



CHABOT  
LAS POSITAS  
COMMUNITY COLLEGE DISTRICT

Proposal to Provide DSA Approved Testing and Inspection Lab  
Chabot College, Library and Learning  
Connection Center, B21/22-04



CONSTRUCTION  
TESTING SERVICES

**Submitted By:**  
**Construction Testing Services, Inc.**  
2118 Rheem Drive (LEA 151)  
Pleasanton, CA 94588  
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[www.cts-1.com](http://www.cts-1.com)

**Submitted On:**  
October 22, 2021

**Submitted To:**  
Attn: Marie Hampton, Purchasing Manager  
Chabot-Las Positas Community College  
7600 Dublin Blvd., 3<sup>rd</sup> Floor, Dublin, CA 94568



Proposal to Provide DSA Approved Testing  
and Inspection Lab



**Chabot College, Library and Learning  
Connection Center, B21/22-04**

October 22, 2021

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October 22, 2021

Attn: Marie Hampton, Purchasing Manager  
Chabot-Las Positas Community College  
7600 Dublin Blvd, 3rd Floor  
Dublin, CA 94568

**RE: Proposal to Provide DSA Approved Testing and Inspection Lab Library and Learning Connection Center B21/22-04 for Chabot-Las Positas CCD, Hayward, CA – CTS Proposal No. P20590**

Dear Ms. Hampton and District Team:

As the District prepares to facilitate the project Library and Learning Connection Center at Chabot College, the District team will need to select a firm it can trust to help achieve their project objectives. For the past 27 years, our firm has provided testing and inspections for various community college districts, including CLPCCD. Our **LOCAL** team strives to give our clients everything their projects' need – from flexibility in scheduling inspections, certified inspectors to exceptional communication and budgeting in our project management efforts.

We offer the District the following as your testing and special inspections firm of choice:

- ☑ **Proximity and Local Presence.** Services on this contract will be performed at our DSA-accredited laboratory and corporate office in Pleasanton (2118 Rheem Drive, Pleasanton, CA – **LEA 151**), with inspections performed by more than 40+ local inspectors living throughout the area who can be readily available to provide services.
- ☑ **Firm Size and Qualifications.** CTS' 250+ member staff include registered civil and geotechnical engineers, lab technicians, DSA-certified multi-disciplined special inspectors, offsite batch plant inspectors, rebar sample and tag inspectors, as well as steel shop inspectors. CTS' labs are regularly reviewed and accredited by DSA, CCRL, USACE and AASHTO as well as other agencies; our civil and geotechnical engineers are registered with the State of California and our inspectors hold certifications with DSA, AWS, ICC, ACI, NICET and ASNT.
- ☑ **Experienced Project Management.** Your dedicated project manager, Mr. Brian Joyce, has over 20 years of experience in the construction industry. He has managed numerous projects for K-12 and community college districts and is familiar with the needs associated with these contracts. He will be prepared to help implement this contract, immediately, to provide services to support the current procurement and construction schedule.
- ☑ **Community College and DSA Project Expertise.** Our proposed DSA focused team has successfully provided work for community college districts including CLPCCD for the Measure B Bond Program as well as with other Districts. Some of our projects include *Las Positas College Performing Arts Center, Las Positas College Public Safety Center, Solano CCD Building 700/800 Annex, San Joaquin Delta College Cunningham Math and Science Building, Contra Costa CCD Gym Annex Building and Solano Community College Biotechnology and Science Building, Increment 2*. CTS has also provided services on various projects and on-call contracts with the following Districts: *Ohlone CCD, Contra Costa CCD, West Valley Mission CCD, Peralta CCD, San Joaquin Delta CCD, San Mateo CCCD, West Hills CCD, San Jose Evergreen CCD, Yuba CCD, Solano CCD and City College of San Francisco*. Through this experience, we are highly familiar with construction under DSA regulations and have an abundance of experience working under the direction of the IOR.

Your contact for this proposal is Mrs. Aaren Solis, Vice President. She can be reached directly at 925.250.8462 (cell) or via email at [asolis@cts-1.com](mailto:asolis@cts-1.com) (address: 2118 Rheem Drive, Pleasanton, CA 94588). Both Mrs. Solis and Mr. Greenan are authorized to sign contracts on behalf of the firm.

CTS acknowledges receiving Addendum No. 1 on October 18, 2021.

We look forward to working with Chabot-Las Positas CCD on your upcoming project.

Regards,

Patrick Greenan, PE  
President/Principal-in-Charge

Brian Joyce  
DSA Project Manager







**Proposed Key Personnel**

The following is a listing of CTS' project team and availability of resources, including qualifications and specific project role. Detailed resumes for each staff member can be found on the following pages in this section.

CTS Team Member & Role	Qualifications	Availability
<b>Brian Joyce</b> <i>DSA Project Manager</i>	Mr. Joyce has 20 years of experience in the construction industry. His background includes over 13 years of experience as a safety manager in the construction industry.	60%
<b>Dan Ventura, PE</b> <i>DSA Engineering Manager</i>	<ul style="list-style-type: none"> <li>• Professional Engineer, State of California, No. C81280</li> <li>• ACI Concrete Laboratory Testing Technician – Level 1</li> <li>• ACI Concrete Strength Testing Technician</li> <li>• ACI Concrete Field Testing Technician – Grade 1</li> <li>• ACI Aggregate Base Testing Technician</li> <li>• ACI Aggregate Testing Technician – Level 1</li> </ul>	30%
<b>Brad Quon, GE</b> <i>Geotechnical Engineer of Record</i>	<ul style="list-style-type: none"> <li>• Professional Engineer, State of California, No. C62900</li> <li>• Geotechnical Engineer, State of California, No. 2841</li> <li>• ACI Aggregate Testing Technician – Level 1, No. 01165517</li> <li>• ACI Aggregate Base Testing Technician, No. 01165517</li> <li>• ICC Soils Special Inspector, No. 8144930</li> <li>• U.S. Army Corps of Engineers Contractor Quality Control</li> <li>• Concrete Masonry Testing Technician, CMTT 6205</li> <li>• F-Number Measurement using the Dipstick Floor Profiler</li> <li>• CPN Radiation Safety Officer</li> <li>• CPN Radiation Safety &amp; Use of Nuclear Gauges</li> <li>• Geopier Soil Reinforcement Technical Training</li> </ul>	30%
<b>Ron Harr</b> <i>Field Supervisor/DSA Masonry Inspector</i>	<ul style="list-style-type: none"> <li>• ICC Structural Steel and Welding</li> <li>• ICC Reinforced Concrete; ICC Structural Masonry</li> <li>• ICC Prestressed Concrete</li> <li>• ACI Concrete Field Testing Technician – Grade I</li> <li>• DSA Shotcrete</li> <li>• DSA Masonry</li> </ul>	50%
<b>Ryan Gouthro</b> <i>Multi-Disciplined Inspector</i>	<ul style="list-style-type: none"> <li>• Nuclear Radiation Certification of Soil Gauges</li> <li>• ACI, Concrete Field Testing Technician, Grade I</li> <li>• ACI, Masonry Field Testing Technician</li> <li>• ICC, Special Inspector, Prestressed Concrete</li> <li>• ICC, Special Inspector, Reinforced Concrete</li> <li>• ICC, Special Inspector, Structural Masonry</li> <li>• Caltrans 504, 518, 539, 540, 543, 556, 557</li> </ul>	100%
<b>Gary Stoppenbrink</b> <i>Welding and NDT Technician</i>	<ul style="list-style-type: none"> <li>• AWS/CWI</li> <li>• NDT Level II Ultrasonic Testing Inspector (UT)</li> <li>• NDT Level II Magnetic Particle Inspector (MT)</li> </ul>	100%
<b>Donald Shirley</b> <i>Multi-Disciplined Special Inspector/Rebar Sample and Tag</i>	<ul style="list-style-type: none"> <li>• ICC Structural Steel and Welding</li> <li>• ICC Reinforced Concrete</li> <li>• ICC Structural Masonry</li> <li>• ICC Prestressed Concrete</li> </ul>	80%





