

**CITY OF SANTA ANA  
CONTRACTOR AGREEMENT FOR  
ON-CALL ENGINEERING SERVICES WITH  
TAIT & ASSOCIATES, INC.**

THIS AGREEMENT is made and entered into on this 16<sup>th</sup> day of August 2022 by and between Tait & Associates, Inc., (“Contractor”), 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. The City desires to retain a Contractor having special skill and knowledge in the field of on-call water resources engineering services pursuant to RFP 22-002.
- B. Contractor represents that Contractor is able and willing to provide such services to the City.
- C. On April 21, 2020, City Council approved agreements with Tetra Tech, Inc., Michael Baker International, Inc., Psomas, Stantec Consulting Services, Inc., NV5, Inc., Huitt-Zollars, Inc., Kimley-Horn and Associates, Inc., and Tait & Associates, Inc. (“2020 Agreements”) to provide on-call engineering services for the Public Works Agency, Water Resources Division.
- D. On March 16, 2021, the City amended the 2020 Agreements to increase the funding amount by \$950,000 for the remainder of the term to allow these services to be utilized for additional civil works projects included in the current and future fiscal years’ Capital Improvement Programs (CIPs). These agreements remain in full force and effect.
- E. The City finds that new agreements under RFP 22-002 are required for additional services for new civil works projects as the funding capacity has been reached under the 2020 Agreements.
- F. In undertaking the performance of this Agreement, Contractor represents that it is knowledgeable in its field and that any services performed by Contractor under this Agreement will be performed in compliance with such standards as may reasonably be expected from a professional consulting 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**

Contractor shall perform during the term of this agreement, the services described in the scope of work that was included in RFP No. 22-002 and that is attached as **Exhibit A**, and as further delineated in Contractor’s proposal, which is attached as **Exhibit B** and incorporated in full. The Scope of Work under this Agreement is not intended to cover any civil works projects

assigned to the 2020 Agreements.

## **2. COMPENSATION**

- a. Contractor under this Agreement. Contractor shall be paid only for services performed under the Agreement at the rates and charges identified in **Exhibit C**. Contractor is one of six Contractors selected to provide on-call engineering services. The total aggregate amount, among the six contractors, shall not exceed the shared aggregate amount of \$2,000,000 during the term of this agreement, including any extension periods. All reimbursable expenses must be approved in writing by the City before they are incurred by Contractor. City shall not be responsible for any reimbursable costs incurred by Contractor without the advance written approval of City.
- b. Payment by City shall be made within 45 days (forty-five) days following receipt of proper invoice evidencing work performed, subject to City accounting procedures. City shall not be assessed any late fees for payments rendered after forty-five (45) days. Payment need not be made for work which fails to meet the standards of performance set forth in the Recitals which may reasonably be expected by City.

## **3. TERM**

This Agreement shall commence on the (2)nd of (1)st year and shall be exercisable by a writing by the City Manager and the City Attorney, unless terminated earlier in accordance with Section 16, below.

## **4. PREVAILING WAGES**

Contractor 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, Contractor agrees to fully comply with such Prevailing Wage Laws. Contractor 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 CONTRACTOR**

Contractor 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 Contractor performs the services which are the subject matter of this Agreement; however, the services to be provided by Contractor shall be provided in a manner consistent with all applicable standards and

regulations governing such services. Contractor 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 Contractor under this Agreement ("Documents & Data"). Contractor shall require all subcontractors to agree in writing that City is granted a non-exclusive and perpetual license for any Documents & Data the subcontractor prepares under this Agreement. Contractor represents and warrants that Contractor has the legal right to license any and all Documents & Data. Contractor makes no such representation and warranty in regard to Documents & Data which were provided to Contractor 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**

Coverage shall be at least as broad as:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than **\$1,000,000** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.
2. **Automobile Liability:** Insurance Services Office Form Number CA 0001 covering, Code 1 (any auto), or if Consultant has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than **\$1,000,000** per accident for bodily injury and property damage.
3. **Workers' Compensation** insurance as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than **\$1,000,000** per accident for bodily injury or disease.
4. **Professional Liability** (Errors and Omissions) Insurance appropriate to the Consultant's profession, with limit no less than **\$1,000,000** per occurrence or claim.

If the Consultant maintains broader coverage and/or higher limits than the minimums shown above, the Entity requires and shall be entitled to the broader coverage and/or the higher limits maintained by the contractor. Any available

insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the Entity.

#### **Other Insurance Provisions**

The insurance policies are to contain, or be endorsed to contain, the following provisions:

##### ***Additional Insured Status***

**The Entity, its officers, officials, employees, and volunteers are to be covered as additional insureds** on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Consultant's insurance (at least as broad as ISO Form CG 20 10 11 85 or **both** CG 20 10, CG 20 26, CG 20 33, or CG 20 38; **and** CG 20 37 forms if later revisions used).

##### ***Primary Coverage***

For any claims related to this contract, the **Consultant's insurance coverage shall be primary** insurance primary coverage at least as broad as ISO CG 20 01 04 13 as respects the Entity, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the Entity, its officers, officials, employees, or volunteers shall be excess of the Consultant's insurance and shall not contribute with it.

##### ***Notice of Cancellation***

Each insurance policy required above shall state that **coverage shall not be canceled, except with notice to the Entity.**

##### ***Waiver of Subrogation***

Consultant hereby grants to Entity a waiver of any right to subrogation which any insurer of said Consultant may acquire against the Entity by virtue of the payment of any loss under such insurance. Consultant agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the Entity has received a waiver of subrogation endorsement from the insurer.

##### ***Self-Insured Retentions***

Self-insured retentions must be declared to and approved by the Entity. The Entity may require the Consultant to purchase coverage with a lower retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or Entity.

##### ***Acceptability of Insurers***

Insurance is to be placed with insurers authorized to conduct business in the state with a

current A.M. Best's rating of no less than A:VII, unless otherwise acceptable to the Entity.

### ***Claims Made Policies***

If any of the required policies provide coverage on a claims-made basis:

1. The Retroactive Date must be shown and must be before the date of the contract or the beginning of contract work.
2. Insurance must be maintained and evidence of insurance must be provided ***for at least five (5) years after completion of the contract of work.***
3. If coverage is canceled or non-renewed, and not ***replaced with another claims-made policy form with a Retroactive Date*** prior to the contract effective date, the Consultant must purchase "extended reporting" coverage for a minimum of ***five (5) years*** after completion of contract work.

### ***Verification of Coverage***

Consultant shall furnish the Entity with original Certificates of Insurance including all required amendatory endorsements (or copies of the applicable policy language effecting coverage required by this clause) and a copy of the Declarations and Endorsement Page of the CGL policy listing all policy endorsements to Entity before work begins. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. The Entity reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

### ***Subcontractors***

Consultant shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein, and Contractor shall ensure that Entity is an additional insured on insurance required from subcontractors.

### ***Special Risks or Circumstances***

Entity reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

## **8. INDEMNIFICATION**

Contractor agrees to defend, and shall indemnify and hold harmless the City, its officers, agents, employees, contractors, 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 Contractor, its subcontractors, agents, employees, or other persons acting on its 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 Contractor 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 Contractor'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 out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the Contractor.

## **9. INTELLECTUAL PROPERTY INDEMNIFICATION**

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

## **10. RECORDS**

Contractor shall keep records and invoices in connection with the work to be performed under this Agreement. Contractor 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 Contractor under this Agreement. All such records and invoices shall be clearly identifiable. Contractor 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. Contractor 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 Contractor under this Agreement.

## **11. CONFIDENTIALITY**

If Contractor receives from the City information which due to the nature of such information is reasonably understood to be confidential and/or proprietary, Contractor 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 Contractor disclosed in a publicly available source; (c) is in rightful possession of the Contractor without an obligation of confidentiality; (d) is required to be disclosed by operation of law; or (e)

is independently developed by the Contractor without reference to information disclosed by the City.

## **12. CONFLICT OF INTEREST CLAUSE**

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

## **13. DISCRIMINATION**

Contractor shall not discriminate because of race, color, creed, religion, 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. Contractor affirms that it is an equal opportunity employer and shall comply with all applicable federal, state and local laws and regulations.

## **14. EXCLUSIVITY AND AMENDMENT**

This Agreement represents the complete and exclusive statement between the City and Contractor, 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 Contractor. 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 Contractor 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 is not embodied herein.

## **15. ASSIGNMENT**

Inasmuch as this Agreement is intended to secure the specialized services of Contractor, Contractor 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 contractors retained by City.

## **16. TERMINATION**

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

deliver to the City all work product(s) completed as of such date, and in such case such work product shall be the property of the City unless prohibited by law, and Contractor 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.

## **17. 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.

## **18. 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.

## **19. PROFESSIONAL LICENSES**

Contractor 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. Contractor 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.

## **20. 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

With courtesy copies to:

Executive Director, Public Works Agency City of Santa Ana 20 Civic Center Plaza (M-21) P.O. Box 1988 Santa Ana, California 92702 Fax: 714- 647-5635	
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To Contractor:

Tait & Associates, Inc.  
Attn: Jacob Vandervis  
Chief Operations Officer, P.E.  
701 N. Parkcenter Dr.  
Santa Ana, CA 92705  
Fax: 714-560-8233

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 time frames, weekends, federal, state, County or City holidays shall be excluded.

## **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.

[Signatures on the following page]

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

**CONTRACTOR:**

By: Jose Montoya  
Jose Montoya  
Assistant City Attorney

Paul Vanderis  
Name: Paul Vanderis  
Title: C.O.D.

**RECOMMENDED FOR APPROVAL:**

\_\_\_\_\_  
Nabil Saba, P.E.  
Executive Director  
Public Works Agency

## **EXHIBIT A**

**CITY OF SANTA ANA**  
**REQUEST FOR PROPOSALS**  
**FOR**  
**ON-CALL WATER RESOURCES ENGINEERING SERVICES**  
**RFP NO. 22-002**

**INTRODUCTION/BACKGROUND**

The City of Santa Ana intends (City) to select several qualified firms to provide professional services for a variety of projects and programs on an as-needed or “on-call” basis. Each firm selected will enter into a Professional Services Agreement to provide such services. Throughout the term of the Professional Services Agreement, the City may request task order proposals for individual projects and/or programs as the need for such services arises. The task order proposal fee shall be based on the hourly rates provided by the firm in response to this RFP.

If a task order proposal is selected, a Notice-to-Proceed will be issued based on an agreed-upon specific scope of services and fee for that task order. The firm may utilize in-house staff and/or sub-consultants to complete each task order. **For specialized work for which the prime consultant shall require a sub-consultant, the prime consultant shall serve as an administrative liaison between the City and the sub-consultant, and include these administrative costs in their proposed project management fees.**

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

**SCOPE OF SERVICES**

Provide professional engineering services for planning, design, and construction support for domestic water, recycled water, sanitary sewer, storm sewer, and related facility projects.

In general, each task order shall include, at minimum, the following project management services:

- Project Schedule

Create schedules with the critical milestones for the major tasks involved in a project. Update the schedule monthly, or more often, as required by the City. Schedules shall be submitted in PDF format unless other format is requested by the City.

- Meetings

Attend meetings and/or job walks, as requested by the City. Prepare meeting agendas and meeting minutes.

- Monthly Project Status Report

Prepare Monthly Project Status Reports that show an accurate accountability of work effort rendered and a continuous appraising and monitoring of both work progress and financial conditions on a project.

The fee for project management services, including time and related expenses, shall be included in each task order proposal.

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Firms may propose on any category listed below (1-5). The services to be performed may include, but shall not be limited to, the following:

**1. PLANNING, RESOURCES, AND DESIGN**

Provide water engineering services to conduct water capital improvement projects, which may involve one or multiple disciplines, including planning studies, hydraulic modeling, feasibility studies, design of pipelines, wells, pump stations, pressure regulating stations, reservoirs, water quality and water treatment, waste and recycled water quality and treatment, hydrogeology, engineering support during construction, and encompassing associated services such as Architecture, Structural, Civil, Mechanical, HVAC, Landscape Architecture, Geotechnical, Environmental, Electrical, Instrumentation, and Control.

a. Planning Studies and Feasibility Studies

Provide engineering, financial, and planning services to perform pipeline alignment and facility siting studies, water system planning studies, recycled water system planning and feasibility studies, water demand and supply studies, rate studies, asset management, and other studies that may be required in water system planning. Provide consulting services related to water resources and conservation. Studies may include water supply assessments, water supply verifications, urban water management plans, water use surveys and others studies that may be required for water resources and conservation programs

b. Hydraulic Modeling

Perform Water System Master Planning including Comprehensive Studies, Hydraulic Analysis, Transient Analysis, Fire Flow Analysis, and Flow Optimization.

c. Condition Assessment

Provide comprehensive condition assessment of the City's water system, including seismic, structural, security and vulnerability. Assessment of the structural integrity of the pipe shall include identifying leaks, pipe damage, pipe defect, loss of pipe wall thickness due to corrosion or erosion, etc., along the length of the pipe. Provide reports and memorandums with maps and exhibits as required to detail results of the study including likelihood of failure, risk and consequence of failure. Reports and/or technical memorandums shall also include detailed explanation of data collected and used for the study, any assumptions made as well as recommendations for short-term and long-term risk mitigation strategies.

d. Design Services

Provide consulting services for the design of water facilities, including water wells, pump stations, pressure regulating stations, reservoirs, water quality and treatment, water mains,

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recycled water supply and distribution facilities, associated appurtenances, as well as other related components of the facilities such as buildings, landscape, grading, drainage, etc. for a complete and operative project.

e. Other Related Services

Provide other related services including, but not limited to, the following:

i. Architecture

Provide consulting services for architectural design, architectural renderings, line-of-sight analyses, building sections, code interpretation issues and other architectural related issue.

ii. Structural

Provide consulting services for structural investigations of the City's existing facilities, seismic analysis, miscellaneous structural calculations, and design on the City's existing and proposed systems and structures.

iii. Civil

Provide consulting services for general engineering services as required for the project. Scope of work may include but is not limited to site design, street improvements, grading, drainage, preparation of Water Quality Management, Erosion Control, and Stormwater Pollution Prevention Plans, and related calculations and reports as necessary.

iv. Mechanical, HVAC

Provide consultation, engineering, and design services on modification, upgrade, and replacement of existing mechanical and HVAC systems, including piping, plumbing, support systems, controls, code interpretation, and related calculations as necessary.

v. Landscape Architecture

Provide consulting services for landscape architecture design, including landscape planting plans, renderings and views of proposed landscape plantings, and landscape installation inspection services. Provide consultation for irrigation system design and inspection.

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vi. Geotechnical Engineering Services

Conduct geotechnical investigations, including field explorations and tests, laboratory tests, and seismic investigations, to assess the general conditions of a project site area and prepare geotechnical reports of final design and construction recommendations. Field explorations may require drilling plans and classification of underlying soils and must be done under the supervision of a licensed geotechnical engineer or registered geologist. Investigations may include slope stability analysis of reservoir embankments, foundations, retaining walls, and dams and earthen dam monitoring and inspection to comply with California Department of Water Resources, Division of Safety of Dams (DSOD) and other City requirements. Provide seismic hazard analyses and site-specific seismic criteria, as needed, for project design.

vii. Hydrogeology

Provide consulting services on groundwater issues related to and including rehabilitation of existing potable water production wells, siting and design of new potable water production wells, destruction of inactive wells, evaluation of contamination plumes, and groundwater modeling. Evaluate the hydrogeology of proposed potable water production well sites and investigate proposed wells. Determine design parameters and requirements necessary to drill, operate, and maintain proposed wells; proposed well construction (casing diameter, locations of perforated intervals); and proposed operation of wells. Prepare Drinking Water Source Assessment and Protection (DWSAP) plans for proposed potable water production wells.

