

**KLEINFELDER BAY AREA REGION 2009 FEE SCHEDULE FOR  
ENVIRONMENTAL, CONSTRUCTION MANAGEMENT AND  
GEOTECHNICAL/MATERIALS TESTING SERVICES**

**PROFESSIONAL STAFF RATES\***

	Non-Prevailing Wage	Prevailing Wage
Professional .....	\$ 128 / hour	\$ 133 / hour
Staff Professional I .....	\$ 148 / hour	\$ 150 / hour
Staff Professional II .....	\$ 160 / hour	\$ 168 / hour
Project Professional .....	\$ 170 / hour	\$ 180 / hour
Assistant Project Manager .....	\$ 152 / hour	\$ 162 / hour
Project Manager I .....	\$ 175 / hour	\$ 184 / hour
Project Manager II .....	\$ 179 / hour	\$ 188 / hour
Project Manager III .....	\$ 220 / hour	\$ 230 / hour
Senior Professional .....	\$ 195 / hour	\$ 205 / hour
Senior Project Manager .....	\$ 263 / hour	\$ 278 / hour
Principal Professional .....	\$ 220 / hour	\$ 230 / hour
Senior Principal .....	\$ 263 / hour	\$ 278 / hour
Program Manager / Client Manager .....	\$ 220 / hour	\$ 230 / hour
Senior Program Manager .....	\$ 243 / hour	\$ 255 / hour
V.P., Project Manager .....	\$ 250 / hour	\$ 295 / hour

**ADMINISTRATIVE/TECHNICAL STAFF RATES**

	Non-Prevailing Wage	Prevailing Wage
Administrative I .....	\$ 88 / hour	\$ 88 / hour
Construction Inspector I .....	\$ 107 / hour	\$ 110 / hour
Construction Inspector II .....	\$ 120 / hour	\$ 122 / hour
Construction Inspector III .....	\$ 125 / hour	\$ 135 / hour
Project Administrative .....	\$ 105 / hour	\$ 105 / hour
Technician I .....	\$ 90 / hour	\$ 95 / hour
Technician II .....	\$ 98 / hour	\$ 103 / hour
Technician III .....	\$ 107 / hour	\$ 115 / hour
Technician IV .....	\$ 114 / hour	\$ 123 / hour
Senior Technician .....	\$ 120 / hour	\$ 127 / hour
Supervisory Technician .....	\$ 144 / hour	\$ 156 / hour
Draftsperson .....	\$ 100 / hour	\$ 100 / hour
CADD Operator .....	\$ 120 / hour	\$ 120 / hour
Designer .....	\$ 130 / hour	\$ 130 / hour

Minimum Charges For Office Time Per Day ..... One Hour at  
Applicable Rate

Incremental Charges For Testing and Inspection ..... Four Hour Increments

Expert Witness ..... Two Times Normal Rate  
Plus Expenses

Kleinfelder reserves the right to adjust the fee schedule on projects not completed within 180 days from the contract signature date.

Public works projects or projects receiving public funds may be subject to Prevailing Wage laws. The above rates do not apply to projects subject to prevailing wages. Hourly rates for those projects will be supplied separately.

\* Applies to all professional rates including but not limited to civil, mechanical, chemical, electrical, geotechnical and environmental engineers; industrial hygienists; geologists; hydrogeologists; hydrologists; and computer specialists.

