

**CONSULTANT AGREEMENT BETWEEN THE CITY OF SANTA ANA
AND AESCO, INC. FOR ON-CALL ENGINEERING SERVICES**

THIS AGREEMENT is made and entered into on this 2nd day of May, 2023 by and between AESCO, Inc. (“Consultant”), and the City of Santa Ana, a charter city and municipal corporation organized and existing under the Constitution and laws of the State of California (“City”).

RECITALS

- A. On February 22, 2023 the City issued a Request for Proposal (“RFP”) No. 23-025, by which it desired to retain a consultant having special skill and knowledge in the field of engineering services on an “on-call” basis for the City’s Public Works Agency.
- B. Consultant submitted a responsive proposal that was among those selected by the city. Consultant represents that it is able and willing to provide such services described in the scope of work that was included in the RFP No. 23-025.
- C. In undertaking the performance of this Agreement, Consultant represents that it is knowledgeable in its field and that any services performed by Consultant under this Agreement will be performed in compliance with such standards as may reasonably be expected from a professional consulting firm in the field.

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

1. SCOPE OF SERVICES

During the term of this Agreement, Consultant shall perform all tasks, services, and obligations described in the scope of work section included within RFP No. 23-025, including providing all labor, materials, tools, equipment, and incidental customary work required to fully and adequately complete the services described and set forth in the “**Scope of Services**”, which was included in RFP 23-025 and is attached hereto and fully incorporated herein by this reference as **Exhibit A**.

2. COMPENSATION

- a. City neither warrants nor guarantees any minimum or maximum compensation to Consultant under this Agreement. Consultant shall be paid only for actual services performed under this Agreement at the rates and charges identified in Consultant’s Fee Proposal, which is attached hereto and fully incorporated herein by this reference as **Exhibit B**. Consultant is one of ten (10) separate consultants selected to provide services on an on-call basis under RFP 23-025. The total compensation for services provided by all consultants selected under RFP 23-025 shall not exceed the shared aggregate amount of \$5,000,000.00 during the term of this Agreement, including any extension periods as set forth in Section 3, below.
- b. Payment by City shall be made within forty-five (45) days following receipt of proper

invoice evidencing work performed, subject to City accounting procedures. Payment need not be made for work which fails to meet the standards of performance set forth in the Recitals which may reasonably be expected by City.

3. TERM

This Agreement shall commence on May 2, 2023 and end on May 1, 2026, with the option for the City to grant up to two (2), 1-year extensions, exercisable by a writing by the City Manager and the City Attorney, unless terminated earlier in accordance with Section 15, below.

4. INDEPENDENT CONTRACTOR

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

5. OWNERSHIP OF MATERIALS

This Agreement creates a non-exclusive and perpetual license for City to copy, use, modify, reuse, or sublicense any and all copyrights, designs, and other intellectual property embodied in plans, specifications, studies, drawings, estimates, and other documents or works of authorship fixed in any tangible medium of expression, including but not limited to, physical drawings or data magnetically or otherwise recorded on computer diskettes, which are prepared or caused to be prepared by Consultant under this Agreement ("Documents & Data"). Consultant shall require all subcontractors to agree in writing that City is granted a non-exclusive and perpetual license for any Documents & Data the subcontractor prepares under this Agreement. Consultant represents and warrants that Consultant has the legal right to license any and all Documents & Data. Consultant makes no such representation and warranty in regard to Documents & Data which were provided to Consultant by the City. City shall not be limited in any way in its use of the Documents and Data at any time, provided that any such use not within the purposes intended by this Agreement shall be at City's sole risk.

6. INSURANCE

- a. Consultant shall not commence work for the City until it has provided evidence satisfactory to the City that it has secured all insurance required under this Section. In addition, Consultant shall not allow any subconsultant to commence work on any subcontract until it has secured all insurance required under this Section.
- b. Insurance coverage shall be at least as broad as:

- (i) Commercial General Liability (CGL): Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than \$1,000,000 per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.
 - (ii) Automobile Liability: Insurance Services Office Form Number CA 0001 covering, Code 1 (any auto), or if Consultant has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than \$1,000,000 per accident for bodily injury and property damage.
 - (iii) Workers’ Compensation insurance as required by the State of California, with Statutory Limits, and Employer’s Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease.
 - (iv) Professional Liability (Errors and Omissions) Insurance appropriate to the Consultant’s profession, with limit no less than \$2,000,000 per occurrence or claim, \$2,000,000 aggregate.
 - (v) If the Consultant maintains broader coverage and/or higher limits than the minimums shown above, the City requires and shall be entitled to the broader coverage and/or the higher limits maintained by the Consultant. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the City.
- c. Other Insurance Provisions. The insurance policies are to contain, or be endorsed to contain, the following provisions:
- (i) **Additional Insured Status.** The City, its officers, officials, employees, and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Consultant’s insurance (at least as broad as ISO Form CG 20 10 11 85 or both CG 20 10, CG 20 26, CG 20 33, or CG 20 38; and CG 20 37 forms if later revisions used).
 - (ii) **Primary Coverage.** For any claims related to this contract, the Consultant’s insurance coverage shall be primary insurance primary coverage at least as broad as ISO CG 20 01 04 13 as respects the City, its officers, officials, employees, and volunteers. Any insurance or self-

insurance maintained by the City, its officers, officials, employees, or volunteers shall be excess of the Consultant's insurance and shall not contribute with it.

