

PROFESSIONAL CONSULTANT SERVICES AGREEMENT

SCST, INC.

[Magnolia Avenue Techite Pipeline and Pressure Reducing Station Project]

THIS PROFESSIONAL CONSULTANT SERVICES AGREEMENT (“Agreement”) is made and entered into this _____ day of _____, 2018 (“Effective Date”), by and between the CITY OF RIVERSIDE (“City”), a California charter city and municipal corporation and SCST, INC., a California corporation (“Consultant”).

1. **Scope of Services.** City agrees to retain and does hereby retain Consultant and Consultant agrees to provide the services more particularly described in Exhibit “A,” “Scope of Services” (“Services”), attached hereto and incorporated herein by reference, in conjunction with Magnolia Avenue Techite Pipeline and Pressure Reducing Station Project (“Project”).

2. **Term.** This Agreement shall be effective on the date first written above and shall remain in effect until June 30, 2019, unless otherwise terminated pursuant to the provisions herein.

3. **Compensation/Payment.** Consultant shall perform the Services under this Agreement for the total sum not to exceed One Hundred One Thousand Six Hundred and Twenty-Eight Dollars (\$101,628.00), payable in accordance with the terms set forth in Exhibit “B.” Said payment shall be made in accordance with City’s usual accounting procedures upon receipt and approval of an itemized invoice setting forth the services performed. The invoices shall be delivered to City at the address set forth in Section 4 hereof.

4. **Notices.** Any notices required to be given, hereunder shall be in writing and shall be personally served or given by mail. Any notice given by mail shall be deemed given when deposited in the United States Mail, certified and postage prepaid, addressed to the party to be served as follows:

To City

Riverside Public Utilities
City of Riverside
Attn: Eric Escobar
3750 University Avenue, Suite 300
Riverside, CA 92501

To Consultant

SCST, Inc.
Attn: Isaac Chun
6280 Riverdale Street
San Diego, CA 92120

5. **Prevailing Wage.** If applicable, Consultant and all subcontractors are required to pay the general prevailing wage rates of per diem wages and overtime and holiday wages determined by the Director of the Department of Industrial Relations under Section 1720 et seq. of the California Labor Code and implemented by Resolution No. 13346 of the City Council of the City of Riverside. The Director's determination is available on-line at www.dir.ca.gov/dlsr/DPreWageDetermination.htm and is referred to and made a part hereof; the wage rates therein ascertained, determined, and specified are referred to and made a part hereof as though fully set forth herein.

6. **Contract Administration.** A designee of the City will be appointed in writing by the City Manager or Department Director to administer this Agreement on behalf of City and shall be referred to herein as Contract Administrator.

7. **Standard of Performance.** While performing the Services, Consultant shall exercise the reasonable professional care and skill customarily exercised by reputable members of Consultant's profession practicing in the Metropolitan Southern California Area, and shall use reasonable diligence and best judgment while exercising its professional skill and expertise.

8. **Personnel.** Consultant shall furnish all personnel necessary to perform the Services and shall be responsible for their performance and compensation. Consultant recognizes that the qualifications and experience of the personnel to be used are vital to professional and timely completion of the Services. The key personnel listed in Exhibit "C" attached hereto and incorporated herein by this reference and assigned to perform portions of the Services shall remain assigned through completion of the Services, unless otherwise mutually agreed by the parties in writing, or caused by hardship or resignation in which case substitutes shall be subject to City approval.

9. **Assignment and Subcontracting.** Neither party shall assign any right, interest, or obligation in or under this Agreement to any other entity without prior written consent of the other party. In any event, no assignment shall be made unless the assignee expressly assumes the obligations of assignor under this Agreement, in a writing satisfactory to the parties. Consultant acknowledges that any assignment may, at the City's sole discretion, require City Manager and/or City Council approval. Consultant shall not subcontract any portion of the work required by this Agreement without prior written approval by the responsible City Contract Administrator. Subcontracts, if any, shall contain a provision making them subject to all provisions stipulated in this Agreement, including without limitation, the insurance obligations set forth in Section 12. The Consultant acknowledges and agrees that the City is an intended beneficiary of any work performed by any subcontractor for purposes of establishing a duty of care between any subcontractor and the City.

10. **Independent Contractor.** In the performance of this Agreement, Consultant, and Consultant's employees, subcontractors and agents, shall act in an independent capacity as independent contractors, and not as officers or employees of the City of Riverside. Consultant acknowledges and agrees that the City has no obligation to pay or withhold state or federal taxes or to provide workers' compensation or unemployment insurance to Consultant, or to Consultant's employees, subcontractors and agents. Consultant, as an independent contractor, shall be responsible for any and all taxes that apply to Consultant as an employer.

11. **Indemnification.**

11.1 **Design Professional Defined.** For purposes of this Agreement, “Design Professional” includes the following:

- A. An individual licensed as an architect pursuant to Chapter 3 (commencing with Section 5500) of Division 3 of the Business and Professions Code, and a business entity offering architectural services in accordance with that chapter.
- B. An individual licensed as a landscape architect pursuant to Chapter 3.5 (commencing with Section 5615) of Division 3 of the Business and Professions Code, and a business entity offering landscape architectural services in accordance with that chapter.
- C. An individual registered as a professional engineer pursuant to Chapter 7 (commencing with Section 6700) of Division 3 of the Business and Professions Code, and a business entity offering professional engineering services in accordance with that chapter.
- D. An individual licensed as a professional land surveyor pursuant to Chapter 15 (commencing with Section 8700) of Division 3 of the Business and Professions Code, and a business entity offering professional land surveying services in accordance with that chapter.

11.2 **Defense Obligation For Design Professional Liability.** Consultant agrees, at its cost and expense, to promptly defend the City, and the City’s employees, officers, managers, agents and council members (collectively the “Parties to be Defended”) from and against any and all claims, allegations, lawsuits, arbitration proceedings, administrative proceedings, regulatory proceedings, or other legal proceedings to the extent the same arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, or anyone employed by or working under the Consultant or for services rendered to the Consultant in the performance of the Agreement, notwithstanding that the City may have benefited from its work or services and whether or not caused in part by the negligence of an Indemnified Party. Consultant agrees to provide this defense immediately upon written notice from the City, and with well qualified, adequately insured and experienced legal counsel acceptable to City. Consultant will reimburse City for reasonable defense costs for claims arising out of Consultant’s professional negligence based on the percentage of Consultant’s liability. This obligation to defend as set forth herein is binding on the successors, assigns and heirs of Consultant and shall survive the termination of Consultant’s Services under this Agreement.

11.3 **Indemnity For Design Professional Liability.** When the law establishes a professional standard of care for Consultant’s services, to the fullest extent permitted by law, Consultant shall indemnify, protect and hold harmless the City and the City’s employees, officers, managers, agents, and Council Members (“Indemnified Parties”) from and against any and all claim for damage, charge, lawsuit, action, judicial, administrative, regulatory or arbitration proceeding,

damage, cost, expense (including counsel and expert fees), judgment, civil fines and penalties, liabilities or losses of any kind or nature whatsoever to the extent the same arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, or anyone employed by or working under the Consultant or for services rendered to the Consultant in the performance of the Agreement, notwithstanding that the City may have benefited from its work or services and whether or not caused in part by the negligence of an Indemnified Party.

11.4 Defense Obligation For Other Than Design Professional Liability.

Consultant agrees, at its cost and expense, to promptly defend the City, and the City's employees, officers, managers, agents and council members (collectively the "Parties to be Defended") from and against any and all claims, allegations, lawsuits, arbitration proceedings, administrative proceedings, regulatory proceedings, or other legal proceedings which arise out of, or relate to, or are in any way connected with: 1) the Services, work, activities, operations, or duties of the Consultant, or of anyone employed by or working under the Consultant, or 2) any breach of the Agreement by the Consultant.

This duty to defend shall apply whether or not such claims, allegations, lawsuits or proceedings have merit or are meritless, or which involve claims or allegations that any or all of the Parties to be Defended were actively, passively, or concurrently negligent, or which otherwise assert that the Parties to be Defended are responsible, in whole or in part, for any loss, damage or injury. Consultant agrees to provide this defense immediately upon written notice from the City, and with well qualified, adequately insured and experienced legal counsel acceptable to City. This obligation to defend as set forth herein is binding on the successors, assigns and heirs of Consultant and shall survive the termination of Consultant's Services under this Agreement.

11.5 Indemnity For Other Than Design Professional Liability.

Except as to the sole negligence or willful misconduct of the City, Consultant agrees to indemnify, protect and hold harmless the Indemnified Parties from and against any claim for damage, charge, lawsuit, action, judicial, administrative, regulatory or arbitration proceeding, damage, cost, expense (including counsel and expert fees), judgment, civil fine and penalties, liabilities or losses of any kind or nature whatsoever whether actual, threatened or alleged, which arise out of, pertain to, or relate to, or are a consequence of, or are attributable to, or are in any manner connected with the performance of the Services, work, activities, operations or duties of the Consultant, or anyone employed by or working under the Consultant or for services rendered to Consultant in the performance of this Agreement, notwithstanding that the City may have benefited from its work or services. This indemnification provision shall apply to any acts, omissions, negligence, recklessness, or willful misconduct, whether active or passive, on the part of the Consultant or anyone employed or working under the Consultant.

12. Insurance.

12.1 General Provisions. Prior to the City's execution of this Agreement, Consultant shall provide satisfactory evidence of, and shall thereafter maintain during the term of this Agreement, such insurance policies and coverages in the types, limits, forms and ratings required herein. The rating and required insurance policies and coverages may be modified in writing by the City's Risk Manager or City Attorney, or a designee, unless such modification is prohibited by law.

12.1.1 Limitations. These minimum amounts of coverage shall not constitute any limitation or cap on Consultant's indemnification obligations under Section 11 hereof.

12.1.2 **Ratings.** Any insurance policy or coverage provided by Consultant or subcontractors as required by this Agreement shall be deemed inadequate and a material breach of this Agreement, unless such policy or coverage is issued by insurance companies authorized to transact insurance business in the State of California with a policy holder's rating of A or higher and a Financial Class of VII or higher.

12.1.3 **Cancellation.** The policies shall not be canceled unless thirty (30) days' prior written notification of intended cancellation has been given to City by certified or registered mail, postage prepaid.

12.1.4 **Adequacy.** The City, its officers, employees and agents make no representation that the types or limits of insurance specified to be carried by Consultant pursuant to this Agreement are adequate to protect Consultant. If Consultant believes that any required insurance coverage is inadequate, Consultant will obtain such additional insurance coverage as Consultant deems adequate, at Consultant's sole expense.

12.2 **Workers' Compensation Insurance.** By executing this Agreement, Consultant certifies that Consultant is aware of and will comply with Section 3700 of the Labor Code of the State of California requiring every employer to be insured against liability for workers' compensation, or to undertake self-insurance before commencing any of the work. Consultant shall carry the insurance or provide for self-insurance required by California law to protect said Consultant from claims under the Workers' Compensation Act. Prior to City's execution of this Agreement, Consultant shall file with City either 1) a certificate of insurance showing that such insurance is in effect, or that Consultant is self-insured for such coverage, or 2) a certified statement that Consultant has no employees, and acknowledging that if Consultant does employ any person, the necessary certificate of insurance will immediately be filed with City. Any certificate filed with City shall provide that City will be given ten (10) days' prior written notice before modification or cancellation thereof.

12.3 **Commercial General Liability and Automobile Insurance.** Prior to City's execution of this Agreement, Consultant shall obtain, and shall thereafter maintain during the term of this Agreement, commercial general liability insurance and automobile liability insurance as required to insure Consultant against damages for personal injury, including accidental death, as well as from claims for property damage, which may arise from or which may concern operations by anyone directly or indirectly employed by, connected with, or acting for or on behalf of Consultant. The City, and its officers, employees and agents, shall be named as additional insureds under the Consultant's insurance policies.

12.3.1 Consultant's commercial general liability insurance policy shall cover both bodily injury (including death) and property damage (including, but not limited to, premises operations liability, products-completed operations liability, independent contractor's liability, personal injury liability, and contractual liability) in an amount not less than \$1,000,000 per occurrence and a general aggregate limit in the amount of not less than \$2,000,000.

12.3.2 Consultant's automobile liability policy shall cover both bodily injury and property damage in an amount not less than \$1,000,000 per occurrence and an aggregate limit of not less than \$1,000,000. All of Consultant's automobile and/or commercial general liability insurance policies shall cover all vehicles used in connection with Consultant's performance of this Agreement, which vehicles shall include, but are not limited to, Consultant owned vehicles, Consultant leased vehicles, Consultant's employee vehicles, non-Consultant owned vehicles and hired vehicles.

12.3.3 Prior to City's execution of this Agreement, copies of insurance policies or original certificates along with additional insured endorsements acceptable to the City evidencing the coverage required by this Agreement, for both commercial general and automobile liability insurance, shall be filed with City and shall include the City and its officers, employees and agents, as additional insureds. Said policies shall be in the usual form of commercial general and automobile liability insurance policies, but shall include the following provisions:

It is agreed that the City of Riverside, and its officers, employees and agents, are added as additional insureds under this policy, solely for work done by and on behalf of the named insured for the City of Riverside.

12.3.4 The insurance policy or policies shall also comply with the following provisions:

- a. The policy shall be endorsed to waive any right of subrogation against the City and its sub-consultants, employees, officers and agents for services performed under this Agreement.
- b. If the policy is written on a claims made basis, the certificate should so specify and the policy must continue in force for one year after completion of the services. The retroactive date of coverage must also be listed.
- c. The policy shall specify that the insurance provided by Consultant will be considered primary and not contributory to any other insurance available to the City and Endorsement No. CG 20010413 shall be provided to the City.

12.4 Errors and Omissions Insurance. Prior to City's execution of this Agreement, Consultant shall obtain, and shall thereafter maintain during the term of this Agreement, errors and omissions professional liability insurance in the minimum amount of \$1,000,000 to protect the City from claims resulting from the Consultant's activities.

12.5 Subcontractors' Insurance. Consultant shall require all of its subcontractors to carry insurance, in an amount sufficient to cover the risk of injury, damage or loss that may be caused by the subcontractors' scope of work and activities provided in furtherance of this Agreement, including, but without limitation, the following coverages: Workers Compensation, Commercial General Liability, Errors and Omissions, and Automobile liability. Upon City's request,

Consultant shall provide City with satisfactory evidence that Subcontractors have obtained insurance policies and coverages required by this section.