## BASIS OF CHARGES

1. Listed on the attached page are typical prices for services most frequently performed by Kleinfelder. Prices for other services, including special quotes for volume work, will be given upon request, but will be subject to the terms set forth below.
2. The client agrees to limit the Kleinfelder's liability to the client and to all agents of the client, including contractors and subcontractors on the project due to Kleinfelder's professional negligent acts, errors or omissions to \$50,000 or the consultant's fee, whichever is greater. Kleinfelder's liability (as defined above) on Materials Testing projects will be limited to the greater of \$2,500 or the amount of the Kleinfelder's fee.
3. Invoices will be issued on a monthly basis, or upon completion of a project, whichever is sooner. The net amount of invoices is payable on presentation of the invoice. If not paid within 30 days after the date of the invoice, the unpaid balance shall be subject to a FINANCE CHARGE of 1.5% per month, which is an ANNUAL PERCENTAGE RATE of 18%.
4. A two-hour minimum charge will be made for all field services. A four-hour minimum charge will be made for any field services in excess of two hours. A six-hour minimum charge will be made for field services in excess of four hours per day. An eight-hour minimum charge will be made for field services in excess of six hours per day.
5. A one-hour minimum charge per day will be made for any office service.
6. Time worked in excess of 8 hours per day and weekend/holiday work will be charged at 1.5 times the hourly rate. Time worked in excess of 12 hours per day will be charged at 2 times the hourly rate.
7. Per diem will be charged at a rate of \$127 per day per person or expenses plus 20%, whichever is greater. Per diem will be charged for all projects in excess of 50 miles from the nearest Kleinfelder office.
8. Outside services will include a 20% markup, unless otherwise noted.
9. In the event of above average increases in fuel costs, a fuel surcharge of 0 to 3% will be added to all invoices.
10. The proposed fee includes standard invoicing with time detail summary. Additional administrative time will be charged if invoice backup information (timesheets, daily field reports, or work summaries) is requested.
11. Certified payroll for prevailing wage projects will be provided only if requested and will be subject to additional charges for administrative time for each pay period.
12. Kleinfelder carries Worker's Compensation Insurance (including Employer's Liability), Comprehensive General Liability and property damage insurance for its own equipment, and will furnish certificates upon request.
13. Kleinfelder routinely disposes of non-environmental and uncontaminated samples after submission of our final report and reserves the right to return environmental sample to client, at its expense, after submission of our final report.
14. Proper disposal or handling of soil boring cuttings, well development and purge waters, decontamination solutions, and other contaminated/potentially contaminated materials is the responsibility of the client. Upon request, Kleinfelder can provide containers for onsite containment and can advise the client regarding proper handling procedures.
15. The proposed rates will be in effect for 90 days from the proposal date.
16. Kleinfelder reserves the right to adjust the fee schedule on projects not completed within 180 days from the contract signature date. For time and materials projects, any not to exceed amount will be similarly adjusted.

**KLEINFELDER BAY AREA REGION 2009 FEE SCHEDULE FOR  
ENVIRONMENTAL, CONSTRUCTION MANAGEMENT AND  
GEOTECHNICAL/MATERIALS TESTING SERVICES**

Kleinfelder is a consulting firm which provides services in geotechnical engineering, materials engineering and testing, engineering geology, hydrogeology, environmental engineering, geochemistry, industrial health and safety, mining engineering, water resources, construction management and agricultural engineering. Since 1961, the firm has provided consulting services to industries, governmental agencies, commercial firms, developers, and other design professionals.