Provide inspection, hydrogeologic analysis and recommendations during new potable water production well drilling and existing well destruction activities, including, but not limited to, on site consulting geologists, geological sampling and formation analysis, geophysical logging and interpretation, sieve analyses, final well construction recommendations, and quality assurance and assistance in achieving conformance with the construction specifications and applicable codes and standards.

viii. Environmental Compliance Services

Provide consulting services for the preparation of environmental documents and support studies to comply with California Environmental Quality Act (CEQA), which may include an Initial Study, Negative Declaration, Mitigated Negative Declaration, Addendum, or Environmental Impact Report, or Supplement or Subsequent EIR, National Environmental Policy Act (NEPA) when complying

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with federal grants, permit applications with support studies, aesthetic simulations, and other environmental compliance tasks that may be needed.

ix. Recycled Water Compliance

Provide assistance with compliance requirements for recycled water treatment and distribution system monitoring and reporting.

x. Electrical, Instrumentation & Control Services

Provide consultation, engineering, and design services on modification, upgrade, troubleshooting, restarting, adjusting control settings, and replacement of existing electrical systems, including motor control centers, motor starters, electrical panels, and instrumentation and control systems, including SCADA systems.

xi. Engineering Support During Bidding and Construction

Review and respond to RFI's and review and approve shop drawings submitted by contractor for conformance with the contract documents. Review progress reports and payments as required. Prepare supplementary sketches and details, as required, to resolve field construction problems that may be encountered. Provide project inspection as needed. Provide assistance in ensuring regulatory compliance, as needed. Prepare the "as constructed" corrections to the original drawings and specifications. Attend meetings on behalf of the City and assist in Public Relations, as needed.

xii. Plan Check Services

Provide consulting services for plan checking improvement plans to determine compliance with applicable standards, guidelines, policies, rules, ordinances, and codes.

## **2. CONSTRUCTION MANAGEMENT**

Provide construction management and inspection services during construction. The tasks of construction management and inspection shall include, but not be limited to:

a. Construction Management and Coordination with Contractor

Provide construction management and coordinate as needed for the project. Review and coordinate construction schedule and activities; conduct and attend meetings on behalf of the City. Provide permit compliance documentation, follow up, and support for all permits and clearances required on a project. The construction management team may also be asked to attend meetings and assist in maintaining public relations as needed.



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b. Project Administration

Provide review of, recommend, and prepare change order(s) and/or extra work order(s) as needed on construction project. Coordinate and process RFI's and shop drawings submittals, and ensure construction conformance with the contract documents. Review and adjust progress pay estimates prepared and submitted by the contractor for conformance with the contract documents.

c. Construction Inspection

Provide construction inspection by qualified inspectors and maintain daily inspection reports, construction progress reports, and project logs, etc., of the progress of the construction work. Secure record drawing information from the construction contractor. Provide start-up support for a Project, including final acceptance testing, support, and final completion sign off. Prepare the Final Construction Report.

**3. PIPELINE DESIGN**

Provide consulting services for the design of water mains, transmission mains, siphons and associated appurtenances. Provide preliminary and final design services including the preparation of plans, specifications, and cost estimates. Provide bidding assistance, construction support, and final as-builts as needed for projects.

**4. ELECTRICAL, INSTRUMENTATION & CONTROL SERVICES**

Provide consultation, engineering, and design services on modification, upgrade, troubleshooting, restarting, adjusting control settings, and replacement of existing electrical systems, including motor control centers, motor starters, electrical panels, and instrumentation and control systems, including SCADA systems components, instrumentation, communication system components, security cameras, door/gate access controls, information technology for SCADA system and cybersecurity support for PLC/HMI/OIT software and custom applications for the City Water System.

**5. GEOTECHNICAL ENGINEERING SERVICES**

Conduct geotechnical investigations, including field explorations and tests, laboratory tests, and seismic investigations, to assess the general conditions of a project site area and prepare geotechnical reports of final design and construction recommendations. Field explorations may require drilling plans and classification of underlying soils and must be done under the supervision of a licensed geotechnical engineer or registered geologist. Investigations may include slope stability analysis of reservoir embankments, foundations, retaining walls, and dams and earthen dam monitoring and inspection to comply with California Department of Water Resources, Division of Safety of Dams (DSOD) and other City requirements. Provide seismic hazard analyses and site-specific seismic criteria, as needed, for project design.

**CITY OF SANTA ANA**  
**REQUEST FOR PROPOSALS**  
**FOR**  
**ON-CALL WATER RESOURCES ENGINEERING SERVICES**  
**RFP NO. 22-002**

Proposals shall explicitly state which category listed above (1-5) is being proposing on. If there are any exceptions to the core of requested services above, proposers shall list said exceptions in their proposal (matrix form).

**GENERAL REQUIREMENTS AND PROJECT DELIVERABLES**

The Consultant's services for plans specifications and estimates (PS&E) for engineering projects and special studies/investigations shall be in conformance, if applicable, with the following: Title 24 of the California Code of Regulations (California Building Standards Code), American Water Works Association, California Department of Transportation, Americans with Disabilities Act, City of Santa Ana Municipal Code (SAMC), professional Standards established by the City, and any other federal, state, or local guidelines required in the project.

As part of the PS&E package, 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 Consultant shall have complete responsibility for the accuracy and completeness of all documents and plans prepared. The plans will be reviewed by the City of Santa Ana for conformity with the requirements of the Agreement. Reviews by the City of Santa Ana DO NOT include detailed review or checking of design for the accuracy with which such designs are depicted in the documents and the 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, well organized, technically and grammatically correct, checked and dated, and having the maker and checker identified.

The Consultant 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- the consultant shall provide a detail 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 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

**CITY OF SANTA ANA**  
**REQUEST FOR PROPOSALS**  
**FOR**  
**ON-CALL WATER RESOURCES ENGINEERING SERVICES**  
**RFP NO. 22-002**

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

**CITY RESPONSIBILITIES**

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

- Furnish scope of work and provide general direction as needed for the assigned project
- All plan check coordination within the City
- Advertise, award, and administer of construction contract
- 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 and City facilities

**FEE PROPOSAL**

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

**The fee proposal shall include the firm's standard hourly fee schedule, and/or project fee schedule where applicable and as outlined in this document. A list of all positions and hourly rates required to perform the services described herein.**

**A more detailed scope of work will be provided when/if a Task Order proposal is requested of a consultant. All tasks orders shall include the staff title, hours, hourly rate and totals as related to the project.**

**OTHER TERMS AND CONDITIONS**

1. The project will be implemented in compliance with the City of Santa Ana's policies, as well as Prevailing Wages and State/Federal Requirements.
2. The City regards the inclusion of California based designs, engineering, and construction professionals, facilities, and services as part of the Team to be highly desirable, but not mandatory.

**CITY OF SANTA ANA**  
**REQUEST FOR PROPOSALS**  
**FOR**  
**ON-CALL WATER RESOURCES ENGINEERING SERVICES**  
**RFP NO. 22-002**

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.

## **EXHIBIT B**



RFP No. 22-002:  
**ON-CALL WATER RESOURCES  
ENGINEERING SERVICES**  
CITY OF SANTA ANA

May 24, 2022



**Submitted By:**

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TAIT & Associates, Inc.  
701 Parkcenter Drive  
Santa Ana, CA  
714-560-8200  
[www.tait.com](http://www.tait.com)



**Submitted To:**

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City of Santa Ana  
Santa Ana Public Works Agency  
220 S. Daisy Ave., M-85  
Santa Ana, CA 92703  
Attn: Robert Aguirre, P.E., Project  
Manager



# 1. Statement of Qualifications

## a. Cover Letter

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May 24, 2022

City of Santa Ana  
Santa Ana Public Works Agency  
220 S. Daisy Ave., M-85  
Santa Ana, CA 92703  
Attn: Robert Aguirre, P.E., Project Manager

**RE: Request for Proposals (RFP) No. 22-002, On-Call Water Resources Engineering Services  
Categories 1 (Planning, Resources, and Design) and 3 (Pipeline Design)**

Dear Mr. Aguirre,

TAIT & Associates, Inc. (TAIT) is pleased to submit the enclosed proposal in response to your Request for Proposals for providing On-Call Water Resources Engineering Services for City of Santa Ana (City). TAIT will be submitting on **Category 1: Planning, Resources, and Design** and **Category 3: Pipeline Design**. TAIT has greatly appreciated the opportunity to provide on-call engineering services to the City of Santa Ana for the last 3 years and looks forward to continuing our relationship over the next cycle of consultant services.

**TAIT at a Glance.** At TAIT, we have provided innovative engineering solutions to our clients for more than 58 years. We understand that public projects have their own specific issues, and with 220 associates, we have the right blend of professional engineers, surveyors, environmental assessors, and construction personnel with the experience necessary to address critical and big picture concerns. Since TAIT was founded in 1964 in Orange County, we have built mature relationships with state and local agencies throughout Southern California, and consistently create successful partnerships with the agencies for which we work.

**Experience and Expertise.** With our diverse engineering staff, our firm provides the personal touch of a small family owned business that provides the technical expertise of a big engineering firm. TAIT's engineering diversity in the many facets of civil engineering include planning, design and construction services for water, waste water, storm drains, construction and post-construction water quality, pavement rehabilitation, utility coordination, site development, and surveying. In addition to engineering services, our company also includes architecture, entitlements, and environmental assessment associates which are ready to serve the City should the opportunity arise. Our water project experience over the past five years includes recent projects such as the City of Santa Ana's Santiago Park Nursery and Pump Station Wall project, City of Chino's Quadrant III Water Line Replacements; the Golden State Water Company's Foothill District and the Normandie Ave. & Imperial Hwy. water line replacement projects; the City of Garden Grove's Harbor Boulevard Water Main & Street

Reconfiguration project and the Glendale Water and Power's Hoover, Toll, Keppel Recycled Water and the Kenneth-Ben Lomond Water Main Replacement Projects.

**Key Personnel Leaders.** With 36 years of experience, **Jacob Vandervis, PE**, will act as Principal in Charge and Project Manager for TAIT's services to the City. Jacob has served in this role on TAIT's recently completed water projects for Golden State Water Company and Glendale Water and Power during the past 9 years.

**Samantha Wohlfarth, PE**, who will serve as the lead Project Engineer, has worked on nearly all of TAIT's recent water line projects including TAIT's recent completed City of Chino project and Glendale Water & Power's recent recycled water line project. Her knowledge, methodologies and approach to project coordination and design of water projects will ensure speedy and efficient project completion.

**M. Todd Broussard, PE**, who will be the QA/QC Manager, has over 21 years of municipal design and project management experience as Principal Civil Engineer with the City of Huntington Beach Public Works Department, overseeing an annual Capital Improvement Program budget of approximately \$25 million per annum.

Also assisting the project will be **David Sloan, PE**, who will serve as the Specification Manager as well as provide engineering support for developing cost estimates, construction phasing and Traffic Control Plans and evaluation of the overall construction feasibility. David currently serves as TAIT's Director of Engineering has extensive public agency experience managing, designing and providing construction management services for public projects and will be a great asset to the project team.

**Quality and Cost Effectiveness.** TAIT will work with the City on budget limits and always ensure quality services are provided at the most efficient cost possible. We have successfully met all past budgets on similar contracts and projects, creating lasting relationships with other agencies.

We understand that TAIT will have contractual obligation with the City with regard to this project. We aim to act as an extension of the City's staff and will place an emphasis on Customer Service which has been and will remain one of TAIT's Corporate Goals **"To Completely Satisfy our Customers"**. We are excited to have this opportunity to serve the City on this contract.

I will be the contact person for this procurement and can be reached at phone number (714) 560-8200 ext. 677 or email [jacobv@tait.com](mailto:jacobv@tait.com) at our Santa Ana office at any time should you have any questions regarding our proposal. We thank you for this opportunity to submit to you on this contract and look forward to further discussing with you our qualifications and commitment to working with City of Santa Ana.

Very truly yours,  
TAIT & ASSOCIATES, INC.



Jacob Vandervis, P.E.  
Chief Operations Officer and Vice President





## b. Contract Agreement Statement

TAIT accepts the City's RFP's Scope of Services, Standard Agreement, and the contractual terms therein.

## c. Firm and Team Experience

### FIRM SUMMARY

TAIT & Associates, Inc. is a Southern California based, family owned engineering firm founded by Dr. Kenneth E. Tait, P.E., established in 1964, and incorporated in the State of California. TAIT has grown to have 8 offices throughout the Western United States and is headquartered in **Santa Ana, CA**. We have approximately 220 associates who work together as a team to provide a full range of engineering services. TAIT has dedicated itself to offering quality design services throughout the Western United States. Each project presents new challenges, and we use each one as an opportunity to learn something new and apply that knowledge to future projects.



*Our Corporate Headquarters—Santa Ana, CA*

### Company Capabilities

Today our multi-disciplined firm offers a full array of consulting services to public agencies and private development clients. More specifically, we offer project management, civil engineering, surveying, architecture, planning, entitlement, right of way engineering, environmental investigation, and remediation. TAIT has been providing public design and management services to local public agencies for many years. Some of the most recent water projects that we are either currently under contract or have recently completed are:

- **Quadrant III Water Main Replacements for City of Chino**
- **Hoover, Toll, Keppel Recycled Water Project for Glendale Water & Power**
- **The Kenneth-Ben Lomond Water Main Replacement Project for Glendale Water & Power**
- **Foothill District Water Main Replacement Project for Golden State Water Company**
- **Normandie Ave. Water Main Replacement for Golden State Water Company**
- **Beaudry Terrace Water Main Replacement for Glendale Water & Power**
- **Adams Hill Neighborhood Water Main Replacement for Glendale Water & Power**
- **Harbor Boulevard Water Main and Street Reconfiguration Project for the City of Garden Grove**

### Strengths - What Sets Us Apart

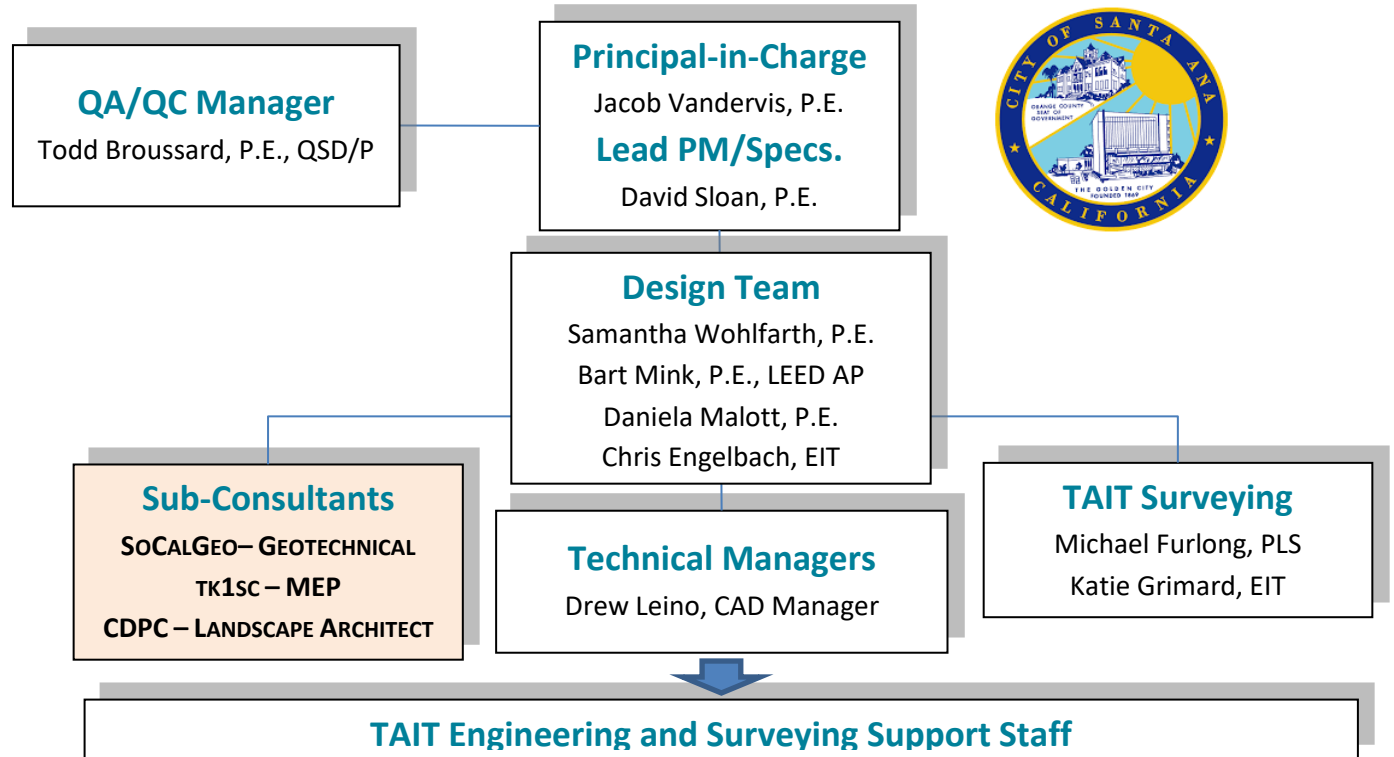
TAIT has built a reputation of successfully managing projects from concept to completion, with both **big company expertise and small company culture** dedicated to customer service. We have specific expertise in public infrastructure development, land development, natural resource preservation, and environmental management. We also understand the tight time and money constraints under which our clients frequently operate, and strive to provide unique solutions that allow our client's projects to be completed on time and within budget.