	<ul style="list-style-type: none"> <li>• ACI Concrete Field Testing Technician, Grade I</li> <li>• ACI Adhesive Anchor Installation Inspector</li> <li>• Nuclear Gauge Operator</li> </ul>	
<b>Daryl Spieker</b> <i>Multi-Disciplined Special Inspector</i>	<ul style="list-style-type: none"> <li>• ICC Reinforced Concrete</li> <li>• ICC Prestressed Concrete</li> <li>• ACI, Concrete Field Testing Technician, Grade I</li> <li>• Nuclear Gauge Operator</li> </ul>	80%
<b>Tony Perez</b> <i>Concrete Batch Plant Inspector</i>	<ul style="list-style-type: none"> <li>• ICC Structural Steel and Bolting</li> <li>• ICC Structural Masonry</li> <li>• ICC Prestressed Concrete</li> <li>• ICC Reinforced Concrete</li> <li>• ICC Structural Welding</li> <li>• ICC Fireproofing</li> <li>• ACI Concrete Field Testing Technician, Grade I</li> <li>• Nuclear Density Gauge Radiation Safety/Operation</li> </ul>	80%
<b>Mary Cabrales</b> <i>Multi-Disciplined Special Inspector</i>	<ul style="list-style-type: none"> <li>• ICC Structural Steel and Welding</li> <li>• ICC Masonry</li> <li>• ICC Reinforced Concrete</li> <li>• ICC Spray-Applied Fireproofing</li> <li>• ACI Concrete Field Testing Technician, Grade I</li> <li>• Nuclear Gauge Operator</li> </ul>	70%
<b>Brian Arnold</b> <i>ASNT NDT Level III and Field and Steel Shop Supervisor</i>	<ul style="list-style-type: none"> <li>• AWS/Certified Welding Inspector</li> <li>• NDT, Level III – Ultrasonic and Magnetic Particle</li> <li>• ICC Master of Special Inspection</li> <li>• ICC Prestressed Concrete</li> <li>• ICC Reinforced Concrete</li> <li>• ICC Spray-Applied Fireproofing</li> <li>• ICC Masonry</li> <li>• ICC Structural Steel and Bolting</li> <li>• ICC Structural Welding</li> <li>• ACI Concrete Field Testing Technician, Grade I</li> <li>• Nuclear Gauge Operator</li> </ul>	60%
<b>TBD</b> <i>Steel Shop Inspectors</i>	<ul style="list-style-type: none"> <li>• Based on structural steel fabricated at location with 100 mile radius of jobsite, BRB and misc. metals/stairs shops TBD</li> </ul>	100%
<b>100+ additional Multi-Disciplined Special Inspectors</b>	<ul style="list-style-type: none"> <li>• ICC</li> <li>• DSA</li> <li>• AWS</li> <li>• ACI</li> <li>• NDT</li> <li>• Nuclear Density Gauge Operator</li> </ul>	80-100%







### Related Project Experience with References

Below are CTS's five (5) more recent projects of similar size and scope, including references:



#### **San Joaquin Delta College, Cunningham Math and Science Building, Stockton, CA**

**Owner/Owner Rep.:** Kitchell CEM c/o San Joaquin Delta Community College District/Martha Estrada, 530.632.3406  
(Martha is now with San Juan USD)

**Brief Description:** The new 100,000 sf Cunningham building is envisioned as a large science and math complex with

cutting-edge technology and a modern, open design that is much different than the cramped corridors and busy laboratories of the existing structure. The 3-story structure houses dry labs on the first floor, wet Biology labs on the second floor, and Chemistry labs on the third floor with offices, labs, and classrooms on each floor for each discipline. The labs wrap around a central service core consisting of tech offices, lab prep. rooms and lab storage rooms. CTS is providing materials testing and inspection services on this project. CTS' scope includes soils testing and observation of earthwork activities; observations of roofing, fireproofing, masonry, concrete and rebar placement as well as steel shop and field welding inspections.

**Scope of Services:** CTS provided observations of masonry, concrete and rebar placement as well as soils testing and observation of earthwork activities and steel shop and field welding inspections.

#### **San Mateo County Community College District, Canada College Science and Technology**



#### **Buildings B23 Increment 1 & 2, Redwood City, CA**

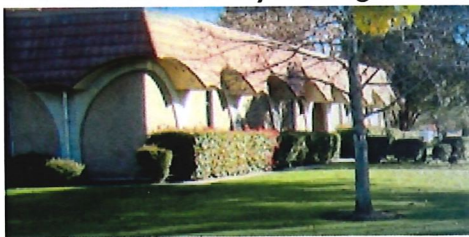
**Owner/Owner's Rep:** San Mateo County Community College District, Sajid Sulaiman, 650.208.8359

**Brief Description:** The new 50,000 sf building will provide a modern instructional facility for lab sciences and technology. Along with the adjacent plaza, the building will draw students to the north end of the central circulation corridor of the campus. Building 23 is being designed with energy conservation measures and components, to receive LEED Gold Certification, and is envisioned to be a

magnet to draw students, staff and visitors, to the north end of the campus.

**CTS Scope of Services:** CTS was the firm of choice to provide all testing and inspection services for this project including concrete placement, epoxy bolts/proof load, field and shop steel welding and batch plant inspections.

#### **Solano Community College District, Biotechnology and Science Building, Increment 1 & 2, Fairfield, CA**



**Owner/Owner Rep.:** Solano Community College District c/o Kitchell CEM, Jason Yi, 707.864.7000

**Brief Description:** The new construction consists of approximately 33,000 square feet of space on a single floor. The new building will tie into the existing building to promote interaction among the students and will have a Biotechnology Suite consisting of 4 laboratories with anterooms, prep

spaces, clean rooms and a viewing gallery. Also included are 2 Biology Labs with a connecting prep space, an Anatomy Lab for both dry and wet work areas and storage, a Chemistry Lab with storage and prep spaces, faculty offices and student interactive spaces. The Building will be constructed on the North end of the existing Vacaville Center Classroom Building. Demolition of certain site work, concrete drive aisles and walks including trees and plantings will be included in this project. Infrastructure and utilities will tie into existing onsite services as well as a joint trench from North Village Parkway. An emergency generator will be installed to serve the building during times of power interruptions. Increment 2 scope includes civil, structural, architectural, fire protection, plumbing, mechanical, and electrical for the new teaching facility.

**Scope of Services:** CTS' scope of work includes material identification, rebar sampling, observation of concrete batch plant operations, concrete sampling, rebar sample and tag, reviewing welder qualifications, observing welding in progress, soil compaction testing, and UT testing.





**San Mateo County Community College District, Skyline College B12N Environmental Sciences Building, San Mateo, CA**

**Owner/Owner Rep.:** San Mateo Community College District, Jose Nunez, 650.358.6836

**Brief Description:** The SKY B12 New Environmental Science Building (“Project”) is a public works project on the District’s Skyline College. The project generally consists of a new 21,000sf building including 2 lecture halls, 2 classrooms, catering kitchen,

gathering space for 290 people, outdoor learning environment, glass expansive west facing views with minimum obstructions and geoechange, heat recovery system.

**Scope of Services:** CTS is performing all testing and inspection services including concrete, masonry, grout, coring, GFRC, onsite and offsite welding, batch plant, rebar sample and tag, masonry sample and tag and all required laboratory testing per DSA requirements.



**Solano Community College District, Horticulture and Plant Science Institute, Fairfield, CA**

**Owner/Owner Rep.:** Solano Community College District c/o Kitchell CEM, Brian Bush, 408.710.5093

**Brief Description:** This is a Design-Bid-Build project to provide improvements to the Horticulture site. The project consists of extensive infrastructure improvements including; water, sewer, electrical, and gas utilities along with new concrete, AB, and AC

surfaces to be run from existing locations to those shown on the plans. Two (2) new buildings are planned to be constructed on the site for use by the horticulture staff and the public.

**Scope of Services:** CTS performed geotechnical engineering, special inspections and material testing services including soils, concrete, epoxy bolts/wedge anchors/proof load, onsite and offsite welding, high strength bolting, batch plant, rebar sample and tag and all required laboratory testing per DSA requirements.

**Size and Location(s) of Firm**

Founded in 1994, **Construction Testing Services (CTS)** has provided full service special inspection, material testing and engineering for nearly \$30 billion in construction, ranging from transportation and site work to water resource projects, K-12 schools and universities to laboratories and hospital facilities, civic centers and libraries to corporate office campuses, and hotels and parking structures to police and fire stations.

CTS’ 280+ member staff includes licensed engineers, inspectors and technicians who are experienced in all types of construction. Our proactive, budget-conscious management style will help you monitor your project for cost effectiveness while covering all aspects of required inspections per approved plans and specifications; city and county, state and special district rules and regulations; and applicable California Building Code (CBC) requirements. *We specialize in construction services that require resident inspectors who are multi-disciplined in more than one construction technique.*

**Office Locations**

CTS has seven (7) office locations from which to serve our clients’ project needs. Services on your contract will be performed at our corporate office and full service, accredited laboratory in Pleasanton.

**LOCAL Headquarters and Full-Service, Accredited Laboratory (LEA 151)**

2118 Rheem Drive (within 20 miles from the Chabot campus)

Pleasanton, CA 94588

Telephone: 925.462.5151

Fax: 925.462.5183





### Other office locations

San Jose, Oakland, San Francisco, Rocklin (includes full-service lab LEA 247), Stockton and Las Vegas, NV.

### Years in Operation

27 years

### Professional and Technical Staff Size/Resources

CTS' 250+ member staff includes licensed engineers qualified through the State Board of Registration for Professional Engineers and project managers and special inspectors who are multi-disciplined. On the operations side, CTS offers staff engineers, laboratory managers and quality control managers who are familiar with the characteristics of new construction, application of plans and specifications and are well-versed in California Building Code (CBC) under International Building Code (IBC) Sections 1701 and 1703, "Guidelines for Special Inspection in Construction." Many of CTS' staff members have been with the firm since its inception. On average, our employees have been with us for approximately ten years.

