

**CITY OF COSTA MESA  
PROFESSIONAL SERVICES AGREEMENT  
WITH  
AESCO, INC.**

THIS PROFESSIONAL SERVICES AGREEMENT ("Agreement") is made and entered into this 24<sup>th</sup> day of July, 2017 ("Effective Date"), by and between the CITY OF COSTA MESA, a municipal corporation ("City"), and AESCO, Inc., a California Corporation ("Consultant").

**WITNESSETH:**

A. WHEREAS, City proposes to utilize the services of Consultant as an independent contractor to provide on-call materials testing for public works projects, as more fully described herein; and

B. WHEREAS, Consultant represents that it has that degree of specialized expertise contemplated within California Government Code section 37103, and holds all necessary licenses to practice and perform the services herein contemplated; and

C. WHEREAS, City and Consultant desire to contract for the specific services described in Exhibit "A" (the "Project") and desire to set forth their rights, duties and liabilities in connection with the services to be performed; and

D. WHEREAS, no official or employee of City has a financial interest, within the provisions of sections 1090-1092 of the California Government Code, in the subject matter of this Agreement.

NOW, THEREFORE, for and in consideration of the mutual covenants and conditions contained herein, the parties hereby agree as follows:

**1.0. SERVICES PROVIDED BY CONSULTANT**

1.1. Scope of Services. Consultant shall provide the professional services described in the City's Request for Proposals ("RFP"), attached hereto as Exhibit "A," and Consultant's Response to City's RFP ("Consultant's Proposal"), attached hereto as Exhibit "B," both incorporated herein by this reference.

1.2. Professional Practices. All professional services to be provided by Consultant pursuant to this Agreement shall be provided by personnel experienced in their respective fields and in a manner consistent with the standards of care, diligence and skill ordinarily exercised by professional consultants in similar fields and circumstances in accordance with sound professional practices. Consultant also warrants that it is familiar with all laws that may affect its performance of this Agreement and shall advise City of any changes in any laws that may affect Consultant's performance of this Agreement.

1.3. Performance to Satisfaction of City. Consultant agrees to perform all the work to the complete satisfaction of the City and within the hereinafter specified. Evaluations of the work will be done by the City Manager or his or her designee. If the quality of work is not satisfactory, City in its discretion has the right to:

- (a) Meet with Consultant to review the quality of the work and resolve the matters of concern;
- (b) Require Consultant to repeat the work at no additional fee until it is satisfactory; and/or
- (c) Terminate the Agreement as hereinafter set forth.

1.4. Warranty. Consultant warrants that it shall perform the services required by this Agreement in compliance with all applicable Federal and California employment laws, including, but not limited to, those laws related to minimum hours and wages; occupational health and safety; fair employment and employment practices; workers' compensation insurance and safety in employment; and all other Federal, State and local laws and ordinances applicable to the services required under this Agreement. Consultant shall indemnify and hold harmless City from and against all claims, demands, payments, suits, actions, proceedings, and judgments of every nature and description including attorneys' fees and costs, presented, brought, or recovered against City for, or on account of any liability under any of the above-mentioned laws, which may be incurred by reason of Consultant's performance under this Agreement.

1.5. Non-Discrimination. In performing this Agreement, Consultant shall not engage in, nor permit its agents to engage in, discrimination in employment of persons because of their race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military or veteran status, except as permitted pursuant to section 12940 of the Government Code.

1.6. Non-Exclusive Agreement. Consultant acknowledges that City may enter into agreements with other consultants for services similar to the services that are subject to this Agreement or may have its own employees perform services similar to those services contemplated by this Agreement.

1.7. Delegation and Assignment. This is a personal service contract, and the duties set forth herein shall not be delegated or assigned to any person or entity without the prior written consent of City. Consultant may engage a subcontractor(s) as permitted by law and may employ other personnel to perform services contemplated by this Agreement at Consultant's sole cost and expense.

1.8. Confidentiality. Employees of Consultant in the course of their duties may have access to financial, accounting, statistical, and personnel data of private individuals and employees of City. Consultant covenants that all data, documents, discussion, or other information developed or received by Consultant or provided for performance of this Agreement are deemed confidential and shall not be disclosed by Consultant without written authorization by City. City shall grant such authorization if disclosure is required by law. All City data shall be returned to City upon the termination of this Agreement. Consultant's covenant under this Section shall survive the termination of this Agreement.

## **2.0. COMPENSATION AND BILLING**

2.1. Compensation. Consultant shall be paid in accordance with the fee schedule set forth in Exhibit "C," attached hereto and made a part of this Agreement by this reference (the

"Fee Schedule"). Consultant's total compensation shall not exceed Forty Three Thousand Five Hundred Dollars (\$43,500.00).

2.2. Additional Services. Consultant shall not receive compensation for any services provided outside the scope of services specified in the Consultant's Proposal unless the City or the Project Manager for this Project, prior to Consultant performing the additional services, approves such additional services in writing. It is specifically understood that oral requests and/or approvals of such additional services or additional compensation shall be barred and are unenforceable.

2.3. Method of Billing. Consultant may submit invoices to the City for approval on a progress basis, but no more often than two times a month. Said invoice shall be based on the total of all Consultant's services which have been completed to City's sole satisfaction. City shall pay Consultant's invoice within forty-five (45) days from the date City receives said invoice. Each invoice shall describe in detail, the services performed, the date of performance, and the associated time for completion. Any additional services approved and performed pursuant to this Agreement shall be designated as "Additional Services" and shall identify the number of the authorized change order, where applicable, on all invoices.

2.4. Records and Audits. Records of Consultant's services relating to this Agreement shall be maintained in accordance with generally recognized accounting principles and shall be made available to City or its Project Manager for inspection and/or audit at mutually convenient times from the Effective Date until three (3) years after termination of this Agreement.

### **3.0. TIME OF PERFORMANCE**

3.1. Commencement and Completion of Work. The professional services to be performed pursuant to this Agreement shall commence within five (5) days from the Effective Date of this Agreement.

3.2. Excusable Delays. Neither party shall be responsible for delays or lack of performance resulting from acts beyond the reasonable control of the party or parties. Such acts shall include, but not be limited to, acts of God, fire, strikes, material shortages, compliance with laws or regulations, riots, acts of war, or any other conditions beyond the reasonable control of a party.

### **4.0. TERM AND TERMINATION**

4.1. Term. This Agreement shall commence on the Effective Date and continue for a period of twenty four (24) months, ending on July 23, 2019, unless previously terminated as provided herein or as otherwise agreed to in writing by the parties. This Agreement may be extended by one (1) additional two (2) year period upon mutual written agreement of both parties.