## Key Personnel

The TAIT project team selected has provided engineering services on projects similar to those that will be required during this contract. Below is an organization chart depicting our key team members, followed by their qualifications and availability. **Full resumes of our key personnel and sub-consultants are included in our Appendix to comply with the RFP's page limit.**

### Organizational Chart



### Key Personnel Qualifications

Name	Classification/ Designation	Licenses/ Certifications	Years of Experience	% of Availability
Jacob Vandervis, P.E.	PIC/Project Manager	CA No. C46301	36	20%
Todd Broussard, P.E., QSD/P	QA/QC Manager	CA No. C57144	35	20%
David Sloan, P.E.	Lead Project Manager/Specs Manager	CA No. C82595	15	20%
Samantha Wohlfarth, P.E.	Professional Engineer- Water	CA No. 86126	10	50%
Bart Mink, P.E., LEED AP	Professional Engineer- Water	CA No. C86126	24	40%
Daniela Malott, P.E.	Professional Engineer- Drainage	CA No. C86581	10	40%
Chris Engelbach, EIT	Project Engineer- Site/Grading	E.I.T.	13	40%
Michael Furlong, PLS	Surveyor	CA PLS No. 8899	43	20%
Katie Grimard, EIT	Design/Survey Engineer	CA ET31300303	9	40%



## d. Understanding of Need

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### Approach

Public works engineering contracts require **careful planning**, **effective communication**, and **precise execution**. For each project assigned to TAIT, we will employ our proven 5 step project management protocol (*Understand*→*Assign*→*Plan*→*Execute*→*QA/QC*) in order to ensure a successful project:

**UNDERSTAND:** Upon receipt of an RFP from the City, TAIT will conduct a cursory project review and will research existing conditions in order to ensure we have a full understanding of the scope. We will meet with the City to discuss the project in an effort to understand the City's needs, and will coordinate with and obtain design requirements from all stakeholders or jurisdictions that will be affected by the project. All records obtained during the proposal will be compiled for future reference and benefit during the design phase.

**ASSIGN:** TAIT's engineering division has expertise in public works water, sewer, roadway, storm drain, hydrology/hydraulics, pre/post construction water quality control, surveying, and minor structural engineering and analysis. Based on the scope of the project, TAIT's project manager will assign a lead project engineer to each contract whose background best matches the needs of the project. Key sub-consultants such as geotechnical, traffic, landscaping, environmental, and MEP team members will then be assigned to the project at this phase based on the needs of the project.

**PLAN:** We will prepare and submit a clear and concise scope of work, project schedule, and fee proposal that includes all necessary tasks to successfully complete the contract. Key considerations in the planning phase will include the funding source (local/state/federal) and associated permitting/documentation requirements, stakeholder requirements/needs, level of design detail desired by the City (plan/plan & profile), storm water quality requirements, coordination and meeting needs, and the overall scheduling needs.

**EXECUTE:** Upon issuance of the notice to proceed, TAIT will actively and effectively execute the scope of work for the contract. Our assigned project manager will stay in constant contact with the City and will remain available and responsive to the City's needs through the life of the project.

**QA/QC:** The final component to each of our projects is the implementation of our Quality Assurance/Quality Control (QA/QC) program. Our QA/QC Program focuses on the following four primary objectives:

- Ensure that a quality design has been provided to the City, by following established in-house design checklists that meets our own requirements as well as the agency's,
- Verify that different disciplines and agencies have been coordinated with in the development of the design plans,
- Verify that the proposed improvements are able to be constructed, and
- Verify that a cost effective analysis approach was followed to achieve the City's specific project goals and objectives.

**TAIT utilizes a Total Quality Management approach.** TAIT's philosophy is that quality control begins at day one and does not end until the project is constructed.



**Quality Control is the responsibility of each and every team member.** It includes the selection of project team members who have demonstrated the experience and the ability to understand and apply the project objectives to achieve a specific goal. It also requires open and continuous communication between all team members.

**Timely reviews are provided prior to making submittals.** Before plans are submitted to outside parties and the City, a senior member of TAIT will conduct a detailed review of the design to verify the quality, constructability and completeness of the documents to be submitted. If a Value Engineering measure is identified by the reviewer, it will be discussed with the Project Manager to determine the next appropriate action (i.e.: implement the measure, review the measure with the City, or conduct additional analysis to determine the feasibility and potential cost savings). At the completion of TAIT's in-house review, the design documents are returned to the design team for corrections. The Project Manager is then responsible to ensure that all review comments have been properly addressed prior to submittal of the plans and reports for agency review and approvals. TAIT understands the needs of public agencies and their projects, and we look forward to proving our value to the City on your upcoming design engineering projects.

## Understanding of Scope of Services

TAIT understands and is committed to fulfilling all items in the RFP's scope of services for this contract with both our in-house services and our sub-consultants (Sub). Below is a matrix depicting this commitment to the core services.

We can similarly perform all additional services the City needs on a project-by-project basis.

Scope of Services	Performed By
Civil-Engineering Design	TAIT
Structural	TAIT
Geotechnical	TAIT Sub-SoCalGeo
Land Surveying	TAIT
Architectural	TAIT
Landscape Architectural and Irrigation	TAIT Sub-CDPC
Environmental	TAIT & TAIT Sub-TBD
Electrical	TAIT Sub-tk1sc
Mechanical	TAIT Sub-tk1sc
Instrumentation and Control Systems	TAIT
Financial and Economic Consulting Engineering	TAIT & TAIT Sub-TBD



## e. Relevant Project Experience

### Santiago Park Nursery

#### City of Santa Ana, CA

TAIT provided the City's Water Department with surveying and design services to define the reuse of the abandoned portion of Santiago Park, once used by the Santa Ana Police Department as a canine training area.

The scope of services included topographic and boundary services to identify the existing improvements for demolition in providing a "clean site" for re-use as a City demonstration area for drought tolerant landscape and irrigation. In addition, new fencing and a pathway to connect this area to other portions of the Park were delineated.

#### Reference Contact:

Robert Aguirre, PE

#### Client:

City of Santa Ana

#### Design Cost:

\$17,400

#### Project Dates:

Design: September 2021-  
May, 2022

#### Project Team:

PIC: Jacob Vandervis

PM: Todd Broussard

QA/QC: David Sloan

### East Station Perimeter Wall Project

#### City of Santa Ana, CA

TAIT is currently providing the City's Water Department with surveying, design, and landscape architecture services to design and construct a new CMU perimeter wall at the East Pump Station Located within the City. The new perimeter wall was required to provide higher security for the site which was currently experiencing a high percentage of individuals attempting to enter the site

The scope of services included topographic and record boundary services to identify the existing improvements for demolition, design of new perimeter wall and security system, street improvements, landscape improvements, and coordination of on and off site utilities. The project scope also expanded to include the design and survey of two additional City facilities which required the preparation of an extensive record of survey to document incorrect prior monumentation of the roadway. Survey efforts were extensive and required coordination with City surveyor as well as the County surveyor in order to obtain approval of the revised record of survey. Design is anticipated to be completed in Summer of 2022 and Construction is currently pending.

#### Reference Contact:

Armando Fernandez, PE

#### Client:

City of Santa Ana

#### Design Cost:

\$132,000

#### Project Dates:

Design: 2020- 2022

#### Project Team:

PIC: Jacob Vandervis

PM: David Sloan

QA/QC: Todd Broussard



## Pipeline Management Program, FY2019-2020- Phase 1 Project

### Glendale Water & Power, Glendale, CA

TAIT was contracted to provide design build services with JDC for the potable waterline project within the various residential neighborhoods of Glendale, CA. The project was located in the residential streets in an area of Glendale which required our team to develop construction documents that could accommodate traffic during construction and a design that would work with many existing utilities. The design involved the preparation of plans and specifications for approximately 9,951 linear feet of 8-inch water pipeline and 1,584 linear feet of 12-inch water pipeline.

TAIT provided the design services along with topographical survey of the neighborhood. Due to the numerous existing utilities and mains within the project, detailed designs were provided to ensure adequate clearance between all utilities. TAIT met and discussed with many of the utility surveyors in order to ensure the final design and construction was approved by all.

#### Reference Contact:

Maria Fraser, PE, CIP  
Engineering Manager  
13220 Central Avenue  
Chino, CA 91710  
(909) 334-3310  
[mfraser@cityofchino.org](mailto:mfraser@cityofchino.org)

#### Client:

City of Chino

#### Construction Cost:

\$2.1 million

#### Design Cost:

\$134,998.75

#### Project Dates:

2018-2022

#### Project Team:

PIC: Jacob Vandervis  
PM: David Sloan  
PE: Bart Mink

## Pipeline Management Program, FY2018- 2019-Phase 1 Project

### Glendale Water & Power, Glendale, CA

TAIT was contracted to provide design build services with JDC for the potable waterline project within the various residential neighborhoods of Glendale, CA. The project was located in the residential streets in an area of Glendale which required our team to develop construction documents that could accommodate traffic during construction and a design that would work with many existing utilities. The design involved the preparation of plans and specifications for approximately 12,406 linear feet of 8-inch water pipeline and 480 linear feet of 12-inch water pipeline.

TAIT provided the design services along with topographical survey of the neighborhood. Due to the numerous existing utilities and mains within the project, detailed designs were provided to ensure adequate clearance between all utilities. TAIT met and discussed with many of the utility surveyors in order to ensure the final design and construction was approved by all.

#### Reference Contact:

Coleman Johnson  
141 N. Glendale Ave.  
Glendale, CA 91206  
(818) 551-6910  
[cjohnson@glendaleca.gov](mailto:cjohnson@glendaleca.gov)

#### Client:

Glendale Water & Power

#### Construction Cost:

\$4.4 million

#### Design Cost:

\$193,796

#### Project Dates:

Design: 2019-2020  
Construction: 2020

#### Project Team:

PIC: Jacob Vandervis  
PM/PE: Samantha Wohlfarth  
QA/QC: David Sloan





## Chino Alley Sanitation/Rehabilitation Projects; SN-161 & SN-191

### City of Chino, CA

TAIT provided full reconstruction design and surveying services to the City of Chino for nine (9) separate alley segments comprising of approximately 8,500 lineal feet of existing alleyways, protection of existing above ground utility appurtenances, PCC alley approaches, PCC ADA curb ramps, PCC ADA sidewalks, proposed bulb-outs, damaged water meter box replacements, and approximately 2,650 LF of a new 8" PVC waterline replacing a similar length of 50+ year old 6" ACP line within one alley. The City required that all points of connection to the existing systems running along crossing alleys be upgraded to include the newer and larger PVC water pipe and the installation of new water values in each cross alley. Many of the segments between cross alleys required obtaining approvals from the State Division of Drinking Water due to restricted vertical clearances between existing utilities installed in the narrow alley. The contractor is currently finalizing final punch list on this successful project this month, April 2022.

**Client:**

Glendale Water & Power

**Reference:**

Kevin Runzer

141 N. Glendale Ave.

Glendale, CA 91206

[krunzer@glendaleca.gov](mailto:krunzer@glendaleca.gov)

(818) 551-6910

**Construction Cost:**

Approx. \$1.69 M

**Project Dates:**

Design: 2016-2017

Construction: 2017

**Project Team:**

PIC/PM: Jacob Vandervis

QA/QC: Todd Schmieder

PE: Samantha Wohlfarth

## Quadrant III Water Main Replacements

### City of Chino, CA

TAIT has provide design services to the City of Chino for approximately 7000 linear feet of new 8-inch PVC water line replacing a similar length of 50-year old 6-inch ACP lines within 13 residential street. Over 170 customers will be affected during construction. The City required that all points of connection to be upgraded to include the newer and larger PVC water pipe and the installation of new water values in each cross street. Eight of the thirteen segments require obtaining approvals from the State Division of Drinking Water due to restricted horizontal clearances in the narrow residential streets. To assist the City in meeting an early delivery schedule for one of their current water projects Quadrant III water plans were separated into two separate bid contracts. The first segment of 2800 LF was recently awarded at a low bid price of \$990,000 and construction commenced in April 2018 and completed in 6 months. The second bid package received City authorization to advertise in February 2018 and was constructed in 2018.

**Client:**

City of Chino

**Reference:**

Lupe Camacho

13220 Central Avenue

Chino, CA 91710

[lcamacho@cityofchino.org](mailto:lcamacho@cityofchino.org)

(909) 334-3406

**Construction Cost:**

\$2.3 million

**Project Dates:**

Design: May 2017-Jan. 2018

Construction: 2018

**Project Team:**

PIC: Jacob Vandervis

PM: Todd Schmieder

PE: Samantha Wohlfarth

QA/QC: David Sloan



## Hoover, Toll, Keppel Recycled Water Project

### Glendale Water & Power, Glendale, CA

TAIT was contracted to provide design build services with JDC for the recycled water project within the Glenwood residential neighborhood and surrounding schools. The project was located in residential streets in an area of Glendale which required our team to develop construction documents that could accommodate traffic for three public schools and a design that would work with many existing utilities. The design involved the preparation of plans and specifications for approximately 5,890 linear feet of 8-inch recycled water pipeline to bring recycled water to GWP's customers in the area. In addition, the project provided enough capacity for future extension and expansion. TAIT provided the design services along with topographical survey of the neighborhood. Due to the numerous existing utilities and mains within the project, detailed designs were provided to ensure adequate clearance between all utilities.