#### *Following is CTS personnel shown by type and position:*

Principal-in-Charge – 1  
Civil Engineers – 7  
Geotechnical Engineers – 2  
Project Managers – 12  
Staff Engineers – 10  
Field Supervisors – 3  
Laboratory Technicians – 10  
Soils/Geotechnical Technicians – 36  
Senior Level Special Inspectors – 48  
Special Inspectors - 75  
Administration – 24  
Interns – 5

#### *Qualifications, Certifications and Capabilities*

- **Our inspectors and technicians are certified by:**
  - International Code Council (ICC)
  - American Welding Society (AWS)
  - American Society for Nondestructive Testing (ASNT)
  - American Concrete Institute (ACI)
  - Division of State Architect (DSA)
  - Caltrans
  - U.S. Army Corps of Engineers (USACE)
  - Office of Statewide Health Planning and Development (OSHPD)
- **Our laboratories are regularly reviewed and accredited by:**
  - Special Inspection Committee of the International Code Council (ICC)
  - Cement and Concrete Reference Laboratory (CCRL)
  - Division of State Architect (DSA)
  - American Association of State Highways and Transportation Officials (AASHTO)
  - U.S. Army Corps of Engineers (USACE)
  - Caltrans
  - International Accreditation Service (IAS)
  - OSHPD Preapproved Agency (OPAA)
- **Engineering specialists:**
  - Registered and experienced civil engineers
  - Registered and experienced geotechnical engineers
  - Quality Control Program

### Professional Registrations

**Patrick Greenan, PE, President/Principal-in-Charge**  
Registered Civil Engineer, CA, No. C57299, 1997  
**Bradford Quon, GE, Senior Project/Geotechnical Engineer**  
Registered Geotechnical CA, No. 2841, 2009 and Civil Engineer CA, No. C62900, 2002  
**Dan Ventura, PE, Associate Engineer**  
Registered Engineer, California, No. C81280, 2013  
**Andrew Poelvoorde, PE, QSD, Associate Engineer**  
Registered Engineer, California, No. C86532, 2016  
**Dan Ventura, PE, Associate Engineer**  
Registered Engineer, California, No. C81280, 2013  
**John Harms, PE, Associate Engineer**  
Registered Engineer, California, No. C89209, 2018



*Firm Members' Certifications*

Certification Type	No. of Staff Certified
ICC Master of Special Inspection	8
ICC Prestressed Concrete	40
ICC Reinforced Concrete	47
ICC Structural Masonry	41
ICC Structural Steel and Welding	28
ICC Structural Welding	20
ICC Structural Steel and Bolting	26
ICC Spray-applied Fireproofing	30
ICC Soils	7
AWS Certified Welding Inspector	34
NDT Level I – Ultrasonic, Magnetic Particle and Dye Penetrant and Radiographic	26
NDT Level II – Ultrasonic, Magnetic Particle and Dye Penetrant and Radiographic	20
NDT Level III – Ultrasonic, Magnetic Particle, Dye Penetrant and Radiographic	1
ACI Field Testing Technician, Grade I	83
NACE Level II Coating Inspection	2
Caltrans	18
USACE, Construction Quality Management for Contractors	6
Transportation Worker Identification Credential (TWIC)	4
Asbestos Safety Training	2
Nuclear Gauge Operators	62

**Full-Service Testing Laboratories**

**Construction Testing Services (CTS)** maintains and operates three fully accredited, full-service laboratories, located in Pleasanton and Sacramento, Calif. and Las Vegas, Nevada. An independent testing laboratory, we have the experience and capability to conduct testing and inspecting for all materials involved in the construction of your concrete DSA structure, including concrete, steel and bolt testing addressing various requirements of American Society for Testing and Materials (ASTM) and DSA. *All testing under this contract will be performed at our DSA/Caltrans/CCRL/IAS/U.S. Army Corps-accredited headquarters laboratory, located at 2118 Rheem Drive, Pleasanton, CA (LEA 151), which is located within 20 miles of the Chabot campus. CTS will not charge travel time and mileage to and from the jobsite due to the proximity.*

Laboratory Qualifications

Laboratory Name: Construction Testing Services

Address: 2118 Rheem Drive, Suite A

Zip: 94588

City: Pleasanton

Phone: (925) 462-5151

Acceptance/Renewal Date: 01/08/2018

Expiration Date: 01/08/2022

Engineering Manager (EM): Dan Ventura

NDT Level III Administrator: Brian Arnold

Email: dventura@cts-1.com

Laboratory Supervisor(s): James Peters

Field Supervisor(s): Ron Harr

**Structural Test Qualifications**

- Soils
- Concrete
- Structural Steel
- Aggregates
- Shotcrete
- High Strength Bolts
- Reinforcing Steel
- Structural Masonry
- Non Destructive (NDT)
- Post Installed Anchors
- Other: Fiber-Reinforced Polymer (FRP), Roofing

**Special Inspection Qualifications**

- Earthwork
- Shotcrete
- High Strength Bolting
- Reinforced Concrete
- Structural Masonry
- Spray-Applied Fireproofing
- Prestressed Concrete
- Structural Welding
- Batch Plant (Continuous)
- Post Installed Anchors
- Other: Fiber-Reinforced Concrete





*Around the Clock Testing Capabilities*

**CTS runs second and third shifts in our laboratory, 15 hours a day, and has more than 160 certified technicians who are qualified to handle your project, provide around-the-clock sampling, and early concrete breaks to meet the testing needs of this project.** In addition, we are prepared to accommodate first and second shift inspections as well as Saturday pours and specialized testing. We are confident in our ability to producer timely and accurate results and are prepared to dedicate the inspections and testing staff required to meet your project objectives. We also lab rush services!

**Laboratory Equipment**

CTS' laboratories are fully equipped to perform materials testing including rebar tensile and bend tests, high strength bolt assembly tests, concrete, masonry and soils. Below is a sampling of CTS' \$2M inventory of lab equipment:

10 Water Tank Temperature Recorders	1 INSTRON 1000 HDX Universal Machine
6 Concrete Compression Machines	3 Cal 216 Compaction Apparatus
7 Temperature Chart Recorder	110 Sieves
1 Themo-Humidigraph	5 Sieve Shaker
50 Concrete Cylinder Single Use Molds	28 Nuclear Gauges (ASTM & Caltrans)
50 Humboldt Brass Cube Molds	4 Sand Equivalent Shakers
30 Reusable Flexural Molds	3 Wash Vessel
20 Reusable Shrinkage Molds	3 Durability Index Apparatus
10 Reusable 2-in Cube Molds	10 Liquid Limit Devices
4 Sulphur Capping Compound	10 Sample Splitters
20 Unbonded Caps	4 Behlen Country Tanks
5 Vertical Cylinder Capper	3 Ideal Holding Tanks
120 Slump Cones & Tamping Rods	3 HW Tank
12 Unit Weight Equipment	4 Chop Saw
12 Air Content (Volumetric Method)	4 GPR's
12 Air Content (Pressure Method)	3 Floor Flatness Dipstick 2272
6 Reference Thermometers	3 6 inch Caliper
12 Digital Scale	4 Time Clock
2 Platform Scales	6 Digital Thermometer
2 Hi-Lo Alert Probe Thermometers	2 30 Ton Ram
14 Digital Fractional Caliper	5 Dual 5 Ton Ram
4 Feeler Gauge	6 Single 10 Ton Ram
3 Micrometer	17 Torque Wrench
3 Sling Psychrometer	5 Automatic Hammer
2 Infrared Thermometers	8 Lab Ovens
3 Press-Aire Meter	3 Melting Pot and 3 Sulfur Pot
2 Comparator	2 Extensometers
2 Hamburg Wheel	10 Tank Heaters
2 Gyrotory Compactor	2 Shrinkage Reference Bars
1 R-Value Machine	1 United Compression Machine



**CTS also has an INSTRON 1000 HDX Universal Machine** that will be used to perform rebar tensile and bend tests as well as high strength bolts tests for your project. This machine is designed for high-capacity tension, compression, bend/flex, and shear testing, the 1000HDX Model is powered by a hydraulic pumping system that moves a piston assembly to provide the forces necessary for testing. These services can be performed in-house with precision and timely and accurate results.







CTS understands that project will start in December 2021 and will take approximately 620 calendars days from the NTP. At this time, CTS has reviewed the schedule from R&S provided in addendum, data date September 3, 2021, as well as the durations provided. Our team is prepared to cover all offsite fabrication facilities which have not been determined at the time of bid (structural steel, miscellaneous metals and BRBs). CTS will provide a resident inspector onsite to cover all services of the library and learning connection center (B100) for both increment 1 and 2. Increment 1 will include the underground work and soil stabilization, while increment 2 will cover the above-ground work including the new 4-story building.