13. **Business Tax.** Consultant understands that the Services performed under this Agreement constitutes doing business in the City of Riverside, and Consultant agrees that Consultant will register for and pay a business tax pursuant to Chapter 5.04 of the Riverside Municipal Code and keep such tax certificate current during the term of this Agreement.

14. **Time of Essence.** Time is of the essence for each and every provision of this Agreement.

15. **City's Right to Employ Other Consultants.** City reserves the right to employ other Consultants in connection with the Project. If the City is required to employ another consultant to complete Consultant's work, due to the failure of the Consultant to perform, or due to the breach of any of the provisions of this Agreement, the City reserves the right to seek reimbursement from Consultant.

16. **Accounting Records.** Consultant shall maintain complete and accurate records with respect to costs incurred under this Agreement. All such records shall be clearly identifiable. Consultant shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Consultant shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.

17. **Confidentiality.** All ideas, memoranda, specifications, plans, procedures, drawings, descriptions, computer program data, input record data, written information, and other materials either created by or provided to Consultant in connection with the performance of this Agreement shall be held confidential by Consultant, except as otherwise directed by City's Contract Administrator. Nothing furnished to Consultant which is otherwise known to the Consultant or is generally known, or has become known, to the related industry shall be deemed confidential. Consultant shall not use City's name or insignia, photographs of the Project, or any publicity pertaining to the Services or the Project in any magazine, trade paper, newspaper, television or radio production, website, or other similar medium without the prior written consent of the City.

18. **Ownership of Documents.** All reports, maps, drawings and other contract deliverables prepared under this Agreement by Consultant shall be and remain the property of City. Consultant shall not release to others information furnished by City without prior express written approval of City.

19. **Copyrights.** Consultant agrees that any work prepared for City which is eligible for copyright protection in the United States or elsewhere shall be a work made for hire. If any such work is deemed for any reason not to be a work made for hire, Consultant assigns all right, title and interest in the copyright in such work, and all extensions and renewals thereof, to City, and agrees to provide all assistance reasonably requested by City in the establishment, preservation and enforcement of its copyright in such work, such assistance to be provided at City's expense but

without any additional compensation to Consultant. Consultant agrees to waive all moral rights relating to the work developed or produced, including without limitation any and all rights of identification of authorship and any and all rights of approval, restriction or limitation on use or subsequent modifications.

20. **Conflict of Interest.** Consultant, for itself and on behalf of the individuals listed in Exhibit "C," represents and warrants that by the execution of this Agreement, they have no interest, present or contemplated, in the Project affected by the above-described Services. Consultant further warrants that neither Consultant, nor the individuals listed in Exhibit "C" have any real property, business interests or income interests that will be affected by this project or, alternatively, that Consultant will file with the City an affidavit disclosing any such interest.

21. **Solicitation.** Consultant warrants that Consultant has not employed or retained any person or agency to solicit or secure this Agreement, nor has it entered into any agreement or understanding for a commission, percentage, brokerage, or contingent fee to be paid to secure this Agreement. For breach of this warranty, City shall have the right to terminate this Agreement without liability and pay Consultant only for the value of work Consultant has actually performed, or, in its sole discretion, to deduct from the Agreement price or otherwise recover from Consultant the full amount of such commission, percentage, brokerage or commission fee. The remedies specified in this section shall be in addition to and not in lieu of those remedies otherwise specified in this Agreement.

22. **General Compliance With Laws.** Consultant shall keep fully informed of federal, state and local laws and ordinances and regulations which in any manner affect those employed by Consultant, or in any way affect the performance of services by Consultant pursuant to this Agreement. Consultant shall at all times observe and comply with all such laws, ordinances and regulations, and shall be solely responsible for any failure to comply with all applicable laws, ordinances and regulations. Consultant represents and warrants that Consultant has obtained all necessary licenses to perform the Scope of Services and that such licenses are in good standing. Consultant further represents and warrants that the services provided herein shall conform to all ordinances, policies and practices of the City of Riverside.

23. **Waiver.** No action or failure to act by the City shall constitute a waiver of any right or duty afforded City under this Agreement, nor shall any such action or failure to act constitute approval of or acquiescence in any breach thereunder, except as may be specifically, provided in this Agreement or as may be otherwise agreed in writing.

24. **Amendments.** This Agreement may be modified or amended only by a written agreement and/or change order executed by the Consultant and City.

25. **Termination.** City, by notifying Consultant in writing, shall have the right to terminate any or all of Consultant's services and work covered by this Agreement at any time. In the event of such termination, Consultant may submit Consultant's final written statement of the amount of Consultant's services as of the date of such termination based upon the ratio that the work completed bears to the total work required to make the report complete, subject to the City's rights under Sections 15 and 26 hereof. In ascertaining the work actually rendered through the termination

date, City shall consider completed work, work in progress and complete and incomplete reports and other documents only after delivered to City.

25.1 Other than as stated below, City shall give Consultant thirty (30) days' prior written notice prior to termination.

25.2 City may terminate this Agreement upon fifteen (15) days' written notice to Consultant, in the event:

25.2.1 Consultant substantially fails to perform or materially breaches the Agreement; or

25.2.2 City decides to abandon or postpone the Project.

26. **Offsets.** Consultant acknowledges and agrees that with respect to any business tax or penalties thereon, utility charges, invoiced fee or other debt which Consultant owes or may owe to the City, City reserves the right to withhold and offset said amounts from payments or refunds or reimbursements owed by City to Consultant. Notice of such withholding and offset, shall promptly be given to Consultant by City in writing. In the event of a dispute as to the amount owed or whether such amount is owed to the City, City will hold such disputed amount until either the appropriate appeal process has been completed or until the dispute has been resolved.

27. **Successors and Assigns.** This Agreement shall be binding upon City and its successors and assigns, and upon Consultant and its permitted successors and assigns, and shall not be assigned by Consultant, either in whole or in part, except as otherwise provided in paragraph 9 of this Agreement.

28. **Venue.** Any action at law or in equity brought by either of the parties hereto for the purpose of enforcing a right or rights provided for by this Agreement shall be tried in the Superior Court, County of Riverside, State of California, and the parties hereby waive all provisions of law providing for a change of venue in such proceedings to any other county. In the event either party hereto shall bring suit to enforce any term of this Agreement or to recover any damages for and on account of the breach of any term or condition of this Agreement, it is mutually agreed that each party will bear their own attorney's fees and costs.

29. **Nondiscrimination.** During Consultant's performance of this Agreement, Consultant shall not discriminate on the grounds of race, religious creed, color, national origin, ancestry, age, physical disability, mental disability, medical condition, including the medical condition of Acquired Immune Deficiency Syndrome (AIDS) or any condition related thereto, marital status, sex, genetic information, gender, gender identity, gender expression, or sexual orientation, military and veteran status, in the selection and retention of employees and subcontractors and the procurement of materials and equipment, except as provided in Section 12940 of the California Government Code. Further, Consultant agrees to conform to the requirements of the Americans with Disabilities Act in the performance of this Agreement.

30. **Severability.** Each provision, term, condition, covenant and/or restriction, in whole and in part, of this Agreement shall be considered severable. In the event any provision, term,

condition, covenant and/or restriction, in whole and/or in part, of this Agreement is declared invalid, unconstitutional, or void for any reason, such provision or part thereof shall be severed from this Agreement and shall not affect any other provision, term, condition, covenant and/or restriction of this Agreement, and the remainder of the Agreement shall continue in full force and effect.

31. **Authority.** The individuals executing this Agreement and the instruments referenced herein on behalf of Consultant each represent and warrant that they have the legal power, right and actual authority to bind Consultant to the terms and conditions hereof and thereof.

32. **Entire Agreement.** This Agreement constitutes the final, complete, and exclusive statement of the terms of the agreement between the parties pertaining to the subject matter of this Agreement, and supersedes all prior and contemporaneous understandings or agreements of the parties. Neither party has been induced to enter into this Agreement by and neither party is relying on, any representation or warranty outside those expressly set forth in this Agreement.

33. **Interpretation.** City and Consultant acknowledge and agree that this Agreement is the product of mutual arms-length negotiations and accordingly, the rule of construction, which provides that the ambiguities in a document shall be construed against the drafter of that document, shall have no application to the interpretation and enforcement of this Agreement.

33.1 Titles and captions are for convenience of reference only and do not define, describe or limit the scope or the intent of the Agreement or any of its terms. Reference to section numbers, are to sections in the Agreement unless expressly stated otherwise.

33.2 This Agreement shall be governed by and construed in accordance with the laws of the State of California in effect at the time of the execution of this Agreement.

33.3 In the event of a conflict between the body of this Agreement and Exhibit "A" - Scope of Services hereto, the terms contained in Exhibit "A" shall be controlling.

34. **Exhibits.** The following exhibits attached hereto are incorporated herein to this Agreement by this reference:

Exhibit "A" - Scope of Services

Exhibit "B" - Compensation

Exhibit "C" - Key Personnel

IN WITNESS WHEREOF, City and Consultant have caused this Agreement to be duly executed the day and year first above written.

CITY OF RIVERSIDE, a California
charter city and municipal corporation
a California corporation

SCST, INC.
a California corporation

By: _____
City Manager

By: Neal W. Clements

Neal W. Clements, PE
[Printed Name]
Owner/CEO
[Title]

Attest: _____
City Clerk

Certified as to Availability of Funds:

By: John Kirschbaum

By: [Signature]
Chief Financial Officer

John Kirschbaum
[Printed Name]
COO/Managing Partner
[Title]

Approved as to Form:

By: Susan Wells
Chief Assistant City Attorney

EXHIBIT "A"

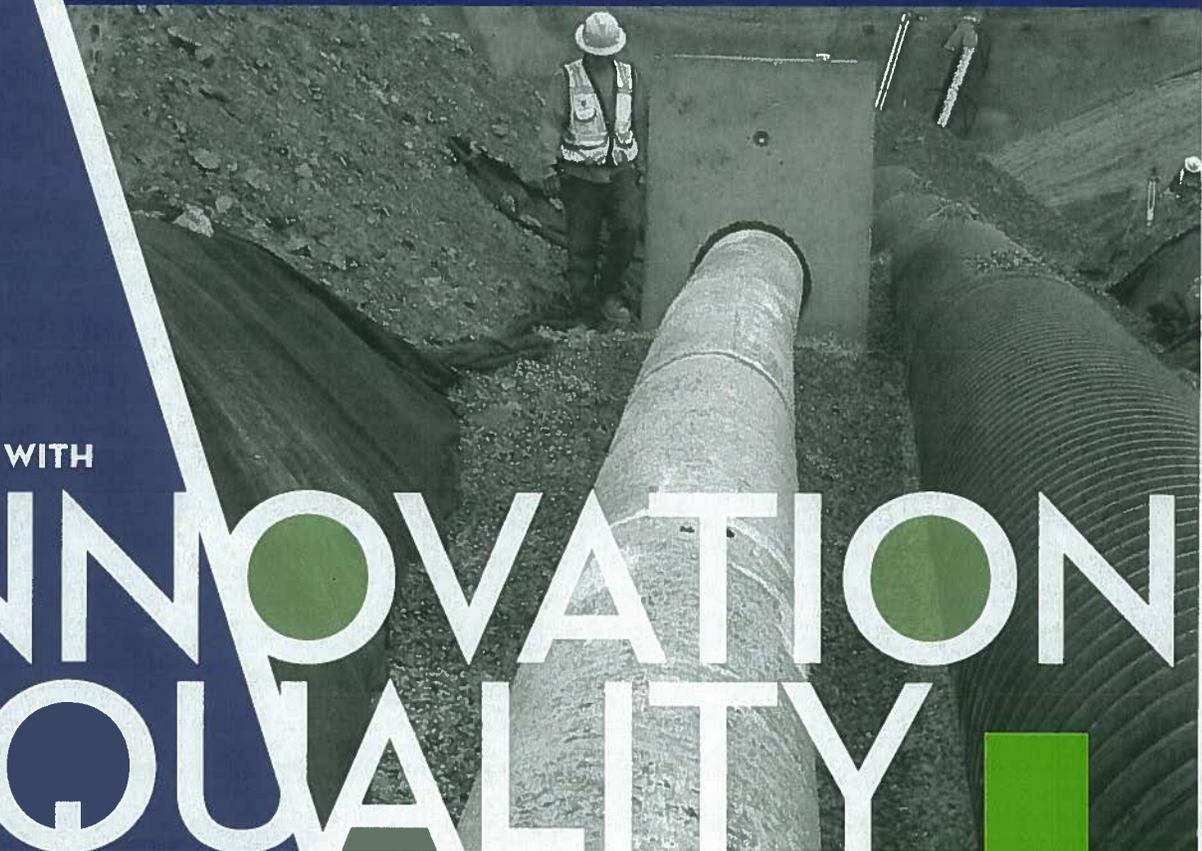
SCOPE OF SERVICES



1110 Palmyrita Avenue
Suite 330A
Riverside, CA 92507
P 951.294.7306
W www.scst.com

REQUEST FOR PROPOSALS, RFP NO. 1826

GEOTECHNICAL PROFESSIONAL SERVICES FOR THE MAGNOLIA
AVENUE TECHITE PIPELINE & PRESSURE REDUCING STATION



DESIGNED WITH

INNOVATION

BUILT ON

QUALITY



Submitted To:

