

**CONSULTANT SERVICES AGREEMENT
(GEOTECHNICAL ENGINEERING SERVICES)**

This Independent Consultant Agreement for Professional Services ("Agreement") is made and entered into as of the 14th day of March, 2019 by and between the Ohlone Community College District, ("District") and Construction Testing Services, Inc. ("Consultant"), (together, "Parties").

NOW, THEREFORE, the Parties agree as follows:

1. **Services.** The Consultant shall provide geotechnical and special testing engineering services as further described in **Exhibit "A,"** attached hereto and incorporated herein by this reference ("Services").

The Services shall be performed on the following project(s)/sites(s) ("Project"):

6110B North Parking

The Consultant's Service at any one of sites or combination thereof may be changed, including terminated, in the same manner as the project, as indicated herein, without changing in any way the remaining Consultant's Services at other site(s). The provisions of this Agreement shall apply to the Consultant's Services at each site, without regard to the status of the remaining component(s).

2. **Term.** Consultant shall commence providing services under this Agreement on March 14, 2019 and will diligently perform as required and complete performance by December 31, 2019, unless this Agreement is terminated and/or otherwise cancelled prior to that time.
3. **Submittal of Documents.** The Consultant shall not commence the Services under this Agreement until the Consultant has submitted and the District has approved the certificate(s) and affidavit(s), and the endorsement(s) of insurance required as indicated below:

<u> X </u>	Signed Agreement
<u> X </u>	Workers' Compensation Certification
<u> X </u>	Insurance Certificates and Endorsements
<u> X </u>	W-9 Form
<u> </u>	Other: _____

4. **Compensation.** District agrees to pay the Consultant for services satisfactorily rendered pursuant to this Agreement a total fee not to exceed One Hundred Twenty One Thousand Two Hundred Sixty Six Dollars (\$121,266). District shall pay Consultant according to the following terms and conditions:
 - 4.1. Payment for the Work shall be made for all undisputed amounts based upon the delivery of the work product as determined by the District. Payment shall be made within thirty (30) days after the Consultant submits an invoice to the District for Work actually completed and after the District's written approval of the Work, or the portion of the Work for which payment is to be made.
 - 4.2. The Services shall be performed at the hourly billing rates and/or unit prices included in **Exhibit "B."** If hourly billing applies, the itemized invoice shall reflect the hours spent by the Consultant in performing its Services pursuant to this Agreement.
 - 4.3. If Consultant works at more than one site, Consultant shall invoice for each site separately.

5. **Expenses.** District shall not be liable to Consultant for any costs or expenses paid or incurred by Consultant in performing services for District.
6. **Independent Contractor.** Consultant, in the performance of this Agreement, shall be and act as an independent contractor. Consultant understands and agrees that it and all of its employees shall not be considered officers, employees, agents, partner, or joint venture of the District, and are not entitled to benefits of any kind or nature normally provided employees of the District and/or to which District's employees are normally entitled, including, but not limited to, State Unemployment Compensation or Workers' Compensation. Consultant shall assume full responsibility for payment of all federal, state and local taxes or contributions, including unemployment insurance, social security and income taxes with respect to Consultant's employees. In the performance of the work herein contemplated, Consultant is an independent contractor or business entity, with the sole authority for controlling and directing the performance of the details of the work, District being interested only in the results obtained.
7. **Materials.** Consultant shall furnish, at its own expense, all labor, materials, equipment, supplies and other items necessary to complete the services to be provided pursuant to this Agreement.
8. **Performance of Services.**
 - 8.1. **Standard of Care.** Consultant represents that Consultant has the qualifications and ability to perform the Services in a professional manner, without the advice, control or supervision of District. Consultant's services will be performed, findings obtained, reports and recommendations prepared in accordance with generally and currently accepted principles and practices of its profession for services to California community college districts.

Consultant shall carefully study and compare all documents, findings, and other instructions and shall at once report to District, in writing, any error, inconsistency, or omission that Consultant or its employees may discover. Consultant shall have responsibility for discovery of errors, inconsistencies, or omissions.
 - 8.2. **Meetings.** Consultant and District agree to participate in regular meetings on at least a monthly basis to discuss strategies, timetables, implementations of services, and any other issues deemed relevant to the operation of Consultant's performance of Services.
 - 8.3. **District Approval.** The work completed herein must meet the approval of the District and shall be subject to the District's general right of inspection and supervision to secure the satisfactory completion thereof.
 - 8.4. **New Project Approval.** Consultant and District recognize that Consultant's Services may include working on various projects for District. Consultant shall obtain the approval of District prior to the commencement of a new project.
9. **Originality of Services.** Except as to standard generic details, Consultant agrees that all technologies, formulae, procedures, processes, methods, writings, ideas, dialogue, compositions, recordings, teleplays and video productions prepared for, written for, or submitted to the District and/or used in connection with this Agreement, shall be wholly original to Consultant and shall not be copied in whole or in part from any other source, except that submitted to Consultant by District as a basis for such services.

10. **Copyright/Trademark/Patent.** Consultant understands and agrees that all matters produced under this Agreement shall become the property of District and cannot be used without District's express written permission. District shall have all right, title and interest in said matters, including the right to secure and maintain the copyright, trademark and/or patent of said matter in the name of the District. Consultant consents to use of Consultant's name in conjunction with the sale, use, performance and distribution of the matters, for any purpose and in any medium.
11. **Audit.** Consultant shall establish and maintain books, records, and systems of account, in accordance with generally accepted accounting principles, reflecting all business operations of Consultant transacted under this Agreement. Consultant shall retain these books, records, and systems of account during the Term of this Agreement and for five (5) years thereafter. Consultant shall permit the District, its agent, other representatives, or an independent auditor to audit, examine, and make excerpts, copies, and transcripts from all books and records, and to make audit(s) of all billing statements, invoices, records, and other data related to the Services covered by this Agreement. Audit(s) may be performed at any time, provided that the District shall give reasonable prior notice to Consultant and shall conduct audit(s) during Consultant's normal business hours, unless Consultant otherwise consents.
12. **Termination.**
- 12.1. **For Convenience by District.** District may, at any time, with or without reason, terminate this Agreement and compensate Consultant only for services satisfactorily rendered to the date of termination. Written notice by District shall be sufficient to stop further performance of services by Consultant. Notice shall be deemed given when received by the Consultant or no later than three days after the day of mailing, whichever is sooner.
- 12.2. **With Cause by District.** District may terminate this Agreement upon giving of written notice of intention to terminate for cause. Cause shall include:
- 12.2.1. material violation of this Agreement by the Consultant; or
- 12.2.2. any act by Consultant exposing the District to liability to others for personal injury or property damage; or
- 12.2.3. Consultant is adjudged a bankrupt, Consultant makes a general assignment for the benefit of creditors or a receiver is appointed on account of Consultant's insolvency.
- Written notice by District shall contain the reasons for such intention to terminate and unless within three (3) calendar days after that notice the condition or violation shall cease, or satisfactory arrangements for the correction thereof be made, this Agreement shall upon the expiration of the three (3) calendar days cease and terminate. In the event of this termination, the District may secure the required services from another Consultant. If the expense, fees, and/or costs to the District exceed the cost of providing the service pursuant to this Agreement, the Consultant shall immediately pay the excess expense, fees, and/or costs to the District upon the receipt of the District's notice of these expense, fees, and/or costs. The foregoing provisions are in addition to and not a limitation of any other rights or remedies available to District.
13. **Indemnification.** To the furthest extent permitted by California law, Consultant shall defend, indemnify, and hold free and harmless the District, its Governing Board, agents, representatives, officers, consultants, employees, trustees, and volunteers ("the indemnified parties") from any and all claims that arise out of, pertain to, or relate to the negligence,