CTS' proposed staff includes licensed engineers qualified through the State Board of Registration for Professional Engineers and project managers and special inspectors who are multi-disciplined. On the operations side, CTS offers staff engineers, laboratory managers and quality control managers who are familiar with projects of similar size and complexity, including experience with the requirements of projects under DSA jurisdiction, characteristics of new construction, application of plans and specifications and are well-versed in California Building Code (CBC) under International Building Code (IBC) Sections 1701 and 1703, "Guidelines for Special Inspection in Construction."

### **Chabot-Las Positas Community College District – Single Point of Contact**

Brian Joyce, DSA Project Manager  
2118 Rheem Drive  
Pleasanton, CA 94588  
Phone: 925.519.0257  
Email: bjoyce@cts-1.com

### **Approach**

CTS' method for success exists within our communicative project management team. We have a process in place for every scenario and our team communicates on a regular basis to assure that our clients and their project are being taken care of in a professional and timely manner. The CTS team provides owners with thorough project management—our project management includes weekly review of time sheets and monthly review of invoices and budget. CTS provides a budget analysis so you know where you stand compared to the original budget each month. CTS has established customer-focused procedures, producing efficient, hands-on project management.

Our proposed work plan includes onsite and offsite material testing services in accordance with the plans and specifications, DSA requirements and will be per code. The protocol we will follow to help Chabot-Las Positas CCD achieve its goals will consist of communication, implementation/execution, and **reporting**. Before any works begins, CTS' team would schedule a meeting with the project managers, client representatives, and our staff to obtain a general understanding of the contract objectives and the District's expectations and procedures for each project. This would be the first step in assuring that we keep the lines of communication open between all parties involved.

**Pre-Construction Meeting:** For larger or complicated projects we suggest a pre-construction meeting be initiated with the Project Manager, Superintendent and/or IOR, client representatives, and our staff to identify inspections outlined in the testing and special inspections section of the plans and specifications. The intent of this pre-construction meeting would be to obtain a general understanding of the project objectives between our field inspectors and dispatcher and the rest of the project team.

**Dispatch:** Our inspectors are readily available provided a minimum of 24 hours' notice is given. We also understand the complexity of schedules and schedule changes and will work with your project team to provide services at a moment's notice. This will allow for flexibility in scheduling. The PM and/or Superintendent will contact our dispatcher to schedule inspections and/or sample pick-ups. Upon receipt of an inspection request from the project PM and/or Superintendent to our central dispatcher, DSA/ICC/AWS/Nuclear Gauge qualified inspectors will perform the inspection(s) as per approved standards accordingly.

**Immediate Response:** Any outstanding issues are punch-listed and **reported immediately** to the client for resolution. Our inspectors are equipped with the testing and inspection tools needed to accomplish the desired test or inspection. They also carry cell phones with which will allow them to communicate with Supervisory staff for technical support in a timely manner. Samples are picked up timely and transported in accordance with applicable ASTM and/or DSA standards to our local laboratory for further analysis and testing.



**Engineering:** Our engineers are heavily involved in our projects from report and laboratory testing reviews to actual field explorations and observations. Our engineers are here to support our clients and are available for consultations and geotechnical investigations. Our engineers are knowledgeable of different material types and troubleshooting possible exceptions. CTS will assume the role as GEOR during construction as well.

**Safety:** The safety of our team and those on the construction site is of utmost importance. Our team is equipped with the necessary safety gear including hard hats, safety glasses, safety vests, etc. Our inspectors understand the critical importance of following site safety guidelines and encourage others to do the same. CTS will also comply with all onsite COVID safety plans as well as adhere to our own COVID plan within our offices and laboratories.

**Budget Tracking:** Our monthly budget analyses are provided on a monthly basis. This tool assists our clients in tracking their testing and inspections budget. We will filter in the estimated dollar amounts per scope item from the agreed upon preliminary estimate. These amounts are then tracked monthly.

**Client Relations:** Your project manager will meet with the client and/or their project team on a monthly basis as needed, or as requested by client to review the budget. For example: after being awarded the Stanford Linear Accelerator project in Menlo Park; our geotechnical engineer was being dispatched frequently to where there was insufficient budget for that portion of the scope. We notified the SLAC project team immediately and initiated a meeting to resolve the issue. Contract and scope modifications were adjusted accordingly, and the project team was advised to dispatch responsibly.

**Catering to our Clients:** CTS is willing to cater our services to our clients' needs. For example, CTS provided more than the regular scope of special inspection and testing services for the San Jose State University Village Campus Housing project. We are essentially providing a building department for the project, covering mechanical, electrical, plumbing and smoke control inspections. Our Inspector of Record led a team of inspectors under the direction of the State Fire Marshal. At one point, CTS had 10 inspectors on site.

**DSA Reporting and Closeout**

Since our inception over 27 years ago, CTS has provided testing and inspection for a long list of community college district clients throughout Northern California. Our team understands policies and procedures surrounding reporting under DSA jurisdiction and have processes in place that have been proven in the field.

**Daily Field Reports:** Our inspectors will leave a daily field report (DFR) at the jobsite daily with the IOR and/or project team and a copy is sent to CTS to be typed up by our operations team. CTS is also familiar with using onsite reporting tools and programs to provide electronic report (using laptop or tablets in the field).

**Electronic Weekly Reports:** Our operations team types up all DFRs that are submitted for the week's work. Typed inspection reports are distributed the following week to the District, IOR, general contractor, architect via mail or e-mail or as requested by client. These reports include computer generated, typed reports summarizing the weekly activities and test results. CTS also has the ability to submit these reports as requested by your project team via email or posted through a web portal.

**Electronic Lab Reports:** Typed laboratory testing reports are also distributed the following week from the day the laboratory test was performed, per project specifications. All lab results will be reported on DSA lab data sheets to ensure that results meet DSA-approved requirements and sent to DSA and client. **Sub-standard results are immediately faxed and phoned to the proper team members, as well as the owner.**

**Reporting to DSA:** All documents are uploaded in the CTS assigned DSA box account (hardcopies are no longer provided to DSA).

**Project Closeout:** As each scope item is completed (or phased), CTS issues interim verified reporting (per the inspection card Form 152). CTS' experience with DSA projects has given our team a solid understanding of the DSA daily and close-out procedures. Our inspectors, lab technicians and operations team have access to all DSA data sheets, as well as final reports (i.e. DSA-291, DSA-292 and DSA-293) and comply with DSA protocol.

**Final Inspection Report Delivery:** Upon completion of testing and inspections for each project, a final affidavit will be created then reviewed for completeness and quality and signed off by a licensed engineer assigned to the District.



**DSA PROJECT INSPECTION CARD 152**

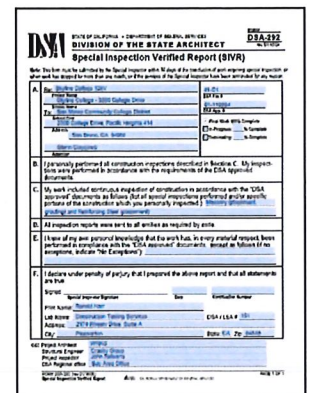
This form is required by the State Department of Industrial Relations in accordance with California Code of Regulations, Title 20, Part 1, Division 107, and the provisions of the State Building Code, Title 17, Part 1, Section 1701.01, and the provisions of the State Building Code, Title 17, Part 1, Section 1701.02.

Project Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Project Location: \_\_\_\_\_ City: \_\_\_\_\_  
 Inspector Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Inspector Title: \_\_\_\_\_  
 Inspector Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Checklist:**

1. Labor Force	11. Fire Safety
2. Safety	12. Fall Protection
3. Scaffolding	13. Excavation
4. Shoring	14. Erection of Structures
5. Formwork	15. Erection of Towers
6. Hoisting	16. Erection of Towers
7. Erection of Structures	17. Erection of Towers
8. Erection of Towers	18. Erection of Towers
9. Erection of Towers	19. Erection of Towers
10. Erection of Towers	20. Erection of Towers

**Inspector's Signature:** \_\_\_\_\_  
**Date:** \_\_\_\_\_



**DSA DIVISION OF THE STATE ARCHITECT Special Inspection Verified Report (SIVR)**

This form is required by the State Department of Industrial Relations in accordance with California Code of Regulations, Title 20, Part 1, Division 107, and the provisions of the State Building Code, Title 17, Part 1, Section 1701.01, and the provisions of the State Building Code, Title 17, Part 1, Section 1701.02.

Project Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Project Location: \_\_\_\_\_ City: \_\_\_\_\_  
 Inspector Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Inspector Title: \_\_\_\_\_  
 Inspector Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Checklist:**

A. All required permits are in place and are valid.
B. All required permits are in place and are valid.
C. All required permits are in place and are valid.
D. All required permits are in place and are valid.
E. All required permits are in place and are valid.
F. All required permits are in place and are valid.

