

**SOLANO COMMUNITY COLLEGE DISTRICT
GOVERNING BOARD AGENDA ITEM**

TO: **Members of the Governing Board**

SUBJECT: **CONTRACT AWARD TO CONSTRUCTION TESTING SERVICES INC. (CTS), FOR PROJECT SPECIAL INSPECTION AND TESTING SERVICES FOR THE SCIENCE AND BIOTECHNOLOGY BUILDING PROJECT**

REQUESTED ACTION:

Information **OR** **Approval**
 Consent **OR** **Non-Consent**

SUMMARY:

Board approval is requested to award a professional services contract in a not to exceed amount of \$92,230 to Construction Testing Services Inc. (CTS) for Division of State Architect project special inspection and testing services for the Science and Biotechnology Building Project, which includes specific observation and testing for the construction of this new building. The scope of work of this contract includes providing all offsite and onsite special inspections and materials testing as required by the California Building Code, 2013 Edition.

CONTINUED ON THE NEXT PAGE

STUDENT SUCCESS IMPACT:

- Help our students achieve their educational, professional and personal goals
- Basic skills education
- Workforce development and training
- Transfer-level education
- Other: Enhancing instructional spaces and classrooms.

Ed. Code: Board Policy:3225; 3520 Estimated Fiscal Impact: \$92,230 Measure Q Funds

SUPERINTENDENT'S RECOMMENDATION:

APPROVAL **DISAPPROVAL**
 NOT REQUIRED **TABLE**

Yulian Ligioso
Vice President, Finance & Administration

PRESENTER'S NAME

4000 Suisun Valley Road
Fairfield, CA 94534

ADDRESS

(707) 864-7209

TELEPHONE NUMBER

Yulian Ligioso
Vice President, Finance & Administration

VICE PRESIDENT APPROVAL

March 4, 2016

**DATE SUBMITTED TO
SUPERINTENDENT-PRESIDENT**

Celia Esposito-Noy, Ed.D.
Superintendent-President

March 4, 2016

**DATE APPROVED BY
SUPERINTENDENT-PRESIDENT**

AGENDA ITEM
MEETING DATE March 16, 2016

**SOLANO COMMUNITY COLLEGE DISTRICT
GOVERNING BOARD AGENDA ITEM**

TO: Members of the Governing Board

SUBJECT: CONTRACT AWARD TO CONSTRUCTION TESTING SERVICES INC. (CTS), FOR PROJECT SPECIAL INSPECTION AND TESTING SERVICES FOR THE SCIENCE AND BIOTECHNOLOGY BUILDING PROJECT

SUMMARY:

CONTINUED FROM THE PREVIOUS PAGE

Proposals were solicited from firms in the Board approved pool of project special inspection and testing firms. Responses were received from Consolidated Engineering Laboratories, Construction Testing Services Inc., Inspection Services, Inc., Ninyo & Moore, and Terracon. Based on qualifications and price, Construction Testing Services Inc. (CTS) is considered the best value for this project.

The Governing Board is asked to approve a contract to Construction Testing Services Inc. (CTS) in an amount not to exceed \$92,230.

The contract is available online at: <http://www.solano.edu/measureq/planning.php>.

INDEPENDENT CONSULTANT AGREEMENT FOR PROFESSIONAL SERVICES
Special Inspection and Testing for Science and Biotechnology Building

This Independent Consultant Agreement for Professional Services ("Agreement") is made and entered into as of the 16th day of March, 2016 by and between the Solano Community College District, ("District") and Construction Testing Services Inc. (CTS) ("Consultant"), (together, "Parties").

WHEREAS, the District is authorized by section 4525 et seq. of the California Government Code to contract with and employ any persons for the furnishing of architectural, landscape architectural, engineering, environmental, and land surveying services and advice through a "fair, competitive selections process free of conflicts of interest, political contributions, or unlawful activities." (Gov. Code, § 4529.12.)

WHEREAS, the District complied with the requirements of section 4525 et seq. in selecting Consultant; and

WHEREAS, the District is in need of such services and advice related to work it will be performing at District ("Project"); and

WHEREAS, the Consultant is specially trained and experienced and competent to perform the services required by the District, and such services are need on a limited basis;

NOW, THEREFORE, the Parties agree as follows:

Services. The Consultant shall provide **Special Inspection and Testing** services as further described in **Exhibit "A,"** attached hereto and incorporated herein by this reference ("Services").

