

PACIFIC CREST ENGINEERING INC.
STANDARD FEE SCHEDULE – GEOTECHNICAL GROUP

July 1, 2019

The following schedule presents our rates for professional services. If desired, services other than construction observation and testing can be contracted on a negotiated fixed fee basis. Hours and mileage for professional and technical services are charged portal-to-portal from our Watsonville office. Services during construction, such as testing and observation of grading, require both professional and technical services. Depending on the scope and duration of the construction project, an opinion of probable cost can be made. Professional, technical, mileage and laboratory fees and rates are subject to change without notice.

PROFESSIONAL SERVICES

Billing Rate

Principal Engineer\Geologist	\$175.00 per hour
Associate Engineer\Geologist	\$170.00 per hour
Senior Engineer\Geologist	\$165.00 per hour
Geotechnical Construction Manager	\$150.00 per hour
Staff Engineer\Geologist II	\$145.00 per hour
Staff Engineer\Geologist I	\$140.00 per hour
CAD/Draftperson	\$105.00 per hour
Administrative Staff	\$ 88.50 per hour
Expert Witness	\$285.00 per hour
Outside Subconsultants	1.0X Hourly Rate

TECHNICAL SERVICES

Senior Field Technician *	\$122.00 per hour
Staff Field Technician*	\$117.00 per hour
Construction Inspector	\$122.00 per hour
QSP/SWPPP Monitoring Services	\$122.00 per hour
Lab Technician	\$ 96.50 per hour
Asphalt Core Drilling (Rig + Staff Time)*	\$166.00 per hour
Certified Payroll Reporting	\$ 88.50 per hour

* Includes nuclear density testing, concrete sampling, and core drilling; two hour minimum charge per site visit.

OVER TIME

Over Time	1.5X hourly rate
Sunday/Holiday	2.0X hourly rate
Night Shift	1.8X hourly rate

MILEAGE EXPENSES

Auto Mileage \$0.545 per mile
(or current IRS standard rate)

OVERTIME

Overtime, when applicable, shall be defined as working more than 8 hours in any one day, more than 40 hours in any one week, and any work performed on Saturdays, Sundays, and Holidays. Double time is billed for Sunday and Holiday work, and for work performed in excess of 8 hours on Saturdays. All other overtime hours are billed as time and a half. Night shift work is shift work commencing after 2:00 pm or before 4:00 am during any 24 hour period starting at 12:01 am. Our normal working hours are 8:00 am to 5:00 pm, Monday through Friday.

FIELD TESTS

Plate bearing load tests, pile load tests, vane shear tests, piezometer installations, slope inclinometer installations, and other special tests will be charged at standard engineering and personnel rates, plus cost of special equipment.

INCIDENTAL EXPENSES

Consultant shall be paid the actual cost plus ten percent of all other out-of-pocket expenses, including any costs of air travel, applicable sales, use and city taxes, as well as miscellaneous outside services and facilities, including: equipment rental, drill rig, underground locator, renderings, overnight delivery, permit and plan check fees, and similar expenses.

PRINTS AND SPECIFICATIONS

Reproduction charges for prints and specification books for client use in bidding or construction or at client request will be billed at cost plus ten percent.

COPIES OF PREVIOUS REPORTS

Orders for copies of previously issued work will be billed on a time and material basis (minimum charge of \$25.00).



DRILLING AND SAMPLING

Billing Rate

Drill Rig including crew - truck mounted or crawler mounted:

Mobilization	Cost + 10%
Straight Time	Cost + 10%
Over Time	Cost + 10%
Cone Penetrometer Rig (CPT)	Cost + 10%
CPT Travel Time & Mobilization	Cost + 10%

Drilling is charged at 4 hours minimum.

Time is charged portal-to-portal from the drilling rig yard.

Casing, Shelby tubes and any special sampling or subcontract equipment will be charged at cost plus 10%.