(iii) **Notice of Cancellation.** Each insurance policy required above shall state that coverage shall not be canceled, except with notice to the City.

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

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

(vi) **Acceptability of Insurers.** Insurance is to be placed with insurers authorized to conduct business in the state with a current A.M. Best's rating of no less than A:VII, unless otherwise acceptable to the City.

(vii) **Claims Made Policies.** If any of the required policies provide coverage on a claims-made basis:

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

(viii) **Verification of Coverage.** Consultant shall furnish the City with original Certificates of Insurance including all required amendatory endorsements (or copies of the applicable policy language effecting coverage required by this clause) and a copy of the Declarations and

Endorsement Page of the CGL policy listing all policy endorsements to City before work begins. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements required by these specifications, at any time.

(ix) **Subcontractors.** Consultant shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein, and Consultant shall ensure that City is an additional insured on insurance required from subcontractors.

(x) **Special Risks or Circumstances.** City reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

7. INDEMNIFICATION

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

8. INTELLECTUAL PROPERTY INDEMNIFICATION

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

9. RECORDS

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

10. CONFIDENTIALITY

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

11. CONFLICT OF INTEREST CLAUSE

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

12. NON-DISCRIMINATION

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

13. EXCLUSIVITY AND AMENDMENT

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

14. ASSIGNMENT

Inasmuch as this Agreement is intended to secure the specialized services of Consultant, Consultant may not assign, transfer, delegate, or subcontract any interest herein without the prior written consent of the City and any such assignment, transfer, delegation or subcontract without the City's prior written consent shall be considered null and void. Nothing in this Agreement shall be construed to limit the City's ability to have any of the services which are the subject to this Agreement performed by City personnel or by other consultants retained by City.

15. TERMINATION

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

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

16. WAIVER

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

17. JURISDICTION - VENUE

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

18. PROFESSIONAL LICENSES

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

19. NOTICE

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

To City:

Jennifer L. Hall
Clerk of the City Council
City of Santa Ana
20 Civic Center Plaza (M-30)
P.O. Box 1988
Santa Ana, CA 92702-1988
Fax: 714- 647-6956

With courtesy copies to:

Nabil Saba
Executive Director, Public Works Agency
City of Santa Ana
20 Civic Center Plaza
P.O. Box 1988
Santa Ana, California 92702

To Consultant:

Adam Chamaa
Vice President
AESCO, Inc.
17782 Georgetown Lane
Huntington Beach, CA 92647
Fax: 714-375-3831

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

20. MISCELLANEOUS PROVISIONS

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

[SIGNATURES ON FOLLOWING PAGE]

SIGNATURE PAGE FOR PROFESSIONAL SERVICES AGREEMENT
BETWEEN CITY OF SANTA ANA AND AESCO, INC.

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

ATTEST:

CITY OF SANTA ANA


Jennifer L. Hall
City Clerk


Kristine Ridge
City Manager

APPROVED AS TO FORM:

SONIA R. CARVALHO
City Attorney

AESCO, INC.:

By: 
Jonathan T. Martinez
Assistant City Attorney


Adam Chamaa
Vice President

RECOMMENDED FOR APPROVAL:

Nabil Saba
Executive Director,
Public Works Agency

EXHIBIT A

SCOPE OF SERVICES

<p style="text-align: center;">Appendix ATTACHMENT 1 SCOPE OF WORK</p>

**CITY OF SANTA ANA
REQUEST FOR PROPOSALS
FOR
PARKS & FACILITY ON-CALL ENGINEERING SERVICES
RFP NO. 23-025**

INTRODUCTION/BACKGROUND

The City of Santa Ana intends to retain Civil Engineering Consultants on an as-needed or "on-call" basis. A Professional Services Agreement will be entered into with several of the qualified firms Civil Engineering consultant(s) to provide professional services for a variety of projects on an on-call basis. On an on-call, as-needed basis, the selected firm(s) may later be asked to provide professional engineering services proposals on specific, project-by-project basis, based on an agreed-upon specific scope of services and fees.

In general, work consists of general engineering design projects. Funding sources for each project may vary for each project/task order assignment shall comply with the funding agency's requirements. The projects may include water and sewer infrastructure design and rehabilitation improvements, storm drain improvements; sidewalks, bike paths, curb and gutter replacement; slurry seal of residential streets; repair and overlay of asphalt concrete and/or PCC streets; signing, striping, neighborhood traffic studies, traffic signal modifications; landscaping and irrigation systems; park and recreational design., grant application writing, and other related projects as required. On occasion, environmental and planning support services may also be requested. The City may need consultant services for mapping and legal description preparation, construction management, staking and inspection. Occasionally the City may also need geotechnical, electrical, mechanical, structural, and other specific infrastructure related services.

The consultant shall be able to assist the City through this contract to provide the necessary services. The consultant shall utilize in-house staff and/or sub-consultants to complete the assignments to meet the City standards. For specialized work for which the prime consultant shall require 11 sub-consultant, the prime consultant shall serve as an administrative liaison between the City and the sub-consultant.

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

All proposals, plans, drawings, specifications, estimates, grant applications, and/or studies will be subject to the final approval and satisfaction of the City of Santa Ana.

Scope of Services

The work consists of general engineering design and cost estimating for civil works projects, City facilities, Parks and other related projects as required.