1. **Term.** Consultant shall commence providing services under this Agreement on May 1, 2016 and will diligently perform as required and complete performance by December 30, 2017, unless this Agreement is terminated and/or otherwise cancelled prior to that time.
2. **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:

<input checked="" type="checkbox"/>	Signed Agreement
<input checked="" type="checkbox"/>	Workers' Compensation Certification
<input checked="" type="checkbox"/>	Insurance Certificates and Endorsements
<input checked="" type="checkbox"/>	W-9 Form
<input type="checkbox"/>	Other: _____

3. **Compensation.** District agrees to pay the Consultant for services satisfactorily rendered pursuant to this Agreement a total fee not to exceed Ninety Two Thousand Two Hundred Thirty Dollars (\$92,230.00). District shall pay Consultant according to the following terms and conditions:

- 3.1. 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. The schedule of deliverable Services to be produced is as follows:

- 3.1.1. _____
- 3.1.2. _____
- 3.1.3. _____
- 3.1.4. _____
- 3.1.5. _____

3.2. 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.

3.3. If Consultant works at more than one site, Consultant shall invoice for each site separately.

4. **Expenses.** District shall not be liable to Consultant for any costs or expenses paid or incurred by Consultant in performing services for District, except as follows:

4.1. Not applicable.

5. **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 Worker's 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.

6. **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.

7. **Performance of Services.**

7.1. **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.

7.2. **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.

7.3. **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.

7.4. **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.

8. **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.
9. **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.
10. **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.

11. Termination.

- 11.1. **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.
- 11.2. **For Cause by District.** District may terminate this Agreement upon giving of written notice of intention to terminate for cause. Cause shall include:
- 11.2.1. material violation of this Agreement by the Consultant; or
- 11.2.2. any act by Consultant exposing the District to liability to others for personal injury or property damage; or
- 11.2.3. 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.

12. **Indemnification.** To the furthest extent permitted by California law, Contractor shall defend, indemnify, and hold harmless the District, its Governing Board, agents, representatives, officers, consultants, employees, trustees, and volunteers (the "indemnified parties") from any and all claims arising out of, pertaining to, or relating to the negligence, recklessness, or willful misconduct of the Contractor. The District shall have the right to accept or reject any legal representation that Contractor proposes to defend the indemnified parties.

13. **Insurance.**

13.1. 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

13.1.1. **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.)

13.1.2. **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.

13.1.3. **Professional Liability (Errors and Omissions).** Professional Liability Insurance as appropriate to the Consultant's profession, coverage to continue through completion of construction plus two (2) years thereafter.

13.2. **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:

13.2.1. 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."

13.2.2. 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.

13.2.3. An endorsement stating that the District and its Governing Board, 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.

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

13.3. **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.

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

15. **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.

16. **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.

17. **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.

18. **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).
19. **Disabled Veteran Business Enterprises.** Pursuant to Education Code section 71028 and Public Contract Code section 10115, the District may have a participation goal for disabled veteran business enterprises (DVBEs) of at least three percent (3%) per year of funds expended each year by the District on projects that use funds California Community College Chancellor's Office. In accordance therewith, the Consultant must submit, upon request by the District, appropriate documentation to the District identifying the good faith efforts the Consultant has taken to solicit DVBE participation in conjunction with this Agreement, if applicable.
20. **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.
21. **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:
 - 21.1. Requesting that District employee(s) evaluate the Consultant and the Consultant's employees and subcontractors and each of their performance.
 - 21.2. Announced and unannounced observance of Consultant, Consultant's employee(s), and/or subcontractor(s).
22. **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.
23. **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.
24. **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:

Solano Community College District
C/O Kitchell CEM
360 Campus Lane Ste. 203
Fairfield, California 94534

ATTN: Brian Bush
Email: brian.bush@solano.edu

Consultant:

Construction Testing Services Inc.
4770 Duckhorn Drive
Sacramento, California 95834

ATTN: Aaren Solis
Email: asolis@cts-1.com

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.

25. **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.
26. **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.
27. **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.
28. **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.
29. **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.
30. **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.
31. **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.
32. **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.
33. **Calculation of Time.** For the purposes of this Agreement, "days" refers to calendar days unless otherwise specified.

34. **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.

35. **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.