CITY OF RIVERSIDE

Public Utilities Department

Jairo "JC" Cortez, Senior Procurement and Contract Specialist

3750 University Avenue, Suite #300

Riverside, CA 92501

Submitted: May 18, 2018

SCST Proposal No. 18-0234



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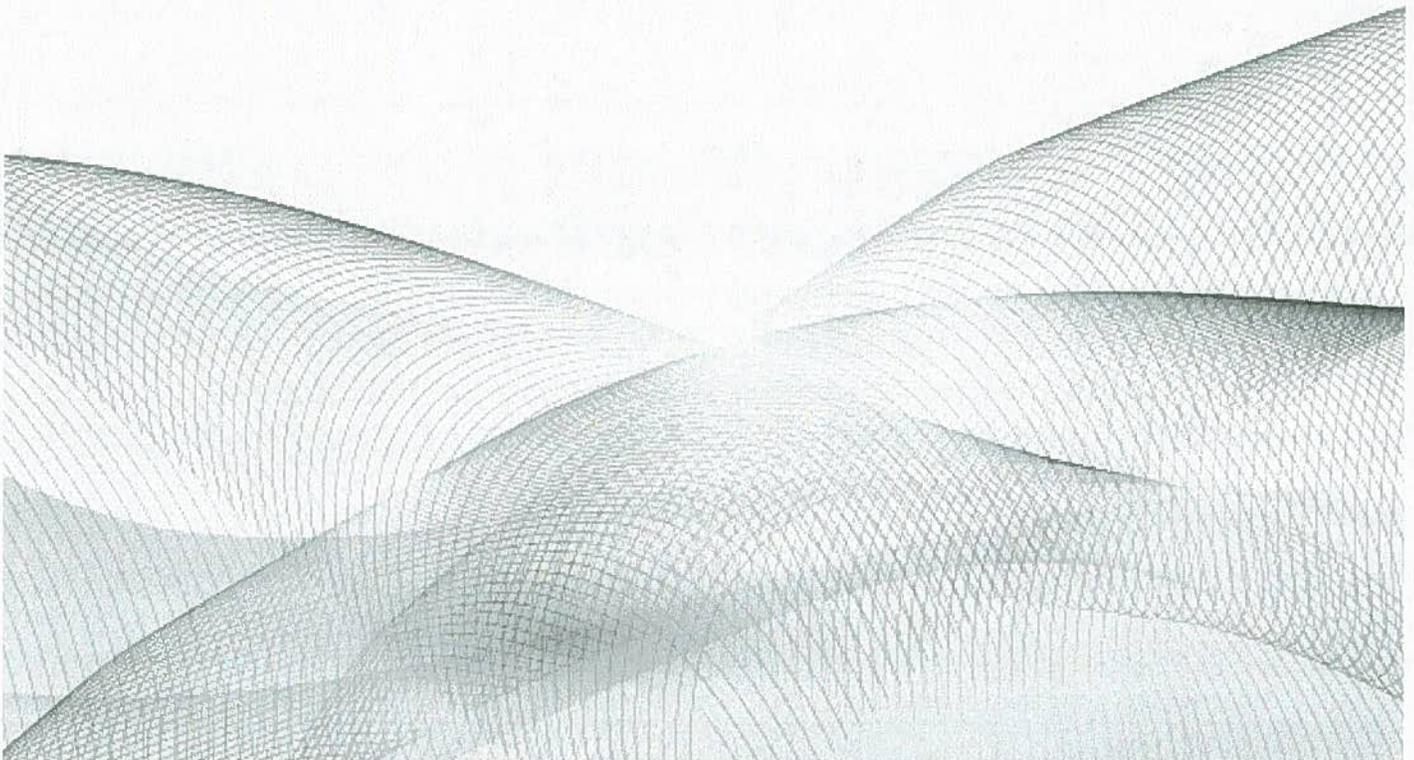
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May 18, 2018

City of Riverside
Public Utilities Department
Jairo "JC" Cortez, Senior Procurement and Contract Specialist
3750 University Avenue, Suite #300
Riverside, CA 92501

SUBJECT:

RESPONSE TO REQUEST FOR PROPOSAL NO. 1826
GEOTECHNICAL PROFESSIONAL SERVICES FOR THE MAGNOLIA AVENUE
TECHITE PIPELINE AND PRESSURE REDUCING STATION PROJECT

Dear Mr. Cortez,

SCST, Inc. is pleased to submit our proposal to provide **Geotechnical Professional Services** during construction of the Magnolia Avenue Techite Pipeline and Pressure Reducing Station (PRS). SCST has been providing geotechnical engineering, and inspection and testing services since 1959. We are a Disabled Veteran Business Enterprise (DVBE) certified through the state of California, and a Service-Disabled Veteran-Owned Small Business (SDVOSB) certified through the Department of Veterans Affairs CVE.

Company-wide, we employ over 200 staff members, including licensed geotechnical and professional engineers, engineering geologists, environmental engineers, certified inspectors and testing technicians, and the appropriate support personnel. To save our clients time and money, the majority of our inspectors and technicians are multi-carded by various local and national agencies, including the International Code Council (ICC) and American Concrete Institute (ACI), to minimize the assignment of multiple field staff.

Our local Riverside laboratory is approximately **10 miles from the project site**, allowing us to quickly respond to requests from the City. SCST runs five laboratories in California that are certified by various regulatory agencies, including the cities of San Diego and Los Angeles, and various regulatory agencies including the AASHTO Material Reference Laboratory (AMRL), Caltrans, Cement and Concrete Reference Laboratory (CCRL), and the US Army Corps of Engineers.

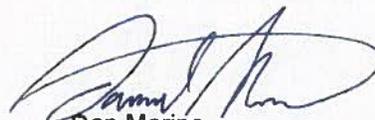
SCST has worked for numerous public agencies providing geotechnical services for pipeline and pressure reducing stations throughout our 58 year history. We have worked with various municipalities and water districts in Riverside County, including the city and county of Riverside, and the cities of Beaumont, Indio, Palm Springs, Palm Desert, Coachella, Cathedral City, and Desert Hot Springs. We have also worked with several water districts based in Riverside County, including the Eastern Municipal Water District, the Rancho California Water District, and the Elsinore Valley Municipal Water District. In the past five years, we have worked on approximately 155 water related projects.

SCST confirms that all elements of the RFP have been reviewed and understood. We are willing to enter into a contract with the City under the terms and conditions prescribed by the RFP and sample agreement. Isaac Chun, PE, GE, will serve as project manager and the City's primary contact. He will be the single person responsible for working with the City to coordinate all activities during this contract. Isaac can be reached at ichun@scst.com or via cell phone at 909.957.3448.

As SCST's CEO and Owner, I am the official representative who is authorized to bind the firm contractually. SCST appreciates your time and consideration on our behalf.

Respectfully,
SCST, Inc.


Neal W. Clements, PE
CEO/Owner


Dan Marino
Client Services Manager



PROJECT UNDERSTANDING

SCST understands that the City of Riverside's Public Utilities Department (RPU) is looking to engage a licensed geotechnical firm to provide trench backfill and asphalt paving compaction services and associated laboratory testing for the construction of the **Magnolia Avenue Techite Pipeline and Pressure Reducing Station (PRS) Replacement** project.

The construction will last 190 calendar days from the start of construction. The pipeline is located within the right-of-way along Magnolia Avenue from Hole Avenue to Park Sierra Drive and a private parcel, where the City obtained a construction easement. It is anticipated that 50% of the project will be constructed during night-time and possible weekend work, with the remaining 50% constructed during normal business hours.

We understand that if awarded this project, SCST would provide:

- A. **Trench Backfill Compaction Tests:** These tests consist of soil, sand, concrete, aggregate base, and asphalt compaction. Provide the compaction tests based on two hours per visit and four tests per hour. For purposes of providing a price proposal, the City estimates that the project will require approximately 1,120 hours of field compaction services.

- B. **Trench Backfill Tests during Non-Normal Working Hours:** Provide the compaction services during night-time and weekend. In the proposal, identify the incremental cost (if any) for providing the services during night-time hours and weekend (if any). Note: since the firm will be required to provide services during non-normal working hours and may elect to modify the weekly schedule of their field personnel at an incremental cost or at no cost, the decision of identifying an incremental cost is entirely up to the geotechnical firm. Payment for services provided outside the normal working hours will be released at the incremental cost shown in the proposal under this item.
- C. **Modified Proctor Tests:** These tests consist of soil and aggregate base samples that the geotechnical firm will test for optimum density. Provide five (5) tests.
- D. **Asphalt Gradation and Extraction Tests:** Provide four (4) asphalt gradation tests and four (4) extraction tests.

SCST has reviewed the RFP and addressed the requirements for geotechnical testing and inspection services for our scope of work. We understand that the geotechnical testing and inspection services required for the project will consist of inspection and testing of utility trench backfill, subgrade preparation, aggregate base, and asphalt placement.

Based upon our review of the RFP and experience on similar projects, we propose to provide our services on a time and expense basis at the unit rates provided in the attached budget estimate.

SCST's proposed scope of work will consist of:

- + Participation in a pre-construction meeting
- + Observation and relative compaction testing of utility trench backfill
- + Observation and relative compaction testing of subgrade preparation, aggregate base, and asphalt placement
- + Performance of laboratory tests to determine the pertinent engineering properties of the soils encountered during earthwork
- + Preparation of reports summarizing our tests and observations of the underground utility trench backfill, subgrade preparation, aggregate base and asphalt placement.



B. STATEMENT OF UNDERSTANDING AND APPROACH



PROJECT APPROACH

Lack of communication is a common theme in failed or delayed projects. We understand how various project delivery methods influence project collaboration and interaction and we are in daily communication with each of our project teams. We know that poor communication between team members can lead to costly mistakes and we are committed to help the City avoid these issues. We are dedicated to transparency and cooperation with all stakeholders, including architects, designers, engineers, construction managers, contractors, and other project team members to successfully deliver our services with a continuous focus on quality, cost, and schedule.

At SCST, we apply time-tested methods to assure the high quality, dependable services our clients have come to expect. As demonstrated by our project experience and references listed in a later section of this submittal, we have the experience, staff, systems, and safeguards in place to deliver services for this contract with diligence and in a cost-effective manner to serve the best interests of the City.

Once a project begins, it is tracked using Ajera by Deltek (internal accounting software), giving us paperless system capacities. The software maintains real-time accounting of resources used on the project and displays this graphically to each project manager's desktop. The project management component of the software gives our project manager the ability to review scheduling and budgeting at any time, expediting communication between our project manager and the City, without the need for additional analysis.

Our practice is to closely monitor the frequency of your dispatch and diligently manage the budget on all our projects. Once we have reached 70% of the individual line-item budget authorizations, we will schedule a meeting with the City and any other designated representatives to compare the remaining work with the construction schedule, and provide you with a cost-to-complete in an effort to avoid additional authorizations. We will not exceed the authorized budget without approved change orders from you or your authorized representative. The success of this program comes from providing you with early accounting and foresight into the progress of services.

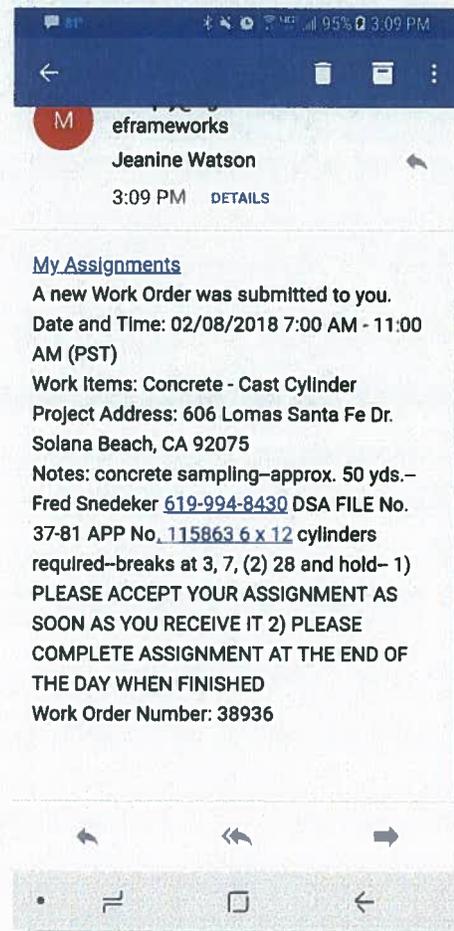
In order to conform to the project budget, SCST's project manager provides individuals working on a specific task with the expected time allotted for that task. By establishing a budget and communicating the project expectations for our services at the beginning of a project to all individuals involved, SCST can complete tasks efficiently and maintain the estimated project budget.

GEOTECHNICAL PROFESSIONAL SERVICES

Our inspectors and technicians are well-versed in the implementation of geotechnical observation and testing requirements, and they are experienced with a wide variety of materials used in construction.

Our specific approach to services consists of:

- **Assigning and Scheduling of Staff:** Selecting the appropriate inspector or technician for a project is one of SCST's highest priorities. SCST will provide the City with multi-carded inspectors or technicians whenever possible. We utilize Agile Frameworks MetaField® V2.6 software for efficient scheduling and managing of field, laboratory, and office personnel. The daily schedule is available to all personnel, enabling us to maximize staff utilization and avoid duplication. Our technicians and inspectors will be available within 24 hours of a request from the City.
- **Testing, Field Work, and Deliverables/Reporting:** The assigned inspector or technician will report to the





B. STATEMENT OF UNDERSTANDING AND APPROACH



appropriate on-site contact and sign-in if necessary. They will meet with the City's designated representative to review the approved plans and specifications, and to assure that these documents are clearly understood and the City's needs are being fully addressed.

The inspector or technician will perform the required inspection and/or testing service in accordance with the approved project drawings and specifications. Any required samples will be procured, labeled, electronically logged, and scheduled for pickup.

Our field representative will document findings or test results with a report of their daily activities and the status of compliance with project requirements, and present the report or results daily to the RPU's project manager. The signing representative, SCST's project manager and any pertinent project team members will then automatically receive an email copy of the report or results. The daily reports will, at a minimum, include the test number, location by station, approximate elevation of the location, approximate material of the location, dry density, percent moisture content, percent compaction, method used and remarks. Notification of any non-compliant work will be noted and clearly reported to the City's designated representative.

A weekly report will also be presented to the RPU's project manager. The weekly report will include at a minimum a tally of the number of hours worked during the week, number of tests performed, and number of any re-tests. The weekly report is to be provided no later than the Monday following the week when the services were performed.

SCST can utilize MetaField® V2.6 for our field reporting and testing, which allows us to upload daily reports and testing results to a central database from the field via cell phone where they are reviewed by the project manager. Information is then digitally signed and forwarded to the client, or accessed by the client via a customer facing portal via the cloud. Field inspection reports are typically available the same day.

Samples are delivered to SCST's laboratory and scheduled for testing at required dates by the appropriate testing methods. Test results are forwarded using MetaField® V2.6 to SCST's project manager for review and distribution. Should testing result in non compliance, the designated City representative is notified immediately and a log of non-conformance is automatically tracked per project using the MetaField® V2.6 system.

- **Final Report/Deliverables/Closeout:** As the construction contract enters the completion phase, SCST's team will work with the City to develop a functional closeout plan. We will use our experience to identify remaining inspection requirements, and submit final reports in a timely manner. In order to expedite the final reports, our field daily reports and laboratory test results are automatically filed and reviewed throughout the duration of the project. Typically, SCST can prepare these reports within three days of the completion of our work, depending on the size and scope of the project.