**OFFICES AND TESTING LABORATORIES**

**ARIZONA**

1335 West Auto Drive  
Tempe, AZ 85284  
(480) 763-1200

2015 North Forbes Boulevard, #103  
Tucson, AZ 85745  
(520) 628-7769

**CALIFORNIA**

4400 Ashe Road, Suite 216  
Bakersfield, CA 93313  
(661) 831-2155

1370 Valley Vista Drive, Suite 150  
Diamond Bar, CA 91765  
(909) 396-0335

1410 F Street  
Fresno, CA 93706  
(559) 486-0750

2601 Barrington Court  
Hayward, CA 94545  
(925) 484-1700

8 Pasteur, Suite 190  
Irvine, CA 92618  
(949) 727-4466

620 West 16<sup>th</sup> Street, Unit F  
Long Beach, CA 90813  
(562) 432-1696

121 Heron Way, Suite D  
Merced, CA 95341  
(209) 384-7552

1224 6<sup>th</sup> Street  
Modesto, CA 95354  
(209) 577-4333

**CALIFORNIA (continued)**

1970 Broadway, Suite 710  
Oakland, CA 94612  
(510) 628-9000

981 Garcia Avenue, Suite A  
Pittsburg, CA 94565  
(925) 427-6477

4670 Willow Road, Suite 100  
Pleasanton, CA 94588  
(925) 484-1700

1220 Research Drive, Suite B  
Redlands, CA 92374  
(909) 793-2691

3077 Fite Circle  
Sacramento, CA 95827  
(916) 366-1701

40 Clark Street, Suite J  
Salinas, CA 93901  
(831) 755-7900

5015 Shoreham Place (Corp. HQ)  
San Diego, CA 92122  
(858) 320-2000

2011 North Capitol Avenue  
San Jose, CA 95132  
(408) 586-7611

2240 Northpoint Parkway  
Santa Rosa, CA 95407  
(707) 571-1883

2001 Arch-Airport Road, Suite 100  
Stockton, CA 95206  
(209) 948-1345

**CALIFORNIA (continued)**

43174 Business Park Drive, Suite 103  
Temecula, CA 92590  
(951) 506-1488

**COLORADO**

4815 List Drive, Unit #115  
Colorado Springs, CO 80919  
(719) 632-3593

611 Corporate Circle, Suite C  
Golden, CO 80401  
(303) 237-6601

10044 Granite Hill Drive  
Parker, CO 80134  
(303) 840-4571

3010 Granada Boulevard  
Pueblo, CO 81005  
(719) 546-1150

**CONNECTICUT**

99 Lamberton Road, Suite 201  
Windsor, CT 06095  
(860) 683-4200

**FLORIDA**

16017 N. Florida Avenue, Suite 104  
Lutz, FL 33549  
(813) 887-3900

**IDAHO**

2315 S. Cobalt Point Way  
Meridian, ID 83642  
(208) 893-9700

**KANSAS**

7802 Barton  
Lenexa, KS 66214  
(913) 962-0909

313 South Kansas Avenue  
Topeka, KS 66603  
(785) 267-7131

**MARYLAND**

1340 Charwood Road, Suite I  
Hanover, MD 21076  
(410) 850-0404

**MASSACHUSETTS**

30 Porter Road  
Littleton, MA 01460  
(978) 486-0060

**NEBRASKA**

3730 S. 149<sup>th</sup> Street, Suite 107  
Omaha, NE 68144  
(402) 331-2260

**NEVADA**

2701 Conestoga Drive, #120  
Carson City, NV 89706  
(775) 884-3886

6380 South Polaris Avenue  
Las Vegas, NV 89118  
(702) 736-2936

4835 Longley Lane  
Reno, NV 89502  
(775) 689-7800

**NEW JERSEY**

3 AAA Drive, First Floor  
Hamilton, NJ 08691  
(609) 584-5271

**NEW MEXICO**

8300 Jefferson NE, Suite B  
Albuquerque, NM 87113  
(505) 344-7373

**NEW YORK**

8 Automation Lane  
Albany, NY 12205  
(518) 437-6147

One Corporate Drive, Suite 201  
Bohemia, NY 11716  
(631) 218-0612

**NEW YORK (continued)**

1279 Route 300, Second Floor  
Newburgh, NY 12550  
(845) 567-6530

6390 Fly Road, Second Floor  
East Syracuse, NY 13057  
(315) 413-0181

**NORTH CAROLINA**

6200 Harris Technology Boulevard  
Charlotte, NC 28269  
(704) 598-1049

313 Gallimore Dairy Road  
Greensboro, NC 27409  
(336) 668-0093

3500 Gateway Centre Blvd., Suite 200  
Morrisville, NC 27560  
(919) 755-5011

1200 North 23<sup>rd</sup> Street, Suite 106  
Wilmington, NC 28405  
(910) 332-5080

**OKLAHOMA**

10835 E. Independence, Suite 102  
Tulsa, OK 74116  
(918) 627-6161

**OREGON**

15050 SW Koll Parkway, Suite L  
Beaverton, OR 97006  
(503) 644-9447

62915 18<sup>th</sup> Street, Suite 1  
Bend, OR 97701  
(541) 382-4707

**PENNSYLVANIA**

260 Executive Drive, Suite 500  
Cranberry Township, PA 16066  
(724) 772-7072

180 Sheree Boulevard, Suite 3800  
Exton, PA 19341  
(610) 430-7866

**SOUTH CAROLINA**

500 Lakeshore Parkway, Suite 101  
Rock Hill, SC 29730  
(803) 328-2441

**TEXAS**

1826 Kramer Lane, Suite M  
Austin, TX 78758  
(512) 926-6650

5002 Ambassador Row  
Corpus Christi, TX 78416  
(361) 854-4774

6850 Manhattan Boulevard, Suite 300  
Fort Worth, TX 76120  
(817) 429-6692

2035 Central Circle, Suite 110  
McKinney, TX 75069  