4.2. Notice of Termination. The City reserves and has the right and privilege of canceling, suspending or abandoning the execution of all or any part of the work contemplated by this Agreement, with or without cause, at any time, by providing written notice to Consultant. The termination of this Agreement shall be deemed effective upon receipt of the notice of termination. In the event of such termination, Consultant shall immediately stop rendering services under this Agreement unless directed otherwise by the City.

4.3. Compensation. In the event of termination, City shall pay Consultant for reasonable costs incurred and professional services satisfactorily performed up to and including the date of City's written notice of termination. Compensation for work in progress shall be prorated based on the percentage of work completed as of the effective date of termination in accordance with the fees set forth herein. In ascertaining the professional services actually rendered hereunder up to the effective date of termination of this Agreement, consideration shall be given to both completed work and work in progress, to complete and incomplete drawings, and to other documents pertaining to the services contemplated herein whether delivered to the City or in the possession of the Consultant.

4.4. Documents. In the event of termination of this Agreement, all documents prepared by Consultant in its performance of this Agreement including, but not limited to, finished or unfinished design, development and construction documents, data studies, drawings, maps and reports, shall be delivered to the City within ten (10) days of delivery of termination notice to Consultant, at no cost to City. Any use of uncompleted documents without specific written authorization from Consultant shall be at City's sole risk and without liability or legal expense to Consultant.

## **5.0. INSURANCE**

5.1. Minimum Scope and Limits of Insurance. Consultant shall obtain, maintain, and keep in full force and effect during the life of this Agreement all of the following minimum scope of insurance coverages with an insurance company admitted to do business in California, rated "A," Class X, or better in the most recent Best's Key Insurance Rating Guide, and approved by City:

- (a) Commercial general liability, including premises-operations, products/completed operations, broad form property damage, blanket contractual liability, independent contractors, personal injury or bodily injury with a policy limit of not less than One Million Dollars (\$1,000,000.00), combined single limits, per occurrence. If such insurance contains a general aggregate limit, it shall apply separately to this Agreement or shall be twice the required occurrence limit.
- (b) Business automobile liability for owned vehicles, hired, and non-owned vehicles, with a policy limit of not less than One Million Dollars (\$1,000,000.00), combined single limits, per occurrence for bodily injury and property damage.
- (c) Workers' compensation insurance as required by the State of California. Consultant agrees to waive, and to obtain endorsements from its workers' compensation insurer waiving subrogation rights under its workers' compensation insurance policy against the City, its officers, agents, employees, and volunteers arising from work performed by Consultant for the City and to require each of its subcontractors, if any, to do likewise under their workers' compensation insurance policies.
- (d) Professional errors and omissions ("E&O") liability insurance with policy limits of not less than One Million Dollars (\$1,000,000.00), combined single limits, per occurrence and aggregate. Architects' and engineers' coverage shall be endorsed to include contractual liability. If the policy is

written as a "claims made" policy, the retro date shall be prior to the start of the contract work. Consultant shall obtain and maintain, said E&O liability insurance during the life of this Agreement and for three years after completion of the work hereunder.

5.2. Endorsements. The commercial general liability insurance policy and business automobile liability policy shall contain or be endorsed to contain the following provisions:

- (a) Additional insureds: "The City of Costa Mesa and its elected and appointed boards, officers, officials, agents, employees, and volunteers are additional insureds with respect to: liability arising out of activities performed by or on behalf of the Consultant pursuant to its contract with the City; products and completed operations of the Consultant; premises owned, occupied or used by the Consultant; automobiles owned, leased, hired, or borrowed by the Consultant."
- (b) Notice: "Said policy shall not terminate, be suspended, or voided, nor shall it be cancelled, nor the coverage or limits reduced, until thirty (30) days after written notice is given to City."
- (c) Other insurance: "The Consultant's insurance coverage shall be primary insurance as respects the City of Costa Mesa, its officers, officials, agents, employees, and volunteers. Any other insurance maintained by the City of Costa Mesa shall be excess and not contributing with the insurance provided by this policy."
- (d) Any failure to comply with the reporting provisions of the policies shall not affect coverage provided to the City of Costa Mesa, its officers, officials, agents, employees, and volunteers.
- (e) The Consultant's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

5.3. Deductible or Self Insured Retention. If any of such policies provide for a deductible or self-insured retention to provide such coverage, the amount of such deductible or self-insured retention shall be approved in advance by City. No policy of insurance issued as to which the City is an additional insured shall contain a provision which requires that no insured except the named insured can satisfy any such deductible or self-insured retention.

5.4. Certificates of Insurance. Consultant shall provide to City certificates of insurance showing the insurance coverages and required endorsements described above, in a form and content approved by City, prior to performing any services under this Agreement. The certificates of insurance shall be attached hereto as Exhibit "D" and incorporated herein by this reference.

5.5. Non-Limiting. Nothing in this Section shall be construed as limiting in any way, the indemnification provision contained in this Agreement, or the extent to which Consultant may be held responsible for payments of damages to persons or property.

**6.0. GENERAL PROVISIONS**

6.1. Entire Agreement. This Agreement constitutes the entire agreement between the parties with respect to any matter referenced herein and supersedes any and all other prior writings and oral negotiations. This Agreement may be modified only in writing, and signed by the parties in interest at the time of such modification. The terms of this Agreement shall prevail over any inconsistent provision in any other contract document appurtenant hereto, including exhibits to this Agreement.

6.2. Representatives. The City Manager or his or her designee shall be the representative of City for purposes of this Agreement and may issue all consents, approvals, directives and agreements on behalf of the City, called for by this Agreement, except as otherwise expressly provided in this Agreement.

Consultant shall designate a representative for purposes of this Agreement who shall be authorized to issue all consents, approvals, directives and agreements on behalf of Consultant called for by this Agreement, except as otherwise expressly provided in this Agreement.

6.3. Project Managers. City shall designate a Project Manager to work directly with Consultant in the performance of this Agreement.

Consultant shall designate a Project Manager who shall represent it and be its agent in all consultations with City during the term of this Agreement. Consultant or its Project Manager shall attend and assist in all coordination meetings called by City.

6.4. Notices. Any notices, documents, correspondence or other communications concerning this Agreement or the work hereunder may be provided by personal delivery or mail and shall be addressed as set forth below. Such communication shall be deemed served or delivered: (a) at the time of delivery if such communication is sent by personal delivery, and (b) 48 hours after deposit in the U.S. Mail as reflected by the official U.S. postmark if such communication is sent through regular United States mail.

