after receipt of notice that the contract has been awarded. Failure to provide the required insurance certificates shall be cause for the annulment of the award and the forfeiture of the proposal guaranty. The City will provide the Selected Proposer with a "New Vendor Checklist", which outlines insurance requirements.

G. PAYMENT INFORMATION PACKET

The selected proposer shall return a completed payment information packet within ten (10) business days after the successful proposer has received notice that the contract has been awarded.

H. PRE-PROPOSAL MEETING

Should a pre-proposal meeting be scheduled, the date, time, and location is identified on the cover page of this RFP. The meeting will include discussion of the project scope and a question-and-answer session. It is highly recommended that the Proposer's key team members attend this meeting. Significant interpretations or clarifications will be addressed via addenda to this RFP, as described above in "Section D: Addenda."

I. CITY RIGHT TO REJECT

The City reserves the right to reject any or all proposals submitted and no representation is made hereby that any contract will be awarded pursuant to this RFP or otherwise.



The City reserves the right to accept or reject the combined or separate components of this proposal in part or in its entirety or to waive any minor inconsistency, informality or technical defect in the proposal.

The City reserves the right to reject, replace, and approve any and all subcontractors. All subcontractor(s) shall be identified in response to this RFP. Subcontractors shall be the responsibility of the successful proposer and the City shall assume no liability of such subcontractors.

J. BID PROTESTS

Proposers with concerns or rebuttal of any staff determination of non-responsiveness or non-responsibility may submit, in writing within five (5) business days, to the Project Manager, any concerns regarding the RFP process or staff determination. Such writing shall be considered by the City Manager or her designated representative, and may be acted upon within five (5) business days. If no action is taken within such time, there shall be no change to the staff determination. The exercise by the Proposer of its right to submit written concerns shall be a condition precedent to seeking judicial review of any award of a contract hereunder.

III. SUBMITTAL REQUIREMENTS

A. GENERAL

1. The number of Proposal Copies and signature is specified in:

RFP SECTION I - INTRODUCTION / PROJECT DESCRIPTION

2. Deadline:

Proposals are due to the City of Santa Ana at the date, time, and location specified in the Notice Inviting Proposals.

B. PROPOSAL CONTENTS

The proposal format and page limitation, if any, is specified in:

RFP SECTION I - INTRODUCTION / PROJECT DESCRIPTION

1. STATEMENT OF QUALIFICATIONS

- a. Cover Letter: Proposals shall include a letter signed by a principal or authorized representative who can make legally binding commitments for the entity.



- b. Contract Agreement Statement: Proposal shall include a statement outlining your concurrence or concerns with any and all provisions contained in the Agreement attached herein as Attachment 2 in the Appendix.
 - c. Firm and Team Experience: Proposal shall include a profile of the firm's experience. Include resumes of project team/sub-consultants that will be providing services which outline their technical and design experience. At a minimum, this should include the project manager/principal agent, associates in charge when project manager/principal agent is unavailable, key personnel, firm size, and an organization chart identifying only those who will perform work for the proposed project and the percentage of each individual's time devoted to this project. The project manager/principal agent shall be the primary contact person to represent your firm and will be the person to conduct the presentation, if invited for an interview.
 - d. Understanding of Need: Proposal shall include an outline which demonstrates the firm's understanding of the work. This outline should include anticipated approach, tasks necessary for successful completion, deliverables, and suggestions or special concerns that the City should be made aware of. Identify any assumptions and/or exclusions used in preparation of the scope of work and associated fee estimate.
 - e. Relevant Project Experience: Proposal shall include a list of relevant projects, which your firm or personnel have completed within the last 5 years, including significant work with public agencies. Project information should include project description, project location, year completed, and client name and contact information. City of Santa Ana staff may conduct site visits at select projects.
 - f. References: Proposal shall include a listing of relevant projects with references for three public entities for which Proposer has performed similar work within the past five (5) years.
2. SCOPE OF SERVICES AND SCHEDULE:
Proposal shall include a Scope of Services provided by the consultant which details their experience and expertise with NPDES/stormwater project design work, as it pertains to the Scope of Work detailed in Attachment 1 of this RFP.
3. FEE PROPOSAL:



The fee proposal shall be submitted concurrently with the technical proposal, but in a separately sealed envelope, clearly labeled as “Fee Proposal.” This shall include the firm’s Standard Hourly Fee Schedule, a table outlining the tasks and team hourly effort for each of the major tasks, and a Project Fee Schedule as outlined in the Scope of Work.

The fee proposal will not be opened until the proposals have been evaluated by the proposal selection committee. The City will select the consultant based on qualifications, and then negotiate a contract price based on available funding.

4. CERTIFICATIONS:

The following forms shall be signed and included as part of the proposal submittal package:

- Attachment 3-1: Non-Collusion Affidavit
- Attachment 3-2: Non-Lobbying Certification
- Attachment 3-3: Non-Discrimination Certification

- ❖ Caltrans Exhibits as referenced in Attachment 1 Scope of Work under Special Provisions (also referenced in Attachment 4)

IV. PROPOSAL REVIEW (CONSULTANT SELECTION)

A. EVALUATION AND RATING

The criteria for evaluating the proposals are specified in:

RFP SECTION I - INTRODUCTION / PROJECT DESCRIPTION.

B. SELECTION

The selection committee will be comprised of at least (3) City staff from multiple departments. The committee may interview the top ranking proposers. The City will recommend award of contracts to the proposers who will provide the best value to the City. The City reserves the right to begin negotiations and enter into a contract without interview or further discussions.

V. CONTRACT AWARD

A. REQUEST FOR COUNCIL ACTION

Following evaluation and rating by the proposal review committee and acceptance from Funding agency following financial audit, the Project Manager will recommend award contracts to the three top-ranking proposers that will provide the best value to the City.

**Appendix
ATTACHMENT 2
SAMPLE ON-CALL AGREEMENT**

**AGREEMENT TO PROVIDE STORMWATER PROJECT DESIGN SERVICES ON AN
ON-CALL BASIS**

THIS AGREEMENT is made and entered into this _____, 2020 by and between _____ (“Consultant”), and the City of Santa Ana, a charter city and municipal corporation organized and existing under the Constitution and laws of the State of California (“City”).

RECITALS

- A. On July 16, 2020, the City issued Request for Proposal No. 20-102, by which it sought a consultant to provide Stormwater Project Design Services on an on-call basis for the City’s Public Works Agency.
- B. Consultant submitted a responsive proposal that was among those selected by the City. Consultant represents that it is able and willing to provide the services described in the scope of work that was included in RFP No. 20-102.
- C. In undertaking the performance of this Agreement, Consultant represents that it is knowledgeable in its field and that any services performed by Consultant under this Agreement will be performed in compliance with such standards as may reasonably be expected from a professional contracting firm in the field.

NOW THEREFORE, in consideration of the mutual and respective promises, and subject to the terms and conditions hereinafter set forth, the parties agree as follows:

1. SCOPE OF SERVICES

On an on-call basis, and at the City’s sole discretion, Consultant shall perform the services that were described in the scope of work that was included in RFP No. 20-102 and as more specifically delineated in Consultant’s proposal, which is attached as Exhibit A and incorporated in full.

2. ALLOWABLE COSTS AND PAYMENTS

- a. City neither warrants nor guarantees any minimum or maximum compensation to Consultant under this Agreement. Consultant shall be paid only for actual services performed under this Agreement at the rates and charges identified in Consultant’s Cost Proposal attached as Exhibit B. Consultant is one of two consultants selected to provide environmental site assessment services on an as-needed basis under RFP No. 20-102. The total compensation for these services provided by all consultants selected under RFP No. 20-102 to perform them shall not exceed \$2,000,000 during the term of the Agreement, including any extension periods. This sum is comprised

of (1) the base amount of \$ _____ and (2) an ____% contingency in the amount of \$ _____ for additional services at the City's sole discretion.

- b. Consultant will be reimbursed for hours worked at the hourly rates specified in Consultant's Cost Proposal attached as Exhibit B. The specified hourly rates shall include direct salary costs, employee benefits, overhead, and fee. These rates are not adjustable for the performance period set forth in this Agreement. In addition, Consultant will be reimbursed for incurred (actual) direct costs other than salary costs that are in the cost proposal and identified in the cost proposal and in the executed Task Order.
- c. Specific projects will be assigned to Consultant through issuance of Task Orders. After a project to be performed under this Agreement is identified by City, City will prepare a draft Task Order less the cost estimate. A draft Task Order will identify the scope of services, expected results, project deliverables, period of performance, project schedule and will designate a City Project Coordinator. The draft Task Order will be delivered to Consultant for review. Consultant shall return the draft Task Order within ten (10) calendar days along with a Cost Estimate, including a written estimate of the number of hours and hourly rates per staff person, any anticipated reimbursable expenses, overhead, fee if any, and total dollar amount. After agreement has been reached on the negotiable items and total cost, the finalized Task Order shall be signed by both City and Consultant.
- d. Task Orders may be negotiated for a lump sum (Firm Fixed Price) or for specific rates of compensation, both of which must be based on the labor and other rates set forth in Consultant Cost Proposal.
- e. Reimbursement for transportation and subsistence costs shall not exceed the rates as specified in the approved Cost Proposal.
- f. When milestone cost estimates are included in the approved Cost Proposal, Consultant shall obtain prior written approval for a revised milestone cost estimate from City before exceeding such estimate.
- g. Progress payments for each Task Order will be made monthly in arrears based on services provided and actual costs incurred.
- h. Consultant shall not commence performance of work or services until this Agreement has been approved by City, and notification to proceed has been issued by City. No payment will be made prior to approval or for any work performed prior to approval of this Agreement.
- i. A Task Order is of no force or effect until returned to City and signed by an authorized representative of City. No expenditures are authorized on a project, and work shall not commence until a Task Order for that project has been executed by City.

- j. Consultant will be reimbursed, as promptly as fiscal procedures will permit upon receipt by City of itemized invoices in triplicate. Separate invoices itemizing all costs are required for all work performed under each Task Order. Invoices shall be submitted no later than 45 calendar days after the performance of work for which Consultant is billing, or upon completion of the Task Order. Invoices shall detail the work performed on each milestone, on each project as applicable. Invoices shall follow the format stipulated for the approved Cost Proposal and shall reference this Agreement number, project title, and Task Order number. Credits due to City that include any equipment purchased under the Equipment Purchase provision of this Agreement must be reimbursed by Consultant prior to the expiration or termination of this Agreement. Invoices shall be mailed to City at the following address: City of Santa Ana, Public Works Agency, 20 Civic Center Plaza, P.O. Box 1988, Santa Ana, CA 92702 M-36 and emailed to the project manager or respective staff.
- k. The period of performance for Task Orders shall be in accordance with dates specified in the Task Order. No Task Order will be written which extends beyond the expiration date of this Agreement.
- l. The total amount payable by City for an individual Task Order shall not exceed the amount agreed to in the Task Order, unless authorized by contract amendment.
- m. If the Consultant fails to satisfactorily complete a deliverable according to the schedule set forth in a Task Order, no payment will be made until the deliverable has been satisfactorily completed.
- n. Task Orders may not be used to amend this Agreement and may not exceed the scope of work under this Agreement.
- o. The total amount payable by City for all Task Orders resulting from this Agreement shall not exceed \$2,000,000. It is understood and agreed that there is no guarantee, either expressed or implied, that this dollar amount will be authorized under this Agreement through Task Orders.

3. COST PRINCIPLES AND ADMINISTRATIVE REQUIREMENTS

- a. Consultant agrees that the Contract Cost Principles and Procedures, 48 CFR, Federal Acquisition Regulations System, Chapter 1, Part 31.000 et seq., shall be used to determine the cost allowability of individual items.
- b. Consultant agrees to comply with federal procedures in accordance with 2 CFR, Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards.
- c. Any costs for which payment has been made to Consultant that are determined by subsequent audit to be unallowable under 2 CFR, Part 200 and 48 CFR, Federal

Acquisition Regulations System, Chapter 1, Part 31.000 et seq., are subject to repayment by Consultant to City.