36. **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: _____, 20__

Dated: _____, 20__

Solano Community College District

By: _____

By: _____

Print Name: _____

Print Name: _____

Print Title: _____

Print Title: _____

Information regarding Consultant:

License No.: _____

Employer Identification and/or
Social Security Number

Address: 4770 Duckhorn Drive
Sacramento, CA 95834

Telephone: (916) 419-4747

Facsimile: (916) 419-4774

E-Mail: asolis@cts-1.com

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.

Type of Business Entity:

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

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.

- 1.1. **Observation of the Construction.** Consultant shall maintain such personal contact with the Project as is necessary to assure themselves of compliance, in every material respect, with the DSA-approved construction documents. Personal contact shall include visits to the project site by the Consultant or its qualified representative to observe construction.
- 1.2. **Interim Verified Reports.** Consultant shall submit an interim Verified Report (form DSA 6-AE or more current form) to the DSA electronically and a copy to the Project Inspector for each of the applicable nine sections of form DSA 152 prior to the Project Inspector signing off that section of the project inspection card.
- 1.3. **Final Verified Report.** Consultant shall submit Verified Reports (form DSA 6-AE or more current form) to the DSA and to the Project Inspector if any of the following events occur: (1) when construction is sufficiently complete in accordance with the DSA-approved construction documents so that the District can occupy or utilize the Project, (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.

**Exhibit B
FEE SCHEDULE**

ATTACHMENT:

TESTING / INSPECTION WORKSHEET

Test Lab: Construction Testing Services, Inc.

Date: 2/19/16

SAMPLING & TESTING

SOILS, BASE MATERIAL, DRAIN ROCK AND SUB-GRADE

Sampling for all listed soils/base materials (24 pickups)	\$ <u>72</u> per hr
Sample pickup	<u>\$5/each</u>
Moisture/Density Curve (Proctor) for soils/base Materials	\$ <u>72</u> per hr
Moisture/Density Curve (Proctor) for soils/base Materials	\$ <u>150</u> per test
Testing Permeable Drain Rock Material (Per Specifications)	\$ <u>72</u> per hr
Field Compaction Tests	\$ <u>72</u> per hr

CONCRETE

Sampling for each Concrete placement – JOBSITES (8 pickups)	\$ <u>72</u> per hr
Sample pickup	<u>\$5/each</u>
Concrete Moisture Slump Test – JOBSITE	\$ <u>72</u> per hr
Concrete Materials Batch Plant Inspections	\$ <u>72</u> per hr
Concrete Placement Inspection	\$ <u>72</u> per hr
Concrete Cylinder Compression Tests (4 per set)	\$ <u>60</u> per test

MASONRY

Sampling of Mortar/Grout Materials (2 pickups)	\$ <u>72</u> per hr
Sample pickup	<u>\$5/each</u>
Masonry Placement Inspection	\$ <u>78</u> per hr
Mortar/Grout Sample Testing (4 per set)	\$ <u>120</u> per test
CMU Block Compression Test	\$ <u>30</u> per test

PROOF LOAD / TORQUE TESTING

Proof load Testing (JOBSITE)	\$ <u>72</u> per hr
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Torque Testing (JOBSITE) \$ 72 per hr

REINFORCING STEEL

Sampling for Testing of Reinforcing Steel (4 pickups) \$ 72 per hr

Sample pickup \$5/each

Testing of Reinforcing Steel (Tensile and Bend) \$ 100 ea

ID & Tag Loads of Reinforcing Steel \$ 72 per hr

STRUCTURAL STEEL FIELD AND SHOP WELDING

Visual Inspection of Shop Welding \$ 72 per hr

Visual Inspection of Field Welding \$ 72 per hr

SUPERVISION & REPORTS

Review Mix Designs and Welding Procedures NOT TO EXCEED \$ 600

Supervision of Lab and Field Personnel, and Project Coordination NOT TO EXCEED \$ 4,392

Preparation of Test Reports NOT TO EXCEED \$ 200

Final Verified Report (1 for project) NOT TO EXCEED \$ 50

ADMINISTRATIVE & MANAGEMENT

Administrative & Management fees / mark-up NOT TO EXCEED 5 (%)

Minimum Hourly Show-up charge NOT TO EXCEED 4 hours

Mileage Charges \$864

ATTENDANCE AT PRE-CONSTRUCTION MEETING NO CHARGE

Other Charges (Please explain)

Please see attached estimate and fee schedule for basis of charge.

*Steel shop price based on work being done at Golden State Steel in Fowler, CA in one shop and one shift. If work is performed at night a 12.5% differential will be charged.