(972) 542-4362

8004 W. Highway 80  
Midland, TX 79706  
(432) 563-1100

326 N. Industrial Drive  
Waco, TX 76710  
(254) 754-0369

**UTAH**

849 West Levoy Drive, Suite 200  
Taylorsville, UT 84123  
(801) 261-3336

**WASHINGTON**

14710 NE 87<sup>th</sup> Street, Suite 100  
Redmond, WA 98052  
(425) 636-7900

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## ENVIRONMENTAL SAMPLING AND TESTING EQUIPMENT

### SOIL AND WATER

Centrifugal Water Pump*	\$108.00 / day
Concrete Bags - 50 Lbs	\$ 7.15 / each
Conductivity, pH, and Temperature Monitor	\$ 65.00 / day
Conductivity-Based Water Level Indicator	\$ 67.00 / day
Disposable Bailers	\$ 23.00 / each
Distilled Water	\$ 3.00 / gallon
Groundwater Sampling Truck/Trailer (Complete with generator, air compressor, sample pump and reel assembly, steam cleaner and water tank, water level indicator, conductivity, pH and temperature monitor, bailer) 4-hour minimum	\$ 89.00 / hour
Hand Auger and Soil Sampler	\$ 77.00 / day
Hermit 2000 Datalogger	\$619.00 / day
Oil/Water Interface Probe	\$ 171.00 / day
Level or Transit and Rod	\$108.00 / day
Line/Cable Locator	\$116.00 / day
Locks	\$ 8.35 / each
Mason Jars	\$ 24.00 / case
Measuring Wheel*	\$ 19.00 / day
Metal Detector*	\$ 18.15 / day
Mileage, Round Trip (depends on distance)	\$ 68.00 / day
Peristaltic Pump	\$ 89.00 / day
pH Meter*	\$ 29.45 / day
Photo Ionization Detector	\$221.00 / day
Portable Air Compressor*	\$ 29.45 / day
Portable Generator*	\$ 67.00 / day
Portable Generator (1.5 to 4 kW)	\$108.00 / day
Portable Generator (greater than 4 kW)	\$136.00 / day
QED Filters	\$ 27.00 / each
Sampling Kit	\$ 18.50 / day
Steam Cleaner (0.5 to 2 gpm)	\$ 88.00 / day
Walkie Talkie Set*	\$ 29.45 / day
Well Development Tool	\$ 71.50 / day

### AIR AND GAS

	<u>Rate/Day</u>	<u>Rate/Week</u>	<u>Rate/Month</u>
Calibration Gas	9.65	26.78	70.04
Combustible Gas Analyzer	88.00	386.00	876.00
Magnehelic Gauge	16.50	53.25	155.00
Moisture Meter	8.00	48.41	141.11
Organic Vapor Analyzer or Photoionization Detector	258.00	688.00	2,472.00
Submersible Pump (3")	75.00		
Tedlar Air Sample Bag	16.50 each	-	-
Test Trailer	453.00	1,643.00	4,532.00
Vibration Analyzer	100.00	-	-
Wind Speed and Direction Indicator (one system each)	-	465.00	1,493.50

\* Weekly and monthly rates available upon request.

**MONITORING WELL INSTALLATION MATERIALS\***

	2-inch	4-inch
Casing, PVC Plug .....	\$ 8.75 / each	\$ 29.45 / each
Casing, PVC Cap .....	\$ 18.15 / each	\$ 38.11 / each
Sand, 100-lb bag .....	\$ 36.30 / bag	
Bentonite Pellets, 50-lb bucket .....	\$ 136.00 / bucket	
55 Gallon Drums .....	\$ 68.00 / each	
Ground Water Depression Pump and Controller .....	\$1,133.00 / month	
Cement/Bentonite Slurry .....	\$ 147.00 / cubic yard	
Brass Tubes .....	\$ 9.00 / each	

\* Quotations on prices for PVC well casings greater than 4-inch diameter and other materials (stainless steel, etc.) provided on request.

**HEALTH AND SAFETY EQUIPMENT**

Level B Protection <sup>a</sup> .....	\$330.00 / day / person
Level C Protection <sup>a</sup> .....	\$221.00 / day / person
Level D Protection <sup>a</sup> .....	\$ 57.00 / day / person
Limited Level D Protection <sup>a</sup> .....	\$ 46.00 / day / person

<sup>a</sup> Charges for each protection level are based on dry work conditions and use of uncoated PVC/nitrile/neoprene gloves. A nominal charge for wet work conditions requiring coated or special chemical resistant coveralls (i.e., Saranex) and gloves (i.e., Viton) may be added.

**SPECIAL MEDICAL SURVEILLANCE COSTS**

Baseline physical costs are covered by the company; however, project-specific medical tests will be charged at cost, plus 20%.

## OTHER EQUIPMENT CHARGES

### **GEOPHYSICAL EXPLORATION EQUIPMENT**

Seismograph, Twelve Channel Nimbus Model ES1210F .....	\$561.00 / day
Resistivity Meter, Bison Model #2390 .....	\$187.00 / day
Magnetometer, Portable Proton-Geometrics Model 6816 .....	\$215.00 / day
Downhole Shear Wave Velocity Measurement .....	On Request
Slope Indicator (4-hour minimum) .....	\$ 55.00 / hour
Pneumatic Piezometer Indicator	
Sinco Model 51411-A .....	\$204.00 /day
Sealed Double Ring Infiltrometer	
Test Equipment .....	On Request