4. PERFORMANCE PERIOD

- a. This Agreement shall go into effect on the date first written above, contingent upon approval by City, and Consultant shall commence work after notification to proceed by City. This Agreement shall end on August 20, 2021, unless terminated earlier in accordance with Section 21. The term of this Agreement may be extended for up to two 1-year periods upon a writing executed by the City Manager and City Attorney.
- b. Consultant is advised that any recommendation for contract award is not binding on City until the Agreement is fully executed and approved by City.
- c. The period of performance for each specific project shall be in accordance with the Task Order for that project. If work on a Task Order is in progress on the expiration date of this Agreement, the terms of the Agreement shall be extended by amendment.

5. STATE PREVAILING WAGE RATES

- a. If applicable, Consultant shall comply with the State of California's General Prevailing Wage Rate requirements in accordance with California Labor Code, Section 1770, and all Federal, State, and local laws and ordinances applicable to the work.
- b. Any subcontract entered into as a result of this Agreement, if for more than \$25,000 for public works construction or more than \$15,000 for the alteration, demolition, repair, or maintenance of public works, shall contain all of the provisions of this Section, unless the awarding agency has an approved labor compliance program by the Director of Industrial Relations.
- c. When prevailing wages apply to the services described in the scope of work, transportation and subsistence costs shall be reimbursed at the minimum rates set by the Department of Industrial Relations (DIR) as outlined in the applicable Prevailing Wage Determination. See <http://www.dir.ca.gov>.

6. INDEPENDENT CONTRATOR

Consultant shall, during the entire term of this Agreement, be construed to be an independent contractor and not an employee of the City. This Agreement is not intended nor shall it be construed to create an employer-employee relationship, a joint venture relationship, or to allow the City to exercise discretion or control over the professional manner in which Consultant performs the services which are the subject matter of this Agreement; however, the services to be provided by Consultant shall be provided in a manner consistent with all applicable standards and

regulations governing such services. Consultant shall pay all salaries and wages, employer's social security taxes, unemployment insurance and similar taxes relating to employees and shall be responsible for all applicable withholding taxes.

7. OWNERSHIP OF MATERIALS

This Agreement creates a non-exclusive and perpetual license for City to copy, use, modify, reuse, or sublicense any and all copyrights, designs, and other intellectual property embodied in plans, specifications, studies, drawings, estimates, and other documents or works of authorship fixed in any tangible medium of expression, including but not limited to, physical drawings or data magnetically or otherwise recorded on computer diskettes, which are prepared or caused to be prepared by Consultant under this Agreement ("Documents & Data"). Consultant shall require all subconsultants to agree in writing that City is granted a non-exclusive and perpetual license for any Documents & Data the subconsultant prepares under this Agreement. Consultant represents and warrants that Consultant has the legal right to license any and all Documents & Data. Consultant makes no such representation and warranty in regard to Documents & Data which were provided to Consultant by the City. City shall not be limited in any way in its use of the Documents and Data at any time, provided that any such use not within the purposes intended by this Agreement shall be at City's sole risk.

8. INSURANCE

Prior to undertaking performance of work under this Agreement, Consultant shall maintain and shall require its subconsultants, if any, to obtain and maintain insurance as described below:

- a. **Commercial General Liability Insurance.** Consultant shall maintain commercial general liability insurance naming the City, its officers, employees, agents, volunteers and representatives as additional insured(s) and shall include, but not be limited to protection against claims arising from bodily and personal injury, including death resulting therefrom and damage to property, resulting from any act or occurrence arising out of Consultant's operations in the performance of this Agreement, including, without limitation, acts involving vehicles. The amounts of insurance shall be not less than the following: single limit coverage applying to bodily and personal injury, including death resulting therefrom, and property damage, in the total amount of \$1,000,000 per occurrence, with \$2,000,000 in the aggregate. Such insurance shall (a) name the City, its officers, employees, agents, volunteers and representatives as additional insured(s); (b) be primary with respect to insurance or self-insurance programs maintained by the City; and (c) contain standard separation of insureds provisions.
- b. **Business automobile liability insurance,** or equivalent form, with a combined single limit of not less than \$1,000,000 per occurrence. Such insurance shall include coverage for owned, hired and non-owned automobiles.
- c. **Worker's Compensation Insurance.** In accordance with the California Labor Code, Consultant, if Consultant has any employees, is required to be insured against liability for worker's compensation or to undertake self-insurance. Prior to commencing the performance of the work under this Agreement, Consultant agrees

to obtain and maintain any employer's liability insurance with limits not less than \$1,000,000 per accident.

- d. If Consultant is or employs a licensed professional such as an architect or engineer: Professional liability (errors and omissions) insurance, with a combined single limit of not less than \$1,000,000 per claim with \$2,000,000 in the aggregate.
- e. The following requirements apply to the insurance to be provided by Consultant pursuant to this section:
 - (i) Consultant shall maintain all insurance required above in full force and effect for the entire period covered by this Agreement.
 - (ii) Certificates of insurance shall be furnished to the City upon execution of this Agreement and shall be approved by the City.
 - (iii) Certificates and policies shall state that the policies shall not be cancelled or reduced in coverage or changed in any other material aspect, by consultant, without thirty (30) days prior written notice to the City.
 - (iv) Consultant shall supply City with a fully executed additional insured endorsement.
- f. If Consultant fails or refuses to produce or maintain the insurance required by this section or fails or refuses to furnish the City with required proof that insurance has been procured and is in force and paid for, the City shall have the right, at the City's election, to forthwith terminate this Agreement. Such termination shall not affect Consultant's right to be paid for its time and materials expended prior to notification of termination. Consultant waives the right to receive compensation and agrees to indemnify the City for any work performed prior to approval of insurance by the City.

9. INDEMNIFICATION

Consultant agrees to defend, and shall indemnify and hold harmless the City, its officers, agents, employees, consultants, special counsel, and representatives from liability: (1) for personal injury, damages, just compensation, restitution, judicial or equitable relief arising out of claims for personal injury, including death, and claims for property damage, which may arise from the negligent operations of the Consultant or its subconsultants, agents, employees, or other persons acting on their behalf which relates to the services described in section 1 of this Agreement; and (2) from any claim that personal injury, damages, just compensation, restitution, judicial or equitable relief is due by reason of the terms of or effects arising from this Agreement. This indemnity and hold harmless agreement applies to all claims for damages, just compensation, restitution, judicial or equitable relief suffered, or alleged to have been suffered, by reason of the events referred to in this Section or by reason of the terms of, or effects, arising from this Agreement. The Consultant further agrees to indemnify, hold harmless, and pay all costs for the

defense of the City, including fees and costs for special counsel to be selected by the City, regarding any action by a third party challenging the validity of this Agreement, or asserting that personal injury, damages, just compensation, restitution, judicial or equitable relief due to personal or property rights arises by reason of the terms of, or effects arising from this Agreement. City may make all reasonable decisions with respect to its representation in any legal proceeding. Notwithstanding the foregoing, to the extent Consultant's services are subject to Civil Code Section 2782.8, the above indemnity shall be limited, to the extent required by Civil Code Section 2782.8, to claims that arise of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the Consultant.

10. INTELLECTUAL PROPERTY INDEMNIFICATION

Consultant shall defend, indemnify and hold harmless the City, its officers, agents, representatives, and employees against any and all liability, including costs, and attorney's fees, for infringement of any United States' letters patent, trademark, or copyright contained in the work product or documents provided by Consultant to the City pursuant to this Agreement.

11. RETENTION OF RECORDS/AUDIT

For the purpose of determining compliance with Public Contract Code 10115, et seq. and Title 21, California Code of Regulations, Chapter 21, Section 2500 et seq., when applicable, and other matters connected with the performance of this Agreement, pursuant to Government Code 8546.7, Consultant, subconsultants, and City shall maintain and make available for inspection all books, documents, papers, accounting records, and other evidence pertaining to the performance of the Agreement, including but not limited to, the costs of administering the Agreement. All parties shall make such materials available at their respective offices at all reasonable times during the Agreement period and for three years from the date of final payment under the Agreement. The state, State Auditor, City, FHWA, or any duly authorized representative of the Federal Government shall have access to any books, records, and documents of Consultant and its certified public accountants work papers that are pertinent to the contract and indirect cost rates (ICR) for audit, examinations, excerpts, and transactions, and copies thereof shall be furnished if requested.

12. AUDIT REVIEW PROCEDURES

- a. Any dispute concerning a question of fact arising under an interim or post audit of this Agreement that is not disposed of by mutual agreement shall be reviewed by City's Executive Director of Finance.
- b. Not later than 30 days after issuance of the final audit report, Consultant may request a review by City's Executive Director of Finance of unresolved audit issues. The request for review will be submitted in writing.
- c. Neither the pendency of a dispute nor its consideration by City will excuse Consultant from full and timely performance in accordance with the terms of this Agreement.

13. CONFIDENTIALITY

If Consultant receives from the City information which due to the nature of such information is reasonably understood to be confidential and/or proprietary, Consultant agrees that it shall not use or disclose such information except in the performance of this Agreement, and further agrees to exercise the same degree of care it uses to protect its own information of like importance, but in no event less than reasonable care. "Confidential Information" shall include all nonpublic information. Confidential information includes not only written information, but also information transferred orally, visually, electronically, or by other means. Confidential information disclosed to either party by any subsidiary and/or agent of the other party is covered by this Agreement. The foregoing obligations of non-use and nondisclosure shall not apply to any information that (a) has been disclosed in publicly available sources; (b) is, through no fault of the Consultant disclosed in a publicly available source; (c) is in rightful possession of the Consultant without an obligation of confidentiality; (d) is required to be disclosed by operation of law; or (e) is independently developed by the Consultant without reference to information disclosed by the City.

14. CONFLICT OF INTEREST

- a. Consultant shall disclose any financial, business, or other relationship with City that may have an impact upon the outcome of this Agreement, or any ensuing City construction project. Consultant shall also list current clients who may have a financial interest in the outcome of this Agreement, or any ensuing City construction project that will follow.
- b. Consultant hereby certifies that it does not now have, nor shall it acquire any financial or business interest that would conflict with the performance of services under this Agreement.

15. REBATES, KICKBACKS, OR OTHER UNLAWFUL CONSIDERATION

Consultant warrants that this Agreement was not obtained or secured through rebates kickbacks or other unlawful consideration, either promised or paid to any City employee. For breach or violation of this warranty, City shall have the right in its discretion; to terminate the contract without liability; to pay only for the value of the work actually performed; or to deduct from the contract price; or otherwise recover the full amount of such rebate, kickback or other unlawful consideration.

16. NOTICE

Any notice, tender, demand, delivery, or other communication pursuant to this Agreement shall be in writing and shall be deemed to be properly given if delivered in person or mailed by first class or certified mail, postage prepaid, or sent by fax or other telegraphic communication in the manner provided in this Section, to the following persons:

To City: Clerk of the City Council
City of Santa Ana
20 Civic Center Plaza (M-30)
P.O. Box 1988
Santa Ana, CA 92702-1988
Fax 714- 647-6956

Executive Director
Public Works Agency
City of Santa Ana
20 Civic Center Plaza (M-21)
P.O. Box 1988
Santa Ana, CA 92702
Fax 714-647-5635

To Consultant:

A party may change its address by giving notice in writing to the other party. Thereafter, any communication shall be addressed and transmitted to the new address. If sent by mail, communication shall be effective or deemed to have been given three (3) days after it has been deposited in the United States mail, duly registered or certified, with postage prepaid, and addressed as set forth above. If sent by fax, communication shall be effective or deemed to have been given twenty-four (24) hours after the time set forth on the transmission report issued by the transmitting facsimile machine, addressed as set forth above. For purposes of calculating these timeframes, weekends, federal, state, County or City holidays shall be excluded.

17. EXCLUSIVITY AND AMENDMENT

This Agreement represents the complete and exclusive statement between the City and Consultant regarding the subject matter herein, and supersedes any and all other agreements, oral or written, between the parties. In the event of a conflict between the terms of this Agreement and any attachments hereto, the terms of this Agreement shall prevail. This Agreement may not be modified except by written instrument signed by the City and by an authorized representative of Consultant. The parties agree that any terms or conditions of any purchase order or other instrument that are inconsistent with, or in addition to, the terms and conditions hereof, shall not bind or obligate Consultant or the City. Each party to this Agreement acknowledges that no representations, inducements, promises or agreements, orally or otherwise, have been made by any party, or anyone acting on behalf of any party, which are not embodied herein.