Daily reports and all laboratory test results are compiled into a Final Construction Quality Assurance report that displays all field inspection reports, batch plant inspection reports, laboratory testing reports, and a summary of the field density tests performed on the project. The final report can include any information requested by the City, such as inspector's names, certifications, or laboratory certifications.





B. STATEMENT OF UNDERSTANDING AND APPROACH



QUALITY ASSURANCE AND SCHEDULE CONTROL

SCST has a long established Quality Assurance Program (QAP) in place to ensure our team members perform work accurately and in conformance with all project specific codes, requirements, and standards. As part of SCST's QAP procedures, an SCST professionally licensed engineer is responsible for reviewing all reports prior to submission. This includes field testing, analyses, subcontractor's work products, and the transmittal of laboratory test results. Our experienced technical reviewer staff members review data collection, calculations, analysis, interpretation, and reporting. Our project manager reviews cost control, conformance with task expectations, and documentation for contractual obligations.

SCST maintains a system of checks and balances to ensure our projects are of the highest quality. SCST's laboratory participates in the AMRL and CCRL proficiency-sampling program to confirm our team provides accurate reporting of laboratory tests. SCST is recognized for high quality test results. Careful chain of custody is managed by MetaField®. Samples are logged and assigned testing electronically from the field at the time of sampling, delivered to SCST's laboratory and are immediately scheduled for testing at required dates by the appropriate testing methods. Test results and non-conformance logs are also managed and forwarded using MetaField® V2.6 to SCST's project manager for review and distribution.

SCST's principals and project managers are committed to our Quality Assurance Program (QAP). They are not only responsible, but take pride in the quality of our services and overall compliance, accuracy, and thoroughness of our reporting methods. SCST's corporate structure assigns appropriate levels of responsibility for fulfilling quality assessment roles. These roles and responsibilities are distributed within the project management activities and the QA group. SCST is structured to provide QA oversight on a continuing basis and to monitor performance and adjust or modify resources when necessary to improve a program or project.

To provide QA oversight on a continuing basis, we empower staff assigned specifically to monitor quality and safety. We hold regular meetings with our technical staff to maintain their familiarity with QA/QC standards. Our field supervisors, Steve Ward and Ron Baudour visit with our field inspectors and technicians on-site on a regular basis to check and confirm quality procedures. SCST continues to maintain and keep our QAP current, and will do so throughout the duration of this contract.



Our project managers are equipped with Ajera, our real time accounting software that automatically manages our accruals by line item. This allows us to closely monitor the frequency of your dispatch and diligently manage the budget on all our projects. Once we have reached 70% of the individual line-item budget authorizations, we will schedule a meeting with the designated representatives, compare the remaining materials testing and inspection work with the construction schedule, and provide you with a cost-to-complete to avoid additional authorizations. We will not exceed the authorized budget without approved change orders from the City or your authorized representative. The success of this program comes from providing you with early accounting and foresight into the progress of our services.

“ SCST has consistently been a key part of the City of Carlsbad team. All staff levels from dispatch to field technicians to geologists and project managers are knowledgeable about their work and have reliably provided excellent customer services. SCST has been an asset as an owner's representative in complex projects as well as last minute requests due to the uncertainty of construction project. ”

Scott Fisher
Municipal Projects Manager
City of Carlsbad



C. COMPANY INFORMATION



CONTACT PERSON

Isaac Chun, PE, GE will serve as the contact person and our project manager, if SCST is awarded this project. He has over 20 years of experience providing geotechnical services. His contact information is as follows:

Name: Isaac Chun, PE, GE
Address: 1110 Palmyrita Avenue, Suite 330A
 Riverside, CA 92507
Phone: 909.957.3448
Email: ichun@scst.com

OFFICES

SCST, Inc. is a *corporation* headquartered in San Diego, with branches in Riverside, Orange, Los Angeles, and Fresno. The addresses and phone numbers are listed below for our corporate headquarters and branch offices in Riverside County. Other office branch information available upon request.

- + **Headquarters:** 6280 Riverdale Street
San Diego, CA 921210
619.280.4321
- + **Riverside:** 1110 Palmyrita Avenue, Suite 330A
Riverside, CA 92507
951.294.7306
- + **Indio:** 83-740 Citrus Avenue, Suite G
Indio, CA 92201
760.775.5983

SERVICES

SCST provides the following services:

Environmental Science & Engineering	Geotechnical Engineering	Geophysics
Special Inspection & Materials Testing	Facilities Consulting	Telecom & Utilities



CLIENTS

SCST has worked with all types of municipal clients over it's 58 year history. Some of those clients include:

- + City of Riverside
- + County of Riverside
- + Valley Sanitary District
- + Elsinore Valley Municipal Water District
- + Rancho California Water District
- + Eastern Municipal Water District
- + San Diego County Water Authority
- + Mission Springs Water District
- + Coachella Valley Water District
- + City of San Diego
- + County of San Diego
- + City of Carlsbad
- + Carlsbad Municipal Water District
- + Leucadia Wastewater District
- + City of National City
- + Rincon del Diablo Municipal Water District
- + Vallecitos Water District
- + City of Indio
- + City of Corona
- + City of Beaumont
- + City of Palm Springs
- + City of Desert
- + City of Indian Wells
- + City of Coachella



This organizational chart depicts the availability of our team's management, supervisory, field and technical staff for this contract. All of SCST's listed employees are full-time SCST employees, the majority of which are cross-trained and multi-credentialed to save the City time and money. Resumes of key personnel are marked with an asterisk (*) and are included on the following pages. Resumes of additional personnel are available upon request.





ISAAC CHUN, PE, GE

PROJECT MANAGER

EDUCATION

- + California State Polytechnic University, BS, Civil Engineering

LICENSES & CERTIFICATIONS

- + State of California Geotechnical Engineer #2649
- + State of California Professional Engineer #59431

MEMBERSHIPS & ASSOCIATIONS

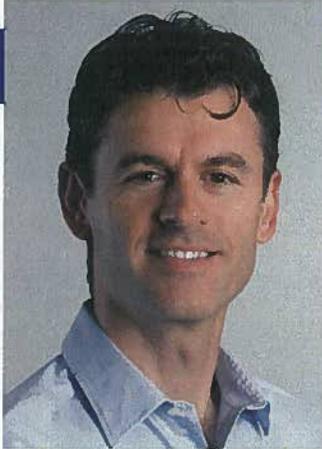
- + American Society of Civil Engineers (ASCE)
- + International Code Council

EXPERIENCE & RESPONSIBILITIES

Isaac has over 20 years of experience in the geotechnical, and testing and inspection industry. His experience includes geotechnical engineering for site characterization, suitability and design; and managing special inspection and materials testing during construction and post-construction. He has experience as an engineering manager and project manager responsible for oversight and administration of all technical services including supervision of all technical staff, special inspections, and technicians. Isaac's areas of expertise include seismic design analysis, ground improvement, stabilization, hazard mitigation and remediation, performance analysis, soil percolation studies, and pavement structural sections. He is proficient with AutoCAD, GStabl, All-Pile, Cliq, and SPT Liquefaction analysis. Isaac's duties include review of construction plans and specifications, attending jobsite meetings, preparation of engineering reports and proposals, and reviewing and reporting test results.

PROJECT EXPERIENCE

- + **Riverside Regional Water Quality Control Plant Expansion Phase I, Riverside, CA:** Project manager during testing and inspection services for the \$200 million plant expansion project, which increased the plant's capacity to 46 million gallons of sewage per day. Over 1,100 miles of sewer pipelines flow into the plant from five locations. The project included construction of new pipelines, filtrations systems, treatment tanks, digesters, and clarifiers.
- + **City of Garden Grove Twintree Lane and Haster Street Sewer Improvements:** Project Manager during geotechnical investigation for the design and construction of sewer line improvements, including installation of 4,161 feet of 8, 10, and 15-inch Vitrified Clay Pipe (VCP) sewer mainline; 40 feet of 8 and 16-inch PVC-900 sewer line; installation of 120 feet of 16-inch PVC waterlines; and installation of 16 manholes. The project also included demolition of various manholes, removal and abandonment of existing sewer lines, and reconstruction and reconnecting of 60 sewer house connections.
- + **Leo Van Der Lans Water Treatment Facility Expansion, Long Beach, CA:** Project manager during testing and inspection services for the expansion project to the plant, which treats effluent water from the Sanitation District of Los Angeles County's Long Beach Water Reclamation Plant. Work included expanding the treatment capacity to eight million gallons of water per day for use as local recycled water with new pipelines, additional storage and treatment tanks, UV and reverse osmosis filtration systems, and required support facilities and structures.
- + **Rosecrans Booster Pump Station Replacement, Buena Park, CA:** Project manager during testing and inspection services for the \$4.5 million demolition and replacement of the existing pump station facility.
- + **Carlsbad Municipal Water District Recycled Water Phase III Pipeline Expansion Segment No. 9, Carlsbad, CA:** Principal engineer during testing and inspection services for the \$1 million installation of 3,170 linear feet of 8-inch, C-900, PVC, DR18; 1,460 linear feet of 6-inch, C-900, PVC, DR18; and nine recycled water services with all valves and appurtenances. The project also included asphalt overlay, pavement striping, and markers.
- + **City of Anaheim Public Utilities On-Call Contract, Anaheim, CA:** Project manager during testing and inspection services for various projects including Pressure Reducing Station No. 10 and the Hannum Substation 1B Transformer Replacement.



EMIL RUDOLPH, PE, GE PRINCIPAL ENGINEER/TECH. ADVISOR

EDUCATION

- + University of Arizona, BS, Geological Engineering

LICENSES & CERTIFICATIONS

- + State of California Geotechnical Engineer #2767
- + State of California Professional Engineer #64301
- + Nuclear Gauge Operator Certification

MEMBERSHIPS & ASSOCIATIONS

- + American Society of Civil Engineers (ASCE)
- + Society of American Military Engineers (SAME)
- + American Public Works Association (APWA)

EXPERIENCE & RESPONSIBILITIES

Emil has 20 years of experience providing geotechnical observation and testing services for a wide range of educational projects. He provides oversight and management of geotechnical and material testing inspection teams during design and construction projects. His duties include the oversight of geotechnical and forensic evaluations including the review of field exploratory data to interpret subsurface geologic conditions, geotechnical calculations, review of temporary shoring systems, and the review of geotechnical reports and distress surveys of slopes, excavations, buildings, pavements, retaining walls and other improvements. During construction, he reviews earthwork compliance, manages special inspection and testing contracts, and provides SCST with quality reviews and technical advice. Emil's duties will consist of aiding in project management duties, including review of construction plans and specifications, attending jobsite meetings, preparation of engineering reports and proposals, and reviewing and reporting test results.

PROJECT EXPERIENCE

- + **City of Carlsbad Tri-Agencies Water Transmission Pipelines Reach 2 - Phase I, Carlsbad, CA:** Observation and testing of asphalt concrete during testing and inspection of a \$1.2 million project consisting of construction of 1,860 feet of 18-inch potable water steel pipe and a pressure reducing station.
- + **Carlsbad/Vista Interceptor Sewer, Reaches 11B-15 and the Agua Hedionda Sewer Lift Station, Carlsbad and Vista, CA:** Principal engineer during testing and inspection services for the construction of the \$42.5 million project. Features included a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad's largest lift station, as well as

the replacement of an existing wood trestle bridge over the Agua Hedionda Lagoon with a new 140-foot long steel truss bridge to support the pipeline. Other features included the construction of a new parallel force main and gravity sewer to provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. The new sewer bridge was designed to accommodate the occasional maintenance vehicle and is suitable for use by the Coastal Rail Trail project as necessary.

- + **Santa Fe Irrigation District Group 3 PRS Replacement Project and Government Road Pipeline Relocations, Solana Beach and Rancho Santa Fe, CA:** Technical advisor during testing and inspection services for the Group 3 Pressure Reducing Station (PRS) Replacement project, which included removal of three existing PRSs and design and construction of a replacement PRS at each location, as well as installation of 2,845 lineal feet of replacement pipeline. The Government Road Pipeline Relocations project consisted of the design and construction of 1,600 lineal feet of replacement pipelines beneath residential streets. The pipelines will consist of 16- to 20-inch diameter PVC water lines
- + **Rancho California Water District Camino Sierra Road Pressure Zone Conversion, Temecula, CA:** Technical advisor during inspection and testing services for the construction of 8,200 linear feet of 12-inch and 8-inch diameter water distribution pipeline to convert an area of low service pressures (2070 PZ) to the adjacent 2350 PZ to improve water pressure along Camino Sierra Road and De Portola Road.



CLINT ADKINS

LABORATORY DIRECTOR

EDUCATION

- + Long Beach Community College, Program Certificate in Business Management

LICENSES & CERTIFICATIONS

- + American Concrete Institute (ACI) Concrete Field Testing Technician Grade I, Concrete Strength Testing Technician, Concrete Laboratory Testing Technician Level I, and Aggregate Testing Technician Level 1 #01049477
- + Caltrans Testing Methods
- + Caltrans Superpave Testing Methods
- + First Aid CPR/AED
- + Nuclear Gauge Operator Certification

EXPERIENCE & RESPONSIBILITIES

Clint has 12 years of industry experience. He began at SCST as a Laboratory Technician, and is now the Director of Laboratory Services. He is responsible for the supervision of all testing to ensure tests are being performed according to standards set by Caltrans, the American Association of State Highway Transportation Officials (AASHTO), the American Society for Testing and Materials (ASTM), the Cement Concrete Reference Laboratories (CCRL) and other regulatory agencies. He is responsible for maintenance and procurement of any equipment required for certifications and/or approval by the various licensing agencies. Clint will provide oversight of all laboratory testing services to ensure all testing is performed in accordance with all applicable federal, state, and local specifications and regulations.

PROJECT EXPERIENCE

- + **Valley Sanitary District Requa Interceptor, Indio, CA:** Laboratory director during testing and inspection for the construction of a \$12.5 million project, consisting of four miles (22,000 feet) of 10-inch to 36-inch gravity flow sewer pipeline and related utility improvements.
- + **Coachella Valley Water District Avenue 62 Trunk Sewer, Thermal, CA:** Observation and testing of utility trench backfill, aggregate base material, and subgrade during the \$22.9 million design-build project. Work included the construction of 7,500 feet of 42-inch gravity sewer line with new Fiberglass Reinforced Pipe (FRP) using open trench excavation methods. Other work included rehabilitation of 16,100 feet of Cured-in-Place pipe (CIPP) of existing 42-inch VCP pipe, and the rehabilitation of 5,560 feet of CIPP of existing 33-inch VCP pipe. The project enabled the decommissioning of several lift stations, alleviated demands off the mid-valley force main system, and allowed the system to

accommodate increased customers within the service area.