IF TO CONSULTANT:

AESCO, Inc.  
17782 Georgetown Lane  
Huntington Beach, CA 92647  
Tel: (714) 375-3830  
Attn: Adam Chamaa

IF TO CITY:

City of Costa Mesa  
77 Fair Drive  
Costa Mesa, CA 92626  
Tel: (714) 754-5303  
Attn: Ian Bronswick

Courtesy copy to:

City of Costa Mesa  
77 Fair Drive  
Costa Mesa, CA 92626  
Attn: Finance Dept. | Purchasing

6.5. Drug-Free Workplace Policy. Consultant shall provide a drug-free workplace by complying with all provisions set forth in City’s Council Policy 100-5, attached hereto as Exhibit

"E" and incorporated herein by reference. Consultant's failure to conform to the requirements set forth in Council Policy 100-5 shall constitute a material breach of this Agreement and shall be cause for immediate termination of this Agreement by City.

6.6. Attorneys' Fees. In the event that litigation is brought by any party in connection with this Agreement, the prevailing party shall be entitled to recover from the opposing party all costs and expenses, including reasonable attorneys' fees, incurred by the prevailing party in the exercise of any of its rights or remedies hereunder or the enforcement of any of the terms, conditions, or provisions hereof.

6.7. Governing Law. This Agreement shall be governed by and construed under the laws of the State of California without giving effect to that body of laws pertaining to conflict of laws. In the event of any legal action to enforce or interpret this Agreement, the parties hereto agree that the sole and exclusive venue shall be a court of competent jurisdiction located in Orange County, California.

6.8. Assignment. Consultant shall not voluntarily or by operation of law assign, transfer, sublet or encumber all or any part of Consultant's interest in this Agreement without City's prior written consent. Any attempted assignment, transfer, subletting or encumbrance shall be void and shall constitute a breach of this Agreement and cause for termination of this Agreement. Regardless of City's consent, no subletting or assignment shall release Consultant of Consultant's obligation to perform all other obligations to be performed by Consultant hereunder for the term of this Agreement.

6.9. Indemnification and Hold Harmless. Consultant agrees to defend, indemnify, hold free and harmless the City, its elected officials, officers, agents and employees, at Consultant's sole expense, from and against any and all claims, actions, suits or other legal proceedings brought against the City, its elected officials, officers, agents and employees arising out of the performance of the Consultant, its employees, and/or authorized subcontractors, of the work undertaken pursuant to this Agreement. The defense obligation provided for hereunder shall apply without any advance showing of negligence or wrongdoing by the Consultant, its employees, and/or authorized subcontractors, but shall be required whenever any claim, action, complaint, or suit asserts as its basis the negligence, errors, omissions or misconduct of the Consultant, its employees, and/or authorized subcontractors, and/or whenever any claim, action, complaint or suit asserts liability against the City, its elected officials, officers, agents and employees based upon the work performed by the Consultant, its employees, and/or authorized subcontractors under this Agreement, whether or not the Consultant, its employees, and/or authorized subcontractors are specifically named or otherwise asserted to be liable. Notwithstanding the foregoing, the Consultant shall not be liable for the defense or indemnification of the City for claims, actions, complaints or suits arising out of the sole active negligence or willful misconduct of the City. This provision shall supersede and replace all other indemnity provisions contained either in the City's specifications or Consultant's Proposal, which shall be of no force and effect.

6.10. Independent Contractor. Consultant is and shall be acting at all times as an independent contractor and not as an employee of City. Consultant shall have no power to incur any debt, obligation, or liability on behalf of City or otherwise act on behalf of City as an agent. Neither City nor any of its agents shall have control over the conduct of Consultant or any of Consultant's employees, except as set forth in this Agreement. Consultant shall not, at any time, or in any manner, represent that it or any of its agents or employees are in any manner agents or employees of City. Consultant shall secure, at its sole expense, and be responsible

for any and all payment of Income Tax, Social Security, State Disability Insurance Compensation, Unemployment Compensation, and other payroll deductions for Consultant and its officers, agents, and employees, and all business licenses, if any are required, in connection with the services to be performed hereunder. Consultant shall indemnify and hold City harmless from any and all taxes, assessments, penalties, and interest asserted against City by reason of the independent contractor relationship created by this Agreement. Consultant further agrees to indemnify and hold City harmless from any failure of Consultant to comply with the applicable worker's compensation laws. City shall have the right to offset against the amount of any fees due to Consultant under this Agreement any amount due to City from Consultant as a result of Consultant's failure to promptly pay to City any reimbursement or indemnification arising under this paragraph.

6.11. PERS Eligibility Indemnification. In the event that Consultant or any employee, agent, or subcontractor of Consultant providing services under this Agreement claims or is determined by a court of competent jurisdiction or the California Public Employees Retirement System (PERS) to be eligible for enrollment in PERS as an employee of the City, Consultant shall indemnify, defend, and hold harmless City for the payment of any employee and/or employer contributions for PERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of City.

Notwithstanding any other agency, state or federal policy, rule, regulation, law or ordinance to the contrary, Consultant and any of its employees, agents, and subcontractors providing service under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any claims to, any compensation, benefit, or any incident of employment by City, including but not limited to eligibility to enroll in PERS as an employee of City and entitlement to any contribution to be paid by City for employer contribution and/or employee contributions for PERS benefits.

6.12. Cooperation. In the event any claim or action is brought against City relating to Consultant's performance or services rendered under this Agreement, Consultant shall render any reasonable assistance and cooperation which City might require.

6.13. Ownership of Documents. All findings, reports, documents, information and data including, but not limited to, computer tapes or discs, files and tapes furnished or prepared by Consultant or any of its subcontractors in the course of performance of this Agreement, shall be and remain the sole property of City. Consultant agrees that any such documents or information shall not be made available to any individual or organization without the prior consent of City. Any use of such documents for other projects not contemplated by this Agreement, and any use of incomplete documents, shall be at the sole risk of City and without liability or legal exposure to Consultant. City shall indemnify and hold harmless Consultant from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from City's use of such documents for other projects not contemplated by this Agreement or use of incomplete documents furnished by Consultant. Consultant shall deliver to City any findings, reports, documents, information, data, in any form, including but not limited to, computer tapes, discs, files audio tapes or any other Project related items as requested by City or its authorized representative, at no additional cost to the City.