### **VEHICLES**

Vehicle, 2 Wheel Drive .....	\$ 10.00 / hour
Vehicle, 4 Wheel Drive .....	\$ 19.00 / hour
Mileage, 2 Wheel Drive .....	\$ 1.00 / mile
Mileage, 4 Wheel Drive .....	\$ 2.00 / mile
Vehicle Equipped with Standard Field Testing Equipment .....	\$ 19.00 / hour
Vehicle Equipped with Nuclear Density Testing Equipment .....	\$ 25.00 / hour
Vehicle Equipped with Ultrasonic, Magnetic Particle, and Dye Penetrant Testing Equipment .....	\$ 25.00 / hour
Utility Trailer .....	\$ 55.00 / day
Hydraulic Hand Lift .....	\$ 32.96 / day

### **OFFICE EQUIPMENT**

Microcomputer, basic software systems and supporting hardware .....	\$ 23.30 / hour
Mainframe Computer Time-Sharing (per CPU minute) .....	\$ 9.27 / minute
Camera and Film .....	\$ 23.95 / week
Computer Connect Time .....	\$ 7.73 / hour
Disk Storage (per megabyte).....	\$ 76.22 / month
Environmental Information Management System Software Surcharge.....	\$ 16.48 / hour
Project Management and CPM Software Surcharge .....	\$ 16.48 / hour
Reproduction .....	\$ 0.65 / page
Telephone .....	\$ 0.60 / minute
Facsimile Copies .....	\$ 2.90 / page
Report Surcharge .....	\$ 41.80 / copy
Large Format Drawing Copies, 20-lb Bond .....	\$ .55 / sq ft
Large Format Drawing Copies, Erasable Vellum .....	\$ 1.65 / sq ft
Large Format Drawing Copies, Mylar .....	\$ 3.30 / each
Mylar Reproductions.....	\$ 16.48 / sheet
Autocad Drafting, Hardware and Software .....	\$ 32.96 / hour
Autocad Drawing Plots .....	\$ 1.65 / minute
Video Camera .....	\$108.00 / day

## GEOTECHNICAL/MATERIALS TESTING EQUIPMENT CHARGES

### **MATERIALS TESTING EQUIPMENT**

Skidmore Wilhelm Bolt Tension Calibrator .....	\$100.00 / day
Torque Wrench .....	\$ 75.00 / day
Schmidt Hammer .....	\$100.00 / day
R Meter (Pachometer)/Ferroscan .....	\$150.00 / day
Windsor Probe .....	\$150.00 / day
Anchor Bolt Testing Device .....	\$140.00 / day
Concrete Vapor Transmission Test Kit .....	\$ 75.00 / kit
Thin Lift Nuclear Asphalt Gauge .....	\$100.00 / day
Nuclear Asphalt Content Gauge .....	\$100.00 / day
Coring Machine with Generator .....	\$180.00 / day
Floor Flatness Testing Device .....	\$150.00 / day

### **Diamond Bit Core Barrel Charge**

2" Diameter .....	\$ 2.00 / inch
3" Diameter .....	\$ 3.00 / inch
4" Diameter .....	\$ 4.00 / inch
6" Diameter .....	\$ 6.00 / inch
8" Diameter .....	\$ 8.00 / inch
Minimum bit charge-6" per job	

## SOIL AND AGGREGATE TESTS

### **COMPACTION CURVES**

Standard 4" Mold.....	D-698 Method A	\$221.00 / each
Standard 6" Mold.....	D-698 Method B, C	\$221.00 / each
Modified, 4" Mold .....	D-1557 Method A	\$221.00 / each
Modified, 6" Mold .....	D-1557 Method B, C	\$221.00 / each
California Impact, Dry Method.....	CAL-216-F	\$244.00 / each
California Impact, Wet Method .....	CAL-216	\$209.00 / each
Check Point.....		\$110.00 / each

### **SOIL AND AGGREGATE STABILITY**

R-Value, Untreated Material .....	D-2844, CAL-301	\$300.00 / each
R-Value, Reproportioned or Chemically Treated.....	D-2844, CAL-301	\$355.00 / each
Soil Cement, C.T.B., Mix Design .....		On Request
C.T.B. Compression Test, (Includes Preparation) .....	CAL-312	\$1029.00 / each
Lime-Treated Compression Test.....	CAL-373	\$1060.00 / each
Check Point or Additional Lime Percentage.....	CAL-373	\$340.00 / each