- + **City of Carlsbad Tri-Agencies Water Transmission Pipelines Reach 2 - Phase I, Carlsbad, CA:** Laboratory director during testing and inspection of a \$1.2 million project consisting of construction of 1,860 feet of 18-inch potable water steel pipe and a pressure reducing station.
- + **Carlsbad/Vista Interceptor Sewer, Reaches 11B-15 and the Agua Hedionda Sewer Lift Station, Carlsbad and Vista, CA:** Laboratory director during testing and inspection services for the construction of the \$42.5 million project. Features included a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad's largest lift station, as well as the replacement of an existing wood trestle bridge over the Agua Hedionda Lagoon with a new 140-foot long steel truss bridge to support the pipeline. Other features included the construction of a new parallel force main and gravity sewer to provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. The new sewer bridge was designed to accommodate the occasional maintenance vehicle and is suitable for use by the Coastal Rail Trail project as necessary.
- + **Rancho California Water District Camino Sierra Road Pressure Zone Conversion, Temecula, CA:** Technical advisor during inspection and testing services for the construction of 8,200 linear feet of 12-inch and 8-inch diameter water distribution pipeline to convert an area of low service pressures (2070 PZ) to the adjacent 2350 PZ to improve water pressure along Camino Sierra Road and De Portola Road.



STEPHEN T. WARD GEOTECHNICAL FIELD SERVICES SUPERVISOR

EDUCATION

- + San Diego State University, BS, Environmental Geology and Minor, Geology

LICENSES & CERTIFICATIONS

- + International Code Council (ICC) Soils #8029894
- + American Concrete Institute (ACI) Concrete Field Testing Technician Grade I #01122492
- + OSHA 30-Hour and 10-Hour Construction Safety and Health Courses
- + US Army Corps of Engineers 40-Hour Construction Hazard Awareness Safety Training EM 385-1-1
- + Caltrans Testing Methods
- + Nuclear Gauge Operator Certification

EXPERIENCE & RESPONSIBILITIES

Steve has 26 years of construction industry experience. His duties include providing technical direction for geotechnical personnel, overseeing scheduling and assisting with soils investigations. He is responsible for the oversight of construction projects that include inspection of mass grading, footings, asphalt and concrete placement, and underground utilities installation. He has experience in verification and plotting of removals, keyways and buttresses. Steve's responsibilities during this contract will include monitoring of geotechnical field personnel, monitoring of budgetary progress, and attending project site meetings.

PROJECT EXPERIENCE

- + **City of National City Sewer Line Replacement and Upsizing Project Phase I, National City, CA:** Geotechnical field services supervisor during testing and inspection services for the open trench construction of 21-inch, 12-inch, and 8-inch diameter PVC sewer main. Other features included construction of new street sections, PCC curb and gutter, AC dikes, AC driveways and driveway entrances, manholes, sewer lateral replacements, PCC sidewalks, PCC curb ramps, and signing and striping.
- + **Santa Fe Irrigation District Group 3 PRS Replacement Project and Government Road Pipeline Relocations, Solana Beach and Rancho Santa Fe, CA:** Geotechnical field services supervisor during testing and inspection services for the Group 3 Pressure Reducing Station (PRS) Replacement project, which included removal of three existing PRSs and design and construction of a replacement PRS at each location, as well as installation of 2,845 lineal feet of replacement pipeline. The Government Road Pipeline Relocations project consisted of the design and construction of 1,600 lineal feet of

replacement pipelines beneath residential streets. The pipelines will consist of 16- to 20-inch diameter PVC water lines.

- + **City of Carlsbad Tri-Agencies Water Transmission Pipelines Reach 2 - Phase I, Carlsbad, CA:** Geotechnical field services supervisor during testing and inspection of a \$1.2 million project consisting of construction of 1,860 feet of 18-inch potable water steel pipe and a pressure reducing station.
- + **Carlsbad/Vista Interceptor Sewer, Reaches 11B-15 and the Agua Hedionda Sewer Lift Station, Carlsbad and Vista, CA:** Geotechnical field services supervisor during testing and inspection services for the construction of the \$42.5 million project. Features included a new 33 gallon per day sewage lift station to replace the existing lift station, which was the City of Carlsbad's largest lift station, as well as the replacement of an existing wood trestle bridge over the Agua Hedionda Lagoon with a new 140-foot long steel truss bridge to support the pipeline. Other features included the construction of a new parallel force main and gravity sewer to provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities.
- + **Otay Water District 624 Zone PRS, Chula Vista, CA:** Geotechnical field services supervisor during testing and inspection services for the construction of two PRS's feeding the 458 and 485 Pressure Zones from the 624 Pressure Zone to improve fire flow and enhance system reliability.



ANTHONY WIANT

FIELD TECHNICIAN

LICENSES & CERTIFICATIONS

- + American Concrete Institute (ACI) Concrete Field Testing Technician Grade 1 #01152494
- + Caltrans Testing Methods Nos. 125-AC, 125-AGG, 216, 226, 231, 275
- + OSHA 10-Hour Occupational Safety and Health Training Course
- + Nuclear Gauge Operator Certification

EXPERIENCE & RESPONSIBILITIES

Anthony has 20 years of experience. He is responsible for performing day-to-day testing in the laboratory, including sieve analysis, consolidation, direct shears, R-value, and LA abrasion testing. He runs all tests according to standards set by the Cement Concrete Reference Laboratories (CCRL), American Society for Testing and Materials (ASTM), Caltrans, Division of the State Architect (DSA), and the American Association of State Highway Transportation Officials (AASHTO). Anthony also provides earthwork observation and testing, as well as concrete sampling, testing, and inspection.

PROJECT EXPERIENCE

- + **City of Riverside Public Works Consulting Services, Riverside, CA:** Observation and testing of asphalt concrete, subgrade, and aggregate base materials during various projects, including street maintenance repairs and minor street maintenance projects.
- + **Valley Sanitary District Requa Interceptor, Indio, CA:** Observation and testing of utility trench backfill, grading, subgrade and paving during testing and inspection for the construction of a \$12.5 million project, consisting of four miles (22,000 feet) of 10-inch to 36-inch gravity flow sewer pipeline and related utility improvements.
- + **Coachella Valley Water District Avenue 62 Trunk Sewer, Thermal, CA:** Observation and testing of utility trench backfill, aggregate base material, and subgrade during the \$22.9 million design-build project. Work included the construction of 7,500 feet of 42-inch gravity sewer line with new Fiberglass Reinforced Pipe (FRP) using open trench excavation methods. Other work included rehabilitation of 16,100 feet of Cured-in-Place pipe (CIPP) of existing 42-inch VCP pipe, and the rehabilitation of 5,560 feet of CIPP of existing 33-inch VCP pipe. The project enabled the decommissioning of several lift stations, alleviated demands off the mid-valley force main system, and allowed the system to accommodative increased customers within the service area.
- + **Whittier Narrows Operation Unit, South El Monte, CA:** Observation and testing of grading during construction of a new combined treated potable water storage tank and Chlorine Contact (CCT), and treated water pump station at the existing groundwater treatment plant. The plant supplies disinfected treated water to the San Gabriel Valley Water Company potable water distribution system. The project is under the jurisdiction of the Environmental Protection Agency, Region 9, under Response Action Contract 3 Full Service (RAC 3 FS).
- + **City of Indio Madison Street Canal, Indio, CA:** Observation and testing of utility trench backfill, wall backfill, subgrade, paving, and aggregate base material, as well as concrete quality control during this \$3.2 million project to accommodate the widening of Madison Street. The project included canal diversions, temporary and new bridge structures, sewer mains, jack and bore operations, utility relocations, and box culverts.
- + **City of Indio Highway 111 Improvements, Federal Project No. STPL5275 (027), Indio, CA:** Observation and testing of subgrade, aggregate base material, and asphalt concrete, as well as concrete quality control. The \$11.5 million project funded under Measure X will upgrade two miles of Highway 111. The project will include widening of Highway 111 from two lanes to three "through lanes" in each direction, replacing and reconstruction of all existing pavement with new pavement, replacing six traffic signals, drainage improvements to help alleviate flooding around Highway 111 and Monroe, replacing 60 existing driveways with new ADA compliant driveways that also makes ingress and egress to businesses easier, and replacing all access ramps, along with other ADA access improvements, along sidewalks.
- + **City of Indio Interstate 10 and Jefferson Street Interchange, Indio CA:** Observation and testing of utility trench backfill, wall backfill, subgrade, asphalt concrete, and aggregate base material, as well as batch plant inspection during construction of the \$53 million project. Work consisted of the construction of a new interchange with standard diamond ramps, loop entrance ramps, and a new eight lane Jefferson Street overcrossing over I-10. Acceleration and decelerations lanes are being constructed on the westbound on-ramp and eastbound off-ramp, and ramp metering will be added to the on-ramps. I-10 is being widened to accommodate a future fourth lane. The project will increase capacity and improve traffic operations now and in the future.



TONY STEWART

FIELD TECHNICIAN

LICENSES & CERTIFICATIONS

- + American Concrete Institute (ACI) Concrete Field Testing Technician Grade 1 #01057819
- + Caltrans Testing Methods Nos. 304, 308, 309, 366, 370, 382, 504, 518, 523, 523.2, 524, 533, 539, 540, 556, 557
- + OSHA 10-Hour Construction Safety and Health
- + Nuclear Gauge Operator Certification
- + Courses in Fall Protection; Scaffold User Hazard Awareness Training; Boom Lifts, Scissor Lifts, and Reach Forklifts

EXPERIENCE & RESPONSIBILITIES

Tony has been in the construction industry for 18 years. He has provided soils and materials testing on many of SCST's projects, including numerous transportation projects throughout southern California. Tony is familiar with the standards set by OSHPD and DSA, as well as by the Cement Concrete Reference Laboratories (CCRL), American Society for Testing and Materials (ASTM), Caltrans, and the American Association of State Highway Transportation Officials (AASHTO). He provides observation and testing of all aspects of earthwork, as well as concrete testing and inspection, in accordance with project plans and specifications, and all federal, state, and local regulatory agencies.

PROJECT EXPERIENCE

- + **Rancho California Water District Camino Sierra Road Pressure Zone Conversion, Temecula, CA:** Trench backfill observation and testing during construction of 8,200 linear feet of 12-inch and 8-inch diameter water distribution pipeline to convert an area of low service pressures (2070 PZ) to the adjacent 2350 PZ to improve water pressure along Camino Sierra Road and De Portola Road.
- + **City of National City Sewer Line Replacement and Upsizing Project Phase I, National City, CA:** Observation and testing of trench backfill and subgrade during open trench construction of 21-inch, 12-inch, and 8-inch diameter PVC sewer main. Other features included construction of new street sections, PCC curb and gutter, AC dikes, AC driveways and driveway entrances, manholes, sewer lateral replacements, PCC sidewalks, PCC curb ramps, and signing and striping.
- + **City of Carlsbad Tri-Agencies Water Transmission Pipelines Reach 2 - Phase I, Carlsbad, CA:** Observation and testing of asphalt concrete during testing and inspection of a \$1.2 million project consisting of construction of 1,860 feet of 18-inch potable water steel pipe and a pressure reducing station.
- + **Recycled Water Phase III Pipeline Expansion Segment No. 1A and 7, Carlsbad, CA:** Subgrade observation and testing during construction of 4,151 linear feet of 8 inch, C-900 PVC DR14 pipeline; 6,611 linear feet of 6 inch, C-900 PVC DR14 pipeline; 3,392 linear feet of 4 inch, c-900, PVC, DR14, and 59 recycled water services with all valves and appurtenances. Work took place in collector streets in industrial areas, and required traffic control, utility protection, asphalt overlay, pavement striping, and markers.
- + **Carlsbad/Vista Interceptor Sewer, Reaches 11B-15 and the Agua Hedionda Sewer Lift Station, Carlsbad and Vista, CA:** Observation and testing of asphalt concrete during construction of the \$42.5 million project. Features included a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad's largest lift station, as well as the replacement of an existing wood trestle bridge over the Agua Hedionda Lagoon with a new 140-foot long steel truss bridge to support the pipeline. Other features included the construction of a new parallel force main and gravity sewer to provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. The new sewer bridge was designed to accommodate the occasional maintenance vehicle and is suitable for use by the Coastal Rail Trail project as necessary.
- + **City of San Diego 69th and Mohawk Pump Station, San Diego, CA:** Observation and testing of trench backfill during construction of a new \$15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, ADA pedestrian ramps, and sidewalks.



VALLEY SANITARY DISTRICT REQUA INTERCEPTOR

INDIO, CA



Construction of a \$12.5 million project, consisting of 4 miles (22,000 feet) of 10-inch to 36-inch gravity flow sewer pipeline and related utility improvements.

SERVICES:

Observation and Testing of Utility Trench Backfill, Asphalt Concrete, Subgrade, and Aggregate Base Material

REFERENCE NAME, ADDRESS, AND TELEPHONE NUMBER:

Ron Buchwald, Valley Sanitary District
45-500 Van Buren Street, Indio, CA 92201
760.238.5408

CARLSBAD MUNICIPAL WATER DISTRICT RECYCLED WATER PHASE III PIPELINE EXPANSION SEGMENT NO. 9

CARLSBAD, CA



\$1 million installation of 3,170 linear feet of 8-inch, C-900, PVC, DR18; 1,460 linear feet of 6-inch, C-900, PVC, DR18; and 9 recycled water services with all valves and appurtenances. The project also included asphalt overlay, pavement striping, and markers.

SERVICES:

Observation and Testing of Utility Trench Backfill, Asphalt Concrete, Subgrade, and Aggregate Base Material

REFERENCE NAME, ADDRESS, AND TELEPHONE NUMBER:

Scott Fisher, City of Carlsbad
1635 Faraday Avenue, Carlsbad, CA 92008
760.814.7226

CITY OF SAN DIEGO 69TH AND MOHAWK PUMP STATION

SAN DIEGO, CA



Construction of a new \$15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, ADA pedestrian ramps, and sidewalks.