#### Reference Contact:

Kevin Runzer  
141 N. Glendale Ave.  
Glendale, CA 91206  
(818) 551-6910  
[krunzer@glendaleca.gov](mailto:krunzer@glendaleca.gov)

#### Client:

Glendale Water & Power

#### Construction Cost:

\$3.1 million

#### Project Dates:

Design: 2018-2019

Construction: 2019

#### Project Team:

PIC/PM: Jacob Vandervis

PE: Samantha Wohlfarth

QA/QC: Todd Schmieder

## f. References

### City of Chino

Lupe Camacho

(909) 334-3406

13220 Central Avenue, Chino, CA 91710

*Projects: Quadrant III Water Main Replacement*

### Glendale Water & Power

Andy Cheung

(818) 551-6909

141 N. Glendale Ave., Level 4, Glendale, CA 91206

*Projects: Hoover, Toll, Keppel Recycled Water Project, Kenneth and Ben Lomond Water Main Replacements Project, Adams Hill Neighborhood Water Main Replacement Project, Beaudry Terrace Water Main Replacement Project*

### Golden State Water Company

Conde Ventura, PE

(310) 436-6950 x102

630 E. Foothill Boulevard, San Dimas, CA 91773

*Projects: Foothill District Water Main Replacements, Normandie Ave. Water Main Replacement*





## 2. Scope of Services and Schedule

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Below is a sample Scope of Work from a recent successful Water Main Replacement Project.

### Sample Scope of Work

#### **PHASE 1) ADMINISTRATION**

##### ***A As-Built Research, Investigation and Review***

Review of record Information provided from the City files will be conducted to verify existing field conditions. TAIT will also research and acquire existing available design records and utility information. It is anticipated that the information collected during the research phase will be used to assist in the development of the project base maps.

The records research will include obtaining records from the City, utility providers and all other jurisdictions within the project limits. In addition, TAIT will document, contact, and coordinate with other public and private agencies/entities/jurisdictions involved to inform them about the project and obtain their records, approval, and permit requirements, as applies.

Obtained records will be reviewed and correlated with the Topographic and aerial (Bing Map) data in order to prepare the final project Base map.

##### **Deliverables:**

- ✓ Digital Copies Records, Field Notes, Observations, & Photos

##### ***B Utility Research & Notification***

###### **Utility Notices**

At project inception, TAIT will conduct utility research through Dig-Alert and City records and will prepare and distribute the 1st utility notifications which will identify the project intent, limits, and general scope of work and will request that each utility provide our office with the associated As-Built records for the project limits. TAIT will review and compile the received responses in to the project Utility matrix for tracking of existing utilities and conflicting facilities.

Upon completion of the 60% design, TAIT will distribute a 2nd notice to all present utilities and will include a current set of plans for the utility's review and comment. All foreseen utility relocations or conflicts will be identified in this notice for the Utility's review and action. TAIT will actively coordinate with all utilities in order to ensure all relocations are coordinated and completed prior to the start of the City's project.

The final notice will be sent at the design completion stage and will include a signed print of the plans for the utilities records. TAIT will review all obtained record data and will coordinate with utilities that may be affected in order to obtain further design and construction requirements. All utility coordination, records and data will be compiled at the end of the project and will be submitted to the City for future reference.

###### **Utility Records & Base map**



As utility records are received, TAIT will update the project base map to ensure the plans have the most recent alignment, size, type and depth of utilities currently present.

### **Utility Coordination**

TAIT will coordinate with all present and affected utilities during the course of the design. All potential conflicts with the improvements will be identified, and contact will be made with the appropriate utility coordinator. Utility permits are not anticipated as part of this contract.

### **Utility Potholing**

Tait will develop a potholing plan to identify locations in the field where field potholing may be required to finalize the project's vertical alignments. Abased on a review of each project segment Tait has identified potentially a total of 30 potholes that may be required.

After the approval of the preliminary water line pipe alignment and connection points, Tait will I identify each pipe crossings using record drawings, field observations and field survey data. Of the total number of pipe crossings identified, Tait will then identify the most critical crossings that would require further investigation. The critical locations will then be used to develop a Potholing Plan for the project. This Plan will then be submitted to the City for approval of the Potholing Plan and the contract required number of potholes being proposed.

Tait's Fee Proposal provides a cost be pothole, the cost for a full day of potholing (approximately five to six potholes based on the pothole locations and traffic conditions encountered) and the total cost to do the 30 potholes initially identified by Tait in the development of our proposal project understanding. Based on the final Number of Potholes the city will identify the proposed approach to address the cost of conducting field services portion of the project's utility potholing.

### **Utility Potholing - Field Services – OPTIONAL TASK**

TAIT has obtained the services of Bess Testlab Inc. (BTL) in order to provide any required potholing on this contract. In order to maximize the benefit of the potholing activities, TAIT proposes to conduct all potholing services during the preparation of the 60% plans. Pothole locations will be tied to existing features in the field in order to accurately represent the location of the potholes on the plans.

The proposed potholing approach will use "spotholing" methods in order to minimize the time of traffic impact and damage to the pavement structure. 1'x1' diameter holes will be cut in the pavement soil will be excavated down to the depth of existing utility via use of a vacuum truck and a high pressure hose.

### **Deliverables:**

- ✓ Utility Notice & Responses, Utility Records, Utility Correspondence, Dig Alert list of Utilities
- ✓ Utility Potholing Base map
- ✓ Utility Pothole Report



## **C** *Field Survey*

TAIT will conduct field survey and prepare the base mapping per RFP requirements utilizing our in-house surveying services. Per the RFP requirements, the pricing for surveying services has been included at a prevailing wage rate. The scope of Field Surveying includes:

### **Design Field Survey**

Upon issuance of NTP, TAIT survey will conduct a field control and topographic survey at each project location in order to obtain the required topographic elements.

### **Project Base Mapping**

As part of this contract, TAIT will prepare the following base mapping for incorporation in the project design:

- Topographic
- Right of way
- Existing Utility

It is assumed that the City will provide TAIT with any available GIS and record base maps for the project limits (Right of Way & Utility) to aid in the preparation of the base maps. TAIT will format and update the base mapping with the noted existing records and all other applicable existing improvements (loops, signal equipment, striping, legends, etc.). It is anticipated that right of way base mapping will be per record documents only, and that the City will provide all available right of way and property records to TAIT at the design kickoff meeting.

### **Survey Shapefile Conversion & Metadata Input**

Upon completion of the base mapping activities, TAIT will convert the topographic survey and aerial survey base mapping to the required GIS shapefile format and will input available metadata for the utility facilities which were observed and found during the records research. All data will be exported per the RFP requirements and submitted to the City via FTP server transfer.

### **Deliverables:**

- ✓ Field Survey Data
- ✓ CAD Project Base Map
- ✓ Topo Shapefile Dataset with Metadata

## **D.1** *Preliminary Engineering Analysis and Alignment Selection*

During and upon completion of the previous tasks, TAIT will initiate the preliminary engineering analysis and alignment selection task. This project includes the design and analysis of nine separate project segments. The location and proposed alignment for the water mains will be analyzed in order to determine the most ideal location and path for both features. TAIT will utilize the geotechnical investigation provided by the City in conjunction as part of this initial design. This task includes:



### Design Field Walk

This sub-task includes all hours necessary for the field review and design required to observe and document the existing site conditions and to identify anticipated work items. Existing condition photos will be taken along the project limits in order to aid the City in construction coordination. All field notes will be compiled and stored in the design file for reference.

### Preliminary Design & Layout (30% Plans)

TAIT will prepare 30% layout plans are part of this task and will submit to the City for review and verification of the proposed alignment and layout of improvements. Upon city review and approval of the proposed alignment and improvements TAIT will initiate the plan and profile preparation stage.

#### **Deliverables:**

- ✓ Field Walk Notes
- ✓ Preliminary Findings & 30% Layout Plans (Digital & Hard Copies)

### ***D.2 Final Plan Preparation***

Upon City confirmation of the preferred design alternative, TAIT will initiate the preparation of the 60% PS&E package. The following are the anticipated sheet counts for the proposed plan set:

SHEET DESCRIPTION	TOTAL ANTICIPATED SHEETS												
	Bid Package 1					Bid Package 2							
Project area	23	28	30	32	41	38	42	43	46	47	48	49	59
Title Sheet	1					1							
Notes, & Typical Details	2					3							
Water Main Replacement Plan & Profile	3	2	1	2	1	2	2	1	1	1	1	3	1
Water & Sewer Main Connection Details	2					3							
2-phase Traffic Control Plans	2	2	2	2								2	
Total Sheet Count	10	4	3	4	1	9	2	1	1	1	1	5	1

The key components of the plan package are described below:

#### Title Sheet

A title sheet will be prepared for each Bid Set (total of two) and will include all City of Chino standard notes, a vicinity map predicting the location of each pipe replacement segment, a list of utility contacts and project abbreviations and legends. The Title Sheet (and the rest of the plan set) will be prepared on the City standard title block on 24"x 36" bond paper.



### **Notes & Typical Project Details**

Typical Section Sheets will be prepared for each bid set (a total maximum of five sheets – 2 for Bid Set 1 and 3 for Bid Set 2). The Typical Section sheets will include typical details for each street segment and a water line trenching detail. In addition, details for typical water lateral service connections/extensions, undercrossing, valves and other appurtenances may be included on this sheet. Additional sheets may be included based on the plan development and project needs. If requested by the City, a summary list of bid quantities per Bid Set will be provided on this Sheet.

Special details required for construction of connections will be included on separate Connection Detail sheets. Additionally, notes on connection requirements will be included on the Connection Detail sheets. Phasing requirements for the construction of the water main will be included on the water main replacement plans in order to ensure continuous service to the properties affected by the project (and/or on the traffic control plans, as appropriate).

### **Water Main Replacement Plan & Profile**

Water main replacement plan & profile sheets will be prepared for the entire project limits with a 1"=20' horizontal and a 1"=2' or 4' vertical scale. Roadway stationing will be depicted along the roadway centerline with water improvement stationing being depicted along the proposed water main for all proposed improvements. Location of work items will be called out based on roadway or water main stationing, as applicable.

Existing roadway, striping, private property, and surface features will be depicted on the plans along with callouts for owner, size, and type of all substructure utilities for which records were obtained. The profile will include an existing ground profiles of the approximate roadway surface and a pipe network projection of all proposed water main improvements including valves, crossings, and any additional water features. Proposed grades and location of the existing sewer main improvement will also be depicted on the water main plans for reference during construction and to ensure conflicts are avoided. Locations of existing sewer laterals, if known based on information provided to Tait, will be identified in the plans. Dry Utilities will be identified by notes based on information may available by Utility providers.

### **Water Main Connection & Abandonment Details**

Connection and abandonment details (as applies) will be provided for all interconnect or major water main connections along the proposed project limits. Details will be prepared in 1"=10' scale depending on the level of complexity for the location. A maximum of one detail per segment is assumed except for Segment 23, 42, 49 and 59. Segment 23 is assumed to have three connections details and Segments 42, 49 and 59 are assumed to have two connections each.

### **60%, 90%, & 100% PS&E QA/QC, Compilation, and Submittal**

The following submittals are anticipated as part of this project:

- ✓ 60% PS&E
- ✓ 90% PS&E



- ✓ 100% PS&E

Prior to each submittal, TAIT will conduct a full QA/QC review per our quality assurance protocols described at the end of this section. Additionally, TAIT will plot, compile and deliver the noted number and format of PS&E to the City for each submittal per the RFP requirements.

**Deliverables:**

- ✓ 60% Plans (4 Hard Copy Sets)
- ✓ 90% Plans (4 Hard Copy Sets)
- ✓ 100% Plans (4 Hard Copy Sets)

**E Traffic Control Plans**

**Traffic Handling Concept Coordination with City**

A traffic handling concept or approach for the project will be discussed with the City in conjunction with the city's review of the 60% PS&E documents. The purpose of the traffic handling concept coordination efforts will be to identify site issues/traffic circulation concerns that will form the basis of understanding for final traffic control requirements based on a specific project segment. Based on the discussion with the City, the project segments that require the preparation of a Traffic Control Plans as part of the bid documents will be identified. The actual preparation of the project's Traffic Control Plans will be provided as an Optional Task.

The Bid Set specifications, developed under Work Task G, and the traffic control/handling notes reflected on the construction plans will be prepared to provide clear delineation of the City's requirements for the contractor's implementation of traffic control requirements for project segments where a project specific Traffic Control Plan has not been prepared.

**Traffic Control Plans – OPTIONAL TASK**

TAIT and TAIT's Subconsultant (TJW Engineering, Inc.) will prepare two-phase Traffic Control Plans for the City designated project segments based on the results of the conceptual traffic handling discussions with the City as an Optional Task. A cost per a typical single location based on a 2-phased traffic control plan per project segment has been provided.

The City-requested Traffic Control Plans will then be prepared for submittal to the City at the 90% and 100% stages. The Traffic Control Plans will be prepared based on city as-built street plans and images obtain from aerial photographs and will be developed per the California Manual of Uniform Traffic Control.

**Deliverables:**

- ✓ Traffic Handling Coordination meeting Notes at 60% Stage
- ✓ Traffic Control Plans at 90% Stage (Digital & Hard Copy), if requested by the City
- ✓ Traffic Control Plans at 100% Stage (Digital & Hard Copy), if requested by the City



## ***F Engineer's Quantity and Cost Estimate***

TAIT will prepare cost estimates at the 60%, 90% & 100% PS&E stage for City review and input. Unit prices will be checked against recent City projects. Work items will be prepared to correlate with the specifications and will include all work items including mobilization, storm water compliance, traffic control and striping. The cost estimate will be reviewed by the QA/QC Manager prior to each submittal per the quality assurance program.

### **Deliverables:**

- ✓ 60% Engineer's Cost Estimate (Digital & Hard Copy)
- ✓ 90% Engineer's Cost Estimate (Digital & Hard Copy)
- ✓ 100% Engineer's Cost Estimate (Digital & Hard Copy)

## ***G Construction Specifications and Bid Documents***

TAIT will prepare technical specifications for the proposed project based on the City boilerplate specifications. Each work item will have a clear measurement and payment clause in order to avoid costly change orders during the construction phase. Specifications will also include clear delineation of the traffic control requirements, water pollution control requirements, survey monument protection and replacement requirements, and construction scheduling parameters as well as coordination requirements with utilities. Utility owners, coordination and contact requirements, and additional permitting requirements will also be included in the specifications. The project specifications will be reviewed by the QA/QC Manager prior to each submittal per the quality assurance program.

The initial Specification submittal at 60% PS&E will include a single set of the Draft Technical Specifications covering both bid packages that will be used to verify City format requirements. (A separate Bid Schedule for each Bid Set will be provided with the 60% Draft Technical Specifications.) The 90% and 100% Project Specifications will include a separate package for each Bid Set.

### **Deliverables:**

- ✓ 60% Draft Project Specifications (Digital & Hard Copy)
- ✓ 90% Project Specifications (Digital & Hard Copy)
- ✓ 100% Project Specifications (Digital & Hard Copy)

## ***H Plan Interpretation and Bidding Assistance:***

This task includes the necessary hours for providing limited bidding assistance to the City during the bidding phase. TAIT will remain available to the City and will respond to Contractor RFIs based on the City's request. This task has been assumed to be billed in a time and material basis. Additional hours and fees may be requested based on the final number of RFIs and correspondence required during the bidding phase.