### **BASIC SOIL AND AGGREGATE PROPERTIES**

Sieve Analysis, Coarse and Fine Including Wash .....	C-136, D-422, CAL-202	\$153.00 / each
Sieve Analysis, Coarse (Retained on No. 4 Sieve) .....	C-136, CAL-202	\$125.00 / each
Sieve Analysis, Fine Including Wash (Passing No. 4 Sieve) .....	C-136, CAL-202	\$132.00 / each
Sieve Analysis, Wash (% Finer than No. 200 Sieve) .....	C-117, D-1140	\$ 94.00 / each
Hydrometer (Without Sieve Analysis) .....	D-422, CAL-203	\$186.00 / each
Hydrometer (Including Sieve Analysis) .....	D-422, CAL-203	\$278.00 / each
Specific Gravity .....	D-854	\$106.00 / each
Sand Equivalent, Average of 3.....	D-2419, CAL-217	\$119.00 / each
Sand Equivalent, One Point Method .....		\$ 77.00 / each
Plasticity Index .....	D-4318, CAL-204	\$170.00 / each
Liquid Limit.....	D-4318, CAL-204	\$113.00 / each
Expansion Index Test .....	D-4829, UBC 18-2	\$216.00 / each
Moisture Determination and Unit Weight .....	D-2216, D-2937, D-4643	\$ 53.00 / each
Moisture Determination Only .....	D-2216, D-4643, CAL-226	\$ 25.00 / each
pH Test (Laboratory Measurement) .....	EPA-9045	\$ 63.00 / each
pH Test, Lime Treated Soils .....	C-977	\$148.00 / each
Organic Content-Soils .....	D-2974	\$121.00 / each

## SOIL AND AGGREGATE TESTS (Cont.)

### HYDRAULIC CONDUCTIVITY

Flexible Wall, Falling Head.....	D-5084, EM 1110-2-1906	\$391.00 / each
Perm-Additional Cell Time (per day) .....		\$ 60.00 / each

### SAMPLE PREPARATION

Remolding.....		\$ 79.00 / each
Preparation and Splitting .....		\$ 30.00 / each
Contaminated Soil Handling .....		\$ 9.00 / each
Soil and Aggregate Miscellaneous Preparation.....		\$ 82.00 / hour
Shelby Tube Prep/Trimming.....		\$ 7.75 / each

### SHEAR STRENGTH AND CONSOLIDATION TESTS

Unconfined Compression, Including Moisture Content and Unit Weight .....	D-2166	\$120.00 / each
Triaxial Compression Test		
Quick Per Point.....	D-2850	\$143.00 / point
CU Saturated .....	D-4767	\$325.00 / point
CU Saturated with Pore Water Pressure .....	D-4767	\$465.00 / point
Direct Shear (Quick) Per Point (Dry).....	D-3080	\$136.00 / each
Direct Shear (3 point staged test) (Saturated).....		\$356.00 / each
Direct Shear (Residual) Per Point (Saturated)(up to 0.25" displacement) .....		\$131.00 / point
Consolidation, With Two Time Rates.....	D-2435	\$515.00 / test
Consolidation, Without Time Rate .....	D-2435	\$345.00 / test
Collapse Potential .....	D-5333	\$116.00 / each
Consolidation, Additional Loads, Time Rate .....		\$ 82.00 / each
Swell Pressure/Per Point .....	D-4546	\$125.00 / each

Note: Special testing procedures that deviate from standard will be charged on a time and expense basis.

### AGGREGATE QUALITY

Injurious Organic Matter .....	C-40	\$ 79.00 / each
Specific Gravity and Absorption, Gravel .....	C-127, CAL-206	\$ 77.00 / each
Specific Gravity and Absorption, Sand .....	C-128, CAL-207	\$129.00 / each
Unit Weight, Average of 3 .....	C-29, CAL-212	\$ 90.00 / test
Los Angeles Abrasion Test-500 Revolutions.....	C-131, CAL-211	\$194.00 / each
Los Angeles Abrasion Test-1,000 Revolutions.....	C-535, CAL-211	\$249.00 / each
Sulfate Soundness (5 Cycles) Per Sieve Size.....	C-88, CAL-214	\$109.00 / each
Mortar Making Properties of Sand .....	C-87, CAL-515	\$623.00 / each
Potential Reactivity Test.....	C-289	On Request
Cleanness Test (Referee Test).....	CAL-227	\$175.00 / each
Crushed Particles per sieve size.....	D-693, CAL-205	\$125.00 / each
Flat and Elongated Particles per sieve size .....	D-4791, CE-119, CE-120	\$121.00 / each
Clay Lumps and Friable Particles .....	C-142	\$125.00 / each
Lightweight Pieces in Aggregate, Per Sieve Size.....	C-123	\$408.00 / each
Durability, Fine .....	D-3744, CAL-229	\$125.00 / each
Durability, Coarse.....	D-3744, CAL-229	\$206.00 / each
Durability Index, Coarse and Fine.....	D-3744, CAL-229	\$312.00 / test
Acid Soluability.....	AWWA B100	\$ 82.00 / each