The work in general, consists of work in the following areas and not limited to:

- Civil Design
- Transportation/Traffic
- Structural
- Geotechnical
- Land Surveying
- Architectural
- Landscape Architectural and Irrigation
- Environmental
- Electrical
- Mechanical
- Instrumentation and Control Systems
- Fire Protection
- Land Surveying
- Financial and Economic Consulting Engineering Consulting Engineering

In addition to general engineering design projects Consultants may be asked to perform the following tasks:

- Hydraulic modeling of the water distribution, storm water, and sewer collection systems
- Evaluations, studies and recommendations related to water wells, reservoirs, water treatment systems, disinfection systems, pressure control systems, and sewage lift stations,
- Electrical and industrial control systems evaluations, studies, drawings, documentation and recommendations
- Mapping Services
- Legal Description Preparations
- Grant Writing- Services
- Environmental/Planning Support
- Construction Management Support
- Pavement Management
- Special Engineering Studies/Reports/Compliance and Investigations
- Regulatory Compliance with Federal and State and Local Agencies
- Financial/cash flow analysis public works programs
- Assessment and District Formation Services
- Sustainable Infrastructure Services
- Right of Way Studies

If there are any exceptions to the core of requested services, proposers shall list said exceptions in their proposal (matrix form).

For specialized work for which the prime consultant shall require a sub-consultant, the prime consultant shall serve as an administrative liaison between the City and the sub-consultant.

The selected consultants must have the expertise, experience, and demonstrated resources available to perform the work described in this RFP.

General Requirements and Project Deliverable

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

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

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

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

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

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

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

The following services/items shall include, but are not be limited to:

1. Research existing records of utility companies and agencies and coordinate the proposed improvements with existing field conditions.
2. Conduct an environmental assessment for each project and prepare all documentation required to comply with California Environmental Quality Act (CEQA), and or National Environmental Protection Act (NEPA). (If required)
3. Provide all field survey and topographic work necessary to complete the design effort. Design level survey and base mapping of the project site shall be prepared in US Customary English units by a California licensed Land Surveyor in accordance with the City guidelines and in Microstation V8i Computer Aided Design and Drafting (CADD) format. The horizontal datum shall be NAD 88 and the vertical datum shall be NAVD 88. All survey field notes shall be on forms provided by the City, shall be neatly completed in pencil, and shall become property of the City upon completion of the project. Informal field investigations including marking of removal areas may be required for some of the sidewalk, curb and gutter, and pavement replacement projects.
4. Complete the design of projects including plans, specifications, and engineer's construction cost estimate. The Consultant shall contact manufacturers and/or contractors to verify the engineer's estimate prior to submitting to the City. Specifications shall be prepared in Microsoft Word and an electronic copy of the final version shall be furnished to the City. The City will provide the specification boiler plate to the Consultant.
5. If requested, all preliminary and bid sets of plans shall be plotted on bond or velum paper using Microstation V8i CADD software program. All drawings shall be completed per the City of Santa Ana CADD Standards and any special provisions thereof. For interim submittals, the City may opt to receive only PDF versions of the plans for reviewing purposes. If so, the Consultant team will provided plans and/or specifications accordingly.
6. All original plan sheets, the title sheet of the specifications, calculations, and reports shall be signed and stamped by the Consultant's licensed professional engineer responsible/in-charge of the project.
7. If a part of the on-call project scope, the Consultant shall provide support services during the bidding and construction phases of the project, including, but not limited to:
 - a. Respond to bidder inquiries during the bidding process, including preparation of any addenda. Following award of the construction contract, the Consultant shall attend the pre-construction meeting.
 - b. Review and approve all submittals and shop plan drawings required supporting the

construction contract. The Consultant shall complete shop drawings reviews within two (2) weeks of receipt. Contract Change Order reviews shall be completed within two (2) working days of receipt.

- c. Respond to written Requests for Information (RFI) to provide clarification or resolve discrepancies in the contract documents. Responses shall be completed within three (3) working days.
 - d. Provide periodic field reviews and bring to the attention of the City of Santa Ana any defects or deficiencies in the work by the construction contractor which the Consultant may observe. The Consultant shall have no authority to issue instruction on behalf of the City of Santa Ana, or to deputize another to do so.
8. If included in the on-call project scope, upon completion of construction, the Consultant shall prepare as-built plans and submit them to the City. The Consultant shall incorporate all changes to the plans electronically with all necessary revision notations. Once plans have been updated, a signed set of as-built plans shall be submitted to the City with an electronic copy (in Microstation V8i CADD and pdf formats) of the final as-built drawings via CD or e-mail.
9. The Consultant shall monitor the project progress, maintain project files, and control the quality of the work performed by in-house staff and/or sub-consultants. Incomplete (not meeting targeted completion) or poor quality work will not be accepted. The Consultant shall revise the documents within a revised schedule set by the City, which may require overtime. No additional compensation necessary for the consultant to complete this work to the satisfaction of the City shall be approved by the City for the required revisions. It is the responsibility of the Consultant to produce a professional-level quality of work product.
10. If included in the on call project scope, attend meetings with the City staff as required.
11. If included in the on-call project scope, the Consultant shall coordinate plan check, design topics, permits and any other issues with the City, other Agencies, and all utility companies as required. At the direction of the City, the Consultant shall be the liaison with affected agencies.
12. If included in the on-call project scope, the Consultant shall be responsible for reviewing and approving addenda and clarifications to plans and specifications.