A 5% project administration 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 Smithgroup dated 2/1/16, DSA-103 Application No. 02-114691 dated 1/20/16, SCCD RFP dated 2/2/16, and Rudolph & Sletten schedule dated 1/19/16.

DATE: 02/19/16
 PROPOSAL No.: P10897
 CLIENT: SOLANO CCD
 PROJECT: SCCD BIOTECHNOLOGY AND SCIENCE BUILDING
 LOCATION: VACAVILLE, CA

ITEM: I ONSITE TESTING & INSPECTIONS	ESTIMATED DAYS	ESTIMATED HOURS	UNIT PRICE	ESTIMATED TOTAL
CONCRETE (IOR to Inspect Rebar per DSA-103)				
FOOTINGS/GRADE BEAMS	5	4	\$72	\$1,440
SLAB ON GRADE	2	8	\$72	\$1,152
METAL DECK CONCRETE	2	4	\$72	\$576
BASE PLATE GROUTING	2	8	\$72	\$1,152
MISC CONCRETE	4	4	\$72	\$1,152
DSA MASONRY				
MASONRY WALL CORING	1	4	\$160	\$640
EPOXY BOLTS/PROOF LOAD	7	4	\$72	\$2,016
FIELD WELDING				
ERECTION/ HIGH STRENGTH BOLTING	10	8	\$72	\$5,760
FIELD WELDING/NDT INSPECTION	7	8	\$72	\$4,032
MISC FIELD WELDING	5	8	\$72	\$2,880
FIREPROOFING				
SUBSTRATE INSPECTION	1	4	\$72	\$288
THICKNESS TESTING/DENSITY SAMPLING	4	8	\$72	\$2,304
ADHESION/COHESION TESTING	2	8	\$72	\$1,152
GEO TECHNICAL SERVICES				
ROUGH GRADING	5	4	\$72	\$1,440
FINE GRADING	1	4	\$72	\$288
UTILITY TRENCH BACKFILL	3	4	\$72	\$864
SITWORK SUBGRADE AND BASEROCK	3	4	\$72	\$864
PAVEMENT SUBGRADE	3	4	\$72	\$864
PAVEMENT BASEROCK	3	4	\$72	\$864
ASPHALT COMPACTION	2	4	\$72	\$576
TRAVEL TIME FOR NUCLEAR GAUGE	20	1.5	\$72	\$2,160
MILEAGE (ROUNDTRIP)	20	80	\$0.54	\$864
<i>Preliminary Sub-Total of On-Site Testing & Inspection (approx.)</i>				\$39,568

ITEM: II OFFSITE TESTING & INSPECTIONS	ESTIMATED DAYS	ESTIMATED HOURS	UNIT PRICE	ESTIMATED TOTAL
STEEL SHOP DAY * (FOWLER, CA)	30	8	\$72	\$17,280
PER-DIEM FOR FOWLER, CA SHOP INSPECTIONS	30	1	\$85	\$2,550
MISCELLANEOUS STEEL	5	4	\$72	\$1,440
BATCH PLANT	15	4	\$72	\$4,320
REBAR SAMPLE & TAG	10	4	\$72	\$2,880
<i>Preliminary Sub-Total of Off-Site Testing & Inspection (approx.)</i>				\$28,470

ITEM: III LABORATORY TESTING & ENGINEERING	ESTIMATED UNITS/HOURS	UNIT PRICE	ESTIMATED TOTAL
CONCRETE COMPRESSION TESTS	180	\$15	\$2,700
REBAR TENSILE/BEND TESTS	30	\$90	\$2,700
GROUT COMPRESSION TESTS	8	\$30	\$240
MORTAR COMPRESSION TESTS	12	\$30	\$360
MASONRY PRECONSTRUCTION PRISMS	5	\$90	\$450
MASONRY PRODUCTION PRISMS	3	\$90	\$270
NON SHRINK GROUT	15	\$30	\$450
HIGH STRENGTH BOLTS ASSEMBLY (Tensile & Hardness)	21	\$110	\$2,310
ANCHOR BOLT TENSION TEST (Tensile & Hardness)	12	\$200	\$2,400
FIREPROOFING DENSITY	39	\$50	\$1,950
FIREPROOFING ADHESION/COHESION	39	\$5	\$195
GRADATION	4	\$90	\$360
PLASTIC INDEX	2	\$175	\$350
SAND EQUIVALENT	1	\$110	\$110
DURABILITY INDEX, COARSE	1	\$275	\$275
DURABILITY INDEX, FINE	1	\$275	\$275
RESISTANCE, R VALUE	1	\$200	\$200
COMPACTION CURVES	5	\$150	\$750
A/C - THEORETICAL MAX DENSITY	2	\$200	\$400
SAMPLE PICK-UPS	381	\$5	\$1,905
WPS REVIEW	2	\$150	\$300
MIX DESIGNS	4	\$150	\$600
INTERIM DSA FINAL LETTER	1	\$50	\$50
DSA FINAL LETTER	1	\$200	\$200
<i>Preliminary Sub-Total of Laboratory Testing & Engineering (approx.)</i>			\$19,800