**Inspector's Signature:** \_\_\_\_\_  
**Date:** \_\_\_\_\_





## Exhibit A

### Testing and Inspection Proposal Form

#### Proposal Information:

Firm Name Construction Testing Services, Inc.

DSA LEA Number 151

Authorized Signature 

Printed Name Aaren Solis

Date 10/22/2021

**Base Bid** (amount shall be shown both in words and figures. In case of discrepancy the amount shown in words shall govern. Proposal amount shall include all testing, inspections, travel time, shipping charges and applicable taxes to complete the testing and inspection work as required).

two hundred and eighty-two thousand,  
eight hundred and eight \_\_\_\_\_ Dollars (\$ 282,808 )

#### ACKNOWLEDGMENT

By signature below, pricing for the testing and special inspection services for the New Library and Learning Connection Center. Project at Chabot College will be guaranteed to the Chabot-Las Positas Community College District effective the date accepted by the District Board of Trustees.



Signature  
(Authorized Agent of Company)

10/22/2021

Date



# Exhibit B

Proposal for Materials Testing and Inspection Services  
Chabot-Las Positas Community College District - Chabot College Library and Learning Connection Center

Company Name Here:	<b>Construction Testing Services, Inc.</b>				
		A	B	C	D
<i>Item</i>	<i>Description</i>	<i>Units</i>	<i>Rate per Test</i>	<i>Number of Tests</i>	<i>Total</i>
<b>1</b>	<b>SOILS</b>				
	Probe Test (technician)	hr.	\$ 105.00	200	\$ 21,000.00
	Price per compaction test (nuclear gauge test)	ea.			included above
	Sampling at site, grading of soils, compaction curves	hr.			included above
	Soils Qualification Tests	ea.			n/a
	Moisture Curve Density	ea.	\$ 200.00	10	\$ 2,000.00
<b>2</b>	<b>ASPHALTIC CONCRETE</b>				
	AC Paving Placement	hr.	\$ 105.00	16	\$ 1,680.00
	Sub-base/ Base Compaction	hr.	\$ 105.00	60	\$ 6,300.00
	Equipment Fee	hr.			no charge
	Stabilometer Value	ea.			n/a
	Extraction/Gradation	ea.			n/a
	Maximum Density/ Specific Gravity	set	\$ 220.00	2	\$ 440.00
<b>3</b>	<b>REINFORCING STEEL SAMPLING &amp; TESTING</b>				
	Sampling and Tagging of Reinforcing Steel (Tensile & Bend)	hr.	\$ 88.00	64	\$ 5,632.00
	Field Placement Inspection	hr.			N/A - IOR
	Testing of Reinforcing Steel (tensile) (Lab)				
	Rebar Tensile Tests (#3-8)	ea.	\$ 125.00	20	\$ 2,500.00
	Rebar Tensile Tests (#9-11)	ea.	\$ 135.00	8	\$ 1,080.00
	Rebar Bin Tests	ea.			included above
	Testing of Reinforcing Steel (bend) (Lab)	ea.			included above
<b>4</b>	<b>CONCRETE</b>				
	Sampling for each concrete pour and slump test at jobsite	hr.	\$ 88.00	136	\$ 11,968.00
	Concrete Cylinder Compression Tests (3 Field Samples)	ea.			n/a
	Concrete Cylinder Compression Tests (4 Field Samples)	ea.	\$ 20.00	350	\$ 7,000.00
	Concrete Cylinder storage	ea.			no charge
	Concrete Specimen Pickup (JOB SITE)	trip	\$ 8.00	350	\$ 2,800.00

# Exhibit B

Proposal for Materials Testing and Inspection Services  
Chabot-Las Positas Community College District - Chabot College Library and Learning Connection Center

<i>Item</i>	<i>Description</i>	<i>A Units</i>	<i>B Rate per Test</i>	<i>C Number of Test</i>	<i>D Total</i>
	Concrete mix design review (no trial Batch)	hr.	\$ 216.00	4	\$ 864.00
	Batch Plant Inspection (full time/part time)	hr.	\$ 88.00	84	\$ 7,392.00
	Concrete Core Samples	ea.			n/a
	Concrete Core Compression Tests	ea.			n/a
<b>5</b>	<b>STRUCTURAL STEEL (Shop and Field)</b>				
	Shop Fabrication & Welding Inspection for Structural Steel (day)	hr.	\$ 88.00	480	\$ 42,240.00
	Shop Fabrication & Welding Inspection for Structural Steel (night)	hr.	\$ 99.00	480	\$ 47,520.00
	Shop Fabrication & Welding Inspection for Misc/Stairs (day)	hr.	\$ 88.00	160	\$ 14,080.00
	Shop Fabrication - BRB	hr.	\$ 88.00	160	\$ 14,080.00
	Field Erection & Welding Inspection	hr.	\$ 88.00	296	\$ 26,048.00
	Tensile test	ea.			n/a
	Bend Test	ea.			n/a
	Welding Procedures/WPS Review	ea.	\$ 216.00	3	\$ 648.00
<b>6</b>	<b>GLU-LAM BEAMS (SHOP)</b>				
	Shop Fabrication Inspection	hr.			n/a
<b>7</b>	<b>PULL OUT TESTING</b>				
	Expansion Anchor Pull Out Testing (JOBSITE)	hr.	\$ 88.00	120	\$ 10,560.00
<b>8</b>	<b>Roofing</b>				
	Pre-job Conference	hr.			n/a
	Continuous Inspection	hr.			n/a
	Roofing Test	ea.			n/a
<b>9</b>	<b>ADDITIONAL SERVICES</b>				
	Mileage Rate (if any)	mile	\$ -		no charge
	List schedule of professional rates for items not listed above:				
	Footing Inspections (Staff Engineer - Jobsite)	hr.	\$ 105.00	160	\$ 16,800.00
	Fireproofing Inspection/Sampling/Testing (Jobsite)	hr.	\$ 88.00	164	\$ 14,432.00
	Fireproofing Testing/Test Kits	ea.	\$ 65.00	100	\$ 6,500.00
	Non-Shrink Grout (Lab)	ea.	\$ 45.00	6	\$ 270.00
	HSB Assembly (Lab)	ea.	\$ 150.00	16	\$ 2,400.00
	Anchor Bolt Tension Test (Lab)	ea.	\$ 325.00	3	\$ 975.00
	Sample Pick-ups (excluded concrete, included above)	ea.	\$ 8.00	265	\$ 2,120.00
	Subsistence (daily) (for BRB fab in UT/ID/NV)	ea.	\$ 120.00	20	\$ 2,400.00
	Skidmore Equipment Fee (daily)	ea.	\$ 115.00	2	\$ 230.00
	Staff Engineer	hr.	\$ 105.00	12	\$ 1,260.00
	Project Manager	hr.	\$ 105.00	10	\$ 1,050.00
	Field Supervision	hr.	\$ 105.00	12	\$ 1,260.00
	GEOR	hr.	\$ 200.00	12	\$ 2,400.00
	Associate Engineer - Report Review/Prep	hr.	\$ 125.00	12	\$ 1,500.00
	Principal Engineer	hr.	\$ 281.50	2	\$ 563.00
	Escalation (work after 7/1/2022)	hr.	\$ 4.00	704	\$ 2,816.00
	See attached estimate for add all services (FF/FL and RH)				



# Exhibit B

Proposal for Materials Testing and Inspection Services  
 Chabot-Las Positas Community College District - **Chabot College Library and Learning Connection Center**

		A	B	C	D
<i>Item</i>	<i>Description</i>	<i>Units</i>	<i>Rate per test</i>	<i>Number of Test</i>	<i>Total</i>
	All above unit prices to include necessary equipment, report time, supervision time, clerical time, misc. documents, and other charges necessary to support such activity.	CTS confirms all equipment, report time, supervision time, clerical time, misc. documents and other charges have been included in the above rates/scope.			
	Provide minimum requirements (if any).	4 and 8 hours per Union agreement			
	Address if travel time is to be charged to job site, from job site, both to and from job site, or not at all.	No travel time and mileage will be charged to the jobsite			
	Projected Total			\$	282,808.00

DATE: 10/22/21  
 PROPOSAL No.: P20590  
 CLIENT: CHABOT LOS POSITAS COMMUNITY COLLEGE DISTRICT  
 PROJECT: CHABOT COLLEGE LIBRARY AND LEARNING CONNECTION CENTER  
 LOCATION: HAYWARD, CA