## CONCRETE

Concrete Mix Design Review.....		\$209.00 / each
Laboratory Trial Batch, Including Compression Testing of Six Specimens .....		\$673.00 / each
Concrete Cylinder Cured and/or Compression Tested .....	C-39, CAL-521	\$ 27.00 / each
Compression Test, Lightweight Insulating Concrete .....	C-495	\$ 63.00 / each
Unit Weight of Concrete Cylinders.....	C-138	\$ 63.00 / each
Flexural Strength, Concrete Beam.....	C-78, C-293, CAL-523	\$118.00 / each
Compression Test on Cored Specimens (Includes End Preparation) .....	C-42	\$ 68.00 / each*
Cylinder Molds .....		\$ 3.00 / each
Drying Shrinkage Test, set of 3.....	C-157	\$499.00 / each
Modulus of Elasticity of Concrete Cylinder (3"x6", 4"x8", 6"x12").....	C-469	\$270.00 / each
Splitting Tensile Strength.....	C-496	\$ 88.00 / each
Density of Spray Applied Fireproofing .....	E-605	\$ 81.00 / each
Unit Weight of Lightweight Concrete.....	C-567	\$ 81.00 / each
Potential Alkali/Silica Reactivity (Short-Term Expansion, 0-14 days).....	C-1260	\$1185.00 / each
Potential Alkali/Silica Reactivity (Long-Term Expansion, more than 14 days).....	C-227	\$2090.00 / each
Potential Alkali/Silica Reactivity (Long-Term Length Change, 1-2 years).....	C1293	\$2250.00 / each

\* Does not include coring

## MASONRY

Grout or Mortar Specimen		
Cured and/or Compression Tested.....	C-109, C-579, C-942, C-1019, UBC 21-16, UBC 21-18	\$ 26.40 / each
Compression Test, Masonry Units .....	C140	\$ 68.00 / each
Preparation of Masonry Coupon .....		\$ 24.00 / each
Compression Test, 8 x 8 x 16 Prisms or smaller .....	E-447, UBC 21-17	\$ 99.00 / each
Compression Test, 10 x 8 x 16 Prisms or smaller .....	E-447, UBC 21-17	\$110.00 / each
Compression Test, 12 x 8 x 16 Prisms or smaller .....	E-447, UBC 21-17	\$121.00 / each
Absorption and Received Moisture, Masonry Unit.....	C-140	\$102.00 / each
Lineal Shrinkage, Masonry Units .....	C-426	\$283.00 / each
Compression Strength, Brick .....	C-67	\$ 68.00 / each
Modulus of Rupture, Brick .....	C-67	\$ 71.50 / each
Absorption Test, Brick, with Saturation Coefficiency .....	C-67	\$110.00 / each
Shear Test on Masonry or Brick Cores .....	CAL-644	\$ 68.00 / each
Breaking Load, Roof Tile.....	UBC 15-5	\$ 49.00 / each
Absorption, Roof Tile.....	UBC 15-5	\$ 79.00 / each

## ASPHALT

Centrifuge Kerosene Equivalent .....	CAL-303	\$269.00 / each
Extraction, % Bitumen.....	D-1856, D-2172	\$174.00 / each
Extraction, % Bitumen, with Gradation .....		\$299.00 / each
Film Stripping.....	CAL-302	\$165.00 / each
Stabilometer Test and Mixing of Sample .....	D-1560, CAL-304/366	\$312.00 / each
Stabilometer Test on Premixed Sample .....	D-1560, CAL-366	\$174.00 / each
Complete Design of Wearing Surface for a Given Asphalt and Aggregate, Hveem or Marshall Method .....		On Request
Marshall Stability and Flow-Set of 3 (Without Mixing).....	D-6926, D-6927	\$387.00 / set
Marshall Stability and Flow-Set of 3 (Lab Mixed) .....	D-6926, D-6927	\$511.00 / set
Unit Weight of Core or Compacted Sample.....	D-1188, D-2726, CAL-308	\$ 51.00 / each
Sample Preparation for Compacting Sample.....		\$ 80.00 / each
Max Density of Mix by Marshall Method, Set of 3 (Without Mixing) ....	D-6926, D-2726	\$250.00 / set
Max Density of Mix by Hveem Method, Set of 5 (Without Mixing) LTMD, CAL-304/308A		\$321.00 / set
Maximum Theoretical Specific Gravity (Rice Method) .....	D-2041, CAL-309	\$162.00 / each
Index of Retained Strength.....	D-1074, D-1075	\$1246.00 / each
Resistance of Bituminous Mixture to Moisture Induced Damage (TSR) .....	CAL-371	\$2040.00 / each
Oil Content by Ignition Oven .....	CAL-382, ASTM D-6307	\$165.00 / each
Ignition Oven Calibration.....	CAL-382, ASTM D-6307	\$321.00 / each
Tensile Strength Ratio.....	ASTM D-4867, AASHTO T-283	\$1412.00 / each