<i>Preliminary Estimated Fees</i>	\$87,838
<i>Project Administration 5%</i>	\$4,392
Total Preliminary Estimated Fees	\$92,230

* Steel shop price based on work being done at Golden State Steel in Fowler, CA in one shop and one shift. If work is performed at night a 12.5% differential will be charged.
 A 5% 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 Smithgroup dated 2/1/16, DSA-103 Application No. 02-114691 dated 1/20/16, SCCD RFP dated 2/2/16, and Rudolph & Sletten schedule dated 1/19/16.

**2016 FEE SCHEDULE - P10897 2/19/16
PERSONNEL FEES AND BASIS OF CHARGES
INSPECTIONS, ENGINEERING & SPECIAL SERVICES**

	Standard Rate/Hour	Discounted Rate/Hour
* FIELD INSPECTION AND LABORATORY SERVICE		
Steel	\$185.00	\$72.00
Nondestructive - UT, MT, PT	\$190.00	\$72.00
Steel Visual/UT Combination	\$185.00	\$72.00
Concrete ACI	\$185.00	\$72.00
Concrete ICC	\$185.00	\$72.00
DSA Masonry	\$185.00	\$78.00
Fireproofing	\$185.00	
Soil Technician w/Nuclear Gauge and/or Sand Cone (<i>portal-to-portal</i>)	\$185.00	\$72.00
Roofing & Waterproofing	\$185.00	
Specialty Inspector or where formal certification is required	\$185.00	
Field Inspector with Special Enhancement	\$185.00	
Laboratory Technician	\$185.00	
Technician Typist	\$185.00	
**PROFESSIONAL ENGINEERING SERVICES		
Principal Engineer (Civil/Structural)	\$310.00	
Geotechnical Engineer	\$260.00	
Consulting Engineer (Civil/Structural)	\$235.00	
Associate Engineer, Licensed	\$210.00	
Project Manager	\$185.00	
Staff Engineer	\$185.00	
Field Supervision	\$160.00	
ASNT Level III	\$175.00	
Drafting	\$125.00	
Quality Control Manager	QOR	
SPECIAL SERVICES		
Portable and Mobile Laboratories, NDT and Soils	QOR	
* Epoxy Bolt/Expansion Anchor Proof Load Testing	\$185.00	\$72.00
* Coring, 1 Person (including equipment)	\$170.00	
* Coring, 2 Persons (including equipment)	\$220.00	\$160.00
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	\$250.00	
Floor Flatness Testing FF/FL - Equipment Fee \$100/Day	\$250.00	
Measuring Moisture Vapor Emission Rate (Calcium Chloride) - \$30/Kit	\$250.00	ASTM F1869
Ferrosan - Equipment Fee \$100/day	\$250.00	
GPR - Equipment Fee \$100/day	\$295.00	
Administration, Secretarial, Special Projects, Notary, Certified Payroll	\$135.00	
Concrete/Grout/Mortar Mix Design Review (less than 48 hours notice - \$500)	\$300.00	\$150.00
Welding Procedure Review (less than 48 hours notice - \$500)	\$300.00	\$150.00
Welder Qualification Test	\$200.00	
DSA Interim Reports	\$150.00	\$50.00
Geotechnical Pad Letter (less than 48 hours notice - \$500)	\$300.00	
Final Letter (less than 48 hours notice - \$500)	\$300.00	\$200.00
EXPERT WITNESS TESTIMONY		
Court appearance, per day	\$1,160.00	
Court appearance, per half day	\$860.00	