All information regarding the plans and specifications and or documentation related to the project and approved by the City, will then become property of the City.

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

Construction Plans. Standard Specifications and Estimate (PS&E)

Preliminary Design· Attend project scope meeting with City Staff to review project details. Consultant shall field review, inspect and conduct all necessary surveys to prepare a Preliminary Design Report (PDR) or alternatives, preliminary cost estimate and preferred alternative as requested by the project manager.

A (PS&E) package shall be submitted to review at 30% design for independent City review.

A (PS&E) package shall be submitted to review at 60% design for independent City review.

A (PS&E) package shall be submitted to review at for 100% FINAL independent design review.

The City will review and comment on the PS&E packages with a turnaround goal of (2) weeks. One (1) copy of the documents with comments will be returned to the consultant. Unless, several agencies are involved in the review process multiple documents with comments will be provided to the consultant.

After the final design comments have been incorporated the consultant shall provide the City with final (PS&E) package ready for bid. See Section - General Requirements and Project Deliverables Section.

Project Schedule and Progress:

Progress review meetings shall be held at intervals deemed appropriate by the City. The Consultant shall furnish two copies of all completed work or partially completed update/status since the last progress review meeting. Progress reports shall be submitted monthly in electronic format indicating achievements and project schedule progress.

City Responsibilities:

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

- Furnish scope of work and provide general direction as needed for the assigned project
- All plan check coordination within the City
- Advertise, award, and administer of construction contract
- Electronic files (sample plans & specifications, City of Santa Ana's CADD Standards)
- Electronic files for title sheets and sheet borders
- Facilitate meeting space and coordination and City facilities

Fee Proposal:

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

The fee proposal shall include the firm's standard hourly fee schedule, and/or project fee schedule where applicable and as outlined in this this documents. A list of all positions and hourly rates required to perform the services described herein. A more detailed scope of work will be provided when/if a specific project or Task Order proposal is requested of a consultant.

Other Terms and Conditions:

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

EXHIBIT B

COMPENSATION

Consultant's Fee Proposal



Orange County
17782 Georgetown Lane
Huntington Beach, California 92647
Tele: (714) 375-3830
Fax: (714) 375-3831

San Bernardino County
14163 Arrow Boulevard
Fontana, California 92335
Tele: (909) 284-9200
Fax: (909) 284-9201

March 14, 2023

Mr. Michael Ortiz
City of Santa Ana
Public Works Agency; M-22
20 Civic Center Plaza; Ross Annex
Santa Ana, CA 92701

**Subject: Fee Proposal
Parks and Facility On-Call Engineering Services
RFP No. 23-025
City of Santa Ana
AESCO Proposal No. P8010**

Dear Mr. Ortiz:

AESCO is pleased to submit this Fee Proposal for the above-referenced project. The Scope of Work consists of providing professional engineering services on an as-needed or "on-call" basis for general engineering design projects on an as-needed basis. Our Standard Schedule of Fees is attached.

If you need further assistance regarding this matter, please give feel free to call either myself or Ms. Debra Perez. We look forward to hearing from you.

Very truly yours,
AESCO, Inc.

Adam Chamaa, MSCE, P.E., G.E.
Engineering Manager

Debra Perez
Project Manager

Kay Alabed
President

ATTACHMENTS



AESCO Standard Fees

Professional Staffing

Code	Item	\$/Unit	Unit
P100	Principal Professional Engineer	\$ 220.00	Hour
P101	Senior Geotechnical Engineer	\$ 205.00	Hour
P102	Project Engineer / Manager	\$ 175.00	Hour
P103	Geologist	\$ 185.00	Hour
P104	Quality Control Manager	\$ 175.00	Hour
P105	Senior Staff Engineer	\$ 170.00	Hour
P116	Health and Safety Officer	\$ 205.00	Hour
P115	LA City Deputy Methane Specialist	\$ 150.00	Hour
P107	Laboratory Manager	\$ 140.00	Hour
P108	Laboratory Technician	\$ 115.00	Hour
P109	CADD Operator/Draftsperson	\$ 95.00	Hour
P110	Data Processing, Technical Editing or Reproduction	\$ 95.00	Hour
P111	Expert Witness Testimony	\$ 465.00	Hour
P112	Certified Payroll, per hr.	\$ 170.00	Hour
P113	Senior Staff Environmental Engineer	\$ 170.00	Hour
P114	Senior Environmental Engineer	\$ 205.00	Hour