18. SUBCONTRACTING

- a, Nothing contained in this Agreement or otherwise, shall create any contractual

relation between City and any subconsultant(s), and no subcontract shall relieve Consultant of its responsibilities and obligations hereunder. Consultant agrees to be as fully responsible to City for the acts and omissions of its subconsultant(s) and of persons either directly or indirectly employed by any of them as it is for the acts and omissions of persons directly employed by Consultant. Consultant's obligation to pay its subconsultant(s) is an independent obligation from City's obligation to make payments to the Consultant.

- b. Consultant shall perform the work contemplated with resources available within its own organization and no portion of the work pertinent to this Agreement shall be subcontracted without written authorization by City, except that which is expressly identified in the approved Cost Proposal.
- c. Consultant shall pay its subconsultants within ten (10) calendar days from receipt of each payment made to Consultant by City.
- d. All subcontracts entered into as a result of this Agreement shall contain all the provisions stipulated in this Agreement to be applicable to subconsultants.
- e. Any substitution of subconsultant(s) must be approved in writing by City prior to the start of work by the subconsultant(s).

19. EQUIPMENT PURCHASE

- a. Prior authorization in writing by City shall be required before Consultant enters into any unbudgeted purchase order, or subcontract exceeding \$5,000 for supplies, equipment, or consultant services. Consultant shall provide an evaluation of the necessity or desirability of incurring such costs.
- b. For purchase of any item, service or consulting work not covered in Consultant's Cost Proposal and exceeding \$5,000 prior authorization by City, three competitive quotations must be submitted with the request, or the absence of bidding must be adequately justified.
- c. Any equipment purchased as a result of this Agreement is subject to the following condition: "Consultant shall maintain an inventory of all nonexpendable property. Nonexpendable property is defined as having a useful life of at least two years and an acquisition cost of \$5,000 or more. If the purchased equipment needs replacement and is sold or traded in, City shall receive a proper refund or credit at the conclusion of the Agreement, or if the Agreement is terminated, Consultant may either keep the equipment and credit City in an amount equal to its fair market value, or sell such equipment at the best price obtainable at a public or private sale, in accordance with established City procedures and credit City in an amount equal to the sales price. If Consultant elects to keep the equipment, fair market value shall be determined at Consultant's expense, on the basis of a competent independent appraisal of such equipment. Appraisals shall be obtained from an

appraiser mutually agreeable to by City and Consultant. If it is determined to sell the equipment, the terms and conditions of such sale must be approved in advance by City.” 2 CFR, Part 200 requires a credit to Federal funds when participating equipment with a fair market value greater than \$5,000 is credited to the project.

20. WAIVER

No waiver of breach, failure of any condition, or any right or remedy contained in or granted by the provisions of this Agreement shall be effective unless it is in writing and signed by the party waiving the breach, failure, right or remedy. No waiver of any breach, failure or right, or remedy shall be deemed a waiver of any other breach, failure, right or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

21. TERMINATION

City reserves the right to terminate this Agreement upon thirty (30) calendar days written notice to Consultant with the reasons for termination stated in the notice. City may terminate this Agreement should Consultant fail to perform the covenants herein contained at the time and in the manner herein provided. In the event of such termination, City may proceed with the work in any manner deemed proper by City. If City terminates this Agreement with Consultant, City shall pay Consultant the sum due to Consultant under this Agreement prior to termination, unless the cost of completion to City exceeds the funds remaining in the Agreement, in which case the overage shall be deducted from any sum due Consultant under this Agreement and the balance, if any, shall be paid to Consultant upon demand.

22. NON-DISCRIMINATION

Consultant shall not discriminate because of race, color, creed, relation, sex, marital status, sexual orientation, age, national origin, ancestry, or disability, as defined and prohibited by applicable law, in the recruitment, selection, training, utilization, promotion, termination or other employment related activities or in connection with any activities under this Agreement. Consultant affirms that it is an equal opportunity employer and shall comply with all applicable federal, state and local laws and regulations.

23. JURISDICTION-VENUE

This Agreement has been executed and delivered in the State of California and the validity, interpretation, performance, and enforcement of any of the clauses of this Agreement shall be determined and governed by the laws of the State of California. Both parties further agree that Orange County, California, shall be the venue for any action or proceeding that may be brought or arise out of, in connection with or by reason of this Agreement.

24. PROFESSIONAL LICENSES

Consultant shall, throughout the term of this Agreement, maintain all necessary licenses, permits, approvals, waivers, and exemptions necessary for the provision of the services hereunder

and required by the laws and regulations of the United States, the State of California, the City of Santa Ana and all other governmental agencies. Consultant shall notify the City immediately and in writing of its inability to obtain or maintain such permits, licenses, approvals, waivers, and exemptions. Said inability shall be cause for termination of this Agreement.

25. STATEMENT OF COMPLIANCE

- a. Consultant's signature affixed herein, and dated, shall constitute a certification under penalty of perjury under the laws of the State of California that Consultant has, unless exempt, complied with, the nondiscrimination program requirements of Government Code Section 12990 and Title 2, California Administrative Code, Section 8103.
- b. During the performance of this Agreement, Consultant and its subconsultants shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), mental disability, medical condition (e.g., cancer), age (over 40), marital status, and denial of family care leave. Consultant and subconsultants shall insure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment. Consultant and subconsultants shall comply with the provisions of the Fair Employment and Housing Act (Gov. Code §12990 (a-f) et seq.) and the applicable regulations promulgated thereunder (California Code of Regulations, Title 2, Section 7285 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code Section 12990 (a-f), set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations, are incorporated into this Agreement by reference and made a part hereof as if set forth in full. Consultant and its subconsultants shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other Agreement.
- c. The Consultant shall comply with regulations relative to Title VI (nondiscrimination in federally-assisted programs of the Department of Transportation – Title 49 Code of Federal Regulations, Part 21 – Effectuation of Title VI of the 1964 Civil Rights Act). Title VI provides that the recipients of federal assistance will implement and maintain a policy of nondiscrimination in which no person in the state of California shall, on the basis of race, color, national origin, religion, sex, age, disability, be excluded from participation in, denied the benefits of or subject to discrimination under any program or activity by the recipients of federal assistance or their assignees and successors in interest.
- d. The Consultant, with regard to the work performed by it during the Agreement shall act in accordance with Title VI. Specifically, the Consultant shall not discriminate on the basis of race, color, national origin, religion, sex, age, or disability in the selection and retention of subconsultants, including procurement of materials and leases of equipment. The Consultant shall not participate either directly or

indirectly in the discrimination prohibited by Section 21.5 of the U.S. DOT's Regulations, including employment practices when the Agreement covers a program whose goal is employment.

26. DEBARMENT AND SUSPENSION CERTIFICATION

- a. Consultant's signature affixed herein, shall constitute a certification under penalty of perjury under the laws of the State of California, that Consultant has complied with Title 2 CFR, Part 180, "OMB Guidelines to Agencies on Government wide Debarment and Suspension (nonprocurement)", which certifies that he/she or any person associated therewith in the capacity of owner, partner, director, officer, or manager, is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency; has not been suspended, debarred, voluntarily excluded, or determined ineligible by any federal agency within the past three (3) years; does not have a proposed debarment pending; and has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three (3) years. Any exceptions to this certification must be disclosed to City.
- b. Exceptions to the Federal Government Excluded Parties List System maintained by the General Services Administration are to be determined by the Federal highway Administration.

27. MISCELLANEOUS PROVISIONS

- a. Each undersigned represents and warrants that its signature herein below has the power, authority and right to bind their respective parties to each of the terms of this Agreement, and shall indemnify City fully, including reasonable costs and attorney's fees, for any injuries or damages to City in the event that such authority or power is not, in fact, held by the signatory or is withdrawn.
- b. All exhibits referenced herein and attached hereto shall be incorporated as if fully set forth in the body of this Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the date and year first above written.

ATTEST:

CITY OF SANTA ANA

DAISY GOMEZ
Clerk of the Council

KRISTINE RIDGE
City Manager

APPROVED AS TO FORM
SONIA R. CARVALHO
City Attorney

CONSULTANT

By: _____
John M. Funk
Assistant City Attorney

Name:
Title:

RECOMMENDED FOR APPROVAL

Nabil Saba
Executive Director
Public Works Agency

EXHIBIT A

SCOPE OF SERVICES

(Left Blank Intentionally – For RFP Purposes
Proposal Shall be Inserted here in Final Agreement)

EXHIBIT B

COMPENSATION

Fee Proposal including hourly rates
(from Consultant Proposal)

(Left Blank Intentionally – For RFP Purposes
Fee Proposal Shall be Inserted here in Final Agreement)

EXHIBIT C

CERTIFICATIONS

C-1 through C-3

(Left Blank Intentionally – For RFP Purposes
Required Certifications [Appendix Attachment 3-1 through 3-3]
Shall be Inserted here in Final Agreement)

Appendix
ATTACHMENT 3-1: NON-COLLUSION AFFIDAVIT
CERTIFICATIONS

NON-COLLUSION AFFIDAVIT
(Title 23 United States Code Section 112 and
Public Contract Code Section 7106)

To the CITY OF SANTA ANA DEPARTMENT OF PUBLIC WORKS

In accordance with Title 23 United States Code Section 112 and Public Contract Code 7106 the BIDDER declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the BIDDER has not directly or indirectly induced or solicited any other BIDDER to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived or agreed with any BIDDER or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the BIDDER has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the BIDDER or any BIDDER, or to fix any overhead, profit, or cost element of the bid price, or of that of any other BIDDER, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the BIDDER has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Note: The above Non-collusion Affidavit is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Non-collusion Affidavit. BIDDERS are cautioned that making a false certification may subject the certifier to criminal prosecution.

Signed _____

State of California
County of _____

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 20____, by _____, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Notary Public Signature

Notary Public Seal

Appendix
ATTACHMENT 3-2: NON-LOBBYING CERTIFICATION
CERTIFICATIONS

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

1. No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
2. If any funds other than federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence any officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant loan, loan or cooperative agreement, the undersigned shall complete and submit a "Disclosure of Lobbying Activities".

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U. S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such sub recipients shall certify and disclose accordingly.

Firm _____

Signed and Printed Name: _____

Title _____

Date _____

Appendix
ATTACHMENT 3-3: NON-DISCRIMINATION CERTIFICATION
CERTIFICATIONS

The undersigned consultant or corporate officer, during the performance of this contract, certifies as follows:

1. The Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The Consultant shall, in all solicitations or advertisements for employees placed by or on behalf of the Consultant, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. The Consultant shall send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Consultant's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Consultant shall comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
5. The Consultant shall furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his/her books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation, to ascertain compliance with such rules, regulations, and orders.
6. In the event of the Consultant's non-compliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, the contract may be canceled, terminated, or suspended in whole or in part and the Consultant may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulations, or order of the Secretary of Labor, or as otherwise provided by law.
7. The Consultant shall include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted

by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontract or purchase order as the administering agency may direct as means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in the event the Consultant becomes involved in, or is threatened with, litigation with a sub-consultant or vendor as a result of such direction by the administering agency, the Consultant may request that the United States enter into such litigation to protect the interests of the United States.

8. Pursuant to California Labor Code Section 1735, as added by Chapter 643 Stats. 1939, and as amended,

No discrimination shall be made in the employment of persons upon public works because of race, religious creed, color, national origin, ancestry, physical handicaps, mental condition, marital status, or sex of such persons, except as provided in Section 1420, and any consultant of public works violating this Section is subject to all the penalties imposed for a violation of the Chapter.

Signed: _____

Title: _____

Firm: _____

Date: _____

**Appendix
ATTACHMENT 1
SCOPE OF WORK**

**CITY OF SANTA ANA
REQUEST FOR PROPOSALS
FOR
ON-CALL STORMWATER PROJECT DESIGN SERVICES
RFP NO. 20-102**

INTRODUCTION/BACKGROUND

The City of Santa Ana is 27.2 square miles and is located in central Orange County, California. Santa Ana is the most densely populated city in the county, with a total population of 338,247 and approximately 12,435 people per square mile. Santa Ana sits within three major watersheds: the Newport Bay watershed, the Santa Ana River watershed, and the Anaheim Bay/Huntington Harbour watershed.