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

**Professional engineering services and laboratory technician services will be billed at actual time.

BASIS OF CHARGES

GENERAL

Fees for tests and inspection include cost of technician, normal equipment and regular reports. Engineering services other than supervisory will be charged at applicable rates. Soils testing with nuclear gauge and/or sand cone equipment may require applicable travel and mileage charges for equipment transport and storage per code (portal to portal). 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	\$25.00/each	
Facsimile Charges. Plus \$1.00/page (n/c for cover page)	\$5.00 minimum	
Wireless Router/Data Card for Jobsite Internet	\$100.00/day	
Parking Fees	At Cost	
Air Travel	Cost Plus 5%	
Outside Services	Cost Plus 20%	
Subsistence (per union contract)	\$85.00/day	
Mileage	Standard Federal Rate	
Sample Pickup	\$15.00/each	\$5.00/each
Weekend Sample Pickup	\$75.00/hour	
Project Administration	5% of Monthly Invoice	
Samples Made by Others: Concrete Cylinders	\$100 + Test	
Samples Made by Others: All Other Tests	\$40 + Test	
Laboratory Sample Witness Fee	\$100.00	
EZ Cure Boxes (Thermostatically Controlled Curing Boxes)	QOR	
Returned Check Fee	\$100.00	

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

For the waiver of subrogation if required by client, a 2% CTS administrative fee will be added to all gross billings/revenue in addition to the 3% fee from State Fund.

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

		Standard Rate/Each	Discounted Rate/Each
CONCRETE			
Compressive Strength of Cylindrical Concrete Specimens (6x12)	ASTM C39	\$60.00	
Compressive Strength of Cylindrical Concrete Specimens (4x8)	ASTM C39	\$60.00	\$15.00
Compressive Strength of Cylindrical Concrete Specimens (Over 8000 PSI)	ASTM C39	\$115.00	
Cylinder molds. 6" x 12" and 4" x 8"	ASTM C470	\$50.00	
Compressive Strength of Lightweight Insulating Concrete	ASTM C495	\$70.00	
Obtaining and Testing Sawed Beams and Drilled Cores of Concrete (Cores)	ASTM C42	\$90.00	
Flexural Toughness of Fiber Reinforced Concrete (Round Panel)	ASTM C1550	\$330.00	
Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	ASTM C78	\$230.00	
Flex Beams per Caltrans Test Methods	CT523 and CT524	\$230.00	
Length Change of Hardened Hydraulic-Cement Mortar and Concrete (Shrinkage, 1 Sample)	ASTM C157	\$110.00	
Shotcrete Nozzleman Qualification Letter (Per Nozzleman, Per Position)	ACI 506, ASTM C42 and C1140	\$330.00	
Shotcrete Pre-Qualification Cores (Compression and Visual)	ACI 506, ASTM C42 and C1140	\$80.00	
Shotcrete Production Cores	ASTM C1140	\$80.00	
Coefficient of Thermal Expansion	AASHTO T336	\$400.00	
Determining Density of Structural Lightweight Concrete (Cylinders)	ASTM C567	\$300.00	
Standard Specification for Concrete Made by Volumetric Batching and Mixing	ASTM C685	\$725.00	
Cement Quality Sampling	CBC 2010	\$500.00	
Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete	ASTM C472	\$40.00	
Splitting Tensile Strength of Cylindrical Concrete Specimens	ASTM C496	\$190.00	
Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	ASTM C469	\$170.00	
Grab Sample, Sealing and Storing in a Humidity and Temperature Controlled Room	CBC	\$110.00	
Density of Hydraulic Cement	ASTM C188	\$145.00	
Testing of Controlled Low Strength Material (CLSM) Test Cylinders	ASTM D4832	\$110.00	
GFRC Pull Test	PCI	\$280.00	
GFRC Flexural Test	PCI	\$280.00	
Foaming Agents for Use in Producing Cellular Concrete Using Preformed Foam (Cell-Crete)	ASTM C796	\$65.00	
MASONRY			
Compressive Testing of Grout (Masonry)	ASTM C1019	\$90.00	\$30.00
Compressive Strength of Hydraulic Cement Mortars Using 2" Cube Specimens	ASTM C109	\$90.00	\$30.00
Compressive Strength of Masonry Prisms	ASTM C1314	\$135.00	\$90.00
Testing Concrete Masonry Units and Related Units (Core Compression)	CBC 2105A.4	\$135.00	
Compressive Strength of Molded Masonry Mortar Cylinders and Cubes (2" Sample)	ASTM C780 A7.6	\$90.00	\$30.00
Testing Concrete Masonry Units (CMU) and Related Units (Full Unit)	ASTM C140	\$135.00	
Linear Drying Shrinkage of Concrete Masonry Units (Per Unit)	ASTM C426	\$200.00	
Masonry Core Shear Testing	CBC 2105A.4	\$200.00	
Testing Concrete Masonry Units (Absorption, Moisture Content, Unit Weight)	ASTM C140	\$250.00	
Brick and Clay Tile (modulus of rupture, compression, saturation coefficient, suction rate, efflorescence)*	ASTM C67	\$750.00	
Mortar Molds. 2" x 4". Single Use		\$90.00	
Mortar or Grout, Stored and Cured, Not Tested (Including Mold)		\$90.00	
AGGREGATES (SOILS AND CONCRETE)			
Determining Sieve Analysis of Fine and Coarse Aggregates (Coarse Only)	CT202/ASTM C136	\$165.00	\$90.00
Sieve Analysis of Fine and Coarse Aggregates (Fine Only)	CT202/ASTM C136	\$220.00	
Sieve Analysis of Fine and Coarse Aggregates (Wash Included)	CT202/ASTM C117	\$275.00	
Sieve Analysis of Fine and Coarse Aggregates (200 Wash Only)	ASTM C117	\$165.00	
Evaluating Cleanness of Coarse Aggregate	CT227	\$275.00	
Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88/CT214	\$200.00	
Unit Weight of Aggregate	CT212	\$135.00	
Clay Lumps and Friable Particles in Aggregates	ASTM C142	\$160.00	
Flat Particles, Elongated Particles or Flat and Elongated Particles in Coarse Aggregate	ASTM D4791/CT235	\$275.00	
Organic Impurities in Fine Aggregates for Concrete	CT213/ASTM C40	\$250.00	
Density, Relative Density(Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127/CT206	\$250.00	
Density, Relative Density(Specific Gravity), and Absorption of Fine Aggregate	ASTM C128/CT207	\$250.00	
Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131(535) and C211	\$400.00	
Percentage of Crushed Particles/Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	ASTM D5821/CT205	\$300.00	
Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)	ASTM C1252/AASHTO T304A	\$300.00	
Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419/CT217	\$200.00	\$110.00
Durability Index (Fine)	ASTM D3744/CT229	\$300.00	\$275.00
Durability Index (Coarse)	ASTM D3744/CT229	\$300.00	\$275.00
Durability Index (Fine and Coarse)	ASTM D 3744/CT229	\$315.00	
Lightweight Particles in Aggregate	ASTM C123/AASHTO T113	QOR	
Resistance of Rock to Wetting and Drying	CRD-C169	\$440.00	