Field Technician

Code	Item	\$/Unit	Unit
T150	Special Inspector (Reinforced Concrete, and Masonry)	\$ 125.00	Hour
T151	Special Inspector (Structural Steel, Drilled-In-Anchors	\$ 125.00	Hour
T152	Special Inspector for Welding	\$ 125.00	Hour
T153	DSA Class I Inspector	\$ 145.00	Hour
T154	DSA Class II Inspector	\$ 135.00	Hour
T155	Special Inspector for Fireproofing	\$ 125.00	Hour
T156	Special Inspector Load Tests or Torque/Bolt)	\$ 125.00	Hour
T157	Special Inspector Rebar Sample	\$ 125.00	Hour
T158	Special Inspector Pachometer	\$ 125.00	Hour
T159	Senior Asphalt Placement Technician	\$ 125.00	Hour
T160	Asphalt Placement Technician	\$ 125.00	Hour
T161	Asphalt/Concrete Plant Technician	\$ 125.00	Hour
T162	ACI/Caltrans Technician	\$ 125.00	Hour
T163	Senior Soils Technician	\$ 125.00	Hour
T164	Senior Grading Inspector	\$ 130.00	Hour
T165	Staff Grading Inspector	\$ 125.00	Hour
T166	Soils Technician	\$ 125.00	Hour
T167	Pile Driving Inspector	\$ 140.00	Hour
T168	AWS Certified Welding Inspector	\$ 125.00	Hour
T169	NACE Coating Inspector	\$ 150.00	Hour
T170	Field Coring Technician	\$ 125.00	Hour
T171	Nondestructive Examination Technician, UT, MT, LP	\$ 130.00	Hour
T172	Structural Steel Fabrication Inspector (AWS)	\$ 130.00	Hour
T177	Senior Environmental Technician	\$ 140.00	Hour
T178	Environmental Technician	\$ 140.00	Hour
T179	Building Inspector	\$ 145.00	Hour

Fabrication Shop Inspections

Code	Item	\$/Unit	Unit
T173	Structural Steel Inspector (ICC/CBO)	125	Hour
T174	Structural Steel Inspector (AWS)	125	Hour
T175	Batch Plant Quality Control Technician/Inspector	125	Hour
T176	Reinforced Concrete, Prestressed Inspector	125	Hour

Field Inspector/Technician Hours

No Work Performed (Work Cancelled)



All field services charge

Regular Work Hours

First 8 hours, Monday through Friday, between 5:00 a.m. to 5:00 p.m.
Direct Project expenses outside services will be charged at Cost + 15%.

Time and One-Half

Any increment past first 8 hours through 12 hours, Monday through Friday
First 12 hours on Saturday
Shift between 3:00 a.m. and 5:00 a.m.

Double Time

Any hours past 12 hours Monday through Saturday, all day Sunday and Federal Holidays

Field Analysis

Code	Item	\$/Unit	Unit
G200	Soil Boring with Hollow Stem Auger Drilling Portal to Portal	\$ 415.00	Hour
G201	Backfill Boreholes with Bentonite	\$ 26.00	Foot
G202	Backfill Boreholes with Grout	\$ 37.00	Foot
G203	Drumming and Disposal of Clean Cuttings	\$ 410.00	Drum
G204	Fire Water Buffalo	\$ 578.00	Day
G205	Support Truck	\$ 158.00	Day
G206	Water Truck	\$ 473.00	Day
G207	Mobilization and Demobilization for Rock coring	\$ 1,208.00	Each
G208	Rock Coring	\$ 478.00	Hour
G209	Decontamination of Vehicle and Equipment (Up to 100 miles)	\$ 315.00	Each
G210	Field Resistivity, up to 3 arrays, maximum distance of 40 ft.	\$ 1,890.00	Each
G211	Environmental Soil Boring with Hollow Stem Auger Portal to Portal	\$ 446.00	Hour
G212	Environmental Soil Boring with Direct Push Portal to Portal	\$ 399.00	Hour
G213	Environmental Groundwater Sampling with Grundfos, Portal to Portal	\$ 289.00	Hour
G214	Environmental Analysis of soil for waste classification		Quote/Sample
G215	Environmental Analysis of liquid for waste classification		Quote/Sample
G216	Ground Resistance Tester (Four Point Method), plus travel	\$ 1,700.00	Each
G217	Potholing, two-man crew	\$ 600.00	Hour

Mix Design Review

Code	Item	\$/Unit	Unit
D250	Review of Concrete Mix Design	\$ 168.00	Each
D251	Review of Grout Mix Design	\$ 168.00	Each
D252	Review of Mortar Mix Design	\$ 168.00	Each
D253	Review of Asphalt Mix Design	\$ 210.00	Each

Sample Pick-Up/Hold

Code	Item	\$/Unit	Unit
	All hold samples are charged at the same rate as the testing rate		
U303	Technician for Specimen pick up, minimum 2 hours	\$ 120.00	Hour
U304	Vehicle (Up to 100 miles)	\$ 75.00	Trip

Field Equipment Charges

Code	Item	\$/Unit	Unit
E350	Brass Mold	\$ 21.00	Each
E351	Concrete Air Meter	\$ 53.00	Day
E352	Concrete Unit Weight (Scale, Bucket, Rod and Mallet)	\$ 32.00	Day
E353	Field Vehicle Usage (Up to 100 miles)	\$ 74.00	Trip
E354	Concrete/Asphalt Coring Equipment rental (min 4 hrs and 8 hrs after)	\$ 200.00	Hour
E355	Fireproofing Adhesion/Cohesion	\$ 21.00	Test
E356	Hand Auger Equipment	\$ 131.00	Day
E357	Level D Personal Protective Equipment (PPE), per person	\$ 42.00	Day