The City of Santa Ana is a co-permittee under the North Orange County Municipal Separate Storm Sewer System (MS4) Permit (Order No. R8-2009-0030, as amended by Order No. R8-2010-0062). The Permit presents a series of technical, legal, and regulatory challenges to the City and as a result, the City has established a rigorous stormwater compliance program. The Permit requires the City to reduce the discharge of pollutants in urban stormwater runoff to Waters of the US to the “Maximum Extent Practicable”. One of the most effective mechanisms in reducing pollutants and improving surface water quality is via the construction of structural Best Management Practices (BMPs). Stormwater infiltration, biotreatment, harvest and reuse, and diversion to the sanitary sewer are proven methods to achieve water quality goals and the City seeks to continue its proactive approach in implementing such projects. Additionally, structural BMPs can provide ancillary benefits such as increasing local water supplies, reducing flooding, and providing public education and recreational opportunities for Santa Ana residents.

The City desires to retain Civil Engineering Consultants on an as-needed or “on-call” basis to design complex, regional stormwater capture and treatment projects and perform other stormwater-related tasks as outlined in the Scope of Services below. Professional Services Agreements will be entered into with the selected Civil Engineering Consultants and the selected Consultants will be asked to provide professional engineering services proposals on a project-by-project basis, based on an agreed-upon scope of services and fees. After review of the proposals and associated costs, the City will issue a Notice to Proceed (NTP) for the selected Consultant to begin work on the project/task.

Funding sources for each project may vary. The City intends to seek local, State, and Federal grant moneys to fund regional stormwater projects and the selected firm shall comply with the funding agency’s requirements. Additionally, all work shall be done in accordance with the most

recently adopted North Orange County MS4 Permit and any other applicable local, State, and Federal laws.

Consultants shall utilize in-house staff and/or sub-consultants to complete assignments to meet the City's standards. For specialized work, for which the prime consultant requires a sub-consultant, the prime consultant shall serve as an administrative liaison between the City and the sub-consultant and shall include these administrative costs in their proposed project management fees.

Prime consultant mark-ups for sub-consultant work will not be allowed.

All proposals, plans, drawings, specifications, estimates, grant applications, modeling, studies, presentations, and/or reports will be subject to the final approval and satisfaction of the City. The selected consultants must have the expertise, experience, and demonstrated resources available to perform the work described in this RFP.

The City desires to enter into Agreements with the three top-ranking firms for an initial three (3)-year term, with a City option to exercise one (1), two (2)-year extension period. The annual amount to be expended under the Agreement will vary at the City's discretion and will be dependent on available grant funding opportunities and local match availability.

A. SCOPE OF SERVICES

Work under this Agreement may include, but is not limited to, the following tasks below:

1) Project Planning/Feasibility Studies

Firms shall be capable of performing the following tasks:

- a. Hydraulic computer modeling
- b. Stormwater sampling/monitoring/data analysis
- c. Flow monitoring studies
- d. Mapping services
- e. Hydrologic calculations
- f. Preparation/review of Water Quality Management Plans (WQMP)
- g. Conceptual design/drawing
- h. Percolation rate testing/geotechnical reporting
- i. Coordination with outside agencies
- j. Project presentations
- k. Researching existing field conditions and utilities
- l. Cost benefit analyses
- m. Technical feasibility and project impact analyses
- n. Drafting project planning documents
- o. Monitoring and alerting the City of potential grant funding opportunities

- o. Any other work required to successfully plan for projects and adequately assess project feasibility

2) Environmental Documentation/Permitting

Firms shall be capable of performing the following tasks:

- a. Prepare and file all necessary environmental documents and apply for all required permits including, but not limited to:
 - i. California Environmental Quality Act (CEQA)
 - ii. National Environmental Policy Act (NEPA)
 - iii. Federal Clean Water Act Section 401
 - iv. Federal Clean Water Act Section 404
 - v. California Department of Fish and Wildlife (CDFW) Section 1602
 - vi. Orange County Sanitation District (OCSD) Discharge Permits
 - vii. Orange County Flood Control District (OCFCD) Encroachment Permit

3) Project Design

Firms shall be capable of performing the following tasks:

- a. Land Surveying
- b. Civil-Engineering Design
- c. Structural Design
- d. Geotechnical Design
- e. Architectural Design
- f. Electrical Design
- g. Mechanical Design
- h. Instrumentation and Control Systems Design
- i. Landscape Architecture and Irrigation Design
- j. Detailed Engineering/Cost Estimation
- k. Preparation of construction bid documents and specifications
- l. Any other work required to complete project design

General Requirements and Project Deliverables

Design level survey and base mapping of the project site shall be prepared in US Customary English units by a California licensed Land Surveyor in accordance with the City guidelines and in Microstation V8i Computer Aided Design and Drafting (CADD) format. The horizontal datum shall be NAD 83 and the vertical datum shall be NAVD 88. All survey field notes shall be on forms provided by the City, shall be neatly completed in pencil, and shall become property of the City upon completion of the project. Informal field investigations including marking of removal areas may be required for some of the sidewalk, curb and gutter, and pavement replacement projects.

The Consultants shall contact manufacturers and/or contractors to verify the engineer's estimate prior to submitting to the City. Specifications shall be prepared in Microsoft Word and an electronic copy of the final version shall be furnished to the City. The City will provide the specification boiler plate to the Consultants. If requested, all preliminary and bid sets of plans shall be plotted on bond or velum paper using Microstation V8i CADD software program. All drawings shall be completed per the City of Santa Ana CADD Standards and any special provisions thereof. For interim submittals, the City may opt to receive only PDF versions of the plans for reviewing purposes. If so, the Consultant team will provided plans and/or specifications accordingly. All original plan sheets, the title sheet of the specifications, calculations, and reports shall be signed and stamped by the Consultants' licensed professional engineer responsible/in-charge of the project.

The Consultants shall monitor project progress, maintain project files, and control the quality of the work performed by in-house staff and/or sub-consultants. Incomplete (not meeting targeted completion) or poor quality work will not be accepted. The Consultants shall revise the documents within a revised schedule set by the City, which may require overtime. No additional compensation necessary for the consultant to complete this work to the satisfaction of the City shall be approved by the City for the required revisions. It is the responsibility of the Consultants to produce a professional-level quality of work product.

The Consultants shall coordinate plan check, design topics, permits and any other issues with the City, other Agencies, and all utility companies as required. At the direction of the City, the Consultants shall be the liaison with affected agencies.

The Consultants' services for plans specifications and estimating (PS&E) for engineering project preparation and special studies/investigations shall include and be in conformance with the latest editions of the following: Title 24 of the California Code of Regulations (California Building Standards Code), American Water Works Association, California Department of Transportation, the Americans with Disabilities Act, the City of Santa Ana Municipal Code (SAMC), professional Standards established by the City, and or Federal, State and local guidelines established in the project.

As part of the preparation of the PS&E, the consultant shall prepare the special provisions pertaining to the items of work included in the plans that are not addressed on the latest editions of the applicable standards.

The Consultants shall have complete responsibility for the accuracy and completeness of all documents and plans prepared. The plans will be reviewed by the City for conformity with the requirements of the Agreement. Reviews by the City do NOT include a detailed checking of design or accuracy with which such designs are depicted in the documents and plans. The documents and plans furnished under the Agreement shall be of a quality acceptable to the City of Santa Ana. The criteria for acceptance shall be a product of neat appearance, thoroughly organized, technically and grammatically correct, checked, dated, and having the maker and checker identified.

The Consultants shall have project management control procedures in effect during the entire time work is being performed under the Agreement. This task shall include the following:

- Project Management Plan – at the request of the City, the consultant shall provide a detailed management plan including information and coordination with other agencies to ensure compliance and completion of the (PS&E) packages. This plan shall include all milestones and task breakdown for each of the tasks and subtasks included therein. The Project Management Plan shall be submitted to the Project Manager for review and within 15 calendar days of the issued Notice to Proceed
- Deliverables
- Quality Control/Quality Assurance (QA/QC) Plan
- Project Schedule/Invoicing
- Project Correspondence

In case of conflict, ambiguities, discrepancies, errors, or omissions, the Consultant shall submit the matter to the City for clarification.

The Consultants shall perform engineering design services resulting in contract documents (plans, specifications and cost estimates “PS&E”) for various projects on an as-needed basis. However, work tasks may include studies or a variety of engineering tasks. If requested by the City, the Consultants shall provide a Work Plan, which includes a detailed schedule of the assigned project prior to the issuance of a Notice to Proceed (NTP) and/or Task Order. Specific Task Orders with NTP’s will be provided for project(s) at the discretion of the City. Work required per Task Order shall comply with the Scope of Services and additional provisions in each Task Order and this agreement.

4) Other Requirements

Firms shall be capable of performing the following tasks:

- a. Assistance with local, State, and Federal Grant applications
- b. Construction and bidding phase support including, but not limited to:
 - i. Responding to bidder inquiries during the bidding process, including preparation of any addenda. Following award of the construction contract, the Consultant may attend the pre-construction meeting.
 - ii. Reviewing and approving submittals and shop plan drawings. The Consultant shall complete shop plan drawing reviews within two (2) weeks of receipt. Contract Change Order reviews shall be completed within two (2) working days of receipt.
 - iii. Responding to written Requests for Information (RFI) to provide clarification or resolve discrepancies in the contract documents. Responses shall be completed within three (3) working days.
 - iv. Providing periodic field reviews and bringing to the attention of the City any defects or deficiencies in the work by the construction contractor which the Consultant has observed. The Consultant shall have no authority to issue instruction on behalf of the City, or to deputize another to do so.

- c. Attending meetings with City Staff or on behalf of the City
- d. Development of Project Performance Monitoring Plans, Quality Assurance Project Plans (QAPP), or similar
- e. Conduct site visits during pre-construction, construction, and post-construction project phases
- f. Construction management support
- g. Post-construction phase support including, but not limited to:
 - i. Local, State, and Federal Grant reporting assistance
 - ii. Stormwater sampling/monitoring/data analysis
 - iii. Stormwater quality data upload to California Environmental Data Exchange Network (CEDEN)
 - iv. Project effectiveness assessments
 - v. Provide as-built drawings to the City

B. PROJECT SCHEDULE AND PROGRESS

Upon request by the City, Consultants shall submit detailed project schedules outlining all project tasks and milestones. Progress review meetings shall be held at intervals deemed appropriate by the City. Consultants shall furnish two copies of all completed work or status update of partially completed work since the last progress review meeting. Progress reports shall be submitted monthly in electronic format indicating achievements and project schedule progress.

C. CITY RESPONSIBILITIES

The City will provide information in its possession relevant to the completion of the tasks outlined in this RFP. In general, this includes, but is not limited to:

- Furnish scope of work and provide general direction as needed for the assigned project
- Plan check coordination within the City
- Advertise, award, and administration of construction contract
- Documents, data, maps, or information relevant to the design of the project
- Electronic files (sample plans & specifications, City of Santa Ana's CADD Standards)
- Electronic files for title sheets and sheet borders
- Facilitate meeting space and coordination at City facilities

D. SPECIAL REQUIREMENTS

ADDITIONAL WORK

Upon request by the City, Consultants shall submit supplemental proposals for Additional Work not called for under the Scope of Services of this Agreement. Consultants must obtain written approval prior to commencing any Additional Work.

FEE PROPOSAL:

In addition to Section IV.B.3 (Submittal Requirements: Fee Proposal) the fee schedule shall be structured as follows:

The fee proposal shall include the firm's standard hourly fee schedule. A list of all positions and hourly rates required to perform the services in this RFP shall be described herein. At the request of the City, the Consultant shall provide a more detailed fee proposal when a specific project proposal is requested of the Consultant.

OTHER TERMS AND CONDITIONS:

1. The project will be implemented in compliance with the City of Santa Ana's policies, as well as Prevailing Wage law and applicable State and Federal Requirements.
2. The City regards the inclusion of California based designs, engineering, and construction professionals, facilities, and services as part of a Team to be highly desirable, but is not mandatory.
3. The City reserves the right to amend this Request for Proposal by addendum prior to the final dates of submission.
4. All reports, proposals, or other data or materials which are submitted shall become the sole property of the City of Santa Ana with the exception of the confidential Financial Capacity information and fee proposals.
5. All products used or developed in the execution of any contract resulting from this request will remain in the public domain at the completion of this project.
6. The City has an affirmative action program. The purpose of the affirmative action program is to encourage certified minority business enterprises and women business enterprises. All submitting firms must have established affirmative action programs approvable by the City. During the RFP stage, all firms will need to complete a "Certification of Non-Discrimination by Contractors" for each firm on their team.