ITEM: I ONSITE TESTING & INSPECTIONS	ESTIMATED DAYS	ESTIMATED HOURS	UNIT PRICE	ESTIMATED TOTAL
<b>CONCRETE (I/OB TO INSPECT REBAR &amp; CONCRETE PLACING)</b>				
ELEVATOR PIT/SLAB	3	4	\$88	\$1,056
FOOTINGS/GRADE BEAMS	2	8	\$88	\$1,408
NON-SHRINK GROUT - COLUMN BASEPLATES	2	4	\$88	\$704
SLAB ON GRADE	4	8	\$88	\$2,816
METAL DECK POURS (REBAR/CONCRETE)	4	8	\$88	\$2,816
MECHANICAL PADS	3	4	\$88	\$1,056
OTHER - MISC CONCRETE	6	4	\$88	\$2,112
<b>FIREPROOFING - 1 SET OF SAMPLES PER 2,500 SF</b>				
SUB-STRATE INSPECTION	3	4	\$88	\$1,056
THICKNESS TESTING	15	4	\$88	\$5,280
DENSITY SAMPLING	15	4	\$88	\$5,280
COHESION/ADHESION TESTING	8	4	\$88	\$2,816
<b>STRUCTURAL STEEL</b>				
ERECTION/MEMBER VERIFICATION/BOLTING	12	4	\$88	\$4,224
SKIDMORE TESTING	2	4	\$88	\$704
SKIDMORE EQUIPMENT FEE (DAILY)	2	1	\$115	\$230
FIELD WELDING/UT/MT	20	8	\$88	\$14,080
MISC STEEL/STAIRS - PERIODIC INSPECTION	10	8	\$88	\$7,040
<b>MISC FIELD TESTING SERVICES</b>				
EPOXY REBAR/BOLTS - INSTALL OBSERVATION	3	4	\$88	\$1,056
EPOXY REBAR/BOLTS - PROOF LOADING/PULL TESTING	3	4	\$88	\$1,056
EXPANSION/SCREW ANCHOR - INSTALL OBSERVATION	10	4	\$88	\$3,520
EXPANSION/SCREW ANCHOR - TORQUE TESTING	10	4	\$88	\$3,520
CEILING WIRE - PROOF LOADING/PULL TESTING	4	4	\$88	\$1,408
ESCALATION (WORK AFTER 7/1/2022)		704	\$4	\$2,816
<b>GEOTECHNICAL SERVICES</b>				
FOOTING INSPECTION (STAFF ENGINEER)	20	8	\$105	\$16,800
BUILDING PAD AND DEMOLITION BACKFILL	10	8	\$105	\$8,400
TRENCH BACKFILL	20	4	\$105	\$8,400
SITework SUBGRADE AND/OR BASEROCK	10	4	\$105	\$4,200
PAVEMENT SUBGRADE	10	4	\$105	\$4,200
PAVEMENT BASEROCK	5	4	\$105	\$2,100
AC COMPACTION	2	8	\$105	\$1,680
<i>Preliminary Sub-Total of Onsite Testing &amp; Inspection (approx.)</i>				<b>\$111,834</b>

ITEM: II OFFSITE TESTING & INSPECTIONS	ESTIMATED DAYS	ESTIMATED HOURS	UNIT PRICE	ESTIMATED TOTAL
STEEL SHOP VISUAL/UT/MT - DAY SHIFT *	60	8	\$88	\$42,240
STEEL SHOP VISUAL/UT/MT - NIGHT SHIFT *	60	8	\$99	\$47,520
STEEL SHOP - VISUAL/UT/MT - MISCELLANEOUS STEEL & STAIRS*	20	8	\$88	\$14,080
STEEL SHOP - BRB**	20	8	\$88	\$14,080
BRB SUBSISTENCE**	20	1	\$120	\$2,400
BATCH PLANT	21	4	\$88	\$7,392
REBAR SAMPLE & TAG	8	8	\$88	\$5,632
<i>Preliminary Sub-Total of Offsite Testing &amp; Inspection (approx.)</i>				<b>\$133,344</b>

ITEM: III LABORATORY TESTING & ENGINEERING	ESTIMATED UNITS/HOURS	UNIT PRICE	ESTIMATED TOTAL	
CONCRETE COMPRESSION TESTS ( SET OF 5-4x8 CYLINDERS )	350	\$20	\$7,000	
NON SHRINK GROUT - 2"x 2" CUBES	6	\$45	\$270	
FIREPROOFING DENSITY TESTS	100	\$50	\$5,000	
FIREPROOFING COHESION/ADHESION TESTS	100	\$15	\$1,500	
REBAR TENSILE AND BEND TEST (#3 TO #8)	20	\$125	\$2,500	
REBAR TENSILE AND BEND TEST (#9 TO #11)	8	\$135	\$1,080	
HIGH STRENGTH BOLTS ASSEMBLY (Tensile & Hardness)	16	\$150	\$2,400	
ANCHOR BOLT TENSION TEST (Tensile & Hardness)	3	\$325	\$975	
COMPACTION CURVES (ASTM D 1557)	10	\$200	\$2,000	
THEORETICAL MAX DENSITY (CT 309)	2	\$220	\$440	
SAMPLE PICK-UPS	615	\$8	\$4,920	
GEOTECHNICAL ENGINEER OVERSITTE (HRS)	HOURS	6	\$200	\$1,200
GEOTECHNICAL TRANSFER OF RESPONSIBILITY (DSA 109)	HOURS	4	\$200	\$800
GEOTECHNICAL VERIFIED REPORT REVIEW (DSA 293)	HOURS	2	\$200	\$400
WPS REVIEW	3	\$216	\$648	
MIX DESIGN REVIEW	4	\$216	\$864	
STAFF ENGINEER	12	\$105	\$1,260	
PROJECT MANAGER	10	\$105	\$1,050	
FIELD SUPERVISION	12	\$105	\$1,260	
PRINCIPAL ENGINEER	2	\$281.50	\$563	
INTERIM AND FINAL LETTER PREP/REVIEW (HOURS) - ASSOCIATE ENGINEER	12	\$125	\$1,500	
<i>Preliminary Subtotal of Laboratory Testing &amp; Engineering (approx.)</i>			<b>\$37,630</b>	
<i>Preliminary Estimated Fees</i>			<b>\$282,808</b>	

ITEM: IV ADD ALTERNATE ITEMS (IF REQUIRED BY DISTRICT)	ESTIMATED DAYS	ESTIMATED HOURS	UNIT PRICE	ESTIMATED TOTAL
<b>MISC FIELD TESTING SERVICES</b>				
FLOOR FLATNESS/LEVELNESS TESTING (PORTAL TO PORTAL)	8	8	\$300	\$19,200
FLOOR FLATNESS/LEVELNESS EQUIPMENT FEE (DAILY)	8	1	\$115	\$920
RELATIVE HUMIDITY TESTING (RAPID RH) (PORTAL TO PORTAL)	4	8	\$300	\$9,600
<b>LABORATORY TESTING &amp; ENGINEERING</b>				
RELATIVE HUMIDITY PROBES		20	\$20	\$400
<i>Preliminary Sub-Total of Add All Items (approx.)</i>				<b>\$30,120</b>
<i>Preliminary Estimated Fees</i>				<b>\$30,120</b>

\* Steel shop price based on work being done in Northern California in one shop and one shift (within 100 miles of jobsite per RFI/addendum). If work is performed at night a 12.5% differential will be charged.  
 \*\* BRB price based on work being done in Utah, Nevada or Idaho in one shop and one shift.  
 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 Walter P. Moore Structural Engineers dated 4/18/21 and DSA 103 File No 1-C2 Application No 01-119234 dated 12/16/20.  
 Construction schedule was prepared by Rudolph and Slitten dated 9/30/21 and addendum 1 dated 10/18/21 was referenced. No travel time and mileage will be charged to and from the Chabot College site.  
 The liability of Construction Testing Services (CTS) is limited to CTS's contract value.





**2021 FEE SCHEDULE - P20590 10/22/21  
PERSONNEL FEES AND BASIS OF CHARGES  
INSPECTIONS, ENGINEERING & SPECIAL SERVICES**