Schedule of Fees

E358	Liquid Penetrating Consumables	\$	32.00	Day
E359	Magnetic Particle Equipment and Consumables	\$	42.00	Day
E360	Ultrasonic Equipment and Consumables	\$	68.00	Day
E361	Nuclear Density Gauge Usage	\$	19.00	Hour
E362	Compaction Test, per location	\$	21.00	Test
E363	Portable Concrete Laboratory-not including Technicians	\$	-	Quote/Day
E364	Pachometer (Rebar Locator)	\$	58.00	Day
E365	Environmental PID Usage	\$	200.00	Day
E366	Pull Test Equipment	\$	74.00	Day
E367	Sand Cone Test Kit (Scale, Burner, Sand Cone Apparatus)	\$	179.00	Day
E368	Schmidt Hammer	\$	53.00	Day
E369	Torque Wrench, Small	\$	21.00	Day
E370	Torque Wrench, Large	\$	37.00	Day
E371	Torque Multiplier (Skidmore)	\$	95.00	Day
E372	Miscellaneous Equipment Charge	\$	-	Quote Each
E373	Vapor Emission Kit	\$	58.00	Each
E374	Field Resistivity Meter	\$	240.00	Day
E375	Water Level Meter	\$	80.00	Day
E376	Environmental pH/Turbidity/Conductivity/Temp Meter	\$	110.00	Day
E377	Environmental FID Usage	\$	110.00	Day
E378	Environmental groundwater sampling pump	\$	215.00	Day
E379	XRF Lead Analyzer	\$	131.00	Day
E380	Relative Humidity	\$	74.00	Day
E381	GPR (Ground Penetrating Radar), for buried rebar in concrete	\$	90.00	Hour
E382	Load Cell for tension - Maximum 2,000 lb	\$	55.00	Hour

Schedule of Fees for Laboratory Services

Concrete Tests

Code	Item	\$/Unit	Unit
C400	6" x 12" Cylinder: Compression Strength (ASTM C39)	\$ 37.00	Test
C401	6" x 6" x 18" Flexural Beams Not Exceeding Referenced Size (ASTM C78, C293, or CTM 523)	\$ 84.00	Test
C402	Cylinders: Splitting Tensile Strength (ASTM C496)	\$ 84.00	Test
C403	Core Compression including Trimming (ASTM C39)	\$ 53.00	Test
C404	Coring of Test Panels in Lab	\$ 26.00	Each
C405	Diamond Sawing of Cores or Cylinders (ASTM C642)	\$ 26.00	Test
C406	Density, Absorption, and Voids in Hardened Concrete (ASTM C642)	\$ 315.00	Test
C407	Modulus of Elasticity Static Test (ASTM C469)	\$ 131.00	Test
C408	Unit Weight Including Lightweight Concrete	\$ 68.00	Test
C409	Drying Shrinkage Up to 28 Days: Three 3" x 3" or 4" x 4" Bars, Five Readings up to 28 Dry Days (ASTM C157)	\$ 394.00	Test
C410	Additional Reading	\$ 47.00	Set of 3 Bars
C411	Storage Over Ninety (90) Days	\$ 37.00	Set of 3 Bars/Month
C435	Coefficient of Thermal Expansion of Concrete (CRD 39, AASHTO T336)	\$ 840.00	Test
C436	Compression Test (ASTM C495 and C472)	\$ 47.00	Test
C437	Air Dry Density (ASTM C472)	\$ 37.00	Test
C438	Oven Dry Density (ASTM C495)	\$ 63.00	Test
C439	Sample Trimming in the lab, up 6" diameter	\$ 21.00	Test

Concrete Block, ASTM C140

Code	Item	\$/Unit	Unit
C412	Compression (3 Required Per ASTM)	\$ 63.00	Each
C413	Absorption/Moisture Content/Oven Dry Density (3 Required per ASTM)	\$ 95.00	Each
C414	Linear/Volumetric Shrinkage (ASTM C426)	\$ 105.00	Test
C415	Web and Face Shell Measurements	\$ 47.00	Test
C416	Tension Test	\$ 179.00	Test
C417	Core Compression	\$ 58.00	Test
C418	Shear Test of Masonry Cores: 2 Faces	\$ 95.00	Test
C419	Efflorescence Test (3 Required), each	\$ 58.00	Test



Laboratory Trial Batch: Cement, Concrete, Grout and Mortar

Code	Item	\$/Unit	Unit
L450	All trial batch for cement, concrete, grout, mortar, etc		Quote Each

Brick Masonry Tests

Code	Item	\$/Unit	Unit
M500	Modulus of Rupture: Flexural (5 Required Per ASTM), each	\$ 58.00	Test
M501	Compression Strength (3 Required Per ASTM), each	\$ 53.00	Test
M502	Absorption: 5 Hour or 24 Hour (5 Required), each	\$ 53.00	Test
M503	Absorption (Boil): 1, 2, or 5 Hours (5 Required), each	\$ 84.00	Test
M504	Initial Rate of Absorption (5 Required), each	\$ 42.00	Test
M505	Efflorescence (5 Required), each	\$ 89.00	Test
M506	Core: Compression, each	\$ 74.00	Test
M507	Shear Test on Brick Core: 2 Faces, each	\$ 95.00	Test

Masonry Prisms

Code	Item	\$/Unit	Unit
M508	Compression Test: Composite Masonry Prisms Up To 8" x 16"	210	Test
M509	Compression Test: Composite Masonry Prisms Larger Than 8" x 16"	305	Test
M510	Masonry: Cutting of Cubes or Prisms	74	Test

Mortar and Grout

Code	Item	\$/Unit	Unit
M511	Compression: 2" x 4" Mortar Cylinders	47	Test
M512	Compression: 3" x 3" x 6" Grout Prisms, Includes Trimming	63	Test
M513	Compression: 2" Cubes (ASTM C109)	63	Test
M514	Compression: Cores (ASTM C42)	63	Test
M515	Mortar Expansion (ASTM C806)	315	Test