LABORATORY TESTS

Soil/Aggregate Classification and Index Tests:

Atterberg Limits (Liquid Limit/Plastic Limit/ Plasticity Index):

Method A (Multi Point), ASTM D-4318/AASHTO T89 & T90	\$175.00
Method B (Single Point), ASTM D-4318/AASHTO T89 & T90	\$150.00
California Test Method, CT-204	\$175.00

Grain Size Distribution of Soil:

Sieve Analysis w/ Hydrometer ASTM D-422/AASHTO T88	\$200.00
Sieve Analysis w/o Hydrometer, ASTM D-422/AASHTO T88	\$110.00
Material Finer than #200 Sieve ASTM D-1140	\$ 85.00
California Test Method, CT-202	\$115.00

Grain Size Analysis of Aggregate:

Sieve Analysis ASTM C-136/AASHTO T27	\$120.00
Material Finer than #200 Sieve ASTM C-117/AASHTO T11	\$ 85.00
California Test Method, CT-202	\$125.00
Moisture Determination, ASTM D-2216/AASHTO T265/CT-226	\$ 25.00

R-Value:

Native Soil Samples ASTM D-2844/AASHTO T190/CT-301	\$280.00
With Additives, ASTM D-2844/AASHTO T190/CT-301	\$350.00

Sand Equivalent, ASTM D-2419/CT-217 \$120.00

Specific Gravity of Soil, ASTM D-854/AASHTO T100 \$100.00

Expansion Index, ASTM D4829 \$200.00

Cleanness Value of Coarse Aggregate, CT 227 \$145.00

Durability Index, CT 229 \$145.00



Moisture Density Relations/Compaction Curves:

Modified Proctor:

••• 4" Mold, ASTM D-1557/AASHTO T180	\$250.00
••• 6" Mold, ASTM D-1557/AASHTO T180	\$285.00
••• One Point Verification (Check Point)	\$100.00

Standard Proctor:

••• 4" Mold, ASTM D-698/AASHTO T99	\$250.00
••• 6" Mold, ASTM D-698/AASHTO T99	\$285.00
••• One Point Verification (Check Point)	\$100.00

Cal-Impact Test, CT-216	\$280.00
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Strength Tests:

Direct Shear:

••• CD Peak and Residual, ASTM D-3080 (per point)	\$225.00
••• CU Peak and Residual, ASTM D-3080 Modified (per point)	\$105.00
••• Unconfined Compression, ASTM D-2166/AASHTO T208	\$ 80.00

Consolidation & Expansion Tests:

Consolidation, ASTM D-2435	\$380.00
Expansion Pressure, ASTM D-3877	\$325.00

Concrete Testing:

Compressive Strength Testing, ASTM C-39 (per cylinder)	\$ 40.00
Compressive Strength of Shotcrete, ASTM C-1140 (per core)	\$ 65.00
Compressive Strength Testing, CT-521 (per cylinder)	\$ 60.00
Method of Test For Flexural Strength of Concrete, CT 523	\$145.00
Method of Test For Flexural Strength of Rapid Strength Concrete, CT 524	\$145.00
Shrinkage, ASTM C-157, Set of 3	\$400.00
Concrete Storage Processing and Disposal	\$ 15.00

Hot Mix Asphalt (HMA) Tests:

Bulk Specific Gravity of Compacted Hot Mix Asphalt	
••• Saturated Surface Dry Method, ASTM D2726/AASHTO T166	\$ 50.00
••• Coated Specimens, ASTM D-1188/AASHTO T275	\$ 55.00
••• California Test Method, CT-308	\$ 55.00
Moisture Content of HMA, AASHTO T329	\$ 25.00
Theoretical Maximum Density, ASTM D-2041, CT-309	\$145.00
Oil Content, CT-382	\$258.75

Miscellaneous:

Sample Preparation, if required (per hour)	\$ 96.50
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Triaxial, concrete, permeability or other special inspection testing services are individually quoted and billed at our cost.

