

# AGREEMENT AMENDMENT

City Manager's Office  
701 Laurel St., Menlo Park, CA 94025  
tel 650-330-6620



Amendment#: 1388-A2

## AGREEMENT FOR SERVICES BETWEEN THE CITY OF MENLO PARK AND SIGNET TESTING LABORATORIES, INC.

THIS SECOND AMENDMENT is made and entered into this 15 day of July, 2019, by and between the CITY OF MENLO PARK, a Municipal Corporation, hereinafter referred to as "CITY," and SIGNET TESTING LABS, INC., hereinafter referred to as "FIRST PARTY."

1. Pursuant to Section III. COMPENSATION AND PAYMENT of Agreement No. 1388, to read as follows:

"A. CITY shall pay FIRST PARTY an all-inclusive fee that shall not exceed the amount as described in Exhibit "A", Scope of Services – revised hourly rates. This compensation shall be based on the rates described in Exhibit "A". All payments, including fixed hourly rates, shall be inclusive of all indirect and direct charges to the Project incurred by FIRST PARTY. Hourly rates will not be revised for the term of the agreement."

2. Pursuant to Section EXHIBIT "A" SCOPE OF SERVICES. 2. COMPENSATION of Agreement No. 1388, to read as follows:

"CITY hereby agrees to pay FIRST PARTY at the rates to be negotiated between FIRST PARTY and CITY as detailed in the revised Exhibit A-1. The actual charges shall be based upon (a) FIRST PARTY's standard hourly rate for various classifications of personnel; (b) all fees, salaries and expenses to be paid to engineers, consultants, independent contractors, or agents employed by FIRST PARTY; and shall (c) include reimbursement for mileage, courier and plan reproduction. The total fee for each separate Scope of Work agreed to between the City and FIRST PARTY shall not exceed the amount shown in the purchase order. The detailed scope of work for each task/project will remain in effect for the term of the approved purchase order setting forth the scope of work and the fee for the scope of work with no hourly increases until the task/project is complete."

3. Pursuant to Section XXII. AGREEMENT TERM of Agreement No. 1388, to read as follows:

"This agreement shall remain in effect for the period of July 1, 2019 through June 30, 2020 unless extended, amended or terminated in writing by City."

Except as modified by this Amendment, all other terms and conditions of Agreement No. 1388 remain the same.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first above written.

SIGNATURE PAGE TO FOLLOW

**FOR FIRST PARTY:**

Ryan S. Smith  
Signature

6/18/2019  
Date

Ryan S. Smith  
Printed name

General Manager  
Title

94-3297332  
Tax ID#

**APPROVED AS TO FORM:**

[Signature]  
William L. McClure, City Attorney

7/2/19  
Date

**FOR CITY OF MENLO PARK:**

[Signature]  
Starla Jerome-Robinson, City Manager

7/15/17  
Date

**ATTEST:**

[Signature]  
Judi A. Herren, City Clerk

7/16/19  
Date

**EXHIBIT "A"**  
**SCOPE OF SERVICES**

1. **SCOPE OF WORK** FIRST PARTY agrees to provide consultant services for CITY's Public Works Department. In the event of any discrepancy between any of the terms of the FIRST PARTY's proposal and those of this agreement, the version most favorable to the CITY shall prevail. FIRST PARTY shall provide the following services:

Provide general consultant services for projects as determined by the CITY. The detailed scope of work for each task the CITY assigns the consultant shall be referred to as Exhibit A -1, which will become part of this agreement. A notice to proceed will be issued separately for each separate scope of work agreed to between the CITY and FIRST PARTY.

FIRST PARTY agrees to perform these services as directed by the CITY in accordance with the standards of its profession and CITY's satisfaction.

2. **COMPENSATION** CITY hereby agrees to pay FIRST PARTY at the rates to be negotiated between FIRST PARTY and CITY as detailed in Exhibit A-1. The actual charges shall be based upon (a) FIRST PARTY's standard hourly rate for various classifications of personnel; (b) all fees, salaries and expenses to be paid to engineers, consultants, independent contractors, or agents employed by FIRST PARTY; and shall (c) include reimbursement for mileage, courier and plan reproduction. The total fee for each separate Scope of Work agreed to between the City and FIRST PARTY shall not exceed the amount shown in Exhibit A-1.

FIRST PARTY shall be paid within thirty (30) days after approval of billing for work completed and approved by the CITY. Invoices shall be submitted containing all information contained in paragraph five (5) below. In no event shall FIRST PARTY be entitled to compensation for extra work unless an approved change order, or other written authorization describing the extra work and payment terms, has been executed by CITY prior to the commencement of the work.