## ***I Construction Support and Shop Drawing Review***

This task includes the following two sub-tasks



### **Construction Support:**

This task includes the necessary hours for providing limited construction assistance to the City during the construction phase. TAIT will remain available to the City and will respond to Contractor RFIs based on the City's request. TAIT will also review and provide responses to Contractor submittal documents during the construction phase. It is assumed that the City's construction manager will take the lead role in reviewing submittal documents and that TAIT will play an assisting role for the submittals that require further attention to detail. For budgeting purposes, this task has been assumed to be billed in a time and material basis. Additional hours and fees will be requested based on the final number of RFIs and submittal review and construction correspondence required during the construction phase.

### **Deliverables:**

- ✓ Written Response to RFIs (As needed)
- ✓ Stamped and Reviewed Construction Submittal Documents (As Needed)

### **As-Built Plans**

Upon completion of the construction phase, TAIT will incorporate the City provided redlines from the Contractor and the Inspector in to the design plan set in order to prepare a final As-Built document for City records. All field changes will be noted via rev cloud and delta note to indicate As-Built revisions. Plans will be prepared and submitted in PDF format to the City for initial review and acceptance.

### **Deliverables:**

- ✓ As-Built Plans (PDF Copy)

## ***J Project Meetings***

Per RFP requirements, a total of 5 meetings have been assumed as part of this task. At a minimum, the following meetings are assumed:

### **Design Kickoff Meeting**

A design kick-off meeting with TAIT's key team members, City staff, and other affected parties, will be held at the start of the project to identify clear lines of communication and review the final scope, schedule, milestones and other project details of concern. It is anticipated that the City will provide pertinent record information for the existing streets and utilities including as-built plans for the project limits. It is also understood that the City will provide standard drawings, templates, and City design standards to TAIT at this time. Based on our actual NTP date, TAIT will prepare and present an update of our project schedule. TAIT will also prepare a meeting agenda for initial circulation. Upon completion of the meetings, TAIT will prepare meeting minutes for circulation, review and comments. All meeting agendas, minutes and exhibits will be filed in our project folder for final submittal to the City at the completion of the project.





### Design Review & Status Update Meetings

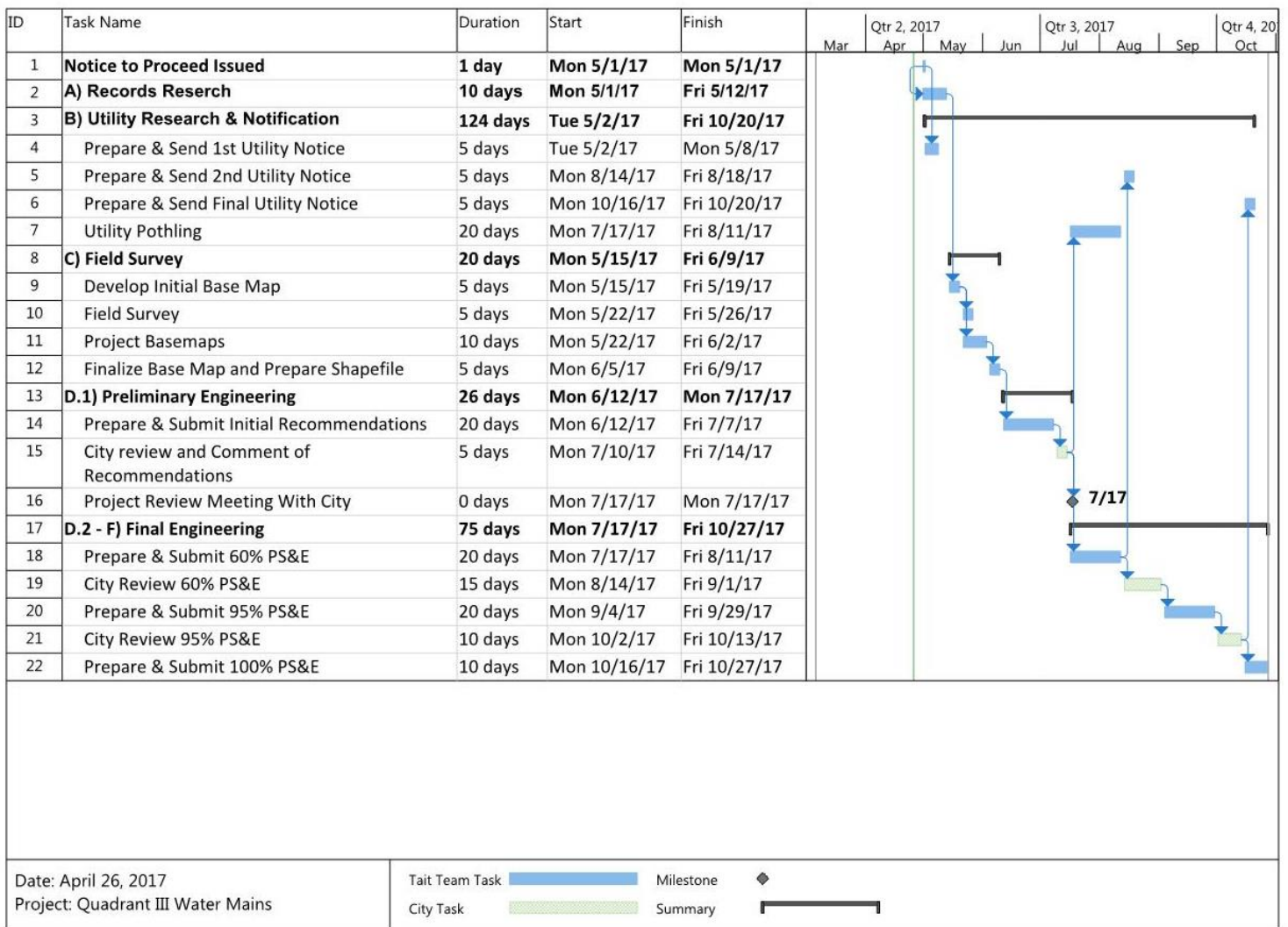
Based on City require and project needs, TAIT will schedule design review and status update meetings with City staff and stakeholders to discuss and review the project. TAIT will prepare Agenda/Minutes for the given meetings and will coordinate ahead of time with the City to verify attendees and key points of discussion.

### **Deliverables:**

- ✓ Meeting Agenda, Minutes, Updated Schedule & Coordination Records

## Sample Project Schedule

Below is a sample project schedule from a recent successful Water Main Replacement Project.





### 3. Fee Proposal

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TAIT's Hourly Fee Schedule is included in a separate document per the RFP's instructions.

### 4. Certifications

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We've included our certification forms in the Appendix to comply with the RFP's page limit.



## Appendix

### Resumes



#### Jacob Vandervis, PE

##### ***PRINCIPAL-IN-CHARGE***

Mr. Vandervis currently serves as a Vice President/Chief Operations Officer in TAIT's Corporate Office in Santa Ana. In addition to his management duties, he acts as the primary point of contact for several national retail and residential developers. Mr. Vandervis is a licensed civil engineer with over 36 years of experience with land development projects in the western United States. He has been a member of the TAIT team for the past 25 years. His areas of expertise include site design, grading design, water main design, drainage studies, water pollution control plans, erosion & sediment control plans, as well as street improvement plans. He is experienced in site design of all sizes for commercial development, involved in preliminary design to develop cost estimates & due diligence packages, as well as experienced in the entitlement phase of projects. His surveying experience includes the preparation of ALTA and topographic surveys, parcel maps, record of survey and legal descriptions. He is a certified Qualified SWPP Developer (QSD), Certified Development, Design & Construction Professional (CDP) and Certified Retail Property Executive (CRX).

##### **Pipeline Management Program, FY2019-2020-Phase 1 Project, Glendale Water & Power, Principal-in-Charge, 2019-2020**

Principal-in-Charge of the design build services with JDC for the potable waterline project within the various residential neighborhoods of Glendale, CA. The project was located in the residential streets in an area of Glendale which required our team to develop construction documents that could accommodate traffic during construction and a design that would work with many existing utilities.

##### **Pipeline Management Program, FY2018-2019 Phase 1 Project, Glendale Water & Power, Principal in Charge, 2018-2019**

Principal in Charge of the work being conducted by all TAIT staff to provide Design Engineering Service for the \$3.1 M water main replacement project throughout various locations in Glendale, CA. Primary responsibilities were to review and stamp water main replacement plans and specifications, supervise design engineers and coordinate with client and contractor through the design and construction phases.

##### **Education**

B.S. -- Civil Engineering  
California State University,  
Long Beach

##### **Year of TAIT Team Enlistment**

1997

##### **Total Experience**

36

##### **Certifications**

Registered Professional  
Engineer, Civil – California,  
Oregon, Arizona, Utah,  
Nevada, North Dakota,  
Washington, Hawaii, and  
Alaska.

Professional Engineer  
California No. C46301



**El Salvador Park Regional Infiltration Basin, City of Santa Ana, Principal in Charge & QA/QC Manager, 2020**

Principal in Charge & QA/QC Manager of the full service civil engineering design services associated with a planned regional water quality basin at El Salvador Park in the City of Santa Ana. The scope of work included the design and analysis of two parking lots located off of Civic Center Drive as well as a vacant corner lot located at the intersection of Civic Center & English Street for the planned infiltration basin.

**Packer Place Linear Park Dry Creek & Drainage Improvements, City of Lake Forest, Principal in Charge & QA/QC Manager, 2019-2020**

Principal in Charge & QA/QC Manager of the full service civil engineering design services to mitigate drainage ponding and flooding that was occurring at Packer Place linear park between the Packer Place Cul De Sac and Cavanaugh Drive.

**Bristol Street and Civic Center Drive Water Quality Improvements, City of Santa Ana, Principal in Charge & QA/QC Manager, 2020**

Principal in Charge & QA/QC Manager of the civil engineering design services associated with water quality improvements on the Bristol Street and Civic Center Drive Improvement Project.

**WQMP/BMP Design for the El Toro 20 Acre RV Storage Lease, City of Irvine, Principal in Charge & QA/QC Manager, 2019-2020**

Principal in Charge & QA/QC Manager of the Water Quality Best Management Practices (BMP) and included cost estimates, coordination with the client, development of construction plans for the BMP's installation, and the design and approval of a connection to an existing Orange County Flood Control facility.

**Foothill Water Main Replacement Project, Los Angeles County, Golden State Water Company, Project Manager, 2013**

Project Manager & Principal in Charge of the work being conducted by all TAIT staff to provide Design Engineering Service for then \$2.5 M water main replacement project throughout six locations in Los Angeles County for Golden State Water. Primary responsibilities were to review and stamp water main replacement plans and specifications, supervise design engineers and coordinate with client and contractor through the design and construction phases.

**Abridged List of Additional Project Experience by Jake:**

- Normandie Ave. Water Line Improvements, Golden State Water Company, Principal in Charge,
- Harbor Blvd. Storm Drain and Street Reconfiguration Project, City of Garden Grove, Principal-in-Charge
- On-Call Engineering Services, Orange County Public Works, Principal-In-Charge
- 100 Acre Parcel Development El Toro Marine Base, Orange County Public Works, Irvine, CA, Project Director
- City Hall Underground Fuel Storage Tank Removal and Replacement, City of Irvine, Principal-In-Charge



## M. Todd Broussard, P.E., QSD/P

### QA/QC MANAGER

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In addition to 14 years of private development experience (9 of those with TAIT), Mr. Broussard has over 21 years of municipal design and project management experience as Principal Civil Engineer with the **City of Huntington Beach** Public Works Department, overseeing an annual Capital Improvement Program budget of approximately \$25 million per annum. Project specific responsibilities included street improvements, wastewater, stormwater, and special projects outside of the public right of way for the City as detailed below.

### Sewer Master Plan, Principal in Charge, 2005

As Principal in Charge, oversaw the consultant preparation of the City's Sewer Master Plan and subsequent focused Sewer Flow Study to identify capacity related improvements for the City's approximately 500 miles of sewer mains and 31 sewer lift stations.

### Sanitary Sewer Monitoring Program (SSMP), Principal in Charge, 2010

Served as Principal in Charge to develop the City's initial SSMP and served on the Waste Discharge Regulation (WDR) Steering Committee, to develop the County of Orange SSMP guidelines.

### Sewer Lining Projects, Engineer of Record/Principal in Charge, 2002-2021

Served as Engineer of Record and/or Principal in Charge of approximately fifteen individual sewer lining projects, totaling approximately 150,000 lineal feet of 8" to 18" sewer main lines, utilizing both "fold and form" and "cured in place" lining methods. Projects also included lining of adjacent sewer manholes, primarily with polyurethane coatings.

### Warner Avenue Sewer Upgrade Project, Principal-in-Charge, 2014

Served as Principal in Charge overseeing consultant designed gravity sewer main upgrade project. This project upsized the existing sewer main utilizing the micro tunneling method of construction.

### Sewer Lift Station Rehabilitation Projects, Principal in Charge, 2003-2019

Served as Principal in Charge, overseeing consultant design, for ten sewer lift station rehabilitation projects. Most projects were completely rebuilt adjacent to the existing lift stations, due to effects of the marine environment on the existing structures. Most projects required either dewatering and/or tremie seal insitu construction due to high ground water.

### Drainage Master Plans, Principal in Charge, 2005 & 2018

Served as Principal in Charge overseeing two consultant prepared Drainage Master Plans. Many of the City's approximately 200 miles of storm drains and

### Education

Master of Public  
Administration, California  
State University  
B.S. -- Civil Engineering,  
University of Louisiana,  
Lafayette

### Year of TAIT Team Enlistment

2021

(1989-1997) Previous

### Total Experience

35

### Certifications

Professional Engineer  
California No. C57144  
CWEA Grade IV  
Wastewater Collection

### Associations

American Public Works  
Association  
American Society of Civil  
Engineers  
California Water  
Environment Association



17 storm drain pump stations were constructed prior to County of Orange's 1986 Hydrology Update, which rendered many of the existing drainage infrastructure deficient. With no dedicated funding source, Federal Grants have been utilized to improve this infrastructure.

#### **Alabama Storm Drain Upgrade Project, Engineer of Record/Principal-in-Charge, 2008**

Served as Engineer of Record and Principal in Charge of the Alabama Storm Drain project to upsize approximately 2,200 lineal feet of storm drains. The project utilized a Federal Community Development Block Grant to fund the construction and required a Coastal Development Permit.

#### **Meredith Storm Drain Project, Principal-in-Charge, 2016**

Principal in Charge for the Meredith Storm Drain project, which upsized approximately 500 lineal feet of storm drains and adjacent catch basins.

#### **Shields Pump Station Project, Project Manager, 2001**

Served as Project Manager for the Shields Pump Station Rebuild overseeing the consultant design for replacement of the pump station, which was land locked and required construction during the rainy season.

#### **Heil Avenue Pump Station Project, Principal in Charge, 2020**

Principal in Charge over consultant designed pump station. This project was funded by a Federal Pre-Hazard Mitigation Grant, which required a benefit cost analysis as part of the application process. The project was shelf ready awaiting final FEMA authorization to proceed.

#### **Meredith Pump Station Building Expansion, Principal in Charge, 2016**

Served as Principal in Charge overseeing the consultant design for the expansion of the Meredith Pump Station building to accommodate larger pumps.

#### **Beach Outlet Water Quality Project, Engineer of Record/Principal in Charge, 2004**

Served as Engineer of Record and Principal in Charge for construction and installation of CDS gross pollutant separators at 12 beach and wetland outfalls. This project was funded by a State grant due to higher-than-normal ocean bacteria levels in the early 2000's.