SERVICES:

Observation and Testing of Utility Trench Backfill, Asphalt Concrete, Subgrade, and Aggregate Base Material

REFERENCE NAME, ADDRESS, AND TELEPHONE NUMBER:

Nick Walters, West Coast General Corporation
13700 Stowe Drive, Suite 100, Poway, CA 92064
619.561.4200 x 18



COACHELLA VALLEY WATER DISTRICT AVENUE 62 TRUNK SEWER

THERMAL, CA



This \$22.9 million design-build project included construction of 7,500 feet of 42-inch gravity sewer line with new Fiberglass Reinforced Pipe (FRP) using open trench excavation methods. Other work included rehabilitation of 16,100 feet of Cured-in-Place pipe (CIPP) of existing 42-inch VCP pipe, and the rehabilitation of 5,560 feet of CIPP of existing 33-inch VCP pipe. The project enabled the decommissioning of several lift stations, alleviated demands off the mid-valley force main system, and allowed the system to accommodate increased customers within the service area.

SERVICES:

Observation and Testing of Utility Trench Backfill, Cement Stabilized Sand Fill, Native Soils, Grading, and Aggregate Base Material

REFERENCE NAME, ADDRESS, AND TELEPHONE NUMBER:

Luis Tamariz, CDM Smith
703 Palomar Airport Road, Suite 300, Carlsbad, CA 92011
760.438.7755

CITY OF CARLSBAD TRI-AGENCIES WATER TRANSMISSION PIPELINES REACH 2 - PHASE 1

CARLSBAD, CA



\$1.2 million project consisting of the construction of 1,860 feet of 18-inch potable water steel pipe and a pressure reducing station.

SERVICES:

Observation and Testing of Utility Trench Backfill, Asphalt Concrete, Subgrade, and Aggregate Base Material

REFERENCE NAME, ADDRESS, AND TELEPHONE NUMBER:

John Maashoff, City of Carlsbad
1635 Faraday Avenue, Carlsbad, CA 92008
760.434.2980

CITY OF NATIONAL CITY SEWER LINE REPLACEMENT AND UPSIZING PROJECT PHASE I

NATIONAL CITY, CA



The project included open trench construction of 21-inch, 12-inch, and 8-inch diameter PVC sewer main. Other features included construction of new street sections, PCC curb and gutter, AC dikes, AC driveways and driveway entrances, manholes, sewer lateral replacements, PCC sidewalks, PCC curb ramps, and signing and striping.

SERVICES:

Observation and Testing of Utility Trench Backfill, Subgrade, Asphalt Concrete, Aggregate Base Material, and Backfill

REFERENCE NAME, ADDRESS, AND TELEPHONE NUMBER:

Jose Lopez, City of National City
1243 National City Boulevard, National City, CA 91950
619.336.4380



CARLSBAD/VISTA INTERCEPTOR SEWER, REACHES 11B-15 AND THE AGUA HEDIONDA SEWER LIFT STATION

CARLSBAD AND VISTA, CA



The \$42.5 million project consisted of construction of a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad's largest lift station, as well as the replacement of an existing wood trestle bridge over the Agua Hedionda Lagoon with a new 140-foot long steel truss bridge to support the pipeline. Other features included the construction of a new parallel force main and gravity sewer to provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. The new sewer bridge was designed to accommodate the occasional maintenance vehicle and is suitable for use by the Coastal Rail Trail project as necessary.

SERVICES:

Observation and Testing of Utility Trench Backfill, Grading, Wall Backfill, Subgrade, Aggregate Base Material, and Asphalt Concrete

REFERENCE NAME, ADDRESS, AND TELEPHONE NUMBER:

Anthony Dazzo, Arcadis US, Inc.
2175 Salk Avenue, Suite 130, Carlsbad, CA 92008
760.602.3802

RINCON DEL DIABLO MUNICIPAL WATER DISTRICT NORTH BROADWAY PIPELINE EXPANSION

ESCONDIDO, CA



\$1.9 million project to convert the feed to the Laurashawn service area from the Valley Center Municipal Water District (VCMWD) to the District's ID 1 service area. Work consisted of 7,450 linear feet of new 8-inch and 12-inch diameter ductile iron potable water distribution main and appurtenances, abandonment of 2,735 linear feet of existing 6-inch CML&C steel water main, and reinstallation and relocation of existing water services. Other features included installation of an emergency interconnection with the VCMWD and an increase in the fire flow capacity.

SERVICES:

Observation and Testing of Utility Trench Backfill, Aggregate Base Material, Subgrade, and Asphalt Concrete

REFERENCE NAME, ADDRESS, AND TELEPHONE NUMBER:

Nick Lyuber, Rincon del Diablo Municipal Water District
1920 North Iris Lane, Escondido, CA 92026
760.745.5522 x 506



F. EVIDENCE OF INSURANCE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
1/29/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Cavignac & Associates 450 B Street, Suite 1800 San Diego CA 92101	CONTACT NAME: Certificate Department PHONE (A/C No, Ext): 619-744-0574 FAX (A/C, No): 619-234-8601 E-MAIL ADDRESS: certificates@cavignac.com	
	INSURER(S) AFFORDING COVERAGE	
INSURED SCST, Inc. 6280 Riverdale Street San Diego, CA 92120	INSURER A : Travelers Property & Casualty Company of America	NAIC # 25674
	INSURER B : Charter Oak Fire Insurance Co.	25615
	INSURER C : Travelers Indemnity Co of Conn	25682
	INSURER D : Berkley Insurance Company	32603
	INSURER E : INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** 1124868008 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Cross Liab Incl GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:		DTC05K369090	1/30/2018	1/30/2019	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Deductible \$ \$0
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS		DT8105K372820	1/30/2018	1/30/2019	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 0		CUP5K372426	1/30/2018	1/30/2019	EACH OCCURRENCE \$ 9,000,000 AGGREGATE \$ 9,000,000 \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/> N/A				PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A C D	Leased/Rented Equipment Business Personal Property Professional Liability		6605K598347 6605K598347 AEC001875701	1/30/2018 1/30/2018 1/30/2018	1/30/2019 1/30/2019 1/30/2019	Limit \$100,000 Limit \$930,000 Ea Claim & Aggreg \$2M/\$4M

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 For Informational Purposes Only.

CERTIFICATE HOLDER Specimen Certificate	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE

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ACORD 25 (2014/01)

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F. EVIDENCE OF INSURANCE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
9/15/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Alliant Insurance Services, Inc. 701 B St 6th Fl San Diego CA 92101	CONTACT NAME: Diane Clark	
	PHONE (A/C, No, Ext): 619-849-3783	FAX (A/C, No): 619-699-2165
E-MAIL ADDRESS: dclark@alliant.com		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A: Travelers Casualty & Surety Co		31194
INSURER B:		
INSURER C:		
INSURER D:		
INSURER E:		
INSURER F:		

INSURED SCSTINC-01
 SCST, Inc.
 fka: Southern California Soil & Testing, Inc.
 6280 Riverdale Street
 San Diego CA 92101

COVERAGES **CERTIFICATE NUMBER:** 817956736 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			UB-4H963122	9/15/2017	9/15/2018	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Evidence of Workers' Compensation coverage only.

CERTIFICATE HOLDER Proof of Insurance 6280 Riverdale Street San Diego CA 92120	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE <i>Patricia Ecker</i>
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The following information summarizes SCST's litigation history related to services provided in the last five years. "Dismissed" means SCST was dismissed for a waiver of costs, but paid no money towards settlement or judgment. There have been no convictions for filing false claims.

SCST appears to be involved in many lawsuits due to our work with housing developers and home builders, where we, along with all other subcontractors, are named in homeowner association lawsuits. Our participation is frequently dismissed by the court or settled for very small amounts of money.

The firm has not filed for bankruptcy, nor has there been termination for default or convictions for filing false claims within the past five years.

CLAIMS FILED BY SCST			
YEAR	CLAIM	NATURE OF COMPLIANT	RESOLUTION
2015	Today's Fresh Start, Inc.	Unpaid Fees	Settled

CLAIMS FILED AGAINST SCST			
YEAR	CLAIM	NATURE OF COMPLIANT	RESOLUTION
2017	Waterman, et al v. Pulte Homes	Alleged construction defects.	Pending
2016	Stafford v. KB Home Coastal, Inc., et. al.	Alleged construction defects.	Dismissed
2015	Garcia v. McMillin Montara, LLC, et. al.	Alleged construction defects.	Settled
2014	Badian v. McMillin Artes, LLC	Alleged construction defects.	Settled
2014	Zoological Society v. Minshew Brothers Steel Co.	Alleged construction defects.	Dismissed
2013	Vista del Rio Project in Santa Ana, CA	Alleged improper recommendations.	Dismissed



BUDGET ESTIMATE SUMMARY
GEOTECHNICAL PROFESSIONAL SERVICES
California Prevailing Wage Rates



SCHEDULE OF FEES FOR PROFESSIONAL SERVICES

California Prevailing Wage Rate
Effective January 1, 2018

PROFESSIONAL SERVICES

Professional (Engineering, Geology, Environmental)

Principal Professional	\$174
Senior Professional	155
Project Professional	115
Staff Professional	96
Drafter	77

Technician & Inspector

Quality Control Specialist	\$87
Lab Technician	65
Building Inspector	88
Group 1	84
Group 2	88
Group 3	92
Coring	126

Project Management

Senior Project Manager	\$156
Project Manager	\$124
Administrative Assistant	55

Travel and Miscellaneous

Pick Up	\$66/trip
Travel Time	Hourly Rate
Per Diem (variable, depending on location)	Quote
Prevailing Wage Hourly Surcharge for Technicians and Inspectors per California Labor Code §720, et. Seq.	Quote
Overtime and Saturday Rate	1.5 x Regular Hourly Rate
Sunday and Nationally Recognized Holiday Rate (including the day after Thanksgiving)	2 x Regular Hourly Rate
Rush Surcharge	normal rate plus 50%

LABORATORY TESTS

Soil and Aggregate

Absorption Coarse Aggregate (Cal 206, ASTM C127)	\$38
Absorption Fine Aggregate (Cal 207, ASTM C128)	38
California Bearing Ratio includes Max Density Method C (ASTM D854)	618
California Impact (Cal 216)	206
Chloride Ion Testing (Cal 422)	150
Clay Lumps in Aggregate/Per Size (ASTM C142)	150
Cleanness Value – 1" and Smaller (Cal 227)	200
Cleanness Value – Larger than 1' (Cal 227)	225
Consolidation (ASTM D2435)	200
Corrosivity Testing (Soluble Chlorides and Sulfates, pH and Resistivity)	187
Crushed Particles/Size (Cal 205, ASTM D693)	121
Direct Shear (ASTM D3080)	208
Durability Factor (Cal 229, ASTM D3744)	97
Durability Index (Cal 229, ASTM D3744)	224
Expansion Index (ASTM D4289)	177
Fine Aggregate Angularity (AASHTO T304)	200
Fineness Modulus (ASTM C136)	24
Flat & Elongated Pieces/Size (ASTM D4791)	175
Light Weight Pieces (ASTM C123)	175


SCHEDULE OF FEES FOR PROFESSIONAL SERVICES CONT.
Soil and Aggregate - Continued

Liquid Limit (Cal 204, ASTM D4318)	\$58
Los Angeles Abrasion – larger than 1 1/2" (Cal 211, ASTM C535)	237
Los Angeles Abrasion – 1 1/2" and smaller (Cal 211, ASTM C131)	224
Maximum Density Check Point (ASTM D698/D1557)	88
Maximum Density/Optimum Moisture - 4" (ASTM D1557)	200
Maximum Density/Optimum Moisture - 4" (ASTM D698)	200
Maximum Density/Optimum Moisture - 6" (ASTM D1557)	220
Maximum Density/Optimum Moisture - 6" (ASTM D698)	200
Minimum Density (ASTM D1556)	74
Moisture Content (Cal 226, ASTM C566, ASTM D2216)	35
Natural Density –Chunk Sample (ASTM D2937)	41
Natural Moisture/Density Ring or Core Sample (ASTM D2937)	35
Organic Impurities (Cal 213, ASTM C40)	90
Organic Matter (ASTM D2974)	75
Percent Finer than #200 (ASTM C117, ASTM D1140)	70
Permeability Remold Sample includes Maximum Density (ASTM D2434)	400
Permeability Remold Sample includes Maximum Density (ASTM D5084)	560
Permeability Undisturbed Sample (ASTM D5084)	360
Petrographic Analysis (Cal 215, ASTM C295)	Quote
pH & Resistivity (Cal 204, ASTM D4318)	126
Plastic Limit (Cal 204, ASTM D4318)	69
Plasticity Index (Cal 643, ASTM G51)	127
Potential Reactivity (ASTM C289)	220
Residual Shear (ASTM D6467)	442
Rock Correction (ASTM D4718)	26
R-Value (Cal 301, ASTM D2844)	276
Sand Equivalent (Cal 217, ASTM D2419)	88
Sieve Analysis (Cal 202, ASTM C136, ASTM D422)	90
Sieve Analysis Pit Sample (Cal 202, ASTM C136)	128
Sieve Analysis with Hydrometer (Cal 203, ASTM D422)	200
Soil Cement Compression Strength (Cal 312, ASTM D1632)	50
Soil Cement Cylinder Fabrication (Cal 312, ASTM D1632)	100
Soluble Chlorides (Cal 422)	62
Soluble Sulfate (Cal 417)	62
Soundness 5 Cycles/Size (Cal 214, ASTM C88)	120
Specific Gravity Coarse Aggregate (Cal 206, ASTM C127)	69
Specific Gravity Fine Aggregate (Cal 207, ASTM C128)	74
Triaxial Shear Consolidated-Undrained (ASTM D4767)	330
Triaxial Shear Unconsolidated-Undrained (ASTM D2850)	150
Triaxial Staged Consolidated-Undrained (ASTM D4767)	420
Triaxial Staged Unconsolidated-Undrained (ASTM D2850)	210
Unconfined Compression (ASTM D2166)	162
Unit Weight Aggregate (Cal 212, ASTM C29)	80

Asphalt Concrete

Asphalt Conformance Testing Full (inc. % Bitumen, SA Extracted, (2) Hveem, Maximum Theoretical, (2) Stabilometer Value)	\$833
Asphalt Conformance Testing Modified (inc. % Bitumen, SA Extracted, (2) Hveem)	465
Asphalt Core Specific Gravity (Cal 308, ASTM D2726)	58
Asphalt Core Specific Gravity Waxed (Cal 308, ASTM D1188)	74
Emulsion Content (CTM 382)	178
Film Stripping (Cal 302)	178
Gyratory Compacted Plug (AASHTO T312)	133
Hamburg Wheel-Plant Produced HMA (AASHTO T324/Cal-Trans Section 39)	900
Hveem – Maximum Bulk Specific Gravity (Cal 308)	133
Hveem & Stabilometer Value (Cal 366)	168
Ignition Oven Correction Factor (AASHTO T308)	500