*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	\$400.00	
Caltrans Corrosivity Package		\$375.00	
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	\$440.00	
Pore Water Extraction and Determination of the Soluble Salt Content of Soils by Refractometer	ASTM D4542	\$465.00	
Standard Test Method for Particle-Size Analysis of Soils (without Hydrometer)	ASTM D422	\$400.00	
Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D4318/CT204	\$300.00	\$175.00
Laboratory Compaction Characteristics of Soil Using Modified/Standard Effort	ASTM D1557/D698	\$375.00	\$150.00
Hydrometer Only	ASTM D422	\$400.00	
pH of Soils	ASTM D4972	\$350.00	
Relative Compaction of Untreated and Treated Soils and Aggregates	CT216	\$440.00	
Determining the Resistance "R" Value of Treated and Untreated Bases, Subbases, and Basement Soils by the Stabilometer	ASTM D2844/CT301	\$440.00	
Laboratory Determination of Water(*moisture) Content of Soil and Rock by Mass	ASTM D2216/CT226	\$110.00	
Density of Soil in Place by the Drive-Cylinder Method	D2937	\$85.00	
Expansion Index of Soils	ASTM D4829	\$300.00	
Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter (Permeability)	ASTM D5084/CT220	\$410.00	
Lab Compaction Characteristics of Soil 1 Point Proctor (Check Point)	ASTM D698/D1557	\$250.00	
Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	ASTM D4253	\$210.00	
Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	ASTM D4254	\$210.00	
Density of Hydraulic Cement	ASTM C188	\$190.00	
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	\$400.00	
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	\$200.00	
Universal Soil Classification System (USCS) Test	ASTM D2487	\$220.00	
California Bearing Ratio Test	ASTM D1883	\$275.00	
Unconfined Compressive Strength of Cohesive Soil	ASTM D2166/CT221	\$140.00	
ASPHALT			
Quantitative Extraction of Bitumen from Bituminous Paving Mixtures (Solvent)	ASTM D2172/CT310	\$550.00	
Determining Low Temperature Performance Grade (PG) of Asphalt Binders	ASTM 6816	QOR	
Thickness/Height of Compacted Bituminous Paving Mixture Specimens (Cores)	ASTM D3549/CT308	\$200.00	
Method of Prep of Bituminous Mixture Test Specimens	ASTM D6926/CT304	\$200.00	
Bulk Specific Gravity and Density of Compacted Bituminous Mixtures (LTMD)	ASTM D1188 and D2726/CT308	\$750.00	
Indirect Tensile (IDT) Strength of Bituminous Mixtures (TSR)	ASTM D6931/CT371	QOR	
Mechanical Size Analysis (Coarse and Fine) of Extracted Aggregate	ASTM D5444/CT202	\$300.00	
Marshall Stability and Flow of Bituminous Mixtures	ASTM D6927	\$750.00	
Theoretical Maximum Specific Gravity and Density (Rice)	ASTM D2041/CT309	\$300.00	\$200.00
Measuring the Permeability of Bituminous Pavements and Seal Coats	CT341	QOR	
Swell of Bituminous Mixtures	CT305	\$275.00	
Moisture Vapor Susceptibility of Bituminous Mixtures/Moisture or Volatile Distillates in Asphalt Stabilometer Value (1 sample)	ASTM D1461/CT307	\$700.00	
Determination of Asphalt Content of Bituminous Paving Mixtures by the Ignition Method	CT366	\$275.00	
Determination of Correction Factor of Bituminous Paving Mixtures by the Ignition Method	CT382/ASTM D6307	\$300.00	
Determination of Asphalt and Moisture Contents of Bituminous Mixtures by Microwave Oven	CT382/ASTM D6307	\$300.00	
Determination of Asphalt and Moisture Contents of Bituminous Mixtures by Microwave Oven	CT370	\$300.00	
Effect of Water on Compressive Strength of Compacted Bituminous Mixtures (Set of 6)	ASTM D1075	\$2,500.00	
Compressive Strength of Bituminous Mixtures	ASTM D1074	\$200.00	