#### **Abridged List of Additional Project Experience by Todd:**

- Arterial Rehabilitation, Engineer of Record/Principal in Charge, 2002-2021
- Residential Overlay, Engineer of Record/Principal-in-Charge, 2011-2021
- Alley Rehabilitation, Engineer of Record/Principal-in-Charge, 2015-2021
- Atlanta Street Widening Project, Principal-in-Charge, 2019
- Newland Street Widening Project, Principal in Charge, 2010
- Beach Blvd. @ I-405 Thru-Lane Improvements, Principal in Charge, 2015





## David Sloan, PE

### **LEAD PROJECT MANAGER/SPECIFICATION MANAGER**

As a Project Manager, David has performed and coordinated detailed designs on arterial roadways and pipeline projects, and conducted utility coordination for major relocations projects. He has also prepared designs for temporary construction traffic control plans during his career. David has acted as community coordinator for high profile projects and has coordinated presentations of the project scope, intent, and impact in front of the affected stakeholders and local communities. He is an effective communicator and actively stays in contact with his clients throughout the life of his projects. David has also been responsible for construction management of multiple public agency projects, which brings added value to the design of projects by fully understanding the methods and costs of construction projects. David is also responsible for supervising staff at TAIT on the preparation of public and private development projects throughout the Southern California region.

### **Pipeline Management Program, FY2019-2020-Phase 1 Project, Glendale Water & Power, QA/QC Manager, 2019-2020**

David served as the QA/QC Manager to provide design build services with JDC for the potable waterline project within the various residential neighborhoods of Glendale, CA. The project was located in the residential streets in an area of Glendale which required our team to develop construction documents that could accommodate traffic during construction and a design that would work with many existing utilities.

### **Pipeline Management Program, FY2018-2019-Phase 1 Project, Glendale Water & Power, QA/QC Manager, 2018-2019**

David served as the QA/QC Manager to provide design build services with JDC for the potable waterline project within the various residential neighborhoods of Glendale, CA. The project was located in the residential streets in an area of Glendale which required our team to develop construction documents that could accommodate traffic during construction and a design that would work with many existing utilities. The design involved the preparation of plans and specifications for approximately 12,406 linear feet of 8-inch water pipeline and 480 linear feet of 12-inch water pipeline.

### **El Salvador Park Regional Infiltration Basin, City of Santa Ana, Project Manager, 2020**

As Project Manager, David provided full service civil engineering design services associated with a planned regional water quality basin at El Salvador Park in the City of Santa Ana. The scope of work included the design and analysis of two parking lots located off of Civic Center Drive as well as a vacant corner lot located at the intersection of Civic Center & English Street for the planned infiltration basin.

#### **Education**

BS Civil Engineering – Tau  
Beta Pi & Chi Epsilon, USC

BS Physical Science, Biola

#### **Year of TAIT Team**

#### **Enlistment**

2014

#### **Total Experience**

15

#### **Certifications**

Professional Engineer  
California No. 82595



**Packer Place Linear Park Dry Creek & Drainage Improvements, City of Lake Forest, Project Manager, 2019-2020**

As Project Manager, David provided full service civil engineering design services to mitigate drainage ponding and flooding that was occurring at Packer Place linear park between the Packer Place Cul De Sac and Cavanaugh Drive.

**Bristol Street and Civic Center Drive Water Quality Improvements, City of Santa Ana, Project Manager, 2020**

As Project Manager, David provided civil engineering design services associated with water quality improvements on the Bristol Street and Civic Center Drive Improvement Project.

**WQMP/BMP Design for the El Toro 20 Acre RV Storage Lease, City of Irvine, Project Manager, 2019-2020**

As Project Manager, David provided Water Quality Best Management Practices (BMP) and included cost estimates, coordination with the client, development of construction plans for the BMP's installation, and the design and approval of a connection to an existing Orange County Flood Control facility.

**Quadrant III Water Line Replacement Project, City of Chino, Specs/QA/QC Manager, 2017-2018**

This City project required the replacement of approximately 8000LF of existing 6-inch ACP water pipe with new 8-inch PVC water pipe within 13 local streets for the City. The process included obtaining DDW approvals for 8 of the 13 segments.

**Pier G Avenue North Sewer Line Improvement Project, Port of Long Beach, Project Manager, 2017-2019**

As Project Manager, David provided civil engineering services for the review, recommendation, design, and construction support services for the Pier G Avenue North Sewer Line Improvement Project. The project limits spanned approximately 1/3 of a mile within Pier G, and included the review of existing conditions, analysis of tributary areas and hydraulic capacity for the existing system, preliminary design and recommendation for five separate design alternatives which included conventional open trench, pipe bursting, sewer lift stations, sewer force mains, and retrofit of existing sewer lift stations to accommodate the current peak flow conditions. Extensive meetings and coordination efforts were conducted with POLB during the preliminary engineering phase to prepare detailed quality management plans and a basis of design report that outlined all project parameters.

**Drainage Improvement Project Phase 1 & 2, City of Diamond Bar, Project Manager/Construction Manager, 2017-2018**

As Project Manager, David provided design engineering and construction management services for Phase 1 & Phase 2 of the City's Drainage Improvement Project. This project included three separate areas: 1. Brea Canyon Road – Parkway Drain System & Perforated Drain; 2. Hipass Drive – Sub drain System, Low Flow Storm Drain & X-gutters; 3. Golden Springs – Sub drain System & Low Flow Storm Drain. This project included extensive coordination with the City and the design team in order to recommend and implement final design scenarios for each location. Appropriate water quality treatment systems were implemented in all systems that have direct storm drain connection (modular wetland system), and the sub drain system and crossing were analyzed to avoid conflicts.





## Samantha (McGee) Wohlfarth, P.E.

### PROFESSIONAL ENGINEER-WATER

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#### Education

B.S. -- Civil Engineering  
Valparaiso University  
Valparaiso, IN, 2012

#### Year of TAIT Team Enlistment

2012

#### Total Experience

10

#### Certifications

Professional Engineer  
California No. 86126

Ms. Wohlfarth has professional experience that includes the preparation of grading plans, water main replacement plans, storm drain plans and drainage reports, sewer plans, cost estimates and storm water management reports for public and private developments throughout Southern California, Western Washington, and North Dakota. Her project experience also includes the preparation of storm water quality reports such as SWPPP, WQMP, SUSMP and LID as mandated by the state and local municipalities. Ms. Wohlfarth has technical knowledge with multiple software programs including AutoCAD 2014, Civil 3D, Land Desktop, Microstation, GeoPak, WWHM2012, RetainPro, and additional specialty programs.

#### Pipeline Management Program, FY2019-2020 Phase 1 Project Glendale Water & Power, Project Manager/Engineer, 2019-2020

TAIT was contracted to provide design build services with JDC for various neighborhood water main replacement projects. The project required the replacement of approximately 11,535LF of existing ACP water pipe within 8 local streets, while working in residential streets and incorporating a design that would work with many existing utilities. The process included obtaining DDW approvals for many of the segments.

#### Pipeline Management Program, FY2018-2019 Phase 1 Project Glendale Water & Power, Project Manager/Engineer, 2018-2019

TAIT was contracted to provide design build services with JDC for the Pipeline Management Program, FY2018-2019 Phase 1 water main replacement project. The project was located in residential streets in various areas of Glendale which required our team to develop construction documents that could accommodate traffic while working in residential streets and a design that would work with many existing utilities.

#### Chino Quadrant III A, B, and C Water Line Replacement Project, City of Chino Project, Project Manager/Engineer, 2017-2018

This City project required the replacement of approximately 8000LF of existing 6-inch ACP water pipe with new 8-inch PVC water pipe within 13 local streets for the City. The process included obtaining DDW approvals for 8 of the 14 segments.

#### Hoover, Toll, Keppel Recycled Water Project, Glendale Water & Power, Project Manager/Engineer, 2016-2017

TAIT was contracted to provide design build services with JDC for the recycled water project within the Glenwood residential neighborhood and surrounding



schools. The project was located in the residential streets in an area of Glendale which required our team to develop construction documents that could accommodate traffic while working and a design that would work with many existing utilities.

**Kenneth and Ben Lomond Water Main Replacement Projects, Glendale Water & Power, Project Manager/Engineer, 2015-2016**

TAIT was contracted to provide design build services with JDC for the Kenneth and Ben Lomond neighborhoods water main replacement projects. The project was located in residential streets in an area of Glendale which required our team to develop construction documents that could accommodate traffic while working in residential streets and a design that would work with many existing utilities.

**Various Projects - Bank of America ADA Upgrades, Southern CA, Project Manager 2018-2020**

TAIT was contracted to provide civil engineering and surveying services in upgrading the ADA components of various Bank of America projects across Southern California. TAIT has completed a total of 36 projects to date. The upgrades include ADA parking spaces, path of travels, ramp improvements, and all necessary components to upgrade the existing sites to the latest local, CBC and IBC codes.

**Home Depot Pasadena – Project Manager - Pasadena, CA, 2018-2020**

TAIT was contracted to provide civil engineering and surveying services at a 12.5 acre site in Pasadena, CA. The site was an existing office building and warehouse development. The project included the redevelopment of the existing buildings, site grading, paving and drainage improvements, wet utility plans, and street improvements. Services included the preparation of a Hydrology Report and Stormwater Management Report for the development. Storm water management improvements included the incorporation of detention basins and drywells, throughout the site to treat storm water runoff. Ms. Wohlfarth has provided construction engineering support services during construction to address City and owner request changes, as well as contractor's questions.

**Monterey Park Marketplace Site Development, Monterey Park Retail Partners, LLC/City of Monterey Park, Project Engineer/Project Coordinator, 2015-Present**

TAIT was awarded a contract with the developer, Monterey Park Retail Partners, LLC for the design of a 41 acre retail development within the City of Monterey Park and the City of Montebello. The design of the development includes slope stabilization, retaining wall design, street improvement design, utility installation, overall site development, and over 400,000 cubic yards of dirt removal and regrading. The project involves three geotechnical analysis. The geotechnical analysis included recommendations for the design on and near the landfill; for the slope stabilization throughout the site; and for the overall site development and construction. The project utilized detailed retaining wall designs and in some areas, pile designs. These retaining walls and pile designs were specially designed near SCE facilities and towers. Unique construction equipment has been detailed out and coordinated for this construction.



## Bart Mink, PE, LEED AP

### PROFESSIONAL ENGINEER-WATER

Bart Mink, PE, LEED AP, a registered civil engineer in California and LEED AP certified brings 24 years of multidisciplinary experience to our team. Bart is results-driven and detail-oriented. He is proficient in many facets of civil site engineering, including the municipal, industrial, commercial and residential fields. Bart is proficient in water hydraulic modeling utilizing KY Pipe and WaterCAD. He is also proficient in wastewater modeling using SewerCAD. Bart has in depth knowledge and experience in water/wastewater treatment and design. He is skilled in state and federal funding policies and procedures and is efficient with Autodesk Civil 3D including grading, corridors, and pipe networks. Bart is experienced and knowledgeable in hydrology and hydraulics utilizing such programs as TR-55 and HEC-RAS. He is also knowledgeable with FEMA Letters of Map Amendment and Map Revision procedures.

### Education

BS Civil Engineering –  
Arkansas State University

### Year of TAIT Team Enlistment

2018

### Total Experience

24

### Certifications

Professional Engineer  
California No. 82953  
Arkansas No. 12169  
2009/LEED Accredited  
Professional

### Associations

American Public Works  
Association, US Green  
Building Council  
Leadership in Energy and  
Environmental Design,  
American Society of Civil  
Engineers  
Past Memberships:  
National Society of  
Professional Engineers,  
American Water Works  
Association, Arkansas  
Water Works, and Water  
Environment Association

### 7th Street Waterline and Sewer Replacement, Seal Beach, CA

Utilities engineer for PS&E for designing replacement of approximately 450 linear feet of existing 6" water and sewer mains. In conjunction with the utility replacement, rehabilitation of approximately 6,750 square feet of asphalt and concrete pavement was also designed.

### Pavement Rehabilitation Ximeno Avenue and Redondo Avenue, City of Long Beach, CA

Project engineer for engineering services for the pavement rehabilitation of Ximeno Avenue (from Atherton Street to Los Coyotes Diagonal) and Redondo Avenue (from Reservoir Drive to Stearns Street). Design and support during construction services include supervising, coordinating, monitoring and reviewing design for conformance with local agency standards, policies and procedures.

### 6th Street Storm Drain, Long Beach, CA

Project engineer for the final design of this key relief storm drain system in the City of Long Beach. The project included an extensive potholing effort, hydrology, hydraulics, traffic control and obtaining encroachment permits from the County.

### Del Cerro Park/Burma Road Entrance to Palos Verdes Nature Preserve ADA Access Improvements, City of Rancho Palos Verdes, CA

Project engineer for design engineering services to complete the City's ADA Access Improvements for the Del Cerro Park/Burma Road Entrance to the PV Nature Preserve. The project involved removing vegetation and natural physical impediments to provide unobstructed mobility and access for the elderly and severely disabled adults. The project entailed the construction of three ADA curb ramps, including curb and gutter along the ramps as well as 800 feet of new



sidewalk to create pedestrian linkage to the PV Nature Preserve entrance. These improvements are constructed along Crenshaw Boulevard/Burma Road, between Park Place and Burrell Lane.

#### **Vincent Street Sanitary Sewer Rehabilitation, Redondo Beach, CA**

Project engineer for the design, preparation of the civil plans and construction management for the building of an approximate 745 LF parallel sewer system near the Vincent Street Park and surrounding neighborhoods.

#### **Phase 2 Neighborhood Street Rehabilitation, City of La Mirada, CA**

Project engineer for roadway improvements, street resurfacing and appurtenant infrastructure repairs. Provided PS&E as required, for bidding and construction of the proposed improvements. The intent of this project was to renovate the roadway pavement and hardscape leaving the neighborhood with a like new appearance. APP's initial recommendation was to mill 0.5" of the existing pavement (avoiding impacting the existing macadam), construct 2" of new pavement for much of the roadway, remove 4" of the outside six feet of A.C./macadam, and construct 4" of new A.C. pavement and resulted in significant cost savings for the City relative to the approach they used in previous years.

#### **Firestone Boulevard Median Project, Downey, CA**

Project engineer for raised median islands, entry monument sign, street rehabilitation and water facilities improvements on Firestone Boulevard between Old River School Road and West City Limits. Work includes preparation of traffic study, complete plans, technical specifications and estimate (PS&E) for the proposed improvements, providing the bidding document, suitable for bidding and award of a formal unit price public works construction contract, and construction support.

#### **Lincoln Avenue Widening, Anaheim, CA**

Performed hydrology and hydraulic calculations as well as catch basin sizing due to the moving of existing catch basins in Lincoln Avenue.

#### **Brookshire Avenue Pavement Rehabilitation, Downey, CA**

Served as project engineer responsible for assisting the project engineer on the road rehabilitation project for the City of Downey, CA. The project included rehabilitation of the street to a new centerline profile while utilizing the existing curb and gutter location and elevation.

#### **Sidewalk Evaluation and Analysis, Santa Fe Springs, CA**

Served as project engineer responsible for assisting the project team and the City of Santa Fe Springs by analyzing sidewalk inspection data, developing a representative unit price cost estimate for repairs, preparation of a summary report and incorporation of the evaluation into the City's existing GIS system.