Fireproofing Tests

Code	Item	\$/Unit	Unit
F550	Oven Dry Density	79	Test
F551	Adhesion/Cohesions Testing, per hour, 4 hour minimum	126	Test

Gunit and Shotcrete Tests

Code	Item	\$/Unit	Unit
C420	Core Compression Including Trimming (ASTM C42)	63	Test
C421	Compression 6" x 12" Cylinders	37	Test
C422	Compression: Cubes	42	Test

Soils and Aggregate Tests

Code	Item	\$/Unit	Unit
S600	Atterberg Limits/Plasticity Index (ASTM D4318)	\$ 147.00	Test
S601	Chloride and Sulfate Content (CTM 417, CTM 422)	\$ 152.00	Test
S602	Consolidation, Full Cycle (ASTM 2435, CTM 219)	\$ 289.00	Test
S603	Cleaness Value: 1" x #4 (CTM 227)	\$ 194.00	Test
S604	Cleaness Value: 2.5" x 1.5" or 1.5" x .75" (CTM 227)	\$ 310.00	Test
S605	Corrosivity Series: Sulfate, Cl, pH (CTM 643 and 417)	\$ 210.00	Test
S606	Lab Resistivity	\$ 131.00	Test
S607	Direct Shear Test (ASTM D3080)	\$ 268.00	Test
S608	Direct Shear Test, per point	\$ 116.00	Test
S609	Direct Shear Test Sample Remolding (ASTM D3080)	\$ 47.00	Test
S610	Durability Index Fine Aggregate	\$ 168.00	Test
S611	Expansion Index (ASTM D4829, UBC 18-2)	\$ 163.00	Test
S612	Durability Index: Coarse Aggregate	\$ 168.00	Test
S613	Maximum Density: Methods A/B/C (ASTM D1557 or D698, CTM 216)	\$ 194.00	Test
S614	Maximum Density: Check Point abrasion (ASTM D1557)	\$ 79.00	Test
S615	Maximum Density: AASHTO C (Modified) (AASHTO T-180)	\$ 210.00	Test



Schedule of Fees

S616	Moisture Density Rock Correction	\$ 168.00	Test
S617	Moisture Content (ASTM D2216, CTM 226)	\$ 26.00	Test
S618	Density: Ring Sample (ASTM D2937)	\$ 32.00	Test
S619	Density: Shelby Tube Sample (ASTM D2937)	\$ 58.00	Test
S620	Organic Impurities (ASTM C40)	\$ 100.00	Test
S621	Failing Head Permeability (ASTM D2434)	\$ 263.00	Test
S622	R-Value: Soil (ASTM 2844)	\$ 373.00	Test
S623	R-Value: Aggregate Base (ASTM D2844)	\$ 373.00	Test
S624	Sand Equivalent (ASTM D2419, CTM 217)	\$ 137.00	Test
S625	Soil Classification (ASTM D2487)	\$ 37.00	Test
S626	Sieve #200 Wash Only (ASTM D1140)	\$ 100.00	Test
S627	Sieve with Hydrometer: Sand to Clay (ASTM D422)	\$ 305.00	Test
S628	Sieve Analysis including Wash (ASTM C136)	\$ 179.00	Test
S629	Sieve Analysis Without Wash	\$ 126.00	Test
S630	Specific Gravity and Absorption: Coarse (ASTM C127, CTM 202)	\$ 100.00	Test
S631	Specific Gravity and Absorption: Fine (ASTM C128, CTM 207)	\$ 168.00	Test
S632	Swell/Settlement Potential: One Dimensional (ASTM D4546)	\$ 173.00	Test
S633	Unit Weight Coarse Aggregate	\$ 84.00	Test
S634	Unit Weight Fine Aggregate	\$ 84.00	Test
S635	Voids in Aggregate (ASTM C29)	\$ 95.00	Test
S636	Unconfined Compression (ASTM D2166, CTM 221)	\$ 105.00	Test
S637	LA Rattler	\$ 205.00	Test
S638	pH of soil	\$ 26.00	Test
S639	Pocket Penetration Test	\$ 11.00	Test

Asphalt Concrete Tests

Code	Item	\$/Unit	Unit
A650	Asphalt Core Density	\$ 63.00	Test
A651	Extraction % AC by Ignition Oven (CTM 382)	\$ 184.00	Test
A652	Gradation on Extracted Asph (ASTM D6507 and D5444, CTM 202, and CTM 382)	\$ 105.00	Test
A653	Moisture Content (CTM 370)	\$ 79.00	Test
A654	Maximum Theoretical Specific Gravity (RICE) (ASTM D2041, CTM 309)	\$ 168.00	Test
A655	Specific Gravity and Absorption: Coarse (ASTM C127, CTM 206)	\$ 95.00	Test
A656	Specific Gravity and Absorption: Fine (ASTM C128, CTM 207)	\$ 168.00	Test
A657	Sieve Analysis (ASTM D5444 and C136)	\$ 100.00	Test
A658	Sieve Analysis with Wash (ASTM D5444)	\$ 147.00	Test
A659	Sand Equivalent (ASTM D2419)	\$ 142.00	Test
A660	5 pt LTMD Bulk Specific Gravity (CTM 308, CTM 375)	\$ 299.00	Test
A661	Flat and Elongated Particles (ASTM D4791)	\$ 221.00	Test
A662	Fine Aggregate Angularity (AASHTO T304 A)	\$ 205.00	Test
A663	Maximum Density HVEEM (ASTM D1560)	\$ 221.00	Test
A664	Maximum Density Marshall (ASTM D1559 and D561)	\$ 221.00	Test
A665	Mix Stability (CTM 304)	\$ 221.00	Test
A668	Wet track Abrasion Loss (ASTM D3910), each	\$ 184.00	Test
A669	Extraction % of Emulsion (ASTM D6307)	\$ 163.00	Test
A670	Slurry seal field consistency test (ASTM D3910)	\$ 89.00	Test