* 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



		Standard Rate/Each	Discounted Rate/Each
MATERIALS MECHANICAL TESTS			
Mechanical Testing of Steel Products (General Tensile)	ASTM A370	\$350.00	
Fillet Weld Break Test for Qualification (Welding)	AWS B4.0	\$150.00	
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	\$350.00	
Mechanical Testing of Steel Products (Couplers)	ASTM A370	\$350.00	
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	\$250.00	
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #3-#8	ASTM A370 and E290	\$275.00	\$90.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #9-#11	ASTM A370 and E290	\$330.00	
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	ASTM A370, A82 and A185	\$330.00	
Guided Bend Test for Ductility of Welds, Mechanical Testing of Welds	ASTM E190 and AWS B4.0	\$200.00	
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Anchor Bolts Only (Tension and Yield)	ASTM F307, F1554 and F606	\$395.00	\$200.00
Rockwell Hardness of Metallic Materials	ASTM E18	\$110.00	
Proof Test for Carbon and Alloy Steel (Nuts Only)	ASTM A194 or A563	\$250.00	
Radiographic Examination of Metallic Castings/Weldments	ASTM E94, E1030 and E1032	QOR	
Macroetching Metals and Alloys	ASTM E340, E381 and AWS	\$250.00	
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets (HSB Assemblies)	ASTM F606	\$275.00	\$110.00
Mechanical Testing of Steel Products (Terminators Tensile)	ASTM A370	\$275.00	
Strength for Sewn or Bonded Seams of Geotextiles	ASTM D4884	\$250.00	
Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure	ASTM D2261	\$250.00	
Breaking Strength and Elongation of Textile Fabrics (Grab Test)	ASTM D5034	\$200.00	
Tensile Properties of Fiber Reinforced Polymer Matrix Composite Bars	ASTM D3039	\$750.00	
Steel Strand, Uncoated Seven-Wire for Prestressed Concrete	ASTM A416 and A1061	\$1,100.00	
FIREPROOFING			
Thickness and Density of Sprayed Fire-Resistive Material (SFRM)	ASTM E605	\$200.00	\$50.00
Cohesion/Adhesion of Sprayed Fire-Resistive Materials (Test Kit Only)	ASTM E736	\$55.00	\$5.00
CONTACT INFORMATION			
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