SCHEDULE OF FEES FOR PROFESSIONAL SERVICES CONT.
Asphalt Concrete - Continued

Marshal Density, Stability & Flow (ASTM D6927) per plug	\$168
Marshal Density (ASTM D6926) per plug	133
Moisture Content of Asphalt Mixtures Using Microwave (Cal 370)	50
Moisture Vapor Susceptibility (Cal 307)	259
Optimum Bitumen Content (Cal 367)	3,100
Percent Bitumen Asphaltic Concrete (Cal 382, ASTM D6307).....	183
Residue by Evaporation (Cal 331)	178
Rice - Maximum Theoretical Specific Gravity AC (Cal 309, ASTM D2041)	133
Sieve Analysis – Extracted Aggregate (Cal 382, ASTM D5444)	89
Stability and Flow (ASTM D1559)	147
Stabilometer Value (Cal 366)	147
Superpave Aggregate Qualities (Standard Cal-Trans Section 39 Requirements).....	1,050
Superpave Mix Design-No RAP testing or Aggregate Qualities (AASHTO R35/Cal-Trans Section 39).....	6,700
Superpave RAP Testing-Fractionated (ASTM D2172/AASHTO T308/Cal-Trans Section 39).....	5,700
Superpave RAP Testing-Not Fractionated (ASTM D2172/AASHTO T308/Cal-Trans Section 39).....	2,850
Swell Asphalt Concrete (Cal 305, ASTM D1561)	147
Tensile Strength Ratio-Plant Produced HMA (AASHTO T283)	900
Wet Track Abrasion (ASTM D3910)	285

Concrete

2X2 Cube Compression	\$27
Concrete Core Compression (ASTM C42)	59
Concrete Cylinder Compression (Cal 521, ASTM C39)	27
Flex Beam Modulus of Rupture (Cal 523, ASTM C78)	74
Modulus Elasticity (Cal 522, ASTM C469)	261
Shotcrete Mockup Panel (ASTM C1140)	1,040
Shotcrete Panel, 3 Cores – Compression (CBC)	290
Shrinkage-Hardened Concrete (ASTM C157 - Modified)	371
Split Tensile, Concrete Cylinder (ASTM C496)	74
Time of Set (ASTM C403)	200
Trial Batch Beam (Cal 523, ASTM C192)	69
Trial Batch Concrete Cylinder (Cal 521, ASTM C192)	38
Trial Batch Fabrication (ASTM C192)	298
Unit Weight, Hardened Concrete (ASTM C642)	45
Unit Weight, Lightweight Concrete (ASTM C567)	59

Masonry

Absorption Block (ASTM C140)	\$38
Compression Adobe	52
Compression Block, Standard (ASTM C140)	50
Compression, Brick (ASTM C67)	38
Efflorescence Block	59
Efflorescence, Brick (ASTM C67)	45
Grout Prism Compression (ASTM C1019)	27
Masonry Core Compression (ASTM C42)	51
Masonry Core Shear (CBC 2105A.4)	92
Masonry Prism Compression (ASTM E447)	149
Mortar Bond Strength – Pull Test (ASTM C482)	62
Mortar Cylinder Compression.....	27
Mortar Shear Strength (ANSI 118)	53
Relative Mortar Strength (Cal 515)	850
Shrinkage – Masonry Block (ASTM C426)	252
Trial Grout Prisms (ASTM C942)	38
Water Retention and Air Content (ASTM C270)	468



SCHEDULE OF FEES FOR PROFESSIONAL SERVICES CONT.

Metal

Table with 2 columns: Service Description and Price. Includes items like Bend Test, Reinforcing Steel (ASTM A615) for \$45, and Tensile Strength tests for various bar sizes.

Miscellaneous

Table with 2 columns: Service Description and Price. Includes items like Fire Proofing Density Test (ASTM E605) for \$69, and Material Preparation for 40/hr.

TERMS AND CONDITIONS

All field services will be charged from portal to portal with the following minimum charges:

- A two-hour show-up charge will be applied to any service canceled the same day of service.
• The client will be invoiced only for the actual hours worked.
• Work in excess of eight hours up to twelve hours in a single day, will be charged in one-hour increments at 1.5 times the standard rate.
• Work in excess of twelve hours in a day will be charged in one-hour increments at 2.0 times the standard rate.

Work performed by field or laboratory personnel outside of normal business hours (6:30 AM – 5:00 PM) will be charged a premium on a case-by-case basis.

Reimbursables: SCST reserves the right to charge for services outside of the contract in the form of reimbursables. These items include, but are not limited to the following consumables: magnetic particle powder, ultrasonic copulvent, concrete cylinder cans, etc.

Subcontracted services that are included on the Fee Schedule will be charged at those rates. Subcontracted services not included in our Fee Schedule will be charged at cost plus 20 percent. Per Diem charges will be applied to projects outside a 50-mile radius of our office.

Invoices for all services completed or in progress will be submitted monthly. These invoices are due in full upon presentation to the client. Invoices outstanding over 30 days will be considered past due. A finance charge will be computed at the rate of 1.5 percent per month, which is an annual rate of 18 percent and charged on all past due accounts.

Our professional engineering, geology, and inspection services are performed in accordance with the current standards of practice in the industry. No other warranty or representation, express or implied, is made or intended.

CELEBRATING MORE THAN 50 YEARS IN SOUTHERN CALIFORNIA

EXHIBIT "B"

COMPENSATION

BUDGET ESTIMATE SUMMARY EARTHWORK OBSERVATION AND COMPACTION TESTING SERVICES

	Estimated Hours/Unit		Rate/Unit	Total Cost
FIELD TECHNICIAN				\$96,320.00
Soils Tech - Utility Trench Backfill, Subgrade/Base/Asphalt	560 hours	@	\$84.00 /hour	\$47,040.00
Soils Tech - Utility Trench Backfill, Subgrade/Base/Asphalt (Night-time/Weekend)	560 hours	@	\$88.00 /hour	\$49,280.00
REPORTS				\$3,220.00
Weekly Reports, Project Professional	28 hours	@	\$115.00 /hour	\$3,220.00
LABORATORY TESTING				\$2,088.00
Asphalt Extraction	4 tests	@	\$183.00 /test	\$732.00
Asphalt Gradation	4 tests	@	\$89.00 /test	\$356.00
Maximum Density Test (Method A)	5 tests	@	\$200.00 /test	\$1,000.00
TOTAL FOR EARTHWORK OBSERVATION AND COMPACTION TESTING SERVICES				\$101,628.00

ASSUMPTIONS

- 1 A construction schedule was not available for this estimate.
- 2 Plans and specifications were not available for this estimate.
- 3 Night time services, including Sunday night, will be provided at the unit rate shown for night-time/weekend as long as the soil technician assigned to work night-time does not exceed 40 hours per week
- 4 No overtime is scheduled.
- 5 This budget estimate reflects realistic amounts of inspection and testing at a **California State Prevailing Wage** inspection rate.
- 6 The Client will be invoiced only for the hours actually worked.
- 7 The hourly rate reflects an anticipated start date of 2018.
- 8 All work performed outside our scope of service will be invoiced per SCST 2018 Schedule of Fees.
- 9 Man hours testing quantities are based on RFP No. 1826.

EXHIBIT "C"

KEY PERSONNEL



This organizational chart depicts the availability of our team's management, supervisory, field and technical staff for this contract. All of SCST's listed employees are full-time SCST employees, the majority of which are cross-trained and multi-credentialed to save the City time and money. Resumes of key personnel are marked with an asterisk (*) and are included on the following pages. Resumes of additional personnel are available upon request.





ISAAC CHUN, PE, GE

PROJECT MANAGER

EDUCATION

- + California State Polytechnic University, BS, Civil Engineering

LICENSES & CERTIFICATIONS

- + State of California Geotechnical Engineer #2649
- + State of California Professional Engineer #59431

MEMBERSHIPS & ASSOCIATIONS

- + American Society of Civil Engineers (ASCE)
- + International Code Council

EXPERIENCE & RESPONSIBILITIES

Isaac has over 20 years of experience in the geotechnical, and testing and inspection industry. His experience includes geotechnical engineering for site characterization, suitability and design; and managing special inspection and materials testing during construction and post-construction. He has experience as an engineering manager and project manager responsible for oversight and administration of all technical services including supervision of all technical staff, special inspections, and technicians. Isaac's areas of expertise include seismic design analysis, ground improvement, stabilization, hazard mitigation and remediation, performance analysis, soil percolation studies, and pavement structural sections. He is proficient with AutoCAD, GStabl, All-Pile, Cliq, and SPT Liquefaction analysis. Isaac's duties include review of construction plans and specifications, attending jobsite meetings, preparation of engineering reports and proposals, and reviewing and reporting test results.

PROJECT EXPERIENCE

- + **Riverside Regional Water Quality Control Plant Expansion Phase I, Riverside, CA:** Project manager during testing and inspection services for the \$200 million plant expansion project, which increased the plant's capacity to 46 million gallons of sewage per day. Over 1,100 miles of sewer pipelines flow into the plant from five locations. The project included construction of new pipelines, filtrations systems, treatment tanks, digesters, and clarifiers.
- + **City of Garden Grove Twintree Lane and Haster Street Sewer Improvements:** Project Manager during geotechnical investigation for the design and construction of sewer line improvements, including installation of 4,161 feet of 8, 10, and 15-inch Vitrified Clay Pipe (VCP) sewer mainline; 40 feet of 8 and 16-inch PVC-900 sewer line; installation of 120 feet of 16-inch PVC waterlines; and installation of 16 manholes. The project also included demolition of various manholes, removal and abandonment of existing sewer lines, and reconstruction and reconnecting of 60 sewer house connections.
- + **Leo Van Der Lans Water Treatment Facility Expansion, Long Beach, CA:** Project manager during testing and inspection services for the expansion project to the plant, which treats effluent water from the Sanitation District of Los Angeles County's Long Beach Water Reclamation Plant. Work included expanding the treatment capacity to eight million gallons of water per day for use as local recycled water with new pipelines, additional storage and treatment tanks, UV and reverse osmosis filtration systems, and required support facilities and structures.
- + **Rosecrans Booster Pump Station Replacement, Buena Park, CA:** Project manager during testing and inspection services for the \$4.5 million demolition and replacement of the existing pump station facility.
- + **Carlsbad Municipal Water District Recycled Water Phase III Pipeline Expansion Segment No. 9, Carlsbad, CA:** Principal engineer during testing and inspection services for the \$1 million installation of 3,170 linear feet of 8-inch, C-900, PVC, DR18; 1,460 linear feet of 6-inch, C-900, PVC, DR18; and nine recycled water services with all valves and appurtenances. The project also included asphalt overlay, pavement striping, and markers.
- + **City of Anaheim Public Utilities On-Call Contract, Anaheim, CA:** Project manager during testing and inspection services for various projects including Pressure Reducing Station No. 10 and the Hannum Substation 1B Transformer Replacement.



EMIL RUDOLPH, PE, GE PRINCIPAL ENGINEER/TECH. ADVISOR

EDUCATION

- + University of Arizona, BS, Geological Engineering

LICENSES & CERTIFICATIONS

- + State of California Geotechnical Engineer #2767
- + State of California Professional Engineer #64301
- + Nuclear Gauge Operator Certification

MEMBERSHIPS & ASSOCIATIONS

- + American Society of Civil Engineers (ASCE)
- + Society of American Military Engineers (SAME)
- + American Public Works Association (APWA)

EXPERIENCE & RESPONSIBILITIES

Emil has 20 years of experience providing geotechnical observation and testing services for a wide range of educational projects. He provides oversight and management of geotechnical and material testing inspection teams during design and construction projects. His duties include the oversight of geotechnical and forensic evaluations including the review of field exploratory data to interpret subsurface geologic conditions, geotechnical calculations, review of temporary shoring systems, and the review of geotechnical reports and distress surveys of slopes, excavations, buildings, pavements, retaining walls and other improvements. During construction, he reviews earthwork compliance, manages special inspection and testing contracts, and provides SCST with quality reviews and technical advice. Emil's duties will consist of aiding in project management duties, including review of construction plans and specifications, attending jobsite meetings, preparation of engineering reports and proposals, and reviewing and reporting test results.

PROJECT EXPERIENCE

- + **City of Carlsbad Tri-Agencies Water Transmission Pipelines Reach 2 - Phase I, Carlsbad, CA:** Observation and testing of asphalt concrete during testing and inspection of a \$1.2 million project consisting of construction of 1,860 feet of 18-inch potable water steel pipe and a pressure reducing station.
- + **Carlsbad/Vista Interceptor Sewer, Reaches 11B-15 and the Agua Hedionda Sewer Lift Station, Carlsbad and Vista, CA:** Principal engineer during testing and inspection services for the construction of the \$42.5 million project. Features included a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad's largest lift station, as well as

the replacement of an existing wood trestle bridge over the Agua Hedionda Lagoon with a new 140-foot long steel truss bridge to support the pipeline. Other features included the construction of a new parallel force main and gravity sewer to provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. The new sewer bridge was designed to accommodate the occasional maintenance vehicle and is suitable for use by the Coastal Rail Trail project as necessary.

- + **Santa Fe Irrigation District Group 3 PRS Replacement Project and Government Road Pipeline Relocations, Solana Beach and Rancho Santa Fe, CA:** Technical advisor during testing and inspection services for the Group 3 Pressure Reducing Station (PRS) Replacement project, which included removal of three existing PRSs and design and construction of a replacement PRS at each location, as well as installation of 2,845 lineal feet of replacement pipeline. The Government Road Pipeline Relocations project consisted of the design and construction of 1,600 lineal feet of replacement pipelines beneath residential streets. The pipelines will consist of 16- to 20-inch diameter PVC water lines
- + **Rancho California Water District Camino Sierra Road Pressure Zone Conversion, Temecula, CA:** Technical advisor during inspection and testing services for the construction of 8,200 linear feet of 12-inch and 8-inch diameter water distribution pipeline to convert an area of low service pressures (2070 PZ) to the adjacent 2350 PZ to improve water pressure along Camino Sierra Road and De Portola Road.