6.14. Public Records Act Disclosure. Consultant has been advised and is aware that this Agreement and all reports, documents, information and data, including, but not limited to, computer tapes, discs or files furnished or prepared by Consultant, or any of its subcontractors,



pursuant to this Agreement and provided to City may be subject to public disclosure as required by the California Public Records Act (California Government Code section 6250 *et seq.*). Exceptions to public disclosure may be those documents or information that qualify as trade secrets, as that term is defined in the California Government Code section 6254.7, and of which Consultant informs City of such trade secret. The City will endeavor to maintain as confidential all information obtained by it that is designated as a trade secret. The City shall not, in any way, be liable or responsible for the disclosure of any trade secret including, without limitation, those records so marked if disclosure is deemed to be required by law or by order of the Court.

6.15. Conflict of Interest. Consultant and its officers, employees, associates and subconsultants, if any, will comply with all conflict of interest statutes of the State of California applicable to Consultant's services under this agreement, including, but not limited to, the Political Reform Act (Government Code sections 81000, *et seq.*) and Government Code section 1090. During the term of this Agreement, Consultant and its officers, employees, associates and subconsultants shall not, without the prior written approval of the City Representative, perform work for another person or entity for whom Consultant is not currently performing work that would require Consultant or one of its officers, employees, associates or subconsultants to abstain from a decision under this Agreement pursuant to a conflict of interest statute.

6.16. Responsibility for Errors. Consultant shall be responsible for its work and results under this Agreement. Consultant, when requested, shall furnish clarification and/or explanation as may be required by the City's representative, regarding any services rendered under this Agreement at no additional cost to City. In the event that an error or omission attributable to Consultant occurs, then Consultant shall, at no cost to City, provide all necessary design drawings, estimates and other Consultant professional services necessary to rectify and correct the matter to the sole satisfaction of City and to participate in any meeting required with regard to the correction.

6.17. Prohibited Employment. Consultant will not employ any regular employee of City while this Agreement is in effect.

6.18. Order of Precedence. In the event of an inconsistency in this Agreement and any of the attached Exhibits, the terms set forth in this Agreement shall prevail. If, and to the extent this Agreement incorporates by reference any provision of any document, such provision shall be deemed a part of this Agreement. Nevertheless, if there is any conflict among the terms and conditions of this Agreement and those of any such provision or provisions so incorporated by reference, this Agreement shall govern over the document referenced.

6.19. Costs. Each party shall bear its own costs and fees incurred in the preparation and negotiation of this Agreement and in the performance of its obligations hereunder except as expressly provided herein.

6.20. No Third Party Beneficiary Rights. This Agreement is entered into for the sole benefit of City and Consultant and no other parties are intended to be direct or incidental beneficiaries of this Agreement and no third party shall have any right in, under or to this Agreement.

6.21. Headings. Paragraphs and subparagraph headings contained in this Agreement are included solely for convenience and are not intended to modify, explain or to be a full or accurate description of the content thereof and shall not in any way affect the meaning or interpretation of this Agreement.

6.22. Construction. The parties have participated jointly in the negotiation and drafting of this Agreement. In the event an ambiguity or question of intent or interpretation arises with respect to this Agreement, this Agreement shall be construed as if drafted jointly by the parties and in accordance with its fair meaning. There shall be no presumption or burden of proof favoring or disfavoring any party by virtue of the authorship of any of the provisions of this Agreement.

6.23. Amendments. Only a writing executed by the parties hereto or their respective successors and assigns may amend this Agreement.

6.24. Waiver. The delay or failure of either party at any time to require performance or compliance by the other of any of its obligations or agreements shall in no way be deemed a waiver of those rights to require such performance or compliance. No waiver of any provision of this Agreement shall be effective unless in writing and signed by a duly authorized representative of the party against whom enforcement of a waiver is sought. The waiver of any right or remedy in respect to any occurrence or event shall not be deemed a waiver of any right or remedy in respect to any other occurrence or event, nor shall any waiver constitute a continuing waiver.


6.25. Severability. If any provision of this Agreement is determined by a court of competent jurisdiction to be unenforceable in any circumstance, such determination shall not affect the validity or enforceability of the remaining terms and provisions hereof or of the offending provision in any other circumstance. Notwithstanding the foregoing, if the value of this Agreement, based upon the substantial benefit of the bargain for any party, is materially impaired, which determination made by the presiding court or arbitrator of competent jurisdiction shall be binding, then both parties agree to substitute such provision(s) through good faith negotiations.

6.26. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original. All counterparts shall be construed together and shall constitute one agreement.

6.27. Corporate Authority. The persons executing this Agreement on behalf of the parties hereto warrant that they are duly authorized to execute this Agreement on behalf of said parties and that by doing so the parties hereto are formally bound to the provisions of this Agreement.

**IN WITNESS WHEREOF**, the parties hereto have caused this Agreement to be executed by and through their respective authorized officers, as of the date first above written.

**CONSULTANT**

  
\_\_\_\_\_  
Signature

Kay A. Labed, President  
[Name and Title]

Date: 2-14-17

  
\_\_\_\_\_  
Social Security or Taxpayer ID Number

CITY OF COSTA MESA

Thomas Hatch  
Thomas Hatch  
City Manager

Date: 7/26/17

ATTEST:

Brenda Green  
Brenda Green  
City Clerk



APPROVED AS TO FORM:

Thomas Duarte  
Thomas Duarte  
City Attorney

Date: 07/26/17

APPROVED AS TO INSURANCE:

Ruth Wang  
Ruth Wang  
Risk Management

Date: 7/18/17

APPROVED AS TO CONTENT:

Ian Bronswick  
Ian Bronswick  
Project Manager

Date: 7/12/17

DEPARTMENTAL APPROVAL:

Raja Sethuraman  
Raja Sethuraman  
Public Services Director

Date: 7-20-17

APPROVED AS TO PURCHASING:

Stephen Dunivent  
Stephen Dunivent  
Interim Finance Director

Date: 7.24.17

**EXHIBIT A**  
**REQUEST FOR PROPOSALS**



# REQUEST FOR BID

Submitted to City of Costa Mesa/Public Services  
For Projects and Maintenance Services Under \$45,000

THIS PROPOSAL, IN ORDER TO BE VALID, MUST BE RETURNED TO CITY OF COSTA MESA

ATTN: Ian Bronswick

VIA EMAIL TO: [ian.bronswick@costamesaca.gov](mailto:ian.bronswick@costamesaca.gov)

NO LATER THAN 4:30 P.M., ON 6/8/17

VIA FAX TO: 714.754.5028

<b>VENDOR'S NAME</b> AESCO	<b>VENDOR'S TELEPHONE</b> 714-375-3830	<b>DATE</b> 6-6-17
<b>STREET ADDRESS</b> 17782 Georgetown Lane	<b>FAX NUMBER</b> 714-375-3831	
<b>CITY, STATE &amp; ZIP</b> Huntington Beach, CA 92647	<b>JOB NAME/LOCATION</b> <b>On-Call Materials Testing</b>	

Provide on-call, materials testing services for City of Costa Mesa public works projects including, but not limited to: Concrete, aggregates, soils, and asphaltic materials testing. Provide a schedule of fees, staff and hourly rates, and copies of staff qualifications and applicable testing certificates.