SPECIAL REQUIREMENTS (ATTACHMENT 4)

This project may utilize California Department of Transportation (Caltrans) grant funds and shall therefore comply with all state and federal requirements. The below referenced forms included in Attachment 4 (Additional Provisions) of the Appendix must be completed in their entirety and submitted with your proposal:

- LAPM Exhibit 10-H: Sample Cost Proposal
- LAPM Exhibit 10-O1: Consultant Proposal DBE Commitment
- LAPM Exhibit 10-O2: Consultant Contract DBE Commitment

- **LAPM Exhibit 10-K: Consultant Certification of Contract Costs and Financial management System**

Please reference Caltrans Local Assistance Procedure Manual, Consultant Selection, Chapter 10, for further instructions and guidelines pertaining to the completion of these forms: <https://dot.ca.gov/-/media/dot-media/programs/local-assistance/documents/lapm/ch10.pdf>

COMPLIANCE WITH REQUIREMENTS OF FUNDING AGENCY:

This agreement may be funded with state and/or federal grant funds administered by Caltrans. Proposer shall comply with all requirements as they pertain to the use of these funds. Refer to Attachment 4 for Caltrans required forms, including Exhibit 10-H – Sample Cost Proposal (H2 for On-Call Contracts) in the Appendix of this RFP.

DISADVANTAGED BUSINESS ENTERPRISES (DBE) GOAL:

The Agency has established a DBE goal for this Contract. Proposers are encouraged to obtain DBE participation for this contract. Refer to Exhibit 10-I – Notice to Proposers DBE Information included in the Appendix of this RFP. Proposers must submit Exhibits 10-O1 & 10-O2 – Consultant Proposal & Contract DBE Commitment to demonstrate compliance with Agency's DBE goal.

CONSULTANT AUDIT AND REVIEW PROCESS:

Prior to contract award and dependent on contract award amount, the selected Consultant shall be subject to an audit or review by Caltrans' Audit and Investigations (A&I), other state audit organizations, or the federal government. The selected Consultant shall complete Exhibit 10-K – Consultant Annual Certification of Indirect Costs and Financial Management System for all prime and sub-consultants in the Appendix of this RFP. To independently download any of the Caltrans Exhibits required per this RFP, visit: <https://dot.ca.gov/programs/local-assistance/forms/local-assistance-procedures-manual-forms>

**Appendix
ATTACHMENT 4
CALTRANS EXHIBITS**

EXHIBIT 10-H1 COST PROPOSAL Page 1 of 3

COST-PLUS-FIXED FEE OR LUMP SUM OR FIRM FIXED PRICE CONTRACTS

(DESIGN, ENGINEERING AND ENVIRONMENTAL STUDIES)

Note: Mark-ups are Not Allowed

☒ Prime Consultant ☐ Subconsultant ☐ 2nd Tier Subconsultant

Consultant _____

Project No. _____ Contract No. _____ Date _____

DIRECT LABOR

Classification/Title	Name	Hours	Actual Hourly Rate	Total
_____	_____	_____	_____	\$ 0.00
_____	_____	_____	_____	\$ 0.00
_____	_____	_____	_____	\$ 0.00
_____	_____	_____	_____	\$ 0.00

LABOR COSTS

a) Subtotal Direct Labor Costs _____ \$ 0.00

b) Anticipated Salary Increases (see page 2 for calculation) _____

c) **TOTAL DIRECT LABOR COSTS [(a) + (b)]** _____ \$ 0.00**INDIRECT COSTS**d) Fringe Benefits (Rate: 0.00%) e) Total Fringe Benefits [(c) x (d)] _____ \$ 0.00f) Overhead (Rate: 0.00%) g) Overhead [(c) x (f)] _____ \$ 0.00h) General and Administrative (Rate: 0.00%) i) Gen & Admin [(c) x (h)] _____ \$ 0.00j) **TOTAL INDIRECT COSTS [(e) + (g) + (i)]** _____ \$ 0.00**FIXED FEE**k) **TOTAL FIXED FEE [(c) + (j)] x fixed fee 0.00%]** _____ \$ 0.00**l) CONSULTANT'S OTHER DIRECT COSTS (ODC) – ITEMIZE (Add additional pages if necessary)**

Description of Item	Quantity	Unit	Unit Cost	Total
Mileage Costs				\$ 0.00
Equipment Rental and Supplies				\$ 0.00
Permit Fees				\$ 0.00
Plan Sheets				\$ 0.00
Test				\$ 0.00

l) **TOTAL OTHER DIRECT COSTS** _____ \$ 0.00**m) SUBCONSULTANTS' COSTS (Add additional pages if necessary)**

Subconsultant 1: _____

Subconsultant 2: _____

Subconsultant 3: _____

Subconsultant 4: _____

m) **TOTAL SUBCONSULTANTS' COSTS** _____ \$ 0.00n) **TOTAL OTHER DIRECT COSTS INCLUDING SUBCONSULTANTS [(l)+(m)]** _____ \$ 0.00**TOTAL COST [(c) + (j) + (k) + (n)]** _____ \$ 0.00**NOTES:**

- Key personnel **must** be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
- The cost proposal format shall not be amended. Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans.
- Anticipated salary increases calculation (page 2) must accompany.

EXHIBIT 10-H1 COST PROPOSAL Page 2 of 3**COST-PLUS-FIXED FEE OR LUMP SUM OR FIRM FIXED PRICE CONTRACTS**

(CALCULATIONS FOR ANTICIPATED SALARY INCREASES)

1. Calculate Average Hourly Rate for 1st year of the contract (Direct Labor Subtotal divided by total hours)

Direct Labor Subtotal per Cost Proposal	Total Hours per Cost Proposal		Avg Hourly Rate	5 Year Contract Duration
\$250,000.00	500	=	\$50.00	Year 1 Avg Hourly Rate

2. Calculate hourly rate for all years (Increase the Average Hourly Rate for a year by proposed escalation %)

	Avg Hourly Rate		Proposed Escalation			
Year 1	\$50.00	+	2%	=	\$51.00	Year 2 Avg Hourly Rate
Year 2	\$51.00	+	2%	=	\$52.02	Year 3 Avg Hourly Rate
Year 3	\$52.02	+	2%	=	\$53.06	Year 4 Avg Hourly Rate
Year 4	\$53.06	+	2%	=	\$54.12	Year 5 Avg Hourly Rate

3. Calculate estimated hours per year (Multiply estimate % each year by total hours)

	Estimated % Completed Each Year		Total Hours per Cost Proposal		Total Hours per Year	
Year 1	20.0%	*	5000	=	1000	Estimated Hours Year 1
Year 2	40.0%	*	5000	=	2000	Estimated Hours Year 2
Year 3	15.0%	*	5000	=	750	Estimated Hours Year 3
Year 4	15.0%	*	5000	=	750	Estimated Hours Year 4
Year 5	100%	*	5000	=	500	Estimated Hours Year 5
Total	100%		Total	=	5000	

4. Calculate Total Costs including Escalation (Multiply Average Hourly Rate by the number of hours)

	Avg Hourly Rate (calculated above)		Estimated hours (calculated above)		Cost per Year	
Year 1	\$50.00	*	1000	=	\$50,000.00	Estimated Hours Year 1
Year 2	\$51.00	*	2000	=	\$102,000.00	Estimated Hours Year 2
Year 3	\$52.02	*	750	=	\$39,015.00	Estimated Hours Year 3
Year 4	\$53.06	*	750	=	\$39,795.30	Estimated Hours Year 4
Year 5	\$54.12	*	500	=	\$27,060.80	Estimated Hours Year 5
Total Direct Labor Cost with Escalation				=	\$257,871.10	
Direct Labor Subtotal before Escalation				=	\$250,000.00	
Estimated total of Direct Labor Salary Increase				=	\$7,871.10	Transfer to Page 1

NOTES:

1. This is not the only way to estimate salary increases. Other methods will be accepted if they clearly indicate the % increase, the # of years of the contract, and a breakdown of the labor to be performed each year.
2. An estimation that is based on direct labor multiplied by salary increase % multiplied by the # of years is not acceptable.
(i.e. \$250,000 x 2% x 5 yrs = \$25,000 is not an acceptable methodology)
3. This assumes that one year will be worked at the rate on the cost proposal before salary increases are granted.
4. Calculations for anticipated salary escalation must be provided.

EXHIBIT 10-H1 COST PROPOSAL Page 3 of 3

Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

1. Generally Accepted Accounting Principles (GAAP)
2. Terms and conditions of the contract
3. [Title 23 United States Code Section 112](#) - Letting of Contracts
4. [48 Code of Federal Regulations Part 31](#) - Contract Cost Principles and Procedures
5. [23 Code of Federal Regulations Part 172](#) - Procurement, Management, and Administration of Engineering and Design Related Service
6. [48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board](#) (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement. Local governments are responsible for applying only cognizant agency approved or Caltrans accepted Indirect Cost Rate(s).

Prime Consultant or Subconsultant Certifying:

Name: _____ Title *: _____

Signature : _____ Date of Certification (mm/dd/yyyy): _____

Email: _____ Phone Number: _____

Address: _____

*An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract

List services the consultant is providing under the proposed contract:

--

EXHIBIT 10-H2 COST PROPOSAL Page 1 of 3

SPECIFIC RATE OF COMPENSATION (USE FOR ON-CALL OR AS-NEEDED CONTRACTS)
(CONSTRUCTION ENGINEERING AND INSPECTION CONTRACTS)

Note: Mark-ups are Not Allowed

Consultant _____ ☐ Prime Consultant ☐ Subconsultant ☐ 2nd Tier Subconsultant

Project No. _____ Contract No. _____ Participation Amount \$ _____ Date _____

For Combined Rate	Fringe Benefit % + General & Administrative %	=	Combined ICR%
OR			
For Home Office Rate	Fringe Benefit % + General & Administrative %	=	Home Office ICR%
For Field Office Rate	Fringe Benefit % + General & Administrative %	=	Field Office ICR%
Fee			%

BILLING INFORMATION

Name/Job Title/Classification ¹	Hourly Billing Rates ²			Effective Date of Hourly Rate From	To	Actual or Avg. Hourly Rate ⁴	% or \$ Increase	Hourly Range - for Classifications Only
	Straight ³	OT (1.5x)	OT (2x)					
John Doe – Project Manager * Civil Engineer II	\$0.00	\$0.00	\$0.00	01/01/2016	12/31/2016	\$0.00	0.0%	Not Applicable
Sue Jones – Construction Engineer/Inspector Engineer I	\$0.00	\$0.00	\$0.00	01/01/2016	12/31/2016	\$0.00	0.0%	Not Applicable
Buddy Black – Claims Engineer Engineer III	\$0.00	\$0.00	\$0.00	01/01/2016	12/31/2016	\$0.00	0.0%	Not Applicable
Land Surveyor **	\$0.00	\$0.00	\$0.00	01/01/2016	12/31/2016	\$0.00	0.0%	\$00 - \$00
Technician	\$0.00	\$0.00	\$0.00	01/01/2016	12/31/2016	\$0.00	0.0%	\$00 - \$00

(Add pages as necessary)

NOTES:

1. Key personnel must be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals.
2. The cost proposal format shall not be amended.
3. Billing rate = actual hourly rate * (1 + ICR) * (1 + Fee). Indirect cost rates shall be updated on an annual basis in accordance with the consultant's annual accounting period and established by a cognizant agency or accepted by Caltrans. All costs must comply with the Federal cost principles for reimbursement.
4. For named employees and key personnel enter the actual hourly rate. For classifications only, enter the Average Hourly Rate for that classification.

EXHIBIT 10-H2 COST PROPOSAL Page 2 of 3

SPECIFIC RATE OF COMPENSATION (USE FOR ON-CALL OR AS-NEEDED CONTRACTS)
(CONSTRUCTION ENGINEERING AND INSPECTION CONTRACTS)

Consultant _____ ☐ Prime Consultant ☐ Subconsultant

Project No. _____ Contract No. _____ Date _____

SCHEDULE OF OTHER DIRECT COST ITEMS (Add additional pages as necessary)				
Description of Item	Quantity	Unit	Unit Cost	Total
Mileage Costs	2	1	\$ 10.00	\$ 20.00
Equipment Rental and Supplies	2		\$ 20.00	\$ 40.00
Permit Fees	3		\$ 30.00	\$ 90.00
Plan Sheets				\$ 0.00
Test				\$ 0.00
Vehicle				\$ 0.00
Subconsultant 1:				\$ 100.00
Subconsultant 2:				\$ 200.00
Subconsultant 3:				\$ 300.00
Subconsultant 4:				\$ 500.00
Subconsultant 5:				

Note: Add additional pages if necessary.