recklessness, or willful misconduct of the Consultant, its officers, employees, subcontractors, consultants, or agents. The District shall have the right to accept or reject any legal representation that Consultant proposes to defend the indemnified parties.

14. Insurance.

- 14.1. The Consultant shall procure and maintain at all times it performs any portion of the Services the following insurance with minimum limits equal to the amount indicated below.

Type of Coverage	Minimum Requirement
Commercial General Liability Insurance , including Bodily Injury, Personal Injury, Property Damage, Advertising Injury, and Medical Payments Each Occurrence General Aggregate	 \$ 1,000,000 \$ 2,000,000
Automobile Liability Insurance - Any Auto Each Occurrence General Aggregate	 \$ 1,000,000 \$ 2,000,000
Professional Liability	\$ 1,000,000
Workers' Compensation	Statutory Limits
Employer's Liability	\$ 1,000,000

14.1.1. **Commercial General Liability and Automobile Liability Insurance.**

Commercial General Liability Insurance and Any Auto Automobile Liability Insurance that shall protect the Consultant, the District, and the State from all claims of bodily injury, property damage, personal injury, death, advertising injury, and medical payments arising performing any portion of the Services. (Form CG 0001 and CA 0001, or forms substantially similar, if approved by the District.)

- 14.1.2. **Workers' Compensation and Employers' Liability Insurance.** Workers' Compensation Insurance and Employers' Liability Insurance for all of its employees performing any portion of the Services. In accordance with provisions of section 3700 of the California Labor Code, the Consultant shall be required to secure workers' compensation coverage for its employees. If any class of employee or employees engaged in performing any portion of the Services under this Agreement are not protected under the Workers' Compensation Statute, adequate insurance coverage for the protection of any employee(s) not otherwise protected must be obtained before any of those employee(s) commence performing any portion of the Services.

- 14.1.3. **Professional Liability (Errors and Omissions).** Professional Liability Insurance as appropriate to the Consultant's profession.

- 14.2. **Proof of Carriage of Insurance.** The Consultant shall not commence performing any portion of the Services until all required insurance has been obtained and certificates indicating the required coverage have been delivered in duplicate to the District and approved by the District. Certificates and insurance policies shall include the following:

- 14.2.1. A clause stating: "This policy shall not be canceled or reduced in required limits of liability or amounts of insurance until notice has been mailed to the District, stating date of cancellation or reduction. Date of cancellation or reduction shall not be less than thirty (30) days after date of mailing notice."

14.2.2. Language stating in particular those insured, extent of insurance, location and operation to which insurance applies, expiration date, to whom cancellation and reduction notice will be sent, and length of notice period.

14.2.3. An endorsement stating that the District and its Board of Education, agents, representatives, employees, trustees, officers, consultants, and volunteers are named additional insured under all policies except Workers' Compensation Insurance, Professional Liability, and Employers' Liability Insurance. An endorsement shall also state that Consultant's insurance policies shall be primary to any insurance or self-insurance maintained by District. An endorsement shall also state that there shall be a waiver of any subrogation.

14.2.4. All policies except the Professional Liability, Workers' Compensation Insurance, and Employers' Liability Insurance Policies shall be written on an occurrence form.

14.3. **Acceptability of Insurers.** Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A: VII, unless otherwise acceptable to the District.

15. **Assignment.** The obligations of the Consultant pursuant to this Agreement shall not be assigned by the Consultant.

16. **Compliance with Laws.** Consultant shall observe and comply with all rules and regulations of the governing board of the District and all federal, state, and local laws, ordinances and regulations. Consultant shall give all notices required by any law, ordinance, rule and regulation bearing on conduct of the Work as indicated or specified. If Consultant observes that any of the Work required by this Contract is at variance with any such laws, ordinance, rules or regulations, Consultant shall notify the District, in writing, and, at the sole option of the District, any necessary changes to the scope of the Work shall be made and this Contract shall be appropriately amended in writing, or this Contract shall be terminated effective upon Consultant's receipt of a written termination notice from the District. If Consultant performs any work that is in violation of any laws, ordinances, rules or regulations, without first notifying the District of the violation, Consultant shall bear all costs arising therefrom.

17. **Certificates/Permits/Licenses.** Consultant and all Consultant's employees or agents shall secure and maintain in force such certificates, permits and licenses as are required by law in connection with the furnishing of Services pursuant to this Agreement.

18. **Employment with Public Agency.** Consultant, if an employee of another public agency, agrees that Consultant will not receive salary or remuneration, other than vacation pay, as an employee of another public agency for the actual time in which services are actually being performed pursuant to this Agreement.

19. **Anti-Discrimination.** It is the policy of the District that in connection with all work performed under Contracts there be no discrimination against any employee engaged in the work because of race, color, ancestry, national origin, religious creed, physical disability, medical condition, marital status, sexual orientation, gender, or age and therefore the Consultant agrees to comply with applicable Federal and California laws including, but not limited to the California Fair Employment and Housing Act beginning with Government Code Section 12900 and Labor Code Section 1735 and District policy. In addition, the Consultant agrees to require like compliance by all of its subcontractor(s).

20. **Disabled Veteran Business Enterprises.** Pursuant to section 71028 of the Education Code and Public Contract Code section 10115, the District may have a participation goal of at least

three percent (3%), per year, of the overall dollar amount expended each year by the community college district for disabled veteran business enterprises ("DVBE"). In accordance therewith, the Consultant must submit, upon request by the District, appropriate documentation to the District identifying the steps the Consultant has taken to solicit DVBE participation in conjunction with this Agreement, if applicable.