Attached

**We Propose To Hereby Furnish Material, Labor, Special Equipment and Permits,  
Complete in Accordance with Above Specifications**

**FOR THE SUM OF:**

Not to exceed Forty Thousand Dollars and no cents ( \$40,000.00 )

All material is guaranteed to be as specified, all work to be completed in a workmanlike manner according to standard practices, according to terms and conditions on the attached hereon and made a part thereof. A Purchase Order will not be issued until the insurance certificates are approved by Risk Management.

Note: *Proposal may be withdrawn by Contractor  
if not accepted within 30 days.*

\_\_\_\_\_  
AUTHORIZED SIGNATURE

**EXHIBIT B**  
**CONSULTANT'S 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

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November 28, 2012

Mr. Ian Bronswick, Assistant Engineer  
City of Costa Mesa  
77 Fair Drive  
Costa Mesa, CA 92626

**Subject: Proposal for Request for Bid for  
Projects and Maintenance Services Under \$45,000  
Costa Mesa, CA  
AESCO Proposal No. P5492**

Dear Mr. Bronswick:

AESCO is pleased to submit this Cost Proposal, Resumes and Certifications to provide on-call, materials testing services for the City of Costa Mesa public works projects including, but not limited to concrete, aggregates, soils, and asphaltic materials testing.

#### **AESCO CORPORATION PROFILE**

- AESCO is a **woman-owned corporation** (incorporated in California) and has been in operation since 1993.
- AESCO is **SBE, DBE/UDBE, WBE, and CBE** certified.
- DSA, Caltrans and City of Los Angeles certified.
- Member of the Independent Assurance Program with Caltrans, CCRL, and AMRL.
- Materials testing and inspection services including asphalt.
- Clients include OCTA, CalTrans, MTA, the City of Los Angeles Department of Water and Power, the Cities of Huntington Beach, Lynwood, Lakewood, Buena Park, and Riverside; the Long Beach Community College District, the Covina School District, and the Alhambra School District.

#### **QUALIFIED PERSONNEL**

We have attached resumes and certificates of personnel to provide you with an overview of their professional credentials and experience in Appendix A.

#### **CERTIFICATES**

A Caltrans certificate for AESCO's laboratory is included within the Appendix B.



### **FEE SCHEDULE**

A schedule of fees with staff and hourly rates is included within Appendix C.

### **REQUEST FOR BID FORM**

The signed request for bid form is included within Appendix D.

### **SERVICES**

#### **Geotechnical Engineering Capabilities**

Information from geotechnical investigations are used to develop preliminary evaluations. Our experienced field engineers and drillers assess the subsurface conditions as they are encountered to achieve an accurate representation of the soil and bedrock materials beneath a site.

AESCO can deliver geotechnical services, from routine classifications, to triaxial shear and consolidation tests. Our laboratory testing services include testing of soils, concrete, masonry, fireproofing, asphalt, roofing, and aggregates. Laboratory testing is performed using ASTM, AASHTO, and other applicable specifications and guidelines.

Special testing services and field laboratories can be provided, as necessary. In addition to comprehensive soil testing, we are equipped to perform a variety of rock mechanics test procedures, in accordance with standard methods specified by ASTM, ISRM, and CANMET.

AESCO's geotechnical investigations have included:

- Foundation and pavement design
- Bridge foundation design
- Special site investigations for vibration monitoring
- Field permeability tests
- Settlement problems
- Compaction monitoring and testing
- Slope stability problems such as earthen dam failures
- Shallow foundations and rigid mats
- Deep foundations and pressure injected footings
- Earth retaining structures and reinforced earth
- Geological reinforced fill
- Deep, dynamic ground improvement, surcharge and grouting
- Highways, airports, railroads and pavements
- Slope design, soil and rock stability
- Landslide analysis and control
- Expansive/collapsing soils
- Geologic and seismic hazard per Title 24
- Settlement and subsidence analysis
- Underpinning and special foundations
- Dams, reservoirs and dam studies

- Liners
- Hydroelectric facilities
- Dynamically loaded foundations
- Soil and rock instrumentation and blast monitoring
- Construction dewatering and drainage
- Tunnels, pipelines and utilities
- Forensics
- Creek, river and waterfront protection
- Liquefaction analyses
- Fault evaluation
- Gamma Gamma Logging
- Inclometers
- Cross-Hole Sonic Logging

AESCO provides full grading inspection services during construction. Our inspectors are capable of performing field inspection and testing of fill materials, excavations, foundations, and shoring. Our inspectors are trained to perform compaction testing with the sand cone or nuclear density gauge test method and are licensed to operate nuclear density gauges.

#### **Construction Materials Testing and Inspection Services**

AESCO operates a construction materials engineering (CME) laboratory in Huntington Beach, California, and is capable of performing in-house or on-site testing and inspection services. Our laboratory produces thousands of reports annually involving concrete, aggregates, soils in-place, and bituminous materials. AESCO also regularly tests and inspects brick, granite, stone masonry, mortar, reinforcing steel, and manufactured elements such as pre-stressed beams and pre-cast panels.

Engineering consultation and inspection services are available for each phase of construction including:

- Aggregate Evaluation
- Concrete Mixtures-Design, Inspection, and Testing
- Bituminous Materials Testing
- Up to 600,000-pound universal test machines
- Charpy V Notch test apparatus
- Rockwell hardness testing machines
- Refractory Testing
- Concrete Masonry Block
- Roof Inspection and Testing
- Soils Compaction and Stabilization Tests and Inspection
- Structural Steel Fabrication and Erection Inspection and Testing
- Qualification of Welders and Procedures
- Welding Inspection
- Rebar Inspection and Testing
- NDT Testing and Inspection

### **Mobile Laboratory**

AESCO operates a fully functioning, self-sufficient mobile laboratory which can provide immediate and reliable test results for any project. The mobile laboratory can perform on-site testing for rapid strength concrete, maximum density-optimum moisture tests for rapid compaction testing results, sieve analysis, Atterberg Limits, Sand Equivalent tests, aggregate testing, asphalt, etc. Our laboratory is Caltrans certified. The mobile laboratory has a compression testing machine for concrete, ovens, equipment to fabricate test specimens, curing containers, water tanks and pumps, and portable generators.