#### **Richmond Street Arterial Improvements, El Segundo, CA**

Project engineer responsible for providing engineering services for Richmond Street arterial improvements located between El Segundo Blvd. and Holly Ave. within the downtown area for 1,600 lineal feet with 60 feet of street and sidewalk width. Design work includes street, sidewalk, parking, survey, traffic and landscape improvements.



## Daniela Malott, P.E.

### PROFESSIONAL ENGINEER-DRAINAGE

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#### Education

M.S. - Civil Engineering  
(Hydrology and Water  
Resources), University of  
California at Irvine

B.S. - Civil Engineering,  
California State  
University, Long Beach

**Year of TAIT Team  
Enlistment**  
2017

**Total Experience**  
10

**Certifications**  
Professional Engineer,  
California No. C86581

**Affiliations**  
American Society of Civil  
Engineers (ASCE), OC  
YMF

Ms. Malott has a strong civil engineering background with a water resources and surface runoff focus. Her engineering experience includes hydrology, storm drain design, and hydraulics. Her computer modeling background includes the application of the U.S. Army Corps of Engineers HEC-HMS (Hydraulic Modeling System), HEC-SSP (Statistical Software package), and HEC-RAS (River Analysis Software), Watershed Modeling System (WMS), Advanced Engineering Software (AES) for hydrologic/hydraulic analysis in Southern California, Water Surface Pressure Gradient (WSPGW) Software, XP-Solutions Storm Water and Wastewater Management Model (XP-SWMM), AutoCAD Civil 3D, and ArcGIS. She has worked for projects in the County of Los Angeles, County of Orange, and San Bernardino County. The projects she has been involved with are both in the private and public sector. In the private sector she worked on projects for developers including Rancho Mission Viejo and the Irvine Company. Her public sector experience includes working on projects for the County of Orange, the City of Rancho Palos Verdes, the City of Chino, the City of Chino Hills, and the City of Santa Ana. She is an out of the box thinker with great energy and a hard working ethic. She has great communication, writing, organizational and leadership skills.

#### **WQMP/BMP Design for Bristol Street Improvements and Civic Center Street Improvements, City of Santa Ana, Project Manager/Project Engineer, 2020**

The City of Santa Ana Bristol Street and Civic Center Improvements Water Quality Management Plans (WQMP) Project included the development of a Water Quality Best Management Practices (BMP) design, cost benefit analysis, cost estimates, coordination with the client, and development of construction plans for the BMP's installation. As part of the cost benefit analysis, several alternatives location and solutions for the type and configurations of BMP were analyzed and preliminary design was completed to determine the most optimal solution for the City. After an alternative was selected project design plans for the BMP installation were prepared and proprietary manufacturer detail design and coordination was completed. As part of this project Mrs. Malott served as the Project Manager/Project Engineer, she provided client coordination, scheduling tracking, reviewed internal scheduling and supported the City in a timely manner and under the budget to achieve the project goals.

#### **El Salvador Park Multipurpose Regional Basin, City of Santa Ana, Project Manager, 2020**

The City of Santa Ana El Salvador Park Multipurpose Regional Basin Project sought the development and construction of a Regional Infiltration Basin to provide Water Quality Treatment for an 88 acre residential neighborhood in the City of Santa Ana. The purpose of this project was to improve the stormwater



quality discharge to the downstream receiving waters which ultimately is the Newport Beach Bay and to improve the Park parking facilities for a disadvantaged community in the City of Santa Ana. As part of this project Mrs. Malott supported Project Management, and led the team's efforts for the Hydrology, Hydraulics and Water Quality Analysis and Calculations.

#### **Dana Point Harbor Revitalization, City of Dana Point Harbor, Project Manager, 2018-Present**

As part of the Dana Point Harbor project team Ms. Malott has provided stormwater technical design for the Master Plan of Drainage for Planning Areas 1 and 2, supported the development of the Hydrology and Hydraulics Basis of Design Report and WQMP for Planning Areas 3 and 4 for the Coastal Commission Project Application. Starting 2020, she has assisted as the Project Manager for the Commercial Core and Marina development portions of the DPH Revitalization Plan. As the Project Manager, Mrs. Malott has overseen the preliminary design of different aspects of the project, and the construction documents design and development for the Phase 2 of the Commercial Core Portion of the DPH Revitalization Plan. Additionally, Mrs. Malott has led a team of 10 Civil Engineering Designers to support the Projects efforts, while maintaining and providing coordination with the client and other subconsultants. Her organizational skills, civil design knowledge and experience, and communication abilities resulted in timely submittals and project reviews to achieve deadlines and project schedule, as well as to maintain project budget goals.

#### **Pier G Avenue North Sewer Line Improvement Project, Port of Long Beach, Project Engineer, 2017-2019**

Task managed the Hydraulics Analysis and Basis of Design Report for the Pier G Avenue North Sewer Line Improvement Project for the Port of Long Beach (POLB). The project limits spanned approximately 1/3 of a mile within The Port's Pier G, and included the review of existing conditions, analysis of tributary areas and hydraulic capacity for the existing system, preliminary design and recommendation for five separate design alternatives which included conventional open trench, pipe bursting, sewer lift stations, sewer force mains, and retrofit of existing sewer lift stations to accommodate the current and future demand peak flow conditions. Mrs. Malott supported all project coordination efforts and was a vital part of the project team.

#### **Newport Heights Alley and Sewer Replacement Project, City of Newport Beach, Project Engineer, 2016-2017**

Mrs. Malott was an Assistant Engineer for the Newport Heights Alley and Sewer Replacement Project. The project included the preparation of design plan and profile for each alley that was repaired, prepared of design cross sections at 25-foot intervals for review of proposed cross falls, preparation of sewer main replacement and lateral replacement plans, field review of all alley locations to field locate existing utilities, conflicts, and join locations, identification of sewer laterals that were recently replaced for protection, and the detailing of all alley approaches for compliance with the Americans with Disabilities Act (ADA). As part of the project team Mrs. Malott provided plan production assistance, alley design, and completed field visits.





## Christopher Engelbach, E.I.T.

### ***PROJECT ENGINEER- SITE-WORK/GRADING***

Chris is an experienced Project Engineer in design, approval, and quality control of residential and commercial land development as well as public work projects. He has expertise in preparation of tentative tract maps, street, rough grading, erosion control, storm drain, sewer and water, and precise grading plans; hydrology and hydraulic calculations utilizing Civil-D and WSPG; WQMP employing new low impact development methods; coordination with clients, sub-consultants, site managers, contractors, and survey crew. Chris technical skills include AutoCAD Civil 3D, Water Surface Profile Gradient Software (WSPG), Civil-D, and Microsoft Project.

#### **Education**

BS Civil Engineering,  
California State  
Polytechnic University,  
Pomona

#### **Year of TAIT Team Enlistment**

2016

#### **Total Experience**

13

#### **Certifications**

E.I.T.

### **Balboa Peninsula Alley Reconstruction and Sewer Repair Project, City of Newport Beach, Project Engineer, 2020-Current**

The Balboa Peninsula Project will extend the existing alley, provide needed additional width, correct existing drainage, provide accessible paths of travel, and repair damaged portions of the existing public sewer line. Mr. Engelbach's familiarity with the City's standards along with his knowledge of roadway design and drainage are an asset in facilitating the client's budgetary and scheduling needs.

### **Dana Point Harbor, Project Engineer, 2018-Current**

The Dana Point Harbor Project includes the redesign of entire guest experience at the Harbor. Mr. Engelbach is the Project Engineer providing design solutions for the harbor which includes an all new retail and dining area, roadways, parking fields, boater services, as well as updated drainage management facilities and wet utilities. Mr. Engelbach's knowledge of Civil 3D, drainage, grading and roadway design are providing the client the best possible solutions for their vision of the new Dana Point Harbor Experience.

### **Newport Heights Alley and Sewer Replacement Project, City of Newport Beach, Project Engineer, 2016-2017**

Project Engineer for the services on Newport Height Alley and Sewer Replacement Projects. The project limits spanned across an entire neighborhood in the City's coastal community of Newport Heights and include a total of 3+ miles of alley reconstructions as well as the review and repair of existing alley sewer and lateral connections. In order to facilitate the City's budget and timelines, the design project was split in to three phases which required separate design PS&E for each project. Phase 1 included all sewer main replacements while Phases 2 and 3 included the alley removal and replacements in the neighborhoods.



## Michael Furlong, PLS

### PROJECT SURVEYOR

Mr. Furlong is a Land Surveyor licensed in the State of California with 40 years of experience, over 30 of those being in the Field on all types of Projects from Boundary Surveys to Construction Services with some of the largest listed below. More recently he has spent years providing Mapping Services preparing Tract Maps, Parcel Maps, Record of Surveys, Corner Records and Exhibits of all kinds as well as providing Support to Engineering and Field Support for the Survey Crews.

### Education

Southern California Joint  
Apprenticeship Program  
for Certified Party Chief

Including classes at:  
Riverside Community  
College and San  
Bernardino Valley College

### Year of TAIT Team Enlistment 2019

### Total Experience 43

### Certifications CA PLS 8899

### Experience 2019– Present Tait and Associates

2012 – 2019 O.K.O.  
Engineering Inc.

2008 – 2012 Hernandez,  
Kroone and Associates

2005 – 2007 AEI-CASC  
Consulting

1997 – 2005 David  
Evans and Associates,  
Inc.

1981 – 1997 J.F.  
Davidson and Associates,  
Inc.

### Equipment

GPS-Trimble & Leica,  
Total Stations Trimble &  
Leica, Data Collectors-  
Trimble, Leica & Allegro,  
Electronic Levels,  
AutoCAD

### Public Works Related Projects

- On-call Services for Caltrans District 7 East Contact Area providing Construction Staking and Topographical Surveys on various large widening and reconstruction Highway Projects including the 10, 110, 134 and 210 Freeways.
- Topo and mapping of various rivers at bridge crossings along HWY 101, Santa Clara County.
- SR 71 Segments 1 through 3 in Chino, 6 miles of new Freeway Construction.
- I-10 Segments 1 and 2 in Montclair and Ontario, 10 Miles of Freeway widening.
- SR 30/210 Segments 4, 5 and 7 in Rancho Cucamonga and Fontana, 6 miles of new Freeway Construction.
- I-10 in El Monte, 2 Miles of Freeway widening with 12 Undercrossing structures to be widened.
- SR 60 in Moreno Valley, 8 miles of Freeway widening.

### Subdivisions

- Coyote Canyon, a 400 Lot Development in North Fontana with extensive Storm Drain Improvements.
- Sunnymead Ranch a 2000 Lot Development in Moreno Valley.
- Infrastructure for Moreno Valley Ranch a large Development in Moreno Valley.
- Many other Residential and Commercial Development Projects in Orange, San Bernardino and Riverside County.





## Katherine Grimard

### *DESIGN/SURVEY ENGINEER*

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#### Education

B.S. -- Civil Engineering,  
General Emphasis

Purdue University, 2013

#### Year of Tait Team Enlistment

2013

#### Total Experience

9

#### Certifications

Engineer in Training  
ET31300303

Katie is a graduate of Purdue University, Class of May 2013. Katie works in TAIT's Survey Department developing Basemaps for roadway and pipeline replacement projects. She has been an essential team member by applying her understanding of engineering design and survey on TAIT's public and private projects. Recent projects include Loma Ridge Underground Basemaps for Orange County Sheriff Department and OC Public Works and Chino Quadrant III Water Main Replacements.

#### **Loma Ridge Undergrounds –Design Engineer, 2019**

Katie developed Basemaps and underground plans for new Dry Utilities Extended from Newport Road in Orange, CA to Loma Ridge Emergency Operations Center (approximately 4 miles).

#### **Chino Quadrant III Water Main Replacements, City of Chino – Design Engineer, 2018-2019**

Katie developed Basemaps and water line replacement plans for 7000 linear feet 8" water line replacement on 12 residential streets.

#### **Kenneth and Ben Lomond Water Main Replacement Projects, Glendale Water & Power – Design Engineer, 2015-2016**

Katie developed Basemaps and water line replacement plans for approximately 11,340 linear feet of new 12-inch and 8-inch diameter ductile-iron water mains. Existing galvanized and copper services smaller than 1 inch were replaced with 1-inch copper services. Existing fire hydrants were replaced and spacing was increased to provide current fire protection to the neighborhood.

#### **Pipeline Management Program – City of Glendale Water and Power, Design Engineer, 2015-Present**

Designed the base maps from record maps and aided in coordination of as-built plans with waterline contractor and city plan checker.

#### **FY 13/14 Major Street Rehabilitation – City of Pomona, Design Engineer, 2014-2015**

Pavement and partial sidewalk and ramp replacement. Aided in site walk coordination and plan design.

#### **Columbia Square – Kilroy Realty Corp, Design Engineer, 2013- Present**

Katie assisted in the design and calculation of the SUSMP controls for the runoff of water into planters.

#### **Fullerton Crossings- M&H Realty Partners V, L.P., Design Engineer, 2013- 2015**

Katie aided in the design of Fullerton Crossings in the second phase. Responsibilities and tasks assigned included redesign of storm-water drains to meet client's request, movement of roof run-off drains to resemble architect plans, and erosion control and utility modifications.

#### **Promenade at Downey – Alberta Development Partners, Design Engineer, 2013-2015**

Katie assisted in the procurement of permits and applications through communication with multiple counties to ensure success of project without impediments.



**Gregory K. Mitchell**  
Principal Engineer



### Professional Registrations

Registered Civil Engineer, California  
Registered Geotechnical Engineer, California

### Education

BS Civil Engineering, University of New Mexico, 1987

### Professional Training

Shallow Foundation Short Course,  
University of Missouri-Rolla, 1987

USEPA 40-hour HAZWOPER Training, 1987

Slope Stability and Landslides Short Course  
University of Wisconsin, 1997

### Experience

Over thirty years' experience in the geotechnical field. Began career as a field engineer on both environmental and geotechnical assignments. The geotechnical assignments included supervision of drilling rigs during geotechnical investigations, and field density testing as part of grading control operations.

Mr. Mitchell managed the geotechnical operations at a branch office of a national engineering firm for three years, and was the regional manager for a second national firm for 7 years. In addition to the management activities, also had responsibility as a senior-level engineer, and obtained extensive experience in preparing and supervising geotechnical studies for commercial, industrial, residential and retail properties, including warehouses, manufacturing facilities, bridges, towers and single-family residences. Many of the commercial/industrial projects consisted of distribution centers in excess of 1,000,000 square feet. Projects have also included mid- and high-rise office buildings, parking structures and industrial equipment such as concrete batch plants and aggregate processing facilities. Provided designs for shallow foundations, drilled piers, driven piles, pavements, floor slabs and retaining walls. Geotechnical experience also includes liquefaction studies, fault studies, forensic investigations, pavement studies, groundwater studies, landslide evaluations, slope stability studies, and general geotechnical consulting services.

Mr. Mitchell currently has joint responsibility for overall management, administration and operations of the Corporation. Duties include proposal and report preparation, development and implementation of field and laboratory testing programs for geotechnical and environmental investigations, and preparation of comprehensive geotechnical reports.



**Pablo Montes**  
Staff Engineer



Professional Registrations

Engineer in Training, June 2005  
Nuclear Density Gauge Certification, December 2005

Education

BS Civil Engineering, California State Polytechnic University, 2005

Experience

Mr. Montes is involved with all phases of project coordination, scope definition, proposals, design and analysis, and report preparation.

Mr. Montes' duties at Southern California Geotechnical include assistance in preparing of Geotechnical Investigations, drafting geotechnical plans, performing slope stability analyses, pile design, cost estimates, and supervising lab work. Mr. Montes' duties also include grading and earthwork observation and testing at construction sites as well as preparing compaction reports.