21. **No Rights in Third Parties.** This Agreement does not create any rights in, or inure to the benefit of, any third party except as expressly provided herein.
22. **District's Evaluation of Consultant and Consultant's Employees and/or Subcontractors.** The District may evaluate the Consultant in any way the District is entitled pursuant to applicable law. The District's evaluation may include, without limitation:
- 22.1. Requesting that District employee(s) evaluate the Consultant and the Consultant's employees and subcontractors and each of their performance.
- 22.2. Announced and unannounced observance of Consultant, Consultant's employee(s), and/or subcontractor(s).
23. **Limitation of District Liability.** Other than as provided in this Agreement, District's financial obligations under this Agreement shall be limited to the payment of the compensation provided in this Agreement. Notwithstanding any other provision of this Agreement, in no event, shall District be liable, regardless of whether any claim is based on contract or tort, for any special, consequential, indirect or incidental damages, including, but not limited to, lost profits or revenue, arising out of or in connection with this Agreement for the services performed in connection with this Agreement.
24. **Confidentiality.** The Consultant and all Consultant's agents, personnel, employee(s), and/or subcontractor(s) shall maintain the confidentiality of all information received in the course of performing the Services. Consultant understands that student records are confidential and agrees to comply with all state and federal laws concerning the maintenance and disclosure of student records. This requirement to maintain confidentiality shall extend beyond the termination of this Agreement.
25. **Notice.** Any notice required or permitted to be given under this Agreement shall be deemed to have been given, served, and received if given in writing and either personally delivered or deposited in the United States mail, registered or certified mail, postage prepaid, return receipt required, or sent by overnight delivery service, or facsimile transmission, addressed as follows:

District:

Ohlone Community College District
Purchasing Department
43600 Mission Boulevard, FP-28
Fremont, California 94539
ATTN: Elaine Trujillo

Consultant:

Construction Testing Services, Inc.
2118 Rheem Drive
Pleasanton, CA 94588
ATTN: Patrick Greenan

Any notice personally given or sent by facsimile transmission shall be effective upon receipt. Any notice sent by overnight delivery service shall be effective the business day next following delivery thereof to the overnight delivery service. Any notice given by mail shall be effective three (3) days after deposit in the United States mail.

26. **Integration/Entire Agreement of Parties.** This Agreement constitutes the entire agreement between the Parties and supersedes all prior discussions, negotiations, and

agreements, whether oral or written. This Agreement may be amended or modified only by a written instrument executed by both Parties.

27. **California Law.** This Agreement shall be governed by and the rights, duties and obligations of the Parties shall be determined and enforced in accordance with the laws of the State of California. The Parties further agree that any action or proceeding brought to enforce the terms and conditions of this Agreement shall be maintained in the county in which the District's administrative offices are located.
28. **Waiver.** The waiver by either party of any breach of any term, covenant, or condition herein contained shall not be deemed to be a waiver of such term, covenant, condition, or any subsequent breach of the same or any other term, covenant, or condition herein contained.
29. **Severability.** If any term, condition or provision of this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions will nevertheless continue in full force and effect, and shall not be affected, impaired or invalidated in any way.
30. **Provisions Required By Law Deemed Inserted.** Each and every provision of law and clause required by law to be inserted in this Contract shall be deemed to be inserted herein and this Contract shall be read and enforced as though it were included therein.
31. **Authority to Bind Parties.** Neither party in the performance of any and all duties under this Agreement, except as otherwise provided in this Agreement, has any authority to bind the other to any agreements or undertakings.
32. **Attorney Fees/Costs.** Should litigation be necessary to enforce any terms or provisions of this Agreement, then each party shall bear its own litigation and collection expenses, witness fees, court costs and attorney's fees.
33. **Captions and Interpretations.** Paragraph headings in this Agreement are used solely for convenience, and shall be wholly disregarded in the construction of this Agreement. No provision of this Agreement shall be interpreted for or against a party because that party or its legal representative drafted such provision, and this Agreement shall be construed as if jointly prepared by the Parties.
34. **Calculation of Time.** For the purposes of this Agreement, "days" refers to calendar days unless otherwise specified.
35. **Signature Authority.** Each party has the full power and authority to enter into and perform this Agreement, and the person signing this Agreement on behalf of each Party has been properly authority and empowered to enter into this Agreement.
36. **Counterparts.** This Agreement and all amendments and supplements to it may be executed in counterparts, and all counterparts together shall be construed as one document.
37. **Incorporation of Recitals and Exhibits.** The Recitals and each exhibit attached hereto are hereby incorporated herein by reference.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement on the date indicated below.

Dated: _____, 2019

Ohlone Community College District

By: _____

Print Name: Alex Lebedeff

Print Title: Director of Purchasing,
Contracts, & Auxiliary Services

Dated: _____, 2019

Construction Testing Services, Inc.

By: _____

Print Name: Patrick Greenan

Print Title: President/Principal-in-Charge

Information regarding Consultant:

License No.: _____

Address: _____

Telephone: _____

Facsimile: _____

E-Mail: _____

Type of Business Entity:

- ☐ Individual
☐ Sole Proprietorship
☐ Partnership
☐ Limited Partnership
☐ Corporation, State: _____
☐ Limited Liability Company
☐ Other: _____

Employer Identification and/or
Social Security Number

NOTE: Section 6041 of the Internal Revenue Code (26 U.S.C. 6041) and Section 1.6041-1 of Title 26 of the Code of Federal Regulations (26 C.F.R. 1.6041-1) requires the recipients of \$600.00 or more to furnish their taxpayer information to the payer. In order to comply with these requirements, the District requires the Contractor to furnish the information requested in this section.

WORKERS' COMPENSATION CERTIFICATION

Labor Code Section 3700 in relevant part provides:

Every employer except the State shall secure the payment of compensation in one or more of the following ways:

- By being insured against liability to pay compensation by one or more insurers duly authorized to write compensation insurance in this State.
- By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing satisfactory proof to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to its employees.

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Work of this Contract.

Date: _____

Name of Consultant: _____

Signature: _____

Print Name and Title: _____

(In accordance with Article 5 – commencing at Section 1860, Chapter 1, part 7, Division 2 of the Labor Code, the above certificate must be signed and filed with the District prior to performing any Work under this Contract.)

EXHIBIT "A"
DESCRIPTION OF SERVICES TO BE PERFORMED BY CONSULTANT

Consultant's entire Proposal is **not** made part of this Agreement.

- **Special Inspection Engineer Testing**

Consultant shall provide the services set forth herein, as well as any incidental service necessary for the full and adequate completion of Project in strict accordance with all local, state and federal laws rules and regulations, including but not limited to, the State Building Code, California Code of Regulations, Title 24 and Instructions of Division of the State Architect ("DSA"), Statement of Structural Tests and Special Inspections, (form DSA 103 or more current version), and instructions included herein. Inspector shall comply with all the requirements of a DSA project inspector including, without limitation, all the requirements included and/or referenced in the following forms:

1. Form DSA IR 17-1 through 17-10, as applicable, Structural Tests and Special Inspection.
2. Form DSA PR 13-01, Construction Oversight Process Procedure.
3. DSA 152 Manual.