### **Phase II Environmental Analysis**

The Phase II environmental analysis commonly consists of subsurface exploration to obtain samples and analysis of soil and/or groundwater samples for the presence of hazardous substances or petroleum products. AESCO's typical approach to a Phase II ESA includes:

- Preparation of a site-specific sampling and analysis plan to confirm the extent and concentrations of contamination in accordance with the EPA standards and local, State, and federal guidelines.
- Preparation of a site-specific health and safety plan.
- Sample collection of waste, waste streams, hazardous materials, surface water, groundwater, soils, asbestos, or other material samples, and the testing of underground storage tanks for content and structural integrity.
- Comprehensive review of the regional and local geology and hydrogeology to determine the migration pathways of surface and subsurface contamination; and the installation, as required, of groundwater monitor wells to determine site hydrogeology and extent of contamination.
- Approval of design plans.
- Preparation of Chain of Custody documentation for samples collected and processed.
- Laboratory analyses of environmental samples; chemical analyses vary from site to site and typically include parameters such as petroleum hydrocarbons, volatile organic compounds, inorganic contaminants, and asbestos.
- Preparation of a summary report.
- Aerially Deposited Lead (ADL). AESCO is specialized in ADL surveying studies. AESCO performed ADL studies for numerous freeways in Los Angeles, and Orange Counties. This study involves soil sampling, testing, and statistical analyses of the lead deposit. AESCO follows the acceptable most recent format and variance of Caltrans.

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.

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Very truly yours,  
AESCO, Inc.

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

  
Debra Perez  
Project Manager

**EXHIBIT C**  
**FEE SCHEDULE**



## AESCO Standard Fees

<b><u>Professional Staffing</u></b>		<b><u>Cost</u></b>
		<b>(per hour unless otherwise noted)</b>
P100	Principal Professional Engineer.....	\$ 190
P101	Senior Geotechnical Engineer.....	\$ 175
P102	Project Engineer/ Manager.....	\$ 150
P103	Geologist.....	\$ 140
P104	Quality Control Manager.....	\$ 140
P105	Senior Staff Engineer.....	\$ 135
P106	Building Inspector.....	\$ 115
P107	Laboratory Manager.....	\$ 95
P108	Laboratory Technician.....	\$ 85
P109	CADD Operator/Draftsperson.....	\$ 75
P110	Data Processing, Technical Editing or Reproduction.....	\$ 65
P111	Expert Witness Testimony.....	\$ 380
P112	Certified Payroll, per hr.....	\$ 125

<b><u>Field Technician</u></b>		<b><u>Cost (per hour)</u></b>
T150	Special Inspector (Reinforced Concrete, and Masonry).....	\$ 95
T151	Special Inspector (Structural Steel, Drilled-In-Anchors.....	\$ 95
T152	Special Inspector for Welding.....	\$ 95
T153	DSA Class I Inspector.....	\$ 125
T154	DSA Class II Inspector.....	\$ 115
T155	Special Inspector for Fireproofing.....	\$ 95
T156	Special Inspector Load Tests or Torque/Bolt).....	\$ 95
T157	Special Inspector Rebar Sample.....	\$ 95
T158	Special Inspector Pachometer.....	\$ 95
T159	Senior Asphalt Placement Technician.....	\$ 105
T160	Asphalt Placement Technician.....	\$ 95
T161	Asphalt/Concrete Plant Technician.....	\$ 95
T162	ACI/Caltrans Technician.....	\$ 95
T163	Senior Soils Technician.....	\$ 105
T164	Senior Grading Inspector.....	\$ 105
T165	Staff Grading Inspector.....	\$ 95
T166	Soils Technician.....	\$ 95
T167	Pile Driving Inspector.....	\$ 105
T168	AWS Certified Welding Inspector.....	\$ 95
T169	NACE Coating Inspector.....	\$ 120
T170	Field Coring Technician.....	\$ 95
T171	Nondestructive Examination Technician, UT, MT, LP.....	\$ 95
T172	Structural Steel Fabrication Inspector (AWS).....	\$ 95



<b><u>Fabrication Shop Inspections</u></b>		<b><u>Cost (per hour)</u></b>
T173	Structural Steel Inspector (ICC/CBO) .....	\$ 95
T174	Structural Steel Inspector (AWS) .....	\$ 95
T175	Batch Plant Quality Control Technician/Inspector .....	\$ 95
T176	Reinforced Concrete, Prestressed Inspector .....	\$ 95

**Field Inspector/Technician Hours**

No Work Performed (Work Cancelled)..... Minimum 2-hour Charge  
 All field services charge .....Minimum 4 and 8-hour Charge Thereafter

**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

<b><u>Field Analysis</u></b>		<b><u>Cost</u></b>
		<b>(per hour unless otherwise noted)</b>
G200	Soil Boring with Hollow Stem Auger Drilling .....	\$ 260
G201	Backfill Boreholes with Betonite, per foot .....	\$ 10
G202	Backfill Boreholes with Grout, per foot .....	\$ 20
G203	Drumming and Disposal of Clean Cuttings .....	\$ 350

<b><u>Mix Design Review</u></b>		<b><u>Cost</u></b>
D250	Review of Concrete Mix Design .....	\$ 150
D251	Review of Grout Mix Design.....	\$ 150
D252	Review of Mortar Mix Design .....	\$ 150
D253	Review of Asphalt Mix Design.....	\$ 180



		<u>Cost</u>
U301	<b>Sample Pick-Up/Hold</b> Regular Sample: Concrete Cylinders, Mortar/Grout Cubes and Cores, Fireproofing and Epoxy Prisms, each .....	\$ 15
U302	Large Sample: Flexural Beams, Masonry Prisms, Shotcrete Panels, each .....	\$ 45
U303	Technician for Specimen pick up, minimum 2 hours, per hour .....	\$ 95
U304	Vehicle, per trip.....	\$ 65