NOTES:

1. List other direct cost items with estimated costs. These costs should be competitive in their respective industries and supported with appropriate documentation.
2. Proposed ODC items should be consistently billed regardless of client and contract type.
3. Items when incurred for the same purpose, in like circumstance, should not be included in any indirect cost pool or in the overhead rate.
4. Items such as special tooling, will be reimbursed at actual cost with supporting documentation (invoice).
5. Items listed above that would be considered "tools of the trade" are not reimbursable as other direct cost.
6. Travel related costs should be pre-approved by the contracting agency and shall not exceed current State Department of Personnel Administration rules.

7. If mileage is claimed, the rate should be properly supported by the consultant's calculation of their actual costs for company vehicles. In addition, the miles claimed should be supported by mileage logs.
8. If a consultant proposes rental costs for a vehicle, the company must demonstrate that this is its standard procedure for all of their contracts and that they do not own any vehicles that could be used for the same purpose.
9. The cost proposal format shall not be amended. All costs must comply with the Federal cost principles.
10. Add additional pages if necessary.
11. Subconsultants must provide their own cost proposals.

EXHIBIT 10-H2 COST PROPOSAL Page 3 of 3**Certification of Direct Costs:**

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

7. Generally Accepted Accounting Principles (GAAP)
8. Terms and conditions of the contract
9. [Title 23 United States Code Section 112](#) - Letting of Contracts
10. [48 Code of Federal Regulations Part 31](#) - Contract Cost Principles and Procedures
11. [23 Code of Federal Regulations Part 172](#) - Procurement, Management, and Administration of Engineering and Design Related Service
12. [48 Code of Federal Regulations Part 9904 - Cost Accounting Standards Board](#) (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Prime Consultant or Subconsultant Certifying:

Name: _____ Title*: _____
Signature : _____ Date of Certification (mm/dd/yyyy): _____
Email: _____ Phone Number: _____
Address: _____

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

EXHIBIT 10-H3 COST PROPOSAL Page 1 of 2

COST PER UNIT OF WORK CONTRACTS

(GEOTECHNICAL AND MATERIAL TESTING)

Note: Mark-ups are Not Allowed

☒ Prime Consultant☒ Subconsultant☒ 2nd Tier Subconsultant

Consultant _____

Project No. _____ Contract No. _____ Date _____

Unit/Item of Work:**(Example: Log of Test Boring for Soils Report, or ADL Testing for Hazardous Waste Material Study) Include as many Items as necessary.**

DIRECT LABOR	Hours	Billing Hourly Rate (\$)	Total (\$)
Professional (Classification)*	_____	_____	_____
Sub-professional/Technical**	_____	_____	_____
EQUIPMENT 1 (with Operator)	_____	_____	_____
EQUIPMENT 2 (with Operator)	_____	_____	_____

Consultant's Other Direct Costs (ODC) – Itemize:

Description of Item	Quantity	Unit	Unit Cost	Total
Mileage Costs	2	1	\$ 10.00	\$ 20.00
Equipment Rental and Supplies	2		\$ 20.00	\$ 40.00
Permit Fees	3		\$ 30.00	\$ 90.00
Plan Sheets				\$ 0.00
Test				\$ 0.00
Subconsultant 1:				\$ 100.00
Subconsultant 2:				\$ 200.00
Subconsultant 3:				\$ 300.00
Subconsultant 4:				\$ 500.00
Subconsultant 5:				

Note: Attach additional pages if necessary.

TOTAL COST PER UNIT OF WORK _____**NOTES:**

1. Key personnel **must** be marked with an asterisk (*) and employees that are subject to prevailing wage requirements must be marked with two asterisks (**). All costs must comply with the Federal cost principles. Subconsultants will provide their own cost proposals. The cost proposal format shall not be amended.
2. Hourly billing rates should include prevailing wage rates and be consistent with publicly advertised rates charged to all clients (Commercial, Private or Public).
3. Mobilization/De-mobilization is based on site location and number and frequency of tests/items.
4. ODC items shall be based on actual costs and supported by historical data and other documentation.
5. ODC items that would be considered "tools of the trade" are not reimbursable.
6. Billing Hourly Rates must be actual, allowable, and reasonable.

EXHIBIT 10-H3 COST PROPOSAL Page 2 of 2

Certification of Direct Costs:

I, the undersigned, certify to the best of my knowledge and belief that all direct costs identified on the cost proposal(s) in this contract are actual, reasonable, allowable, and allocable to the contract in accordance with the contract terms and the following requirements:

13. Generally Accepted Accounting Principles (GAAP)
14. Terms and conditions of the contract
15. [Title 23 United States Code Section 112](#) - Letting of Contracts
16. [48 Code of Federal Regulations Part 31](#) - Contract Cost Principles and Procedures
17. [23 Code of Federal Regulations Part 172](#) - Procurement, Management, and Administration of Engineering and Design Related Service
18. [48 Code of Federal Regulation Part 9904 - Cost Accounting Standards Board](#) (when applicable)

All costs must be applied consistently and fairly to all contracts. All documentation of compliance must be retained in the project files and be in compliance with applicable federal and state requirements. Costs that are noncompliant with the federal and state requirements are not eligible for reimbursement.

Prime Consultant or Subconsultant Certifying:

Name: _____ Title*: _____

Signature : _____ Date of Certification (mm/dd/yyyy): _____

Email: _____ Phone Number: _____

Address: _____

* An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President or a Chief Financial Officer, or equivalent, who has authority to represent the financial information utilized to establish the cost proposal for the contract.

List services the consultant is providing under the proposed contract:

--

EXHIBIT 10-I NOTICE TO PROPOSERS DBE INFORMATION

(Federally funded projects only)

The Agency has established a DBE goal for this Contract of 0.08%**1. TERMS AS USED IN THIS DOCUMENT**

- The term “Disadvantaged Business Enterprise” or “DBE” means a for-profit small business concern owned and controlled by a socially and economically disadvantaged person(s) as defined in Title 49, Code of Federal Regulations (CFR), Part 26.5.
- The term “Agreement” also means “Contract.”
- Agency also means the local entity entering into this contract with the Contractor or Consultant.
- The term “Small Business” or “SB” is as defined in 49 CFR 26.65.

2. AUTHORITY AND RESPONSIBILITY

- A. DBEs and other small businesses are strongly encouraged to participate in the performance of Contracts financed in whole or in part with federal funds (See 49 CFR 26, “Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs”). The Consultant must ensure that DBEs and other small businesses have the opportunity to participate in the performance of the work that is the subject of this solicitation and should take all necessary and reasonable steps for this assurance. The proposer must not discriminate on the basis of race, color, national origin, or sex in the award and performance of subcontracts.
- B. Proposers are encouraged to use services offered by financial institutions owned and controlled by DBEs.

3. SUBMISSION OF DBE INFORMATION

If there is a DBE goal on the contract, Exhibit 10-O1 *Consultant Proposal DBE Commitment* must be included in the Proposal. In order for a proposer to be considered responsible and responsive, the proposer must make good faith efforts to meet the goal established for the contract. If the goal is not met, the proposer must document adequate good faith efforts. All DBE participation will be counted towards **meeting** the contract goal; therefore, all DBE participation shall be collected and reported.

Exhibit 10-O2 *Consultant Contract DBE Information* must be included in **best qualified consultant’s executed consultant contract**. Even if no DBE participation will be reported, the successful proposer must execute and return the form.

4. DBE PARTICIPATION GENERAL INFORMATION

It is the proposer’s responsibility to be fully informed regarding the requirements of 49 CFR, Part 26, and the Department’s DBE program developed pursuant to the regulations. Particular attention is directed to the following:

- A. A DBE must be a small business firm defined pursuant to 13 CFR 121 and be certified through the California Unified Certification Program (CUCP).
- B. A certified DBE may participate as a prime consultant, subconsultant, joint venture partner, as a vendor of material or supplies, or as a trucking company.
- C. A DBE proposer not proposing as a joint venture with a non-DBE, will be required to document one or a combination of the following:
 - 1. The proposer is a DBE and will meet the goal by performing work with its own forces.
 - 2. The proposer will meet the goal through work performed by DBE subconsultants, suppliers or trucking companies.
 - 3. The proposer, prior to proposing, made adequate good faith efforts to meet the goal.

- D. A DBE joint venture partner must be responsible for specific contract items of work or clearly defined portions thereof. Responsibility means actually performing, managing, and supervising the work with its own forces. The DBE joint venture partner must share in the capital contribution, control, management, risks and profits of the joint venture commensurate with its ownership interest.
- E. A DBE must perform a commercially useful function pursuant to 49 CFR 26.55, that is, a DBE firm must be responsible for the execution of a distinct element of the work and must carry out its responsibility by actually performing, managing and supervising the work.
- F. The proposer shall list only one subconsultant for each portion of work as defined in their proposal and all DBE subconsultants should be listed in the bid/cost proposal list of subconsultants.
- G. A prime consultant who is a certified DBE is eligible to claim all of the work in the Contract toward the DBE participation except that portion of the work to be performed by non-DBE subconsultants.

5. RESOURCES

- A. The CUCP database includes the certified DBEs from all certifying agencies participating in the CUCP. If you believe a firm is certified that cannot be located on the database, please contact the Caltrans Office of Certification toll free number 1-866-810-6346 for assistance.
- B. Access the CUCP database from the Department of Transportation, Office of Civil Rights [website](#)
 - 1. Click on the link titled Disadvantaged Business Enterprise;
 - 2. Click on Search for a DBE Firm link;
 - 3. Click on [Access to the DBE Query Form](#) located on the first line in the center of the page.

Searches can be performed by one or more criteria. Follow instructions on the screen.

6. MATERIALS OR SUPPLIES PURCHASED FROM DBES COUNT TOWARDS THE DBE GOAL UNDER THE FOLLOWING CONDITIONS:

- A. If the materials or supplies are obtained from a DBE manufacturer, count 100 percent of the cost of the materials or supplies. A DBE manufacturer is a firm that operates or maintains a factory, or establishment that produces on the premises the materials, supplies, articles, or equipment required under the Contract and of the general character described by the specifications.
- B. If the materials or supplies purchased from a DBE regular dealer, count 60 percent of the cost of the materials or supplies. A DBE regular dealer is a firm that owns, operates or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business. To be a DBE regular dealer, the firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question. A person may be a DBE regular dealer in such bulk items as petroleum products, steel, cement, gravel, stone or asphalt without owning, operating or maintaining a place of business provided in this section.
- C. If the person both owns and operates distribution equipment for the products, any supplementing of regular dealers' own distribution equipment shall be, by a long-term lease agreement and not an ad hoc or Agreement-by-Agreement basis. Packagers, brokers, manufacturers' representatives, or other persons who arrange or expedite transactions are not DBE regular dealers within the meaning of this section.
- D. Materials or supplies purchased from a DBE, which is neither a manufacturer nor a regular dealer, will be limited to the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on the job site, provided the fees are reasonable and not excessive as compared with fees charged for similar services.

EXHIBIT 10-01 CONSULTANT PROPOSAL DBE COMMITMENT

1. Local Agency: City of Santa Ana 2. Contract DBE Goal: 0.08%
 3. Project Description: On-Call Stormwater Project Design Services
 4. Project Location: Citywide in Santa Ana, California
 5. Consultant's Name: _____ 6. Prime Certified DBE: ☒

7. Description of Work, Service, or Materials Supplied	8. DBE Certification Number	9. DBE Contact Information	10. DBE %

Local Agency to Complete this Section 17. Local Agency Contract Number: _____ 18. Federal-Aid Project Number: _____ 19. Proposed Contract Execution Date: _____ 20. Consultant's Ranking after Evaluation: _____ Local Agency certifies that all DBE certifications are valid and information on this form is complete and accurate. _____ _____ _____		11. TOTAL CLAIMED DBE PARTICIPATION % IMPORTANT: Identify all DBE firms being claimed for credit, regardless of tier. Written confirmation of each listed DBE is required. 12. Preparer's Signature _____ 13. Date _____ 14. Preparer's Name _____ 15. Phone _____ 16. Preparer's Title _____
---	--	--

DISTRIBUTION: Original – Included with consultant's proposal to local agency.