Special Inspectors and testing staff shall be prepared to attend Project progress meetings and other specially called meetings as determined by the Project Inspector.

Consultant shall respond to the Project Inspector's scheduling and coordination for Inspections and for Sampling and Testing services.

Consultant shall report all project-related activities to the Project Inspector and perform work under the supervision of the design professional in general responsible charge. Consultant shall prepare daily and/or individual occurrence reports of Special Inspections and Testing results on previously approved forms and provide sufficient copies to the Project Inspector on the same day the inspections were performed for his/her distribution to the Construction Contractor and Architect. Daily special inspection reports must be submitted in a timely manner such that construction is not delayed and not to exceed 14 days from the date the special inspections were performed. The reports are to be submitted to DSA, architect, structural engineer, Project Inspector and District.

Consultant shall immediately submit reports of materials or work not conforming to the requirements of the DSA-approved construction documents to the DSA, architect, structural engineer, Project Inspector and District.

Consultant shall submit an interim Verified Report (form DSA 292 or more current form) to the DSA electronically and a copy to the Project Inspector for each of the applicable eight sections of form DSA 152 prior to the Project Inspector signing off that section of the project inspection card.

Consultant shall submit Verified Reports (form DSA 292 or more current form) to the DSA, Project Inspector, District and design profession in responsible charge if any of the following events occur: (1) within 14 days of the completion of the special inspection work, (2) work on the Project is suspended for a period of more than one month, (3) the services of the Consultant are terminated for any reason prior to completion of the Project, or (4) DSA requests a Verified Report.

- **Geotechnical Engineer and Soils Observation and Testing**

The geotechnical portions of this project shall be performed under the direction of a Geotechnical Engineer. A technician with a nuclear gauge shall perform density and moisture testing in the field during grading, utility trench backfilling, and pavement operations utilizing ASTM D2922, D3017, and ASTM D1556 methods. Laboratory maximum density and optimum moisture determination shall be performed in accordance with ASTM D1557 or D698. Asphalt pavement placement and testing shall be performed in accordance with Caltrans methods.

Consultant shall provide:

1. Perform a site reconnaissance, reviewing the geotechnical engineering report for this project, reviewing the drawings;
2. Project management, consultation during construction, preparation of daily field, foundation excavation observation, and final grading reports;
3. Ensure soils conditions are in conformance to soils report
4. As-graded soils report
5. Observation and testing during site clearing and mass grading;
6. Observation and testing during subgrade preparation and base rock placement in asphalt paved areas;
7. Observation and testing during asphalt concrete placement.
8. Perform the following Sampling and Testing of Materials and Testing of Work-in-Place as may be required by the DSA Testing and Inspection Listing, and as required by the District. The Testing shall be performed in accordance with ASTM test methods and California test methods as appropriate. All Laboratory testing shall be accomplished in a DSA certified laboratory:
 - a. Soil, Aggregate & Asphalt
 - b. Maximum Dry Density
 - c. Expansion Index (ASTM D4318)
 - d. R-Value
 - e. Sand Equivalent
 - f. Sieve Analysis (ASTM C136)
 - g. Hveem Stability
 - h. Asphalt Extraction (ASTM 2172)
 - i. Hardness and Abrasion
 - j. Atterberg limits (ASTM 4318)
 - k. No. 200 Sieve Analysis (ASTM D422)
 - l. Specific Gravity C127/C128
 - m. Asphalt and Asphaltic Concrete Gradation (ASTM C136)
 - n. Asphalt and Asphaltic Concrete Specific Gravity (ASTM D1188)
 - o. Asphalt and Asphaltic Concrete Stability & Flow Marshall (ASTM D1559)
 - p. Asphalt and Asphaltic Concrete Abrasion (ASTM C131)
 - q. Asphalt and Asphaltic Concrete Unit Weight (ASTM D2726)
 - r. Asphalt Cores

Consultant shall maintain such personal contact with the Project as is necessary to assure themselves of compliance, in every material respect, approved construction documents. Personal contact shall include visits to the project site by the Consultant or its qualified representative to observe construction. Observation and testing shall consist of visual observation of earthwork activities and taking field density and moisture tests for the purpose of ascertaining that the work is in substantial conformance with the contract documents, including the project plans and specifications. Such observation and testing shall not be relied upon by others as acceptance of the work nor shall it be construed to relieve the contractor in any way from his obligation and

responsibilities under the construction contract. Specifically, but without limitations, observation and testing shall not require the technician and engineer to assume responsibilities for the means and methods of construction nor for safety on the jobsite.

EXHIBIT "B"
HOURLY RATES AND/OR UNIT PRICES

Refer to Fee Proposal.



DATE: 02/25/19
PROPOSAL No.: P15710
CLIENT: OHLONE COMMUNITY COLLEGE DISTRICT C/O GILBANE BUILDING COMPANY
PROJECT: OHLONE COLLEGE - NORTH PARKING AND STORAGE
LOCATION: FREMONT, CA

ITEM: I ONSITE TESTING & INSPECTIONS		ESTIMATED DAYS	ESTIMATED HOURS	UNIT PRICE	ESTIMATED TOTAL
CONCRETE (IOR TO INSPECT REBAR)					
	FOOTINGS/GRADE BEAMS	7	8	\$82	\$4,592
	RETAINING WALLS	10	8	\$82	\$6,560
	WALLS & COLUMNS	2	8	\$82	\$1,312
	SLAB ON GRADE	2	8	\$82	\$1,312
	OTHER - MISC CONCRETE	4	4	\$82	\$1,312
DSA MASONRY - LEVEL 2					
	MASONRY UNIT PLACEMENT	9	8	\$100	\$7,200
	PRE-GROUT REBAR INSPECTIONS	4	4	\$100	\$1,600
	GROUT PLACEMENT	4	8	\$100	\$3,200
STRUCTURAL STEEL					
	MISC STEEL/STAIRS/HANDRAILS - PERIODIC INSPECTION	8	4	\$82	\$2,624
SEISMIC ASSEMBLY - WOOD					
	ROOF/FLOOR DIAPHRAGM NAILING	2	4	\$82	\$656
MISC FIELD TESTING SERVICES					
	EPOXY BOLTS/REBAR - INSTALL OBSERVATION	4	4	\$82	\$1,312
	EPOXY BOLTS/REBAR - PROOF LOADING/PULL TESTING (PORTAL TO PORTAL)	4	4	\$82	\$1,312
	EXPANSION ANCHOR - INSTALL OBSERVATION	4	4	\$82	\$1,312
	EXPANSION ANCHOR - TORQUE TESTING (PORTAL TO PORTAL)	4	4	\$82	\$1,312
	PORTAL TO PORTAL TRAVEL TIME - PROOF LOAD/PULL TEST/TORQUE TEST EQUIPMENT	8	0.75	\$82	\$492
	PORTAL TO PORTAL MILEAGE - PROOF LOAD/PULL TEST/TORQUE TEST EQUIPMENT	8	32	\$0.58	\$148
GEOTECHNICAL SERVICES					
	BUILDING PAD	2	4	\$90	\$720
	TRENCH BACKFILL	5	4	\$90	\$1,800
	RETAINING WALL BACKFILL	5	8	\$90	\$3,600
	SITWORK SUBGRADE AND/OR BASEROCK	5	4	\$90	\$1,800
	PAVEMENT SUBGRADE	10	8	\$90	\$7,200
	PAVEMENT BASEROCK	10	8	\$90	\$7,200
	A/C COMPACTION	5	8	\$90	\$3,600
	FOOTING INSPECTION	1	8	\$125	\$1,000
	PORTAL TO PORTAL TRAVEL TIME FOR NUCLEAR GAUGE USE	42	0.75	\$90	\$2,835
	PORTAL TO PORTAL MILEAGE FOR NUCLEAR GAUGE USE	42	32	\$0.58	\$780
Preliminary Sub-Total of Onsite Testing & Inspection (approx.)					\$66,791