		<u>Cost</u>
E350	<b>Field Equipment Charges</b> Brass Mold, each .....	\$ 20
E351	Concrete Air Meter, per day .....	\$ 40
E352	Concrete Unit Weight (Scale, Bucket, Rod and Mallet), per day .....	\$ 10
E353	Field Vehicle Usage, per day .....	\$ 65
E354	Concrete/Asphalt Coring Equipment rental per hr, min 4 hrs and 8 hrs thereafter .....	\$ 190
E355	Fireproofing Adhesion/Cohesion, per test.....	\$ 15
E356	Hand Auger Equipment, per day.....	\$ 125
E357	Level D Personal Protective Equipment (PPE), per person per day .....	\$ 40
E358	Liquid Penetrating Consumables, per day .....	\$ 20
E359	Magnetic Particle Equipment and Consumables, per day .....	\$ 30
E360	Ultrasonic Equipment and Consumables, per day .....	\$ 55
E361	Nuclear Density Gauge Usage, per hour .....	\$ 15
E362	Compaction Test, per location/per test .....	\$ 18
E363	Portable Concrete Laboratory-not including Technicians, per day.....	\$ by quote
E364	Pachometer (Rebar Locator), per day.....	\$ 50
E365	PID Usage, per hour .....	\$ 30
E366	Pull Test Equipment, per day .....	\$ 60
E367	Sand Cone Test Kit (Scale, Burner, Sand Cone Apparatus), per day .....	\$ 150
E368	Schmidt Hammer, per day .....	\$ 40
E369	Torque Wrench, Small, per day.....	\$ 15
E370	Torque Wrench, Large, per day.....	\$ 20
E371	Torque Multiplier (Skidmore), per day .....	\$ 75
E372	Miscellaneous Equipment Charge.....	\$ by quote
E373	Vapor Emission Kit, each.....	\$ 45



## Schedule of Fees for Laboratory Services

<b><u>Concrete Tests</u></b>		<b><u>Cost (per test)</u></b>
C400	6" x 12" Cylinder: Compression Strength (ASTM C39) .....	\$ 25
C401	6" x 6" x 18" Flexural Beams Not Exceeding Referenced Size (ASTM C78, C293, or CTM 523) .....	\$ 80
C402	Cylinders: Splitting Tensile Strength (ASTM C496).....	\$ 80
C403	Core Compression including Trimming (ASTM C39) .....	\$ 50
C404	Coring of Test Panels in Lab, each.....	\$ 25
C405	Diamond Sawing of Cores or Cylinders (ASTM C642) .....	\$ 25
C406	Density, Absorption, and Voids in Hardened Concrete (ASTM C642).....	\$ 300
C407	Modulus of Elasticity Static Test (ASTM C469) .....	\$ 125
C408	Unit Weight Including Lightweight Concrete .....	\$ 65
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) .....	\$ 375
C410	Additional Reading, Per Set of Three Bars .....	\$ 45
C411	Storage Over Ninety (90) Days, Per Set of Three Bars, Per Month .....	\$ 35
 <b><u>Concrete Block, ASTM C140</u></b>		 <b><u>Cost (per test)</u></b>
C412	Compression (3 Required Per ASTM), each .....	\$ 50
C413	Absorption/Moisture Content/Oven Dry Density (3 Required per ASTM), each...	\$ 80
C414	Linear/Volumetric Shrinkage (ASTM C426).....	\$ 90
C415	Web and Face Shell Measurements.....	\$ 35
C416	Tension Test .....	\$ 150
C417	Core Compression .....	\$ 45
C418	Shear Test of Masonry Cores: 2 Faces .....	\$ 70
C419	Efflorescence Test (3 Required), each.....	\$ 35
 <b><u>Laboratory Trial Batch: Cement, Concrete, Grout and Mortar</u></b>		 <b><u>Cost (per test)</u></b>
L450	All trial batch for cement, concrete, grout, mortar, etc.....	\$ by quote
 <b><u>Brick Masonry Tests</u></b>		 <b><u>Cost (per test)</u></b>
M500	Modulus of Rupture: Flexural (5 Required Per ASTM), each .....	\$ 40
M501	Compression Strength (3 Required Per ASTM), each.....	\$ 40
M502	Absorption: 5 Hour or 24 Hour (5 Required), each.....	\$ 40
M503	Absorption (Boil): 1, 2, or 5 Hours (5 Required), each .....	\$ 70
M504	Initial Rate of Absorption (5 Required), each.....	\$ 30
M505	Efflorescence (5 Required), each .....	\$ 75
M506	Core: Compression, each .....	\$ 50
M507	Shear Test on Brick Core: 2 Faces, each.....	\$ 70





<b><u>Masonry Prisms</u></b>		<b><u>Cost (per test)</u></b>
M508	Compression Test: Composite Masonry Prisms Up To 8" x 16".....	\$ 180
M509	Compression Test: Composite Masonry Prisms Larger Than 8" x 16" .....	\$ 240
M510	Masonry: Cutting of Cubes or Prisms.....	\$ 60
 <b><u>Mortar and Grout</u></b>		 <b><u>Cost (per test)</u></b>
M511	Compression: 2" x 4" Mortar Cylinders .....	\$ 35
M512	Compression: 3" x 3" x 6" Grout Prisms, Includes Trimming .....	\$ 50
M513	Compression: 2" Cubes (ASTM C109) .....	\$ 50
M514	Compression: Cores (ASTM C42).....	\$ 50
M515	Mortar Expansion (ASTM C806).....	\$ 275
 <b><u>Fireproofing Tests</u></b>		 <b><u>Cost (per test)</u></b>
F550	Oven Dry Density .....	\$ 65
F551	Adhesion/Cohesions Testing, per hour, 4 hour minimum .....	\$ 100
 <b><u>Gunite and Shotcrete Tests</u></b>		 <b><u>Cost (per test)</u></b>
C420	Core Compression Including Trimming (ASTM C42) .....	\$ 50
C421	Compression 6" x 12" Cylinders .....	\$ 25
C422	Compression: Cubes .....	\$ 30
 <b><u>Soils and Aggregate Tests</u></b>		 <b><u>Cost (per test)</u></b>
S600	Atterberg Limits/Plasticity Index (ASTM D4318).....	\$ 120
S601	Chloride and Sulfate Content (CTM 417, CTM 422).....	\$ 135
S602	Consolidation, Full Cycle (ASTM 2435, CTM 219) .....	\$ 245
S603	Cleanness Value: 1" x #4 (CTM 227) .....	\$ 175
S604	Cleanness Value: 2.5" x 1.5" or 1.5" x .75" (CTM 227).....	\$ 275
S605	Corrosivity Series: Sulfate, Cl, pH, Resistivity (CTM 643, 417, and 422) .....	\$ 190
S606	Resistivity .....	\$ 100
S607	Direct Shear Test (ASTM D3080).....	\$ 245
S608	Direct Shear Test, per point .....	\$ 95
S609	Direct Shear Test Sample Remolding (ASTM D3080).....	\$ 35
S610	Durability Index Fine Aggregate.....	\$ 150
S611	Expansion Index (ASTM D4829, UBC 18-2) .....	\$ 145
S612	Durability Index: Coarse Aggregate.....	\$ 150
S613	Maximum Density: Methods A/B/C (ASTM D1557 or D698, CTM 216).....	\$ 175
S614	Maximum Density: Check Point abrasion (ASTM D1557) .....	\$ 65
S615	Maximum Density: AASHTO C (Modified) (AASHTO T-180).....	\$ 190
S616	Moisture Density Rock Correction .....	\$ 150
S617	Moisture Content (ASTM D2216, CTM 226) .....	\$ 20
S618	Density: Ring Sample (ASTM D2937) .....	\$ 25
S619	Density: Shelby Tube Sample (ASTM D2937).....	\$ 35