	Standard Rate/Hour	Discounted Rate/Hour
<b>* FIELD INSPECTION AND LABORATORY SERVICE</b>		
Steel Visual	\$225.00	\$88.00
Nondestructive - UT, MT, PT	\$230.00	\$88.00
Steel Visual/UT Combination	\$230.00	\$88.00
Concrete ACI	\$225.00	\$88.00
Concrete ICC	\$225.00	\$88.00
DSA Masonry	\$275.00	
Fireproofing	\$225.00	\$88.00
Shear Wall Nailing/Framing/Hold Downs	\$225.00	
Soil Technician w/Nuclear Gauge and/or Sand Cone ( <i>portal-to-portal</i> )	\$225.00	\$105.00
Asphalt Technician ( <i>portal-to-portal</i> )	\$225.00	\$105.00
Shoring/Soldier Piers	\$225.00	
Roofing & Waterproofing	\$225.00	
Multi-Disciplined Inspector	\$225.00	
Inspector Requiring G1 Pay Grade	\$275.00	
Specialty Inspector or Where Formal Certification is Required	\$225.00	
Field Inspector with Special Enhancement	\$225.00	
Safety Manager/Safety Inspector/JobSite Safety Accountability Supervisor (JSAS)	\$500.00	
Laboratory Technician	\$225.00	
Technician Typist	\$225.00	
<b>**PROFESSIONAL ENGINEERING SERVICES</b>		
Principal Engineer (Civil/Structural)	\$360.00	\$281.50
Geotechnical Engineer	\$345.00	\$200.00
Professional Geologist	\$300.00	
Consulting Engineer (Civil/Structural)	\$295.00	
Associate Engineer, Licensed	\$255.00	\$125.00
Project Manager	\$225.00	\$105.00
Staff Engineer	\$225.00	\$105.00
Field Supervision	\$225.00	\$105.00
ASNT Level III	\$275.00	
Drafting	\$160.00	
Quality Control Manager	QOR	
<b>SPECIAL SERVICES</b>		
Portable and Mobile Laboratories, NDT and Soils	QOR	
* Epoxy Bolt/Expansion Anchor - Installation Observation	\$225.00	\$88.00
* Epoxy Bolt/Expansion Anchor Proof Load Testing ( <i>portal-to-portal</i> )	\$225.00	\$88.00
* Coring, 1 Person (including equipment) ( <i>portal-to-portal</i> )	\$300.00	
* Coring, 2 Persons (including equipment) ( <i>portal-to-portal</i> )	\$455.00	
* Asphalt Coring ( <i>portal-to-portal</i> )	\$325.00	
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> )	\$300.00	
Floor Flatness Testing FF/FL - Equipment Fee \$115/Day ( <i>portal-to-portal</i> )	\$300.00	
Measuring Moisture Vapor Emission Rate (Calcium Chloride) - \$55/Kit ( <i>portal-to-portal</i> )	\$300.00	
Relative Humidity Testing - \$75/Kit ( <i>portal-to-portal</i> )	\$300.00	
Ferrosan - Equipment Fee \$115/day ( <i>portal-to-portal</i> )	\$300.00	
GPR - Equipment Fee \$115/day ( <i>portal-to-portal</i> )	\$375.00	
Administration, Secretarial, Special Projects, Notary, Certified Payroll	\$175.00	
Concrete/Grout/Mortar Mix Design Review (less than 48 hours notice - \$500)	\$350.00	\$216.00
Welding Procedure Review (less than 48 hours notice - \$500)	\$350.00	\$216.00
Procedure Qualification Record (PQR) - Standard Procedure (document fee)	\$500.00	
Welding Procedure Specification (WPS) - Standard Procedure (document fee)	\$500.00	
Welder Qualification Test Record (WQTR) - Standard Procedure (document fee)	\$500.00	
DSA Interim Reports	\$185.00	Included in hours
Geotechnical Pad Letter (less than 48 hours notice - \$550)	\$350.00	
Final Letter (less than 48 hours notice - \$550)	\$350.00	Included in hours
<b>EXPERT WITNESS TESTIMONY</b>		
Court appearance, per day	\$2,500.00	
Court appearance, per half day	\$1,500.00	

\* 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.

**ESCALATION**

Proposed escalation will be effective as for July 1, 2022 (and annually thereafter, if applicable) \$4/hour (rates subject to CA DIR prevailing wages)

**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	\$120.00/day
Subsistence Premium: Meal Allowance (over 100 miles one way) (per Union contract)	\$30.00/day	
Subsistence Premium: Meal Allowance (over 150 miles one way) (per Union contract)	\$85.00/day	
Mileage	Standard Federal Rate	
Sample Pickup	\$30.00/each	\$8.00/each
Weekend Sample Pickup	\$110.00/each	
Project Administration	45% of Monthly Invoice	Included in Rates per RFP
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 maybe 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**

<b>CONCRETE</b>		<b>Standard Rate/Each</b>	<b>Discounted Rate/Each</b>
Compressive Strength of Cylindrical Concrete Specimens (6x12)	ASTM C39	\$85.00	
Compressive Strength of Cylindrical Concrete Specimens (4x8)	ASTM C39	<del>\$85.00</del>	\$20.00
Compressive Strength of Cylindrical Concrete Specimens (Over 8000 PSI)	ASTM C39	\$150.00	
Cylinder molds. 6" x 12" and 4" x 8"	ASTM C470	\$80.00	
Compressive Strength of Lightweight Insulating Concrete	ASTM C495	\$100.00	
Obtaining and Testing Sawed Beams and Drilled Cores of Concrete (Cores)	ASTM C42	\$125.00	
Flexural Toughness of Fiber Reinforced Concrete (Round Panel)	ASTM C1550	\$500.00	
Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	ASTM C78	\$325.00	
Flex Beams per Caltrans Test Methods	CT523 and CT524	\$325.00	
Length Change of Hardened Hydraulic-Cement Mortar and Concrete (Shrinkage, 1 Sample)	ASTM C157	\$165.00	
Shotcrete Nozzleman Qualification Letter (Per Nozzleman, Per Position)	ACI 506, ASTM C42 and C1140	\$450.00	
Shotcrete Pre-Qualification Cores (Compression and Visual)	ACI 506, ASTM C42 and C1140	\$115.00	
Shotcrete Production Cores	ASTM C1140	\$115.00	
Coefficient of Thermal Expansion	AASHTO T336	\$540.00	
Determining Density of Structural Lightweight Concrete (Cylinders)	ASTM C567	\$425.00	
Standard Specification for Concrete Made by Volumetric Batching and Mixing	ASTM C685	\$975.00	
Cement Quality Sampling	CBC 2010	\$675.00	
Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete	ASTM C472	\$60.00	
Splitting Tensile Strength of Cylindrical Concrete Specimens	ASTM C496	\$265.00	
Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	ASTM C469	\$225.00	
Grab Sample, Sealing and Storing in a Humidity and Temperature Controlled Room	CBC	\$155.00	
Density of Hydraulic Cement	ASTM C188	\$200.00	
Testing of Controlled Low Strength Material (CLSM) Test Cylinders	ASTM D4832	\$160.00	
GFRC Pull Test	PCI	\$400.00	
GFRC Flexural Test	PCI	\$400.00	
Foaming Agents for Use in Producing Cellular Concrete Using Preformed Foam (Cell-Crete)	ASTM C796	\$550.00	
<b>MASONRY</b>			
Compressive Testing of Grout (Masonry)	ASTM C1019	\$130.00	
Compressive Strength of Hydraulic Cement Mortars Using 2" Cube Specimens	ASTM C109	<del>\$130.00</del>	\$45.00
Compressive Strength of Masonry Prisms	ASTM C1314	\$200.00	
Testing Concrete Masonry Units and Related Units (Core Compression)	CBC 2105A.4	\$200.00	
Compressive Strength of Molded Masonry Mortar Cylinders and Cubes (2" Sample)	ASTM C780 A7.6	\$130.00	
Testing Concrete Masonry Units (CMU) and Related Units (Full Unit)	ASTM C140	\$200.00	
Linear Drying Shrinkage of Concrete Masonry Units (Per Unit)	ASTM C426	\$300.00	
Masonry Core Shear Testing	CBC 2105A.4	\$300.00	
Testing Concrete Masonry Units (Absorption, Moisture Content, Unit Weight)	ASTM C140	\$375.00	
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		\$130.00	
Mortar or Grout, Stored and Cured, Not Tested (Including Mold)		\$130.00	
<b>AGGREGATES (SOILS AND CONCRETE)</b>			
Determining Sieve Analysis of Fine and Coarse Aggregates (Coarse Only)	CT202/ASTM C136	\$235.00	
Sieve Analysis of Fine and Coarse Aggregates (Fine Only)	CT202/ASTM C136	\$305.00	
Sieve Analysis of Fine and Coarse Aggregates (Wash Included)	CT202/ASTM C117	\$385.00	
Sieve Analysis of Fine and Coarse Aggregates (200 Wash Only)	ASTM C117/D1140	\$235.00	
Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	ASTM D6913	\$385.00	
Evaluating Cleanness of Coarse Aggregate	CT227	\$385.00	
Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88/CT214	\$300.00	
Unit Weight of Aggregate	CT212	\$200.00	
Clay Lumps and Friable Particles in Aggregates	ASTM C142	\$225.00	
Flat Particles, Elongated Particles or Flat and Elongated Particles in Coarse Aggregate	ASTM D4791/CT235	\$400.00	
Organic Impurities in Fine Aggregates for Concrete	CT213/ASTM C40	\$400.00	
Density, Relative Density(Specific Gravity), and Absorption of Coarse Aggregate	ASTM C127/CT206	\$400.00	
Density, Relative Density(Specific Gravity), and Absorption of Fine Aggregate	ASTM C128/CT207	\$400.00	
Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer	ASTM D854	\$400.00	
Resistance to Degradation of Small Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131(535) and C211	\$550.00	
Percentage of Crushed Particles/Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	ASTM D5821/CT205	\$425.00	
Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)	ASTM C1252/AASHTO T304A	\$425.00	
Sand Equivalent Value of Soils and Fine Aggregate	ASTM D2419/CT217	\$300.00	
Durability Index (Fine)	ASTM D3744/CT229	\$425.00	
Durability Index (Coarse)	ASTM D3744/CT229	\$425.00	
Durability Index (Fine and Coarse)	ASTM D 3744/CT229	\$425.00	
Lightweight Particles in Aggregate	ASTM C123/AASHTO T113	QOR	
Resistance of Rock to Wetting and Drying	CRD-C169	\$600.00	
Aggregate Moisture Content	ASTM C566	\$600.00	