ITEM: II OFFSITE TESTING & INSPECTIONS		ESTIMATED DAYS	ESTIMATED HOURS	UNIT PRICE	ESTIMATED TOTAL
STEEL SHOP VISUAL/UT/MT - DAY SHIFT *		4	8	\$82	\$2,624
STEEL SHOP - VISUAL/UT/MT - MISCELLANEOUS STEEL, STAIRS & HANDRAILS*		7	8	\$82	\$4,592
BATCH PLANT		25	8	\$82	\$16,400
REBAR SAMPLE & TAG		6	8	\$82	\$3,936
MASONRY SAMPLE & TAG		1	8	\$100	\$800
Preliminary Sub-Total of Offsite Testing & Inspection (approx.)					\$28,352

ITEM: III LABORATORY TESTING & ENGINEERING	ESTIMATED UNITS/HOURS	UNIT PRICE	ESTIMATED TOTAL
CONCRETE COMPRESSION TESTS (SET OF 5-4x8 CYLINDERS)	150	\$20	\$3,000
MASONRY UNIT TESTING PER ASTM C140 (UNIT STRENGTH METHOD) <i>PRE CONSTRUCTION</i>	9	\$100	\$900
MASONRY PRISM COMPRESSION TESTS - <i>PRODUCTION</i>	3	\$70	\$210
MASONRY MORTAR COMPRESSION TESTS	20	\$30	\$600
MASONRY GROUT COMPRESSION TESTS	16	\$30	\$480
REBAR TENSILE AND BEND TEST (#3 TO #8)	24	\$150	\$3,600
ANCHOR BOLT TENSION TEST (<i>Tensile & Hardness</i>)	3	\$325	\$975
COMPACTION CURVES	5	\$200	\$1,000
A/C - THEORETICAL MAX DENSITY	5	\$200	\$1,000
SAMPLE PICK-UPS	235	\$10	\$2,350
WPS REVIEW	2	\$200	\$400
MIX DESIGN REVIEW	5	\$200	\$1,000
DSA INTERIM REPORT	2	\$50	\$100
DSA FINAL REPORT	1	\$200	\$200
GEOTECHNICAL ENGINEER OVERSITE (HRS)	5	\$225	\$1,125
GEOTECHNICAL FINAL LETTER (DSA 293)	1	\$200	\$200
Preliminary Subtotal of Laboratory Testing & Engineering (approx.)			\$17,140
Preliminary Estimated Fees			\$112,283
Project Administration 8%			\$8,983
Total Preliminary Estimated Fees			\$121,266

* Steel shop price based on work being done in Northern California in one shop and one shift. If work is performed at night a 12.5% differential will be charged.

An 8% project management and admin fee will be charged monthly per invoice.

No contingency is budgeted by CTS for uncontrollable overtime, union or prevailing wage increases and unforeseen requirements that may arise in the specifications, as well as for work over the estimated hours. Owner should budget appropriate amount for budgetary purposes.

Estimate based on plans by KPW Structural Engineers dated, 1/15/18, plans by BKF, dated 6/6/18 and DSA 103 File # 1-0CX3, Application # 01-117070 dated, 10/27/17.

No construction schedule was available at the time this estimate was prepared. See attached fee schedule for basis of charges.

The liability of Construction Testing Services (CTS) is limited to CTS's contract value.

Estimate includes portal to portal travel time for equipment transport and nuclear gauge transport from laboratory per requirements of the CA Radiological Health Branch.