**Schedule of Fees**  
Effective November 8, 2016

S620	Organic Impurities (ASTM C40) .....	\$ 85
S621	Failing Head Permeability (ASTM D2434) .....	\$ 225
S622	R-Value: Soil (ASTM 2844) .....	\$ 285
S623	R-Value: Aggregate Base (ASTM D2844) .....	\$ 260
S624	Sand Equivalent (ASTM D2419, CTM 217) .....	\$ 110
S625	Soil Classification.....	\$ 25
S626	Sieve #200 Wash Only (ASTM D1140).....	\$ 85
S627	Sieve with Hydrometer: Sand to Clay (ASTM D422) .....	\$ 260
S628	Sieve Analysis including Wash (ASTM C136).....	\$ 150
S629	Sieve Analysis Without Wash.....	\$ 90
S630	Specific Gravity and Absorption: Coarse (ASTM C127, CTM 202) .....	\$ 85
S631	Specific Gravity and Absorption: Fine(ASTM C128, CTM 207) .....	\$ 150
S632	Swell/Settlement Potential: One Dimensional (ASTM D4546) .....	\$ 155
S633	Unit Weight Coarse Aggregate.....	\$ 70
S634	Unit Weight Fine Aggregate.....	\$ 70
S635	Voids in Aggregate (ASTM C29) .....	\$ 80
S636	Unconfined Compression (ASTM D2166, CTM 221) .....	\$ 90
S637	LA Rattler.....	\$ 185
S638	pH of soil .....	\$ 25
S639	Pocket Penetration Test .....	\$ 10

**Asphalt Concrete Tests**

**Cost (per test)**

A650	Asphalt Core Density.....	\$ 40
A651	Extraction % AC by Ignition Oven (CTM 382) .....	\$ 145
A652	Gradation on Extracted Asph (ASTM D6507 and D5444, CTM 202, and CTM 382) .....	\$ 100
A653	Moisture Content (CTM 370) .....	\$ 75
A654	Maximum Theoretical Specific Gravity (RICE) (ASTM D2041, CTM 309) .....	\$ 160
A655	Specific Gravity and Absorption: Coarse (ASTM C127, CTM 206).....	\$ 90
A656	Specific Gravity and Absorption: Fine (ASTM C128, CTM 207).....	\$ 150
A657	Sieve Analysis (ASTM D5444 and C136).....	\$ 85
A658	Sieve Analysis with Wash (ASTM D5444).....	\$ 130
A659	Sand Equivalent (ASTM D2419) .....	\$ 125
A660	5 pt LTMD Bulk Specific Gravity (CTM 308, CTM 375) .....	\$ 275
A661	Flat and Elongated Particles (ASTM D4791).....	\$ 195
A662	Fine Aggregate Angularity (AASHTO T304 A).....	\$ 185
A663	Maximum Density HVEEM (ASTM D1560) .....	\$ 200
A664	Maximum Density Marshall (ASTM D1559 and D561).....	\$ 200
A665	Mix Stability (CTM 304) .....	\$ 200

**Reinforcing Steel**

**Cost (per test)**

R700	Bend Test: #11 or Smaller .....	\$ 55
R701	Bend Test: Larger Than # 11 .....	\$ 85



**Schedule of Fees**  
Effective November 8, 2016

R702	Tensile Test: # 11 or Smaller .....	\$ 75
R703	Tensile Test: # 14.....	\$ 105
R704	Tensile Test: # 18.....	\$ 170
R705	Slippage Test In Addition to Tensile Test (Per Caltrans 52-1.08C) .....	\$ 180
R706	Tensile Test: Mechanical Splice # 11 and Smaller .....	\$ 110
R707	Tensile Test: Mechanical Splice # 14.....	\$ 160
R708	Tensile Test: Mechanical Splice # 18.....	\$ 195
R709	Tensile Test: Welded # 11 and Smaller .....	\$ 75
R710	Tensile Test: Welded # 14 .....	\$ 105
R711	Tensile Test: Welded # 18 .....	\$ 170
R712	Sample Straightening for Bend or Tensile Test (if required).....	\$ 50
R713	Testing Multi-Wire Steel Prestressing Strand .....	\$ 270

**Metal Testing**

	<b><u>Cost (per test)</u></b>	
R714	Hardness Test (Rockwell) and Brinell (ASTM E18) .....	\$ 65
R715	Hardness Test of Nuts .....	\$ 75
R716	Hardness Test of Bolts.....	\$ 90
R717	Hardness Test of Washers.....	\$ 75

**Concrete Coring Services**

	<b><u>Cost (per test)</u></b>	
C423	Equipment Concrete (4 and 8 hour minimum), per hour .....	\$ 190
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.	\$ 60
C425	Slab on Grade Coring for 6" and 8" Diameter (first 6" depth) each.....	\$ 65
C426	Slab on Grade Concrete Core (price per inch after 6" depth).....	\$ 5
C427	Wall Cores 2",3" and 4" (first 6" in depth) each .....	\$ 75
C428	Wall Concrete Core (price per inch after 6" in depth), per inch .....	\$ 5
(Wall core prices based on Contractor supplying access to area to be cored)		
Miscellaneous Concrete Coring Prices:		
C429	Patching Slab on Grade Cored Holes with 2500 psi Concrete Patch, each.....	\$ 10
C430	Thickness Determination per ASTM C42, each .....	\$ 10
C431	Compression Strength Determination .....	\$ 55

**Asphalt Concrete Coring Services**

	<b><u>Cost (per test)</u></b>	
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.....	\$ 60
A662	Asphaltic Concrete Cores 6" and 8" Diameter (First 6" in depth), each.....	\$ 60
A663	Asphaltic Concrete Cores price per inch after 6" in depth, each .....	\$ 5
Miscellaneous Asphaltic Coring Prices:		
A664	Patching of Core Drilled Holes Using Cold Patch Material, each .....	\$ 25



**Schedule of Fees**  
Effective November 8, 2016

A665	Thickness Determination per ASTM C42, each .....	\$ 25
A666	Specific Gravity for Determination of Percent Compaction per ASTM D 2726, each .....	\$ 35
A667	Specific Gravity for Determination of Percent Compaction by paraffin, each .....	\$ 55