CLINT ADKINS

LABORATORY DIRECTOR

EDUCATION

- + Long Beach Community College, Program Certificate in Business Management

LICENSES & CERTIFICATIONS

- + American Concrete Institute (ACI) Concrete Field Testing Technician Grade I, Concrete Strength Testing Technician, Concrete Laboratory Testing Technician Level I, and Aggregate Testing Technician Level 1 #01049477
- + Caltrans Testing Methods
- + Caltrans Superpave Testing Methods
- + First Aid CPR/AED
- + Nuclear Gauge Operator Certification

EXPERIENCE & RESPONSIBILITIES

Clint has 12 years of industry experience. He began at SCST as a Laboratory Technician, and is now the Director of Laboratory Services. He is responsible for the supervision of all testing to ensure tests are being performed according to standards set by Caltrans, the American Association of State Highway Transportation Officials (AASHTO), the American Society for Testing and Materials (ASTM), the Cement Concrete Reference Laboratories (CCRL) and other regulatory agencies. He is responsible for maintenance and procurement of any equipment required for certifications and/or approval by the various licensing agencies. Clint will provide oversight of all laboratory testing services to ensure all testing is performed in accordance with all applicable federal, state, and local specifications and regulations.

PROJECT EXPERIENCE

- + **Valley Sanitary District Requa Interceptor, Indio, CA:** Laboratory director during testing and inspection for the construction of a \$12.5 million project, consisting of four miles (22,000 feet) of 10-inch to 36-inch gravity flow sewer pipeline and related utility improvements.
- + **Coachella Valley Water District Avenue 62 Trunk Sewer, Thermal, CA:** Observation and testing of utility trench backfill, aggregate base material, and subgrade during the \$22.9 million design-build project. Work included the construction of 7,500 feet of 42-inch gravity sewer line with new Fiberglass Reinforced Pipe (FRP) using open trench excavation methods. Other work included rehabilitation of 16,100 feet of Cured-in-Place pipe (CIPP) of existing 42-inch VCP pipe, and the rehabilitation of 5,560 feet of CIPP of existing 33-inch VCP pipe. The project enabled the decommissioning of several lift stations, alleviated demands off the mid-valley force main system, and allowed the system to

accommodate increased customers within the service area.

- + **City of Carlsbad Tri-Agencies Water Transmission Pipelines Reach 2 - Phase I, Carlsbad, CA:** Laboratory director during testing and inspection of a \$1.2 million project consisting of construction of 1,860 feet of 18-inch potable water steel pipe and a pressure reducing station.
- + **Carlsbad/Vista Interceptor Sewer, Reaches 11B-15 and the Agua Hedionda Sewer Lift Station, Carlsbad and Vista, CA:** Laboratory director during testing and inspection services for the construction of the \$42.5 million project. Features included a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad's largest lift station, as well as the replacement of an existing wood trestle bridge over the Agua Hedionda Lagoon with a new 140-foot long steel truss bridge to support the pipeline. Other features included the construction of a new parallel force main and gravity sewer to provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. The new sewer bridge was designed to accommodate the occasional maintenance vehicle and is suitable for use by the Coastal Rail Trail project as necessary.
- + **Rancho California Water District Camino Sierra Road Pressure Zone Conversion, Temecula, CA:** Technical advisor during inspection and testing services for the construction of 8,200 linear feet of 12-inch and 8-inch diameter water distribution pipeline to convert an area of low service pressures (2070 PZ) to the adjacent 2350 PZ to improve water pressure along Camino Sierra Road and De Portola Road.



STEPHEN T. WARD GEOTECHNICAL FIELD SERVICES SUPERVISOR

EDUCATION

- + San Diego State University, BS, Environmental Geology and Minor, Geology

LICENSES & CERTIFICATIONS

- + International Code Council (ICC) Soils #8029894
- + American Concrete Institute (ACI) Concrete Field Testing Technician Grade I #01122492
- + OSHA 30-Hour and 10-Hour Construction Safety and Health Courses
- + US Army Corps of Engineers 40-Hour Construction Hazard Awareness Safety Training EM 385-1-1
- + Caltrans Testing Methods
- + Nuclear Gauge Operator Certification

EXPERIENCE & RESPONSIBILITIES

Steve has 26 years of construction industry experience. His duties include providing technical direction for geotechnical personnel, overseeing scheduling and assisting with soils investigations. He is responsible for the oversight of construction projects that include inspection of mass grading, footings, asphalt and concrete placement, and underground utilities installation. He has experience in verification and plotting of removals, keyways and buttresses. Steve's responsibilities during this contract will include monitoring of geotechnical field personnel, monitoring of budgetary progress, and attending project site meetings.

PROJECT EXPERIENCE

- + **City of National City Sewer Line Replacement and Upsizing Project Phase I, National City, CA:** Geotechnical field services supervisor during testing and inspection services for the open trench construction of 21-inch, 12-inch, and 8-inch diameter PVC sewer main. Other features included construction of new street sections, PCC curb and gutter, AC dikes, AC driveways and driveway entrances, manholes, sewer lateral replacements, PCC sidewalks, PCC curb ramps, and signing and striping.
- + **Santa Fe Irrigation District Group 3 PRS Replacement Project and Government Road Pipeline Relocations, Solana Beach and Rancho Santa Fe, CA:** Geotechnical field services supervisor during testing and inspection services for the Group 3 Pressure Reducing Station (PRS) Replacement project, which included removal of three existing PRSs and design and construction of a replacement PRS at each location, as well as installation of 2,845 lineal feet of replacement pipeline. The Government Road Pipeline Relocations project consisted of the design and construction of 1,600 lineal feet of

replacement pipelines beneath residential streets. The pipelines will consist of 16- to 20-inch diameter PVC water lines.

- + **City of Carlsbad Tri-Agencies Water Transmission Pipelines Reach 2 - Phase I, Carlsbad, CA:** Geotechnical field services supervisor during testing and inspection of a \$1.2 million project consisting of construction of 1,860 feet of 18-inch potable water steel pipe and a pressure reducing station.
- + **Carlsbad/Vista Interceptor Sewer, Reaches 11B-15 and the Agua Hedionda Sewer Lift Station, Carlsbad and Vista, CA:** Geotechnical field services supervisor during testing and inspection services for the construction of the \$42.5 million project. Features included a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad's largest lift station, as well as the replacement of an existing wood trestle bridge over the Agua Hedionda Lagoon with a new 140-foot long steel truss bridge to support the pipeline. Other features included the construction of a new parallel force main and gravity sewer to provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities.
- + **Otay Water District 624 Zone PRS, Chula Vista, CA:** Geotechnical field services supervisor during testing and inspection services for the construction of two PRS's feeding the 458 and 485 Pressure Zones from the 624 Pressure Zone to improve fire flow and enhance system reliability.



ANTHONY WIA NT

FIELD TECHNICIAN

LICENSES & CERTIFICATIONS

- + American Concrete Institute (ACI) Concrete Field Testing Technician Grade 1 #01152494
- + Caltrans Testing Methods Nos. 125-AC, 125-AGG, 216, 226, 231, 275
- + OSHA 10-Hour Occupational Safety and Health Training Course
- + Nuclear Gauge Operator Certification

EXPERIENCE & RESPONSIBILITIES

Anthony has 20 years of experience. He is responsible for performing day-to-day testing in the laboratory, including sieve analysis, consolidation, direct shears, R-value, and LA abrasion testing. He runs all tests according to standards set by the Cement Concrete Reference Laboratories (CCRL), American Society for Testing and Materials (ASTM), Caltrans, Division of the State Architect (DSA), and the American Association of State Highway Transportation Officials (AASHTO). Anthony also provides earthwork observation and testing, as well as concrete sampling, testing, and inspection.

PROJECT EXPERIENCE

- + **City of Riverside Public Works Consulting Services, Riverside, CA:** Observation and testing of asphalt concrete, subgrade, and aggregate base materials during various projects, including street maintenance repairs and minor street maintenance projects.
- + **Valley Sanitary District Requa Interceptor, Indio, CA:** Observation and testing of utility trench backfill, grading, subgrade and paving during testing and inspection for the construction of a \$12.5 million project, consisting of four miles (22,000 feet) of 10-inch to 36-inch gravity flow sewer pipeline and related utility improvements.
- + **Coachella Valley Water District Avenue 62 Trunk Sewer, Thermal, CA:** Observation and testing of utility trench backfill, aggregate base material, and subgrade during the \$22.9 million design-build project. Work included the construction of 7,500 feet of 42-inch gravity sewer line with new Fiberglass Reinforced Pipe (FRP) using open trench excavation methods. Other work included rehabilitation of 16,100 feet of Cured-in-Place pipe (CIPP) of existing 42-inch VCP pipe, and the rehabilitation of 5,560 feet of CIPP of existing 33-inch VCP pipe. The project enabled the decommissioning of several lift stations, alleviated demands off the mid-valley force main system, and allowed the system to accommodate increased customers within the service area.
- + **Whittier Narrows Operation Unit, South El Monte, CA:** Observation and testing of grading during construction of a new combined treated potable water storage tank and Chlorine Contact (CCT), and treated water pump station at the existing groundwater treatment plant. The plant supplies disinfected treated water to the San Gabriel Valley Water Company potable water distribution system. The project is under the jurisdiction of the Environmental Protection Agency, Region 9, under Response Action Contract 3 Full Service (RAC 3 FS).
- + **City of Indio Madison Street Canal, Indio, CA:** Observation and testing of utility trench backfill, wall backfill, subgrade, paving, and aggregate base material, as well as concrete quality control during this \$3.2 million project to accommodate the widening of Madison Street. The project included canal diversions, temporary and new bridge structures, sewer mains, jack and bore operations, utility relocations, and box culverts.
- + **City of Indio Highway 111 Improvements, Federal Project No. STPL5275 (027), Indio, CA:** Observation and testing of subgrade, aggregate base material, and asphalt concrete, as well as concrete quality control. The \$11.5 million project funded under Measure X will upgrade two miles of Highway 111. The project will include widening of Highway 111 from two lanes to three "through lanes" in each direction, replacing and reconstruction of all existing pavement with new pavement, replacing six traffic signals, drainage improvements to help alleviate flooding around Highway 111 and Monroe, replacing 60 existing driveways with new ADA compliant driveways that also makes ingress and egress to businesses easier, and replacing all access ramps, along with other ADA access improvements, along sidewalks.
- + **City of Indio Interstate 10 and Jefferson Street Interchange, Indio CA:** Observation and testing of utility trench backfill, wall backfill, subgrade, asphalt concrete, and aggregate base material, as well as batch plant inspection during construction of the \$53 million project. Work consisted of the construction of a new interchange with standard diamond ramps, loop entrance ramps, and a new eight lane Jefferson Street overcrossing over I-10. Acceleration and deceleration lanes are being constructed on the westbound on-ramp and eastbound off-ramp, and ramp metering will be added to the on-ramps. I-10 is being widened to accommodate a future fourth lane. The project will increase capacity and improve traffic operations now and in the future.



TONY STEWART

FIELD TECHNICIAN

LICENSES & CERTIFICATIONS

- + American Concrete Institute (ACI) Concrete Field Testing Technician Grade 1 #01057819
- + Caltrans Testing Methods Nos. 304, 308, 309, 366, 370, 382, 504, 518, 523, 523.2, 524, 533, 539, 540, 556, 557
- + OSHA 10-Hour Construction Safety and Health
- + Nuclear Gauge Operator Certification
- + Courses in Fall Protection; Scaffold User Hazard Awareness Training; Boom Lifts, Scissor Lifts, and Reach Forklifts

EXPERIENCE & RESPONSIBILITIES

Tony has been in the construction industry for 18 years. He has provided soils and materials testing on many of SCST's projects, including numerous transportation projects throughout southern California. Tony is familiar with the standards set by OSHPD and DSA, as well as by the Cement Concrete Reference Laboratories (CCRL), American Society for Testing and Materials (ASTM), Caltrans, and the American Association of State Highway Transportation Officials (AASHTO). He provides observation and testing of all aspects of earthwork, as well as concrete testing and inspection, in accordance with project plans and specifications, and all federal, state, and local regulatory agencies.

PROJECT EXPERIENCE

- + **Rancho California Water District Camino Sierra Road Pressure Zone Conversion, Temecula, CA:** Trench backfill observation and testing during construction of 8,200 linear feet of 12-inch and 8-inch diameter water distribution pipeline to convert an area of low service pressures (2070 PZ) to the adjacent 2350 PZ to improve water pressure along Camino Sierra Road and De Portola Road.
- + **City of National City Sewer Line Replacement and Upsizing Project Phase I, National City, CA:** Observation and testing of trench backfill and subgrade during open trench construction of 21-inch, 12-inch, and 8-inch diameter PVC sewer main. Other features included construction of new street sections, PCC curb and gutter, AC dikes, AC driveways and driveway entrances, manholes, sewer lateral replacements, PCC sidewalks, PCC curb ramps, and signing and striping.
- + **City of Carlsbad Tri-Agencies Water Transmission Pipelines Reach 2 - Phase I, Carlsbad, CA:** Observation and testing of asphalt concrete during testing and inspection of a \$1.2 million project consisting of construction of 1,860 feet of 18-inch potable water steel pipe and a pressure reducing station.
- + **Recycled Water Phase III Pipeline Expansion Segment No. 1A and 7, Carlsbad, CA:** Subgrade observation and testing during construction of 4,151 linear feet of 8 inch, C-900 PVC DR14 pipeline; 6,611 linear feet of 6 inch, C-900 PVC DR14 pipeline; 3,392 linear feet of 4 inch, c-900, PVC, DR14, and 59 recycled water services with all valves and appurtenances. Work took place in collector streets in industrial areas, and required traffic control, utility protection, asphalt overlay, pavement striping, and markers.
- + **Carlsbad/Vista Interceptor Sewer, Reaches 11B-15 and the Agua Hedionda Sewer Lift Station, Carlsbad and Vista, CA:** Observation and testing of asphalt concrete during construction of the \$42.5 million project. Features included a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad's largest lift station, as well as the replacement of an existing wood trestle bridge over the Agua Hedionda Lagoon with a new 140-foot long steel truss bridge to support the pipeline. Other features included the construction of a new parallel force main and gravity sewer to provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. The new sewer bridge was designed to accommodate the occasional maintenance vehicle and is suitable for use by the Coastal Rail Trail project as necessary.
- + **City of San Diego 69th and Mohawk Pump Station, San Diego, CA:** Observation and testing of trench backfill during construction of a new \$15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, ADA pedestrian ramps, and sidewalks.