Reinforcing Steel

Code	Item	\$/Unit	Unit
R700	Bend Test: #11 or Smaller	\$ 68.00	Test
R701	Bend Test: Larger Than # 11	\$ 100.00	Test
R702	Tensile Test: # 11 or Smaller	\$ 89.00	Test
R703	Tensile Test: # 14	\$ 121.00	Test
R704	Tensile Test: # 18	\$ 300.00	Test
R705	Slippage Test In Addition to Tensile Test (Per Caltrans 52-1.08C)	\$ 350.00	Test
R706	Tensile Test: Mechanical Splice # 11 and Smaller	\$ 130.00	Test
R707	Tensile Test: Mechanical Splice # 14	\$ 180.00	Test
R708	Tensile Test: Mechanical Splice # 18	\$ 350.00	Test
R709	Tensile Test: Welded # 11 and Smaller	\$ 90.00	Test
R710	Tensile Test: Welded # 14	\$ 130.00	Test
R711	Tensile Test: Welded # 18	\$ 300.00	Test



R712	Sample Straightening for Bend or Tensile Test (if required)	\$ 65.00	Test
R713	Testing Multi-Wire Steel Prestressing Strand	\$ 350.00	Test
R714	Tensile Test: T-Head #11 and Smaller	\$ 160.00	Test
R715	Tensile Test: T-Head #14	\$ 210.00	Test
R716	Tensile Test: T-Head #18	\$ 300.00	Test
R717	Tensile Test: Welded Hoops # 11 and Smaller	\$ 130.00	Test
R718	Tensile Test: Welded Hoops # 14	\$ 180.00	Test

Metal Testing

Code	Item	\$/Unit	Unit
R714	Hardness Test (Rockwell) and Brinnel (ASTM E18)	\$ 79.00	Test
R715	Hardness Test of Nuts	\$ 89.00	Test
R716	Hardness Test of Bolts	\$ 105.00	Test
R717	Hardness Test of Washers	\$ 89.00	Test
R718	ASTM F606 Bolt Axial, Wedge Tensile and Proof load	\$ 125.00	Test

Concrete Coring Services

Code	Item	\$/Unit	Unit
C423	Equipment Concrete (4 and 8 hour minimum)	\$ 210.00	Hour
	Individual Core Prices (all prices are for a four core minimum job):	\$ -	
C424	Slab on Grade Coring for 2", 3" and 4" Diameter (first 6" depth) each	\$ 74.00	Test
C425	Slab on Grade Coring for 6" and 8" Diameter (first 6" depth) each	\$ 79.00	Test
C426	Slab on Grade Concrete Core (price per inch after 6" depth)	\$ 11.00	Test
C427	Wall Cores 2", 3" and 4" (first 6" in depth) each	\$ 89.00	Test
C428	Wall Concrete Core (price per inch after 6" in depth), per inch (Wall core prices based on Contractor supplying access to area to be cored)	\$ 11.00	Inch
	Miscellaneous Concrete Coring Prices:	\$ -	
C429	Patching Slab on Grade Cored Holes with 2500 psi Concrete Patch, each	\$ 21.00	Test
C430	Thickness Determination per ASTM C42, each	\$ 21.00	Test
C431	Compression Strength Determination	\$ 68.00	Test

Asphalt Concrete Coring Services

Code	Item	\$/Unit	Unit
	Alternate Individual Core Prices (all prices are for a four core minimum job):		
A661	Asphaltic Concrete Cores 2", 3" and 4" Diameter (First 6" in depth), each	\$ 74.00	Test
A662	Asphaltic Concrete Cores 6" and 8" Diameter (First 6" in depth), each	\$ 74.00	Test
A663	Asphaltic Concrete Cores price per inch after 6" in depth, each	\$ 11.00	Test
	Miscellaneous Asphaltic Coring Prices:		
A664	Patching of Core Drilled Holes Using Cold Patch Material, each	\$ 32.00	Test
A665	Thickness Determination per ASTM C42, each	\$ 37.00	Test
A666	Specific Gravity for Determination of Percent Compaction per ASTM D 2726, each	\$ 47.00	Test
A667	Specific Gravity for Determination of Percent Compaction by Paraffin, each	\$ 68.00	Test

Environmental Tests

Code	Item	\$/Unit	Unit
N800	Asbestos Polarized Light Microscopy (PLM) 3-Day Turnaround, each	\$ 21.00	Test
N801	Asbestos Polarized Light Microscopy (PLM) 24-Hour Turnaround, each	\$ 42.00	Test
N802	Asbestos Polarized Light Microscopy (PLM) 8-Hour Turnaround, each	\$ 74.00	Test