2019 FEE SCHEDULE - P15710 2/25/19
PERSONNEL FEES AND BASIS OF CHARGES
INSPECTIONS, ENGINEERING & SPECIAL SERVICES

	Standard Rate/Hour	Discounted Rate/Hour
* FIELD INSPECTION AND LABORATORY SERVICE		
Steel	\$218.00	\$82.00
Nondestructive - UT, MT, PT	\$223.00	\$82.00
Steel Visual/UT Combination	\$223.00	\$82.00
Concrete ACI	\$218.00	\$82.00
Concrete ICC	\$218.00	\$82.00
DSA Masonry	\$218.00	\$100.00
Fireproofing	\$218.00	
Soil Technician w/Nuclear Gauge and/or Sand Cone (<i>portal-to-portal</i>)	\$218.00	\$90.00
Asphalt Technician (<i>portal-to-portal</i>)	\$218.00	
Shoring/Soldier Piers	\$218.00	
Roofing & Waterproofing	\$218.00	
Multi-Disciplined Inspector	\$218.00	
Inspector Requiring G1 Pay Grade	\$253.00	
Specialty Inspector or Where Formal Certification is Required	\$218.00	
Field Inspector with Special Enhancement	\$218.00	
Laboratory Technician	\$218.00	
Technician Typist	\$218.00	
**PROFESSIONAL ENGINEERING SERVICES		
Principal Engineer (Civil/Structural)	\$353.00	
Geotechnical Engineer	\$303.00	\$225.00
Consulting Engineer (Civil/Structural)	\$273.00	
Associate Engineer, Licensed	\$248.00	
Project Manager	\$218.00	
Staff Engineer	\$248.00	\$125.00
Field Supervision	\$193.00	
ASNT Level III	\$258.00	
Drafting	\$153.00	
Quality Control Manager	QOR	
SPECIAL SERVICES		
Portable and Mobile Laboratories, NDT and Soils	QOR	
* Epoxy Bolt/Expansion Anchor - Installation Observation	\$218.00	\$82.00
* Epoxy Bolt/Expansion Anchor Proof Load Testing (<i>portal-to-portal</i>)	\$218.00	\$82.00
* Coring, 1 Person (including equipment) (<i>portal-to-portal</i>)	\$278.00	
* Coring, 2 Persons (including equipment) (<i>portal-to-portal</i>)	\$443.00	
* Asphalt Coring (<i>portal-to-portal</i>)	\$303.00	
Project Research	QOR	
Ultrasonic Testing for Non-Metallic Materials	QOR	
Pavement Rehabilitation Analysis Using Deflections	QOR	
Roof Moisture Survey	QOR	
Soil Drilling Equipment	QOR	
Geotechnical Site Investigations/Foundation Reports	QOR	
Pachometer, Schmidt Hammer, Windsor Probe, Skidmore - Equipment Fee \$115/Day (<i>portal-to-portal</i>)	\$288.00	
Floor Flatness Testing FF/FL - Equipment Fee \$115/Day (<i>portal-to-portal</i>)	\$288.00	
Measuring Moisture Vapor Emission Rate (Calcium Chloride) - \$55/Kit (<i>portal-to-portal</i>)	\$288.00	
Relative Humidity Testing - \$75/Kit (<i>portal-to-portal</i>)	\$288.00	
Ferrosan - Equipment Fee \$115/day (<i>portal-to-portal</i>)	\$288.00	
GPR - Equipment Fee \$115/day (<i>portal-to-portal</i>)	\$343.00	
Administration, Secretarial, Special Projects, Notary, Certified Payroll	\$163.00	
Concrete/Grout/Mortar Mix Design Review (less than 48 hours notice - \$500)	\$345.00	\$200.00
Welding Procedure Review (less than 48 hours notice - \$500)	\$345.00	\$200.00
Welder Qualification Test Record (WQTR)	\$250.00	
DSA Interim Reports	\$178.00	\$50.00
Geotechnical Pad Letter (less than 48 hours notice - \$550)	\$345.00	\$200.00
Final Letter (less than 48 hours notice - \$550)	\$345.00	\$200.00
EXPERT WITNESS TESTIMONY		
Court appearance, per day	\$2,420.00	
Court appearance, per half day	\$1,210.00	

* Field inspection and laboratory technician services will be billed in accordance with minimums shown on Basis of Charges.

**Professional engineering services will be billed in two hour increments.

BASIS OF CHARGES

GENERAL

Fees for tests and inspection include cost of technician, normal equipment and regular reports. Engineering services will be charged at applicable rates and will require travel and mileage charges for equipment transport and storage per code (portal to portal) from the nearest CTS laboratory. Soils testing with nuclear gauge and/or sand cone equipment and inspections requiring equipment will require applicable travel and mileage charges for equipment transport and storage per code (portal-to-portal) from the nearest CTS laboratory. Fees for special projects, services overseas, or elsewhere in the United States, will be quoted on request. With prior notification to Client; charges are subject to change at any time. Construction Testing Services reserves the right to adjust the rates quoted in this contract based upon any Union or prevailing wage increases and/or changes in any industry requirements.

MINIMUM HOURLY CHARGES – INSPECTION

Technician personnel and the following minimum charges are contractual commitment:

One-half day or less	4 Hours
Over one-half day	8 Hours
Show-up time (less than 2 hours notice = 4 hour charge)	2 Hours

WORKING HOURS AND PREMIUM TIME

Regular workday is the first 8 hours between 6:00 am and 6:00 pm Monday through Friday. Premium time is as follows:

Overtime, Weekdays and Saturdays (first 8 hours)	1.5 x quoted hourly rate
Overtime Saturdays (over 8 hours) and Sundays (first 8 hours)	2 x quoted hourly rate
Overtime Sundays (over 8 hours) and Holidays	3 x quoted hourly rate
Shift differential, swing and graveyard - (Work performed between 2:00 pm and 4:00 am)	12.5%/hour additional to base or quoted rate.

MISCELLANEOUS CHARGES - Only Where Applicable

Notary Services Fee	\$40.00/each	
Facsimile Charges. Plus \$1.00/page (n/c for cover page)	\$7.00/minimum	
Wireless Router/Data Card for Jobsite Internet	\$135.00/day	
iPad Monthly Rental Fee	\$100.00/month	
Electronic Reporting Fees/Subscriptions (PlanGrid, BIM, etc.)	At Cost	
Parking Fees	At Cost	
Air Travel	Cost Plus 10%	
Outside Services	Cost Plus 20%	
Subsistence (per union contract)	\$130.00/day	
Mileage	Standard Federal Rate	
Sample Pickup	\$26.00/each	\$10.00/each
Weekend Sample Pickup	\$105.00/each	
Project Administration	40% of Monthly Invoice	8% of Monthly Invoice
Samples Made by Others: Concrete Cylinders	\$130 + Test	
Samples Made by Others: All Other Tests	\$55.00 + Test	
Laboratory Sample Witness Fee	\$130.00	
Laboratory Sample Storage Fee (per sample)	\$120.00	
EZ Cure Boxes (Thermostatically Controlled Curing Boxes)	QOR	
Returned Check Fee	\$150.00	

TESTS

Testing fees shown include normal time for performing test. Samples requiring special preparation will be charged at the laboratory technician rate. Fees for tests not listed will be quoted upon request. There will be a minimum charge of \$100.00 for any engineering report. Please note some tests may be tested by subconsultants. Samples delivered to the laboratory after 3:00pm or samples needing results within 24 hours will incur a 50% mark-up.

INSURANCE

The liability of Construction Testing Services (CTS) is limited to CTS's contract value.

PAYMENT

Invoices will be submitted monthly or bimonthly for services performed during the preceding month and are payable on receipt. Interest of 1.5% per month (but not exceeding the maximum rate allowable by law) will be payable on any amounts not paid within 30 days, payment thereafter to be applied first to accrued interest and then to the principle unpaid amount. Attorney's fees or other costs incurred in collecting any delinquent amount shall be paid by client. Visa, MasterCard and American Express payments are accepted however fees will apply. Visa and MasterCard payments require an additional 3% on top of the amount of the invoice being paid. American Express payments require an additional 4% on top of the amount of the invoice being paid.