ADA Notice: For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

INSTRUCTIONS – CONSULTANT PROPOSAL DBE COMMITMENT**CONSULTANT SECTION**

- 1. Local Agency** - Enter the name of the local or regional agency that is funding the contract.
- 2. Contract DBE Goal** - Enter the contract DBE goal percentage as it appears on the project advertisement.
- 3. Project Location** - Enter the project location as it appears on the project advertisement.
- 4. Project Description** - Enter the project description as it appears on the project advertisement (Bridge Rehab, Seismic Rehab, Overlay, Widening, etc.).
- 5. Consultant's Name** - Enter the consultant's firm name.
- 6. Prime Certified DBE** - Check box if prime contractor is a certified DBE.
- 7. Description of Work, Services, or Materials Supplied** - Enter description of work, services, or materials to be provided. Indicate all work to be performed by DBEs including work performed by the prime consultant's own forces, if the prime is a DBE. If 100% of the item is not to be performed or furnished by the DBE, describe the exact portion to be performed or furnished by the DBE. See LAPM Chapter 9 to determine how to count the participation of DBE firms.
- 8. DBE Certification Number** - Enter the DBE's Certification Identification Number. All DBEs must be certified on the date bids are opened.
- 9. DBE Contact Information** - Enter the name, address, and phone number of all DBE subcontracted consultants. Also, enter the prime consultant's name and phone number, if the prime is a DBE.
- 10. DBE %** - Percent participation of work to be performed or service provided by a DBE. Include the prime consultant if the prime is a DBE. See LAPM Chapter 9 for how to count full/partial participation.
- 11. Total Claimed DBE Participation %** - Enter the total DBE participation claimed. If the total % claimed is less than item "Contract DBE Goal," an adequately documented Good Faith Effort (GFE) is required (see Exhibit 15-H DBE Information - Good Faith Efforts of the LAPM).
- 12. Preparer's Signature** - The person completing the DBE commitment form on behalf of the consultant's firm must sign their name.
- 13. Date** - Enter the date the DBE commitment form is signed by the consultant's preparer.
- 14. Preparer's Name** - Enter the name of the person preparing and signing the consultant's DBE commitment form.
- 15. Phone** - Enter the area code and phone number of the person signing the consultant's DBE commitment form.
- 16. Preparer's Title** - Enter the position/title of the person signing the consultant's DBE commitment form.

LOCAL AGENCY SECTION

- 17. Local Agency Contract Number** - Enter the Local Agency contract number or identifier.
- 18. Federal-Aid Project Number** - Enter the Federal-Aid Project Number.
- 19. Proposed Contract Execution Date** - Enter the proposed contract execution date.
- 20. Consultant's Ranking after Evaluation** - Enter consultant's ranking after all submittals/consultants are evaluated. Use this as a quick comparison for evaluating most qualified consultant.
- 21. Local Agency Representative's Signature** - The person completing this section of the form for the Local Agency must sign their name to certify that the information in this and the Consultant Section of this form is complete and accurate.
- 22. Date** - Enter the date the DBE commitment form is signed by the Local Agency Representative.
- 23. Local Agency Representative's Name** - Enter the name of the Local Agency Representative certifying the consultant's DBE commitment form.
- 24. Phone** - Enter the area code and phone number of the person signing the consultant's DBE commitment form.
- 25. Local Agency Representative Title** - Enter the position/title of the Local Agency Representative certifying the consultant's DBE commitment form.

EXHIBIT 10-O2 CONSULTANT CONTRACT DBE COMMITMENT

1. Local Agency: City of Santa Ana 2. Contract DBE Goal: 0.08%
 3. Project Description: On-Call Stormwater Project Design Services
 4. Project Location: Citywide in Santa Ana, California
 5. Consultant's Name: _____ 6. Prime Certified DBE: ☐ 7. Total Contract Award Amount: _____
 8. Total Dollar Amount for **ALL** Subconsultants: _____ 9. Total Number of **ALL** Subconsultants: _____

10. Description of Work, Service, or Materials Supplied	11. DBE Certification Number	12. DBE Contact Information	13. DBE Dollar Amount
Local Agency to Complete this Section			
20. Local Agency Contract Number: _____ 21. Federal-Aid Project Number: _____ 22. Contract Execution Date: _____ Local Agency certifies that all DBE certifications are valid and information on this form is complete and accurate.			\$
			%
23. Local Agency Representative's Signature _____ 24. Date _____ 25. Local Agency Representative's Name _____ 26. Phone _____ 27. Local Agency Representative's Title _____			14. TOTAL CLAIMED DBE PARTICIPATION IMPORTANT: Identify all DBE firms being claimed for credit, regardless of tier. Written confirmation of each listed DBE is required. 15. Preparer's Signature _____ 16. Date _____ 17. Preparer's Name _____ 18. Phone _____ 19. Preparer's Title _____

DISTRIBUTION: 1. Original – Local Agency
 2. Copy – Caltrans District Local Assistance Engineer (DLAE). Failure to submit to DLAE within 30 days of contract execution may result in de-obligation of federal funds on contract.

ADA Notice: For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

INSTRUCTIONS – CONSULTANT CONTRACT DBE COMMITMENT**CONSULTANT SECTION**

- 1. Local Agency** - Enter the name of the local or regional agency that is funding the contract.
- 2. Contract DBE Goal** - Enter the contract DBE goal percentage as it appears on the project advertisement.
- 3. Project Description** - Enter the project description as it appears on the project advertisement (Bridge Rehab, Seismic Rehab, Overlay, Widening, etc).
- 4. Project Location** - Enter the project location as it appears on the project advertisement.
- 5. Consultant's Name** - Enter the consultant's firm name.
- 6. Prime Certified DBE** - Check box if prime contractor is a certified DBE.
- 7. Total Contract Award Amount** - Enter the total contract award dollar amount for the prime consultant.
- 8. Total Dollar Amount for ALL Subconsultants** – Enter the total dollar amount for all subcontracted consultants. SUM = (DBEs + all Non-DBEs). Do not include the prime consultant information in this count.
- 9. Total number of ALL subconsultants** – Enter the total number of all subcontracted consultants. SUM = (DBEs + all Non-DBEs). Do not include the prime consultant information in this count.
- 10. Description of Work, Services, or Materials Supplied** - Enter description of work, services, or materials to be provided. Indicate all work to be performed by DBEs including work performed by the prime consultant's own forces, if the prime is a DBE. If 100% of the item is not to be performed or furnished by the DBE, describe the exact portion to be performed or furnished by the DBE. See LAPM Chapter 9 to determine how to count the participation of DBE firms.
- 11. DBE Certification Number** - Enter the DBE's Certification Identification Number. All DBEs must be certified on the date bids are opened.
- 12. DBE Contact Information** - Enter the name, address, and phone number of all DBE subcontracted consultants. Also, enter the prime consultant's name and phone number, if the prime is a DBE.
- 13. DBE Dollar Amount** - Enter the subcontracted dollar amount of the work to be performed or service to be provided. Include the prime consultant if the prime is a DBE. See LAPM Chapter 9 for how to count full/partial participation.
- 14. Total Claimed DBE Participation** - \$: Enter the total dollar amounts entered in the "DBE Dollar Amount" column. %: Enter the total DBE participation claimed ("Total Participation Dollars Claimed" divided by item "Total Contract Award Amount"). If the total % claimed is less than item "Contract DBE Goal," an adequately documented Good Faith Effort (GFE) is required (see Exhibit 15-H DBE Information - Good Faith Efforts of the LAPM).
- 15. Preparer's Signature** - The person completing the DBE commitment form on behalf of the consultant's firm must sign their name.
- 16. Date** - Enter the date the DBE commitment form is signed by the consultant's preparer.
- 17. Preparer's Name** - Enter the name of the person preparing and signing the consultant's DBE commitment form.
- 18. Phone** - Enter the area code and phone number of the person signing the consultant's DBE commitment form.
- 19. Preparer's Title** - Enter the position/title of the person signing the consultant's DBE commitment form.

LOCAL AGENCY SECTION

- 20. Local Agency Contract Number** - Enter the Local Agency contract number or identifier.
- 21. Federal-Aid Project Number** - Enter the Federal-Aid Project Number.
- 22. Contract Execution Date** - Enter the date the contract was executed.
- 23. Local Agency Representative's Signature** - The person completing this section of the form for the Local Agency must sign their name to certify that the information in this and the Consultant Section of this form is complete and accurate.
- 24. Date** - Enter the date the DBE commitment form is signed by the Local Agency Representative.
- 25. Local Agency Representative's Name** - Enter the name of the Local Agency Representative certifying the consultant's DBE commitment form.
- 26. Phone** - Enter the area code and phone number of the person signing the consultant's DBE commitment form.
- 27. Local Agency Representative Title** - Enter the position/title of the Local Agency Representative certifying the consultant's DBE commitment form.

**EXHIBIT 10-K CONSULTANT ANNUAL CERTIFICATION OF
INDIRECT COSTS AND FINANCIAL MANAGEMENT SYSTEM**

(Note: If a Safe Harbor Indirect Cost Rate is approved, this form is not required.)

Consultant's Full Legal Name: _____

Important: Consultant means the individual or consultant providing engineering and design related services as a party of a contract with a recipient or sub-recipient of Federal assistance. Therefore, the Indirect Cost Rate(s) shall not be combined with its parent company or subsidiaries.

Indirect Cost Rate:

Combined Rate _____ % **OR**

Home Office Rate _____ % and Field Office Rate (if applicable) _____ %

Facilities Capital Cost of Money _____ % (if applicable)

Fiscal period * _____

* Fiscal period is annual one year applicable accounting period that the Indirect Cost Rate was developed (not the contract period). The Indirect Cost Rate is based on the consultant's one-year applicable accounting period for which financial statements are regularly prepared by the consultant.

I have reviewed the proposal to establish an Indirect Cost Rate(s) for the **fiscal period** as specified above and have determined to the best of my knowledge and belief that:

- All costs included in the cost proposal to establish the indirect cost rate(s) are allowable in accordance with the cost principles of the Federal Acquisition Regulation (FAR) 48, Code of Federal Regulations (CFR), Chapter 1, Part 31 (48 CFR Part 31);
- The cost proposal does not include any costs which are expressly unallowable under the cost principles of 48 CFR Part 31;
- The accounting treatment and billing of prevailing wage delta costs are consistent with our prevailing wage policy as either direct labor, indirect costs, or other direct costs on all federally-funded A&E Consultant Contracts.
- All known material transactions or events that have occurred subsequent to year-end affecting the consultant's ownership, organization, and indirect cost rates have been disclosed as of the date of this certification.

I am providing the required and applicable documents as instructed on Exhibit 10-A.

Financial Management System:

Our labor charging, job costing, and accounting systems meet the standards for financial reporting, accounting records, and internal control adequate to demonstrate that costs claimed have been incurred, appropriately accounted for, are allocable to the contract, and comply with the federal requirements as set forth in [Title 23 United States Code \(U.S.C.\) Section 112\(b\)\(2\); 48 CFR Part 31.201-2\(d\); 23 CFR, Chapter 1, Part 172.11\(a\)\(2\);](#) and all applicable state and federal rules and regulations.