Professional History

Southern California Geotechnical, Inc.  
Yorba Linda, California  
Staff Engineer  
November 2005 to Present



**Robert G. Trazo**  
Principal Engineer



### Professional Registrations

Registered Civil Engineer, California  
Registered Geotechnical Engineer, California

### Education

BS Civil Engineering, University of California, Los Angeles, 1995  
MS Civil Engineering, California State University, Long Beach, 1998

### Professional Training

Deep Foundations Short Course,  
Austin, Texas 2003  
Slope Stability and Landslides Short Course  
University of California, Los Angeles, 2000  
State of the Art Liquefaction Short Course  
University of Southern California, 1999

### Experience

Mr. Trazo has over 26 years of progressively responsible engineering experience in a wide variety of geotechnical engineering projects. He has extensive experience in preparing geotechnical studies for residential, commercial, and public works projects including single family residences, bridges, sewer lift stations, and commercial buildings. Geotechnical experience includes landslide evaluation and mitigation, liquefaction evaluation, geotechnical instrumentation, mechanically stabilized earth walls, forensic studies and general geotechnical consulting services. Mr. Trazo has also served as City Geotechnical Consultant for the Cities of Laguna Niguel, Chino Hills and Vista. Mr. Trazo is involved with all phases of project coordination and management including scope definition, proposals, subsurface investigation, lab scheduling, design and analysis, report preparation and coordination of field and office staff.

Mr. Trazo has served as a lecturer in the Geotechnical Engineering Department at California Polytechnic University, Pomona since 2003. He has taught all the geotechnical courses required of undergraduates. On behalf of the American Society of Civil Engineers (ASCE), he has also taught short courses designed to prepare civil engineers to pass their California State Board examinations since 2001.

Mr. Trazo currently has joint responsibility for overall management, administration and operations of the Corporation. Duties include proposal and report preparation, development and implementation of field and laboratory testing programs for geotechnical and environmental investigations, and preparation of comprehensive geotechnical reports.



**Joel Brandts, IESNA**  
Principal/Partner



As a Principal at tk1sc, Joel's responsibilities include being involved in all aspects of design operations and production activities for the firm's complete range of electrical design services. Joel is involved in all phases of construction document preparation, including schematic and design development services, energy compliance documentation, comprehensive electrical specifications, estimating and construction field support.

In addition, Joel is also a design leader for school projects and education/institutional campuses, sports club complexes/ recreational facilities, commercial centers, theaters, hotels and industrial facilities. Joel also provides principal management and creative direction for all projects in which he is involved and is active in tk1sc's financial, planning and administrative functions.

**Experience:**

- **Escondido Union School District, Mission Middle School (Escondido, CA)**  
Addition and modernization at an existing middle school, including a new 2-story, 18,466 square foot modular classroom building. Also, modernization of Buildings A thru H, J, K, M and Library approximately 41,000 square feet.
- **Irvine Unified School District, Woodbridge High School – Performing Arts Center (Irvine, CA)**  
A 700-seat theater in the 36,600 square foot Performing Arts Complex with the following elements; new lobby, concessions and ticket booth, theater support spaces, control room and green/dressing room, dance and drama classrooms, collaborative teaming areas, visual and technical arts spaces and lastly, equipment storage space.
- **Torrance Unified School District, Various Modernizations at Multiple Campuses (Torrance, CA)**  
Alterations and upgrades to classroom buildings, administration buildings, auditoriums, food service areas and gyms on existing elementary, middle, and high school campuses in the TUSD.
- **Cypress Unified School District, Modernization of 2 Campuses – Cawthon Elementary School & King Elementary School (Cypress, CA)**  
Modernization of Cawthon a 20-classroom ES and King a 21-classroom ES including administration areas, multipurpose rooms, and food service areas. Relocatable/expansion scope to include interface of EMS systems to air conditioning furnished with relocatable structures.

**Education:**

Long Beach City College  
Architecture – University of Southern California, Los Angeles

**Professional Affiliations:**

IEEE – Institute of Electrical and Electronic Engineers  
IESNA – Illuminating Engineering Society of North America



**Bill Voller**

Director – Electrical



Bill provides project management services for a wide variety of engineering projects and is involved in all engineering decisions. He is also responsible for the day-to-day management of projects from the initial planning stages to the final construction support services.

Proficient in all aspects of electrical design, Bill is involved in all phases of construction document preparation including schematic and design development services, energy compliance documentation, project budgeting and construction field support.

Bill's experience includes educational facilities, retail buildings, commercial office buildings, recreational facilities/parks, fitness centers, theaters and commercial storage facilities.

**Relevant Experience:**

- **Perris Unified School District, New Middle School** (Perris, CA)  
Brand new middle school addition to PUSD approximately 93,252 square feet. Project includes classrooms, lunch areas, library, and administration buildings.
- **Escondido Union School District, Mission Middle School** (Escondido, CA)  
Addition and modernization at an existing middle school, including a new 2-story, 18,466 square foot modular classroom building. Also, modernization of Buildings A thru H, J, K, M and Library approximately 41,000 square feet.
- **Torrance Unified School District, Various Modernizations at Multiple Campuses** (Torrance, CA)  
Alterations and upgrades to classroom buildings, administration buildings, auditoriums, food service areas and gyms on existing elementary, middle, and high school campuses in the TUSD.
- **Long Beach Unified School District, Millikan High School 700 Building**–Long Beach, CA  
New 32,000 square single-story classroom building. The project consists of demolishing the 700 Buildings and replacing it with a new one story building in its place. The portable 700 buildings will be used as interim housing while the new building is being constructed. Once the new building is constructed; interim housing structures are to be demolished and the site area remodeled to expand parking/drop-off.
- **Beaumont Unified School District, New K-8 Campus**, (Beaumont, CA)  
A new K-8 school in Beaumont USD, approximately 85,000 square feet.
- **Redondo Beach Unified School District, Various Campuses** – Redondo Beach, CA  
HVAC upgrades at six campuses; Alta Vista ES, Beryl ES, Birney ES, Madison ES, Washington ES & South Bay Adult School

**Education:**

Bachelor of Science in Electrical Engineering – UC Riverside





**Roger Carter, PE, LEED AP, CxA – Principal/Partner**  
**Mechanical Engineer of Record**



Roger has over 30 years of experience in consulting engineering including 10 years of practicing experience in the consulting engineering field in Australia and England. This unique background has resulted in creative and resourceful solutions on many of our significant projects. In over 25 years with the firm, Roger has been involved in major civic, healthcare, technology and build-to-suit projects with a focus on providing reliable design solutions and effective client support throughout all phases of a project. As a LEED Accredited professional he has been able to bring sustainable expertise to many of the large projects he has been involved with.

In addition to his project related activities, Roger's contributions in all aspects of managing the firm have insured our viability for the near and long-term future.

**Relevant Experience:**

- **Ronald Reagan Federal Building and United States Courthouse (Santa Ana, CA)**  
The project included 14 courtrooms for United States Bankruptcy Court, United States District Court and Special Proceedings Courts approximately 600,000 square feet.
- **Rancho Santiago Community College District – Santa Ana College (Santa Ana, CA)**  
Administration Building Renovation, Art Gallery Lighting, Child Development Center, Gymnasium upgrades, Campus Electrical Infrastructure Upgrades, Maintenance & Operations Building, Parking Structure, Planetarium Renovation, Sports Field Lighting and Trustees Hall Renovation.
- **Rancho Santiago Community College District – Santiago Canyon College (Orange, CA)**  
Building E Classroom Building, Humanities Building (LEED Gold Certified), Learning Resource Center, Maintenance & Operations Building, Master Infrastructure Plan, Parking Lot Infrastructure and Science Building.
- **California State University, Fullerton (Fullerton, CA)**  
Campus Housing Phase II, Campus Police Facility & Emergency Operations Center, Health Service Building, Housing at Jefferson Commons, Humanities Building, Student Recreation Center, Financial Trading Lab, Parking and Transportation Service Building and Data Center Upgrade.
- **University of California, Irvine (Irvine, CA)**  
Administrative Building Renovation & Seismic upgrade, Alumni Center, Biological Sciences III Lab (LEED Platinum Certified), Communications Building, Computer Sciences III Lab (LEED Gold Certified), Engineering Units 1 & 2 Remodel, Humanities Building (LEED Platinum Certified), Main Library Renovation, Palo Verde Student Housing.

**Education:**

Diploma in Mechanical Engineering – 1982, Wembley College – Perth, Australia

**Licensure/Registrations:**

Registered Professional Engineer in California, 1999 – No. M30980

Licensed Professional Engineer in Nevada, Arizona, Oklahoma, Oregon, Utah, Washington, Hawaii, and Texas

LEED Accredited Professional

ACG Certified Commissioning Authority, 2009 #409-477



## RESUMES

### JIM BALDOVIN

Managing Principal | Landscape Architect



Jim Baldovin is the founder and Principal Landscape Architect of Conceptual Design and Planning Company. As a Landscape Architect with over 30 years of hands on experience, Jim embodies CDPC's philosophy of 'social environmentalism' and is primarily responsible for the company's strategic planning and business development. He is actively involved in all aspects of project development including site planning, development of design concepts, submittal review and construction administration. Jim is always focused on the project requirements, program elements, sustainable environmental concerns and client needs. Jim's diverse background brings a unique point-of-view and approach to all of CDPC's projects. Jim is an advocate for the practice of Landscape Architecture and helps maintain industry professionalism by mentoring students and recent college graduates.

#### REGISTRATION

Registered Landscape Architect  
CA 4176 | AZ 46496 | CO 1135 | NV 941  
TX 3261 | UT 10438291 | WA 1451 | HI Pending

#### EDUCATION

BS Landscape Architecture, California Polytechnic State University, San Luis Obispo

#### PROFESSIONAL AFFILIATIONS

AIA, ASLA, ASLA Class Fund, BIA, CALA, ICSC, NAIOP, ULI

#### PHILANTHROPY

Board Member, The Bourke Family Foundation  
Lights for Literacy  
Cal Poly, San Luis Obispo Landscape Architect  
Mentoring Program

### MASUMI OZAWA

Senior Landscape Architect

Masumi possesses a keen sense of design, style and a sharp eye for detail. Her strong sense of site and planting schemes, creativity and vibrant designs, together with her love of Landscape Architecture makes her an invaluable contributor to all of CDPC's projects and clients. By utilizing her twenty-five plus years of industry experience and her cultural influences, Masumi infuses a fresh perspective to the conceptual design process. As project manager she pays close attention to production quality control, budget considerations and performance schedules. Masumi's passion is evident in the creative outdoor environments she designs.

#### REGISTRATION

Registered Landscape Architect  
CA 3667

#### EDUCATION

BA Fine Art, Chadron State College, Nebraska  
MA Landscape Architecture, Kansas State University

#### PROFESSIONAL AFFILIATIONS

AIAOC, CALA, NAIOP, ULI

### ERIK PETERSON

Senior Project Manager



Erik is an accomplished landscape designer and project manager. With 15 years of experience under his belt, Erik is a driving force behind the successful completion of many projects at CDPC. His passion for combining the art of environmental design with the practical aspects of planning and construction make him an invaluable member of our team. In addition to Erik's well-refined technical abilities, he also possess the ability to monitor jobs and keep them on-schedule and on-budget. Erik's contributions to the extensive Mariners Church project showcased his ability to excel at challenging design elements while moving quickly through the ongoing phases of construction.

#### REGISTRATION

CLARB Certification Pending

#### EDUCATION

BS Landscape Architecture, Temple University, Philadelphia, Pennsylvania

#### PROFESSIONAL AFFILIATIONS

AIAOC, CALA, NAIOP, ULI







## Certifications

### Non-Collusion Affidavit

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

See Attached Certificate



**CALIFORNIA JURAT**

**GOVERNMENT CODE § 8202**

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

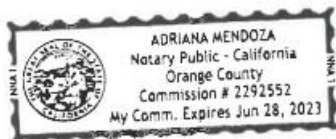
Subscribed and sworn to (~~or affirmed~~) before me on  
this 23<sup>rd</sup> day of May, 2022, by  
Date Month Year

(1) Jacob Vankeus

(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 Adriana Mendoza  
Signature of Notary Public



Place Notary Seal and/or Stamp Above

**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-collision Affidavit

Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_



## Non-Lobbying Certification

### NON-LOBBYING CERTIFICATION

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 TAIT & Associates, Inc.

Signed and Printed Name: Jacob Vandervis Jacob Vandervis

Title COO/Vice President

Date 5-24-22



## Non-Discrimination Certification

### NON-DISCRIMINATION CERTIFICATION

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

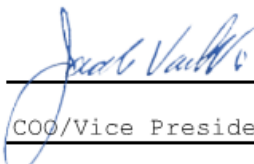
1. The Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to 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: COO/Vice President  
Firm: TAIT & Associates, Inc.  
Date: 5-24-22

## **EXHIBIT C**





## Schedule of Fees

Employee Classification	Hourly Rate
06 - Engineering Assistant.....	85.00
18 - Project Administrator .....	115.00
04 - Engineering Designer I .....	145.00
10 - Engineering Designer II .....	170.00
03 - Project Engineer I .....	190.00
25 - Project Engineer II .....	200.00
02 - Professional Engineer/Licensed Surveyor .....	230.00
17 - Senior Professional Engineer/Surveyor .....	245.00
52 - Principal II.....	285.00
01 - Principal .....	255.00
15 - Structural Engineer .....	250.00
05 - Permit Expediter I .....	115.00
11 - Permit Expediter II .....	130.00
09 - Project Coordinator.....	155.00
07 - Surveyor.....	135.00
08 - Senior Survey Specialist/Party Chief.....	180.00
00 - Two Man Survey Crew*.....	350.00
22 - One Man Survey Crew with Robotics* .....	250.00
13 - Project Manager I .....	170.00
54 - Entitlement Director .....	200.00
125 - Assistant Project Manager.....	155.00
90 - Project Manager II.....	190.00

\*Prevailing Wage Rates based on current State of California Prevailing Wage Schedule and the assigned project location.

The hourly rate for client authorized overtime and for representation at hearings and meetings after 6:00 p.m. will be invoiced at 1.5 times the posted rate.

The above rates are inclusive of phone charges, fax charges, software and licensing fees, and photocopying charges.

### 2. Mileage, Travel and Per Diem

Auto Mileage: IRS Rate plus 15 percent

Air Travel and Auto Rental: Actual cost plus 15 percent

Per Diem: Actual cost of lodging and meals, plus 15 percent

### 3. Materials and Supplies

Office and CADD supplies are included in the hourly rates. Prints, plots and reproductions are charged at cost plus 15 percent from commercial blueprint companies. In-house reproduction charges are as follows:

	<u>Prints</u>	<u>Plots</u>	<u>Color Plots</u>
Bond	\$ .95/s.f.	\$ .95/s.f.	\$6.00/s.f.
Vellum	1.35/s.f.	1.65/s.f.	7.50/s.f.

### 4. Reimbursable Expenses

Will be billed at cost plus 15 percent. Client will pay directly for all permit and agency fees; otherwise cost plus 15%. Subconsultant invoices will be billed at cost plus 15%.

### 5. Insurance Coverage

General Liability: \$2,000,000

Errors/Omissions: \$1,000,000

California Workers' Compensation - Statutory

Certificates of insurance coverage will be provided upon request.

Fee Schedule: 2022SC Prevailing

ORIGINAL