CONCRETE AND MASONRY TESTS

CONCRETE		Standard Rate/Each	Discounted Rate/Each
Compressive Strength of Cylindrical Concrete Specimens (6x12)	ASTM C39	\$84.00	
Compressive Strength of Cylindrical Concrete Specimens (4x8)	ASTM C39	\$84.00	\$20.00
Compressive Strength of Cylindrical Concrete Specimens (Over 8000 PSI)	ASTM C39	\$143.00	
Cylinder molds. 6" x 12" and 4" x 8"	ASTM C470	\$72.00	
Compressive Strength of Lightweight Insulating Concrete	ASTM C495	\$94.00	
Obtaining and Testing Sawed Beams and Drilled Cores of Concrete (Cores)	ASTM C42	\$121.00	
Flexural Toughness of Fiber Reinforced Concrete (Round Panel)	ASTM C1550	\$440.00	
Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	ASTM C78	\$308.00	
Flex Beams per Caltrans Test Methods	CT523 and CT524	\$308.00	
Length Change of Hardened Hydraulic-Cement Mortar and Concrete (Shrinkage, 1 Sample)	ASTM C157	\$150.00	
Shotcrete Nozzleman Qualification Letter (Per Nozzleman, Per Position)	ACI 506, ASTM C42 and C1140	\$440.00	
Shotcrete Pre-Qualification Cores (Compression and Visual)	ACI 506, ASTM C42 and C1140	\$110.00	
Shotcrete Production Cores	ASTM C1140	\$110.00	
Coefficient of Thermal Expansion	AASHTO T336	\$535.00	
Determining Density of Structural Lightweight Concrete (Cylinders)	ASTM C567	\$405.00	
Standard Specification for Concrete Made by Volumetric Batching and Mixing	ASTM C685	\$965.00	
Cement Quality Sampling	CBC 2010	\$667.00	
Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete	ASTM C472	\$55.00	
Splitting Tensile Strength of Cylindrical Concrete Specimens	ASTM C496	\$253.00	
Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	ASTM C469	\$215.00	
Grab Sample, Sealing and Storing in a Humidity and Temperature Controlled Room	CBC	\$150.00	
Density of Hydraulic Cement	ASTM C188	\$195.00	
Testing of Controlled Low Strength Material (CLSM) Test Cylinders	ASTM D4832	\$150.00	
GFRC Pull Test	PCI	\$374.00	
GFRC Flexural Test	PCI	\$374.00	
Foaming Agents for Use in Producing Cellular Concrete Using Preformed Foam (Cell-Crete)	ASTM C796	\$525.00	
MASONRY			
Compressive Testing of Grout (Masonry)	ASTM C1019	\$121.00	\$30.00
Compressive Strength of Hydraulic Cement Mortars Using 2" Cube Specimens	ASTM C109	\$121.00	
Compressive Strength of Masonry Prisms	ASTM C1314	\$187.00	\$70.00
Testing Concrete Masonry Units and Related Units (Core Compression)	CBC 2105A.4	\$187.00	
Compressive Strength of Molded Masonry Mortar Cylinders and Cubes (2" Sample)	ASTM C780 A7.6	\$121.00	
Testing Concrete Masonry Units (CMU) and Related Units (Full Unit)	ASTM C140	\$184.00	\$100.00
Linear Drying Shrinkage of Concrete Masonry Units (Per Unit)	ASTM C426	\$270.00	
Masonry Core Shear Testing	CBC 2105A.4	\$270.00	
Testing Concrete Masonry Units (Absorption, Moisture Content, Unit Weight)	ASTM C140	\$340.00	
Brick and Clay Tile (modulus of rupture, compression, saturation coefficient, suction rate, efflorescence)*	ASTM C67	\$1,000.00	
Mortar Molds. 2" x 4". Single Use		\$121.00	
Mortar or Grout, Stored and Cured, Not Tested (Including Mold)		\$121.00	
AGGREGATES (SOILS AND CONCRETE)			
Determining Sieve Analysis of Fine and Coarse Aggregates (Coarse Only)	CT202/ASTM C136	\$220.00	
Sieve Analysis of Fine and Coarse Aggregates (Fine Only)	CT202/ASTM C136	\$295.00	
Sieve Analysis of Fine and Coarse Aggregates (Wash Included)	CT202/ASTM C117	\$370.00	
Sieve Analysis of Fine and Coarse Aggregates (200 Wash Only)	ASTM C117	\$220.00	
Evaluating Cleanness of Coarse Aggregate	CT227	\$370.00	
Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88/CT214	\$275.00	
Unit Weight of Aggregate	CT212	\$158.00	
Clay Lumps and Friable Particles in Aggregates	ASTM C142	\$215.00	
Flat Particles, Elongated Particles or Flat and Elongated Particles in Coarse Aggregate	ASTM D4791/CT235	\$370.00	
Organic Impurities in Fine Aggregates for Concrete	CT213/ASTM C40	\$336.00	
Density, Relative Density(Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127/CT206	\$336.00	
Density, Relative Density(Specific Gravity), and Absorption of Fine Aggregate	ASTM C128/CT207	\$336.00	
Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131(535) and C211	\$535.00	
Percentage of Crushed Particles/Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	ASTM D5821/CT205	\$405.00	
Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)	ASTM C1252/AASHTO T304A	\$405.00	
Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419/CT217	\$270.00	
Durability Index (Fine)	ASTM D3744/CT229	\$405.00	
Durability Index (Coarse)	ASTM D3744/CT229	\$405.00	
Durability Index (Fine and Coarse)	ASTM D 3744/CT229	\$405.00	
Lightweight Particles in Aggregate	ASTM C123/AASHTO T113	QOR	
Resistance of Rock to Wetting and Drying	CRD-C169	\$590.00	

*Unusual sample preparation for brick specimen will be charged at the established hourly rate.