Our financial management system has the following attributes:

- Account numbers identifying allowable direct, indirect, and unallowable cost accounts;
- Ability to accumulate and segregate allowable direct, indirect, and unallowable costs into separate cost

accounts;

- Ability to accumulate and segregate allowable direct costs by project, contract and type of cost;
- Internal controls to maintain integrity of financial management system;
- Ability to account and record costs consistently and to ensure costs billed are in compliance with FAR;
- Ability to ensure and demonstrate costs billed reconcile to general ledgers and job costing system; and
- Ability to ensure costs are in compliance with contract terms and federal and state requirement

Cost Reimbursements on Contracts:

I also understand that failure to comply with 48 CFR Part 16.301-3 or knowingly charge unallowable costs to Federal-Aid Highway Program (FAHP) contracts may result in possible penalties and sanctions as provided by the following:

- Sanctions and Penalties - [23 CFR Part 172.11\(c\)\(4\)](#)
- False Claims Act - [Title 31 U.S.C. Sections 3729-3733](#)
- Statements or entries generally - [Title 18 U.S.C. Section 1001](#)
- Major Fraud Act - [Title 18 U.S.C. Section 1031](#)

All A&E Contract Information:

- Total participation amount \$ _____ on all State and FAHP contracts for Architectural & Engineering services that the consultant received in the last three fiscal periods.
- The number of states in which the consultant does business is _____.
- Years of consultant's experience with 48 CFR Part 31 is _____.
- Audit history of the consultant's current and prior years (if applicable)

<input type="checkbox"/> Cognizant ICR Audit	<input type="checkbox"/> Local Gov't ICR Audit	<input type="checkbox"/> Caltrans ICR Audit
<input type="checkbox"/> CPA ICR Audit	<input type="checkbox"/> Federal Gov't ICR Audit	

I, the undersigned, certify all of the above to the best of my knowledge and belief and that I have reviewed the Indirect Cost Rate Schedule to determine that any costs which are expressly unallowable under the Federal cost principles have been removed and comply with [Title 23 U.S.C. Section 112\(b\)\(2\)](#), [48 CFR Part 31](#), [23 CFR Part 172](#), and all applicable state and federal rules and regulations. I also certify that I understand that all documentation of compliance must be retained by the consultant. I hereby acknowledge that costs that are noncompliant with the federal and state requirements are not eligible for reimbursement and must be returned to Caltrans.

Name**: _____ Title**: _____

Signature: _____ Date of Certification (mm/dd/yyyy): _____

Email**: _____ Phone Number**: _____

**An individual executive or financial officer of the consultant's or subconsultant's organization at a level no lower than a Vice President, a Chief Financial Officer, or equivalent, who has authority to represent the financial information used to establish the indirect cost rate.

Note: Both prime and subconsultants as parties of a contract must complete their own Exhibit 10-K forms. Caltrans will not process local agency's invoices until a complete Exhibit 10-K form is accepted and approved by Caltrans Audits and Investigations.

Distribution: 1) Original - Local Agency Project File
2) Copy - Consultant
3) Copy - Caltrans Audits and Investigations

MAYOR
Miguel A. Pulido
MAYOR PRO TEM
Juan Villegas
COUNCILMEMBERS
Phil Bacerra
Nelida Mendoza
David Penalzoza
Vicente Sarmiento
Jose Solorio



CITY MANAGER
Kristine Ridge
CITY ATTORNEY
Sonia R. Carvalho
CLERK OF THE COUNCIL
Daisy Gomez

CITY OF SANTA ANA

Public Works Agency – CIP Engineering
20 Civic Center Plaza, M-36 • P.O. Box 1988
Santa Ana, California 92702
www.santa-ana.org

July 20, 2020

ADDENDUM No. ONE

SUBJECT: RFP 20-102 On-Call Stormwater Project Design Services

The following changes/clarifications have been made to Request to Proposal 20-102:

Cover Page Modification:

1. Request for Proposal Cover Page, page 1: **Replace** with the attached page 1.
 - Changed Proposal Due Date to Wednesday, August 12, 2020 at 4:00 p.m.
 - Updated the Deadline for Requests for Information to Friday August 7, 2020.

This addendum includes 2 pages (including this one).

ALL OTHER ITEMS REMAIN

FOR THE CITY OF SANTA ANA



Jason Gabriel
Principal Civil Engineer

SANTA ANA CITY COUNCIL

Miguel A. Pulido
Mayor
mpulido@santa-ana.org

Juan Villegas
Mayor Pro Tem, Ward 5
jvillegas@santa-ana.org

Vicente Sarmiento
Ward 1
vsarmiento@santa-ana.org

David Penalzoza
Ward 2
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Jose Solorio
Ward 3
jsolorio@santa-ana.org

Phil Bacerra
Ward 4
pbacerra@santa-ana.org

Nelida Mendoza
Ward 6
nmendoza@santa-ana.org

25F-331


REQUEST FOR PROPOSALS (RFP)
FOR
ON-CALL STORMWATER PROJECT DESIGN SERVICES
RFP NO.: 20-102



CITY OF SANTA ANA
Public Works Agency
20 Civic Center Plz (M-22)
Santa Ana, CA 92701

Craig Foster, CPSWQ, QSD/P
NPDES Manager
(714) 647-5659
cfoster@santa-ana.org

Approved for Release:


Jason Gabriel
Principal Civil Engineer
Public Works Agency

KEY RFP DATES (Subject to change at discretion of City):

Issue Date:	Thursday July 16, 2020
Deadline for Requests for Information:	August 7, 2020
Proposal Due Date:	Wednesday August 12, 2020 at 4:00 p.m.
Projected Award Date:	Tuesday September 15, 2020

MAYOR
Miguel A. Pulido
MAYOR PRO TEM
Juan Villegas
COUNCILMEMBERS
Phil Bacerra
Nelida Mendoza
David Penaloza
Vicente Sarmiento
Jose Solorio



CITY MANAGER
Kristine Ridge
CITY ATTORNEY
Sonia R. Carvalho
CLERK OF THE COUNCIL
Daisy Gomez

CITY OF SANTA ANA

Public Works Agency – CIP Engineering
20 Civic Center Plaza, M-36 • P.O. Box 1988
Santa Ana, California 92702
www.santa-ana.org

July 28, 2020

ADDENDUM No. TWO

SUBJECT: RFP 20-102 On-Call Stormwater Project Design Services

The following changes have been made to Request to Proposal 20-102:

RFP Appendix (Attachment 4) Caltrans Exhibits:

1. Exhibit 10-1 Notice to Proposers Disadvantaged Business Enterprise (DBE) Information, page 1: **Replace** with the attached page 1.
 - Updated the DBE goal calculation for the contract to **1.3%**
2. Exhibit 10-01 Consultant Proposal DBE Commitment, page 1: **Replace** with the attached page 2.
 - Updated the DBE goal calculation for the contract to **1.3%**
3. Exhibit 10-02 Consultant Contract DBE Commitment, page 1: **Replace** with the attached page 3.
 - Updated the DBE goal calculation for the contract to **1.3%**

This addendum includes 4 pages (including this one).

All other terms and conditions remain the same.

FOR THE CITY OF SANTA ANA



Jason Gabriel
Principal Civil Engineer

SANTA ANA CITY COUNCIL

Miguel A. Pulido
Mayor
mpulido@santa-ana.org

Juan Villegas
Mayor Pro Tem, Ward 5
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Vicente Sarmiento
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pbacerra@santa-ana.org

Nelida Mendoza
Ward 5
nmendoza@santa-ana.org

25F-333

EXHIBIT 10-I NOTICE TO PROPOSERS DBE INFORMATION

(Federally funded projects only)

The Agency has established a DBE goal for this Contract of 1.3%

1. TERMS AS USED IN THIS DOCUMENT

- The term "Disadvantaged Business Enterprise" or "DBE" means a for-profit small business concern owned and controlled by a socially and economically disadvantaged person(s) as defined in Title 49, Code of Federal Regulations (CFR), Part 26.5.
- The term "Agreement" also means "Contract."
- Agency also means the local entity entering into this contract with the Contractor or Consultant.
- The term "Small Business" or "SB" is as defined in 49 CFR 26.65.

2. AUTHORITY AND RESPONSIBILITY

- A. DBEs and other small businesses are strongly encouraged to participate in the performance of Contracts financed in whole or in part with federal funds (See 49 CFR 26, "Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs"). The Consultant must ensure that DBEs and other small businesses have the opportunity to participate in the performance of the work that is the subject of this solicitation and should take all necessary and reasonable steps for this assurance. The proposer must not discriminate on the basis of race, color, national origin, or sex in the award and performance of subcontracts.
- B. Proposers are encouraged to use services offered by financial institutions owned and controlled by DBEs.

3. SUBMISSION OF DBE INFORMATION

If there is a DBE goal on the contract, Exhibit 10-O1 *Consultant Proposal DBE Commitment* must be included in the Proposal. In order for a proposer to be considered responsible and responsive, the proposer must make good faith efforts to meet the goal established for the contract. If the goal is not met, the proposer must document adequate good faith efforts. All DBE participation will be counted towards **meeting** the contract goal; therefore, all DBE participation shall be collected and reported.

Exhibit 10-O2 *Consultant Contract DBE Information* must be included in **best qualified consultant's executed consultant contract**. Even if no DBE participation will be reported, the successful proposer must execute and return the form.

4. DBE PARTICIPATION GENERAL INFORMATION

It is the proposer's responsibility to be fully informed regarding the requirements of 49 CFR, Part 26, and the Department's DBE program developed pursuant to the regulations. Particular attention is directed to the following:

- A. A DBE must be a small business firm defined pursuant to 13 CFR 121 and be certified through the California Unified Certification Program (CUCP).
- B. A certified DBE may participate as a prime consultant, subconsultant, joint venture partner, as a vendor of material or supplies, or as a trucking company.
- C. A DBE proposer not proposing as a joint venture with a non-DBE, will be required to document one or a combination of the following:
 - 1. The proposer is a DBE and will meet the goal by performing work with its own forces.
 - 2. The proposer will meet the goal through work performed by DBE subconsultants, suppliers or trucking companies.
 - 3. The proposer, prior to proposing, made adequate good faith efforts to meet the goal.

EXHIBIT 10-01 CONSULTANT PROPOSAL DBE COMMITMENT

1. Local Agency: City of Santa Ana 2. Contract DBE Goal: 1.3%
 3. Project Description: On-Call Stormwater Project Design Services
 4. Project Location: Citywide in Santa Ana, California
 5. Consultant's Name: _____ 6. Prime Certified DBE: ☐

7. Description of Work, Service, or Materials Supplied	8. DBE Certification Number	9. DBE Contact Information	10. DBE %	
Local Agency to Complete this Section		11. TOTAL CLAIMED DBE PARTICIPATION	%	
17. Local Agency Contract Number: _____ 18. Federal-Aid Project Number: _____ 19. Proposed Contract Execution Date: _____ 20. Consultant's Ranking after Evaluation: _____ Local Agency certifies that all DBE certifications are valid and information on this form is complete and accurate. _____ _____ _____				
IMPORTANT: Identify all DBE firms being claimed for credit, regardless of tier. Written confirmation of each listed DBE is required. 12. Preparer's Signature _____ 13. Date _____ 14. Preparer's Name _____ 15. Phone _____ 16. Preparer's Title _____				

DISTRIBUTION: Original – Included with consultant's proposal to local agency.

ADA Notice: For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

1. Local Agency: City of Santa Ana 2. Contract DBE Goal: 1.3%

3. Project Description: On-Call Stormwater Project Design Services

4. Project Location: Citywide in Santa Ana, California

5. Consultant's Name: _____ 6. Prime Certified DBE: ☐ 7. Total Contract Award Amount: _____

8. Total Dollar Amount for **ALL** Subconsultants: _____ 9. Total Number of **ALL** Subconsultants: _____

Page 1 of 2
July 23, 2015

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Juan Villegas
COUNCILMEMBERS
Phil Bacerra
Nelida Mendoza
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Vicente Sarmiento
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CITY OF SANTA ANA

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August 4, 2020

ADDENDUM No. THREE

SUBJECT: RFP 20-102 On-Call Stormwater Project Design Services

The following changes have been made to Request to Proposal 20-102:

RFP Table of Contents:

1. Updated RFP Table of Contents, page 1: **Replace** with the attached page 1
 - Updated the Table of Contents by removing VIII. Caltrans Exhibits (Attachment 4) Section

RFP Appendix (Attachment 1) Scope of Work:

2. Updated Special Requirements (Attachment 4), PAGES A1-7 AND A1-8: **Remove** Special Requirements Section referencing grant requirements.

RFP Appendix (Attachment 4) Caltrans Requirements:

3. Removed Caltrans Requirements (Attachment 4), A4-1 thru end: **Remove** entire Appendix (Attachment 4) Section.
 - Removed Caltrans Requirements and Exhibits

This addendum includes 2 page (including this one). All other terms and conditions remain the same.

FOR THE CITY OF SANTA ANA


Edwin "William" Galvez
City Engineer

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25F-337



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