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



**SOILS, AGGREGATE, ASPHALTIC CONCRETE SERVICES & TESTS**

		Standard Rate/Each	Discounted Rate/Each
<b>SOILS</b>			
Direct Shear Test of Soils Under Consolidated Drained Conditions	ASTM D3080	\$550.00	
Consolidated Undrained Triaxial Compression Test for Cohesive Soils (per point)	ASTM D4767	\$1,000.00	
Consolidated Undrained Triaxial Compression Test for Cohesive Soils (added points)	ASTM D4767	\$225.00	
Consolidated Undrained Triaxial Compression Test for Cohesive Soils (single point)	ASTM D4767	\$350.00	
One-Dimensional Consolidation Properties of Soils Using Incremental Loading	ASTM D2435	\$325.00	
Caltrans Corrosivity Package		\$525.00	
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	\$600.00	
Pore Water Extraction and Determination of the Soluble Salt Content of Soils by Refractometer	ASTM D4542	\$650.00	
Standard Test Method for Particle-Size Analysis of Soils (without Hydrometer)	ASTM D422	\$550.00	
Liquid Limit, Plastic Limit, and Plasticity Index of Soils	ASTM D4318/CT204	\$550.00	
Laboratory Compaction Characteristics of Soil Using Modified/Standard Effort	ASTM D1557/D698	<del>\$625.00</del>	\$200.00
Hydrometer Only	ASTM D422	\$550.00	
pH of Soils	ASTM D4972	\$500.00	
Relative Compaction of Untreated and Treated Soils and Aggregates	CT216	\$600.00	
Determining the Resistance "R" Value of Treated and Untreated Bases, Subbases, and Basement Soils by the Stabilometer	ASTM D2844/CT301	\$600.00	
Laboratory Determination of Water(*moisture) Content of Soil and Rock by Mass	ASTM D2216/CT226	\$165.00	
Density of Soil in Place by the Drive-Cylinder Method	D2937	\$125.00	
Expansion Index of Soils	ASTM D4829	\$125.00	
Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter (Permeability)	ASTM D5084/CT220	\$575.00	
Lab Compaction Characteristics of Soil 1 Point Proctor (Check Point)	ASTM D698/D1557	\$350.00	
Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	ASTM D4253	\$300.00	
Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	ASTM D4254	\$300.00	
Density of Hydraulic Cement	ASTM C188	\$375.00	
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	\$550.00	
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	\$300.00	
Universal Soil Classification System (USCS) Test	ASTM D2487	\$325.00	
California Bearing Ratio Test	ASTM D1883	\$385.00	
Unconfined Compressive Strength of Cohesive Soil	ASTM D2166/CT221	\$200.00	
<b>ASPHALT</b>			
Quantitative Extraction of Bitumen from Bituminous Paving Mixtures (Solvent)	ASTM D2172/CT310	\$750.00	
Determining Low Temperature Performance Grade (PG) of Asphalt Binders	ASTM 6816	QOR	
Thickness/Height of Compacted Bituminous Paving Mixture Specimens (Cores)	ASTM D3549/CT308	\$285.00	
Method of Prep of Bituminous Mixture Test Specimens	ASTM D6926/CT304	\$285.00	
Bulk Specific Gravity and Density of Compacted Bituminous Mixtures (LTMD)	ASTM D1188 and D2726/CT308	\$995.00	
Bulk Specific Gravity of Core	AASHTO T275	\$175.00	
Indirect Tensile (IDT) Strength of Bituminous Mixtures (TSR)	ASTM D6931/CT371	\$3,200.00	
Mechanical Size Analysis (Coarse and Fine) of Extracted Aggregate	ASTM D5444/CT202	\$410.00	
Marshall Stability and Flow of Bituminous Mixtures	ASTM D6927	\$995.00	
Theoretical Maximum Specific Gravity and Density (Rice)	ASTM D2041/CT309	<del>\$425.00</del>	\$220.00
Measuring the Permeability of Bituminous Pavements and Seal Coats	CT341	QOR	
Swell of Bituminous Mixtures	CT305	\$400.00	
Moisture Vapor Susceptibility of Bituminous Mixtures/Moisture or Volatile Distillates in Asphalt	ASTM D1461/CT307	\$950.00	
Stabilometer Value (1 sample)	CT366	\$400.00	
Determination of Asphalt Content of Bituminous Paving Mixtures by the Ignition Method	CT382/ASTM D6307	\$425.00	
Determination of Correction Factor of Bituminous Paving Mixtures by the Ignition Method	CT382/ASTM D6307	\$425.00	
Determination of Asphalt and Moisture Contents of Bituminous Mixtures by Microwave Oven	CT370	\$425.00	
Effect of Water on Compressive Strength of Compacted Bituminous Mixtures (Set of 6)	ASTM D1075	\$3,500.00	
Compressive Strength of Bituminous Mixtures	ASTM D1074	\$300.00	
Hamburg Wheel Track	AASHTO T324	\$3,750.00	
Moisture Susceptibility	AASHTO T283	\$3,750.00	
Air Voids		\$500.00	

\* 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





		<b>Standard Rate/Each</b>	<b>Discounted Rate/Each</b>
<b>MATERIALS MECHANICAL TESTS</b>			
Mechanical Testing of Steel Products (General Tensile)	ASTM A370	\$500.00	
Fillet Weld Break Test for Qualification (Welding)	AWS B4.0	\$225.00	
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	\$500.00	
Mechanical Testing of Steel Products (Couplers)	ASTM A370	\$500.00	
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	\$350.00	
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #3-#8	ASTM A370 and E290	<del>\$400.00</del>	\$125.00
Mechanical Testing of Steel Products & Bend Testing of Material for Ductility; #9-#11	ASTM A370 and E290	<del>\$465.00</del>	\$135.00
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		\$465.00	
Guided Bend Test for Ductility of Welds, Mechanical Testing of Welds	ASTM A370, A82 and A185	\$300.00	
Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Anchor Bolts Only (Tension and Yield)	ASTM E190 and AWS B4.0	<del>\$550.00</del>	
Rockwell Hardness of Metallic Materials	ASTM F307, F1554 and F606	\$325.00	\$325.00
Proof Test for Carbon and Alloy Steel (Nuts Only)	ASTM E18	\$165.00	
Radiographic Examination of Metallic Castings/Weldments	ASTM A194 or A563	\$350.00	
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	\$350.00	
Mechanical Testing of Steel Products (Terminators Tensile)	ASTM F606	<del>\$400.00</del>	\$150.00
Strength for Sewn or Bonded Seams of Geotextiles	ASTM A370	\$400.00	
Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure	ASTM D4884	\$350.00	
Breaking Strength and Elongation of Textile Fabrics (Grab Test)	ASTM D2261	\$350.00	
Tensile Properties of Fiber Reinforced Polymer Matrix Composite Bars	ASTM D5034	\$300.00	
Steel Strand, Uncoated Seven-Wire for Prestressed Concrete (Set of 2)	ASTM D3039	\$1,000.00	
	ASTM A416 and A1061	\$1,500.00	
<b>FIREPROOFING</b>			
Thickness and Density of Sprayed Fire-Resistive Material (SFRM)	ASTM E605	<del>\$285.00</del>	\$50.00
Cohesion/Adhesion of Sprayed Fire-Resistive Materials (Test Kit Only)	ASTM E736	<del>\$80.00</del>	\$15.00

**CONTACT INFORMATION**

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**Construction Testing Services, Inc. (CTS)** has reviewed the proposed insurance requirements provided in the RFP and can meet these requirements. Upon award, CTS would like the opportunity to review the District's Testing and Inspection Service Agreement as it was not included for review in the RFP but CTS has worked with the District previously and signed similar agreements. CTS has also reviewed Attachment A and Attachment B and will execute those certifications as well at the time of award.

CTS has developed the NTE fee proposal based on our review the project documents and experience on similar projects.

All exclusions and assumptions for the fee section were outlined in that section (section 5. Fee):

*\*Steel shop price based on work being done in Northern CA in one shop and two shift (within 100 miles of jobsite per RFP/addendum). A 12.5% differential will be charged for work at night.*

*\*\*BRB price based on work being done in Utah, Nevada or Idaho in one shop and one shift.*

*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 Walter P. Moore Structural Engineers dated 4/18/21 and DSA 103 File No 1-C2 Application No 01-119234 dated 12/16/20.*

*Construction schedule was prepared by Rudolph and Sletten dated 9/3/21 and addendum 1 dated 10/18/21 was referenced. No travel time and mileage will be charged to and from the Chabot site.*

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