SOILS, AGGREGATE, ASPHALTIC CONCRETE SERVICES & TESTS

SOILS		Standard Rate/Each	Discounted Rate/Each
Direct Shear Test of Soils Under Consolidated Drained Conditions	ASTM D3080	\$535.00	
Caltrans Corrosivity Package		\$505.00	
Determining Field and Laboratory Resistivity and pH Measurements for Soil and Water	CT643	QOR	
Soils and Waters for Sulfate Content	CT417	QOR	
Soils and Waters for Chloride Content	CT422	QOR	
Particle-Size Analysis of Soils (with Hydrometer)	ASTM D422	\$590.00	
Pore Water Extraction and Determination of the Soluble Salt Content of Soils by Refractometer	ASTM D4542	\$625.00	
Standard Test Method for Particle-Size Analysis of Soils (without Hydrometer)	ASTM D422	\$535.00	
Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D4318/CT204	\$535.00	
Laboratory Compaction Characteristics of Soil Using Modified/Standard Effort	ASTM D1557/D698	\$502.00	\$200.00
Hydrometer Only	ASTM D422	\$535.00	
pH of Soils	ASTM D4972	\$467.00	
Relative Compaction of Untreated and Treated Soils and Aggregates	CT216	\$590.00	
Determining the Resistance "R" Value of Treated and Untreated Bases, Subbases, and Basement Soils by the Stabilometer	ASTM D2844/CT301	\$590.00	
Laboratory Determination of Water(*moisture) Content of Soil and Rock by Mass	ASTM D2216/CT226	\$150.00	
Density of Soil in Place by the Drive-Cylinder Method	D2937	\$116.00	
Expansion Index of Soils	ASTM D4829	\$405.00	
Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter (Permeability)	ASTM D5084/CT220	\$550.00	
Lab Compaction Characteristics of Soil 1 Point Proctor (Check Point)	ASTM D698/D1557	\$337.00	
Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	ASTM D4253	\$285.00	
Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	ASTM D4254	\$285.00	
Density of Hydraulic Cement	ASTM C188	\$253.00	
Volatile Organic Content	EPA 8260B	QOR	
Semi Volatile Organics by GC/MS (Basic Target List)	EPA 8270C	QOR	
Total Organic Carbon	ASTM 2974/EPA 5310Bm	QOR	
ICP Metals Concentration	EPA 6020 - CAM/CCR 17	QOR	
Total Extractable Petroleum Hydrocarbons: TPH, MTBE, Benzene, Toluene, Ethylbenzene, Zylenes, %SS	EPA 8015B	QOR	
ICP Metals Concentration	EPA 6020	QOR	
pH	EPA 9045D	\$535.00	
Sequential Batch Extraction of Waste with Acidic Extraction Fluid	ASTM D5284	QOR	
Chromium Soluble	EPA 7196A	QOR	
Moisture, Ash and Organic Matter of Peat and Other Organic Soils (Organic Content)	ASTM D2974	\$270.00	
Universal Soil Classification System (USCS) Test	ASTM D2487	\$300.00	
California Bearing Ratio Test	ASTM D1883	\$370.00	
Unconfined Compressive Strength of Cohesive Soil	ASTM D2166/CT221	\$187.00	
ASPHALT			
Quantitative Extraction of Bitumen from Bituminous Paving Mixtures (Solvent)	ASTM D2172/CT310	\$732.00	
Determining Low Temperature Performance Grade (PG) of Asphalt Binders	ASTM 6816	QOR	
Thickness/Height of Compacted Bituminous Paving Mixture Specimens (Cores)	ASTM D3549/CT308	\$270.00	
Method of Prep of Bituminous Mixture Test Specimens	ASTM D6926/CT304	\$270.00	
Bulk Specific Gravity and Density of Compacted Bituminous Mixtures (LTMD)	ASTM D1188 and D2726/CT308	\$990.00	
Indirect Tensile (IDT) Strength of Bituminous Mixtures (TSR)	ASTM D6931/CT371	\$3,146.00	
Mechanical Size Analysis (Coarse and Fine) of Extracted Aggregate	ASTM D5444/CT202	\$405.00	
Marshall Stability and Flow of Bituminous Mixtures	ASTM D6927	\$990.00	
Theoretical Maximum Specific Gravity and Density (Rice)	ASTM D2041/CT309	\$405.00	\$200.00
Measuring the Permeability of Bituminous Pavements and Seal Coats	CT341		
Swell of Bituminous Mixtures	CT305	\$370.00	
Moisture Vapor Susceptibility of Bituminous Mixtures/Moisture or Volatile Distillates in Asphalt	ASTM D1461/CT307	\$930.00	
Stabilometer Value (1 sample)	CT366	\$370.00	
Determination of Asphalt Content of Bituminous Paving Mixtures by the Ignition Method	CT382/ASTM D6307	\$405.00	
Determination of Correction Factor of Bituminous Paving Mixtures by the Ignition Method	CT382/ASTM D6307	\$405.00	
Determination of Asphalt and Moisture Contents of Bituminous Mixtures by Microwave Oven	CT370	\$405.00	
Effect of Water on Compressive Strength of Compacted Bituminous Mixtures (Set of 6)	ASTM D1075	\$3,330.00	
Compressive Strength of Bituminous Mixtures	ASTM D1074	\$270.00	
Hamburg Wheel Track	AASHTO T324	\$3,630.00	
Moisture Susceptibility	AASHTO T283	\$3,630.00	

* Unusual sample preparation (dried clays, saturated clays, etc.) and all other tests for treated or untreated soils, aggregate subbase and aggregate base will be charged at established rates for laboratory technician.

** Does not include sample preparation or sieve analysis



MATERIALS MECHANICAL TESTS		Standard Rate/Each	Discounted Rate/Each
Mechanical Testing of Steel Products (General Tensile)	ASTM A370	\$470.00	
Fillet Weld Break Test for Qualification (Welding)	AWS B4.0	\$205.00	
Tension Testing of Metallic Materials, Tension Testing Wrought and Cast Aluminum and Magnesium-Alloy Products, (Welding Coupon Tensile)	ASTM E8, B557 and AWS B4.0	\$470.00	
Mechanical Testing of Steel Products (Couplers)	ASTM A370	\$460.00	
Impact Testing of Miniaturized Charpy V-Notch Specimens, Notched Bar Impact Testing of Metallic Materials	ASTM E2248 and ASTM E23	QOR	
Testing, Practices, and Terminology for Chemical Analysis of Steel Products	ASTM A751	\$336.00	
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #3-#8	ASTM A370 and E290	\$370.00	\$150.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #9-#11	ASTM A370 and E290	\$440.00	
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #14+	ASTM A370 and E290	QOR	
Mechanical Testing of Steel Products, Standard Specification for Steel Wire, Plain, for Concrete Reinforcement		\$440.00	
Guided Bend Test for Ductility of Welds, Mechanical Testing of Welds	ASTM A370, A82 and A185		
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Anchor Bolts Only (Tension and Yield)	ASTM E190 and AWS B4.0	\$270.00	
Rockwell Hardness of Metallic Materials	ASTM F307, F1554 and F606	\$528.00	\$325.00
Proof Test for Carbon and Alloy Steel (Nuts Only)	ASTM E18	\$150.00	
Radiographic Examination of Metallic Castings/Weldments	ASTM A194 or A563	\$337.00	
Macroetching Metals and Alloys	ASTM E94, E1030 and E1032	QOR	
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets (HSB Assemblies)	ASTM E340, E381 and AWS	\$337.00	
Mechanical Testing of Steel Products (Terminators Tensile)		\$370.00	
Strength for Sewn or Bonded Seams of Geotextiles	ASTM F606		
Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure	ASTM A370	\$370.00	
Breaking Strength and Elongation of Textile Fabrics (Grab Test)	ASTM D4884	\$336.00	
Tensile Properties of Fiber Reinforced Polymer Matrix Composite Bars	ASTM D2261	\$336.00	
Steel Strand, Uncoated Seven-Wire for Prestressed Concrete	ASTM D5034	\$270.00	
	ASTM D3039	\$990.00	
	ASTM A416 and A1061	\$1,463.00	
FIREPROOFING			
Thickness and Density of Sprayed Fire-Resistive Material (SFRM)	ASTM E605	\$270.00	
Cohesion/Adhesion of Sprayed Fire-Resistive Materials (Test Kit Only)	ASTM E736	\$77.00	

CONTACT INFORMATION

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