## ASPHALT BINDER

AC Recovery by Rotovapor .....	ASTM D-5404	\$399.00 / each
Kinematic Viscosity .....	ASTM D-2170	\$187.00 / each
Absolute Viscosity .....	ASTM D-2171	\$215.00 / each
Penetration.....	ASTM D-5	\$ 75.00 / each
Ductility, per test.....	ASTM D-113	\$136.00 / each

## METALS

Tensile, up to 0.5 sq. in. Cross Sectional Area	A-36, A-500, A-570, A-572, A-615, A-706	\$ 81.00 / each*
Tensile, 0.5 to 1.8 sq. in. Cross Sectional Area	A-36, A-500, A-570, A-572, A-615, A-706	\$ 94.00 / each*
Bend Test.....	A-370, A-709	\$ 52.00 / each*
Tensile and Bend, up to 0.5 sq. in. Cross Sectional Area.....		\$ 100.00 / each*
Tensile and Bend, 0.5 to 1.8 sq. in.....		\$112.00 / each*
Tensile and Bend, > 1.8 sq. in. Cross Sectional Area.....		On Request
Rebar Coupler, Slippage Test, Including Ultimate Tensile Strength ...	A-370, CTM-670	\$144.00 / each
Rebar Coupler, Ultimate Strength, Tensile Only .....	A-370, CTM-670	\$ 88.00 / each
Rebar Splice Test (Ultimate), Tensile (sample or control bar) .....	A-370, CTM-670	\$ 88.00 / each
Rockwell Hardness (Per Piece) .....	A-307, A-325, A-449, A-563, E-18, F-844	\$ 49.50 / each
Rockwell Hardness, Bolt Assembly (Set of 3)	A-307, A-325, A-449, A-563, E-18, F-844	\$121.00 / each
Dimension Verification (Bolt, Nut, Washer, or P.T. Strand) .....	A-307, A-325, A-449, A-563, F-436, F-844	\$ 49.50 / each
Proof Load (Bolt, Nut, or High-Strength Rod).....	A-307, A-325, A-449, A-563, F-606	\$ 49.50 / each
Bolt Thread Pitch Verification .....	A-307, A-325, A-449, A-563, F-606	\$ 49.50 / each
Bolt Wedge Tensile .....	A-307, A-325, A-449, A-563, F-606	\$ 49.50 / each
Thickness of Coating (Per Piece) .....	E-376	\$ 49.50 / each
Weight of Coating .....	A-90	\$100.00 / each

\* Does not include machining costs, if required.

## WELDING QUALIFICATIONS-STRUCTURAL STEEL (PHYSICAL TEST METHOD-ASME, AWS, API, TITLE 21)

Operator Performance and Procedure Tests.....		On Request
Machining and Material Costs.....		At Cost +20%
Guided Bend Test, face or root.....		\$ 50.00 / each*
Side Bend Test.....		\$ 50.00 / each*
Free Bend Test.....		\$ 50.00 / each*
Tensile Test (reduced section).....		\$ 71.50 / each*
Macroetch Test.....		\$125.00 / each
Fracture Test.....		\$ 42.00 / each*
T Bend Test.....		\$ 43.00 / each*
Qualification tests also available by X-ray procedures .....		On Request

\* Does not include machining costs, if required.

## ROOFING TESTS (ASTM D-2829, D-3617)

Quantitative Analysis.....		\$437.00 / each
Unit Weight of Surfacing .....		\$112.00 / each
Unit Weight of Sample .....		\$100.00 / each
Diagram of Sample .....		\$125.00 / each
Void Analysis.....		\$125.00 / each
Ply Type Identification .....		\$ 91.00 / each
Mat Type Identification .....		\$ 94.00 / each
Compliance Report.....		On Request
Roof Moisture Survey.....		On Request
Bitumen Content of Adhered Aggregate .....	D-4074	\$157.00 / each
Softening Point, Ring & Ball .....	ASTM D-36	\$300.00 / each