3. **SCHEDULE OF WORK** FIRST PARTY'S proposed schedule for the various services required will be set forth in Exhibit A-1.

4. **CHANGES IN WORK -- EXTRA WORK** In addition to services described in Section 1, the parties may from time to time agree in writing that FIRST PARTY, for additional compensation, shall perform additional services including but not limited to:

- Change in the services because of changes in scope of the work.
- Additional tasks not specified herein as required by the CITY.

The CITY and CONSULTANT shall agree in writing to any changes in compensation and/or changes in FIRST PARTY's services prior to the commencement of any work. If FIRST PARTY deems work he/she has been directed to perform is beyond the scope of this agreement and constitutes extra work, FIRST PARTY shall immediately inform the CITY in writing of the fact. The CITY shall make a determination as to whether such work is in fact beyond the scope of this agreement and constitutes extra work. In the event that the CITY determines that such work does constitute extra work, it shall provide compensation to the FIRST PARTY in accordance with an agreed cost that is fair and equitable. This cost will be mutually agreed upon by the CITY and FIRST PARTY. A supplemental agreement providing for such compensation for extra work shall be negotiated between the CITY and the FIRST PARTY. Such supplemental agreement shall be executed by the FIRST PARTY and may be approved by the City Manager upon recommendation of the Engineering Services Manager.

5. **BILLINGS** FIRST PARTY's bills shall include the following information: A brief description of services performed; The date the services were performed; The number of hours spent and by whom; The current contract amount; The current invoice amount; The FIRST PARTY's signature; Except as specifically authorized by CITY, FIRST PARTY shall not bill CITY for duplicate services performed by more than one person. In no event shall FIRST PARTY submit any billing for an amount in excess of the maximum amount of compensation provided in Section 2.

The expenses of any office, including furniture and equipment rental, supplies, salaries of employees, telephone calls, postage, advertising, and all other expenses incurred by FIRST PARTY in the performances of this agreement shall be incurred at the FIRST PARTY's discretion. Such expenses shall be FIRST PARTY's sole financial responsibility.

**2019-2020 REVISED SCHEDULE OF FEES AND SERVICES**

**PROFESSIONAL SERVICES**

|      |  |               |
|------|--|---------------|
| 1000 | Expert Witness.....                                  | \$365.00/hour |
| 1005 | Principal Engineer.....                              | 215.00/hour   |
| 1010 | Geotechnical Engineer.....                           | 190.00/hour   |
| 1015 | Project Engineer / Executive.....                    | 180.00/hour   |
| 1020 | Staff Engineer.....                                  | 170.00/hour   |
| 1025 | Project Manager.....                                 | 170.00/hour   |
| 1030 | Quality Control Manager.....                         | 160.00/hour   |
| 1032 | Lead Construction Inspector /Resident Inspector..... | 150.00/hour   |
| 1035 | Laboratory Technician.....                           | 100.00/hour   |
| 1040 | Technical Assistant, Administrative, Draftsman.....  | 90.00/hour    |

**INSPECTION AND TESTING SERVICES**

**Soils / Asphalt Concrete:**

|      |  |               |
|------|--|---------------|
| 2001 | Soil Compaction Testing & Observation.....       | \$100.00/hour |
| 2104 | Soils Observation & Sampling w/o compaction..... | 100.00/hour   |
| 2102 | AC Compaction Testing & Observation.....         | 100.00/hour   |
| 2111 | AC Placement Obs. & Sampling w/o compaction..... | 100.00/hour   |
| 2105 | AC Batch Plant Inspection / Sampling.....        | 100.00/hour   |
| 2110 | Material Sampling / Transportation.....          | 100.00/hour   |
| 2205 | Pile / Pier Installation Observation.....        | 140.00/hour   |

**Portland Cement Concrete / Shotcrete / Gunite:**

|      |  |               |
|------|--|---------------|
| 3103 | Concrete Placement Inspection.....               | \$100.00/hour |
| 3104 | Concrete Sampling Only.....                      | 100.00/hour   |
| 3105 | PCC Batch Plant Inspection.....                  | 100.00/hour   |
| 3110 | NS Grout Inspection / Sampling.....              | 100.00/hour   |
| 3123 | Prestressed Concrete Pile Plant Inspection.....  | 100.00/hour   |
| 3503 | Shotcrete / Gunite Placement Inspection.....     | 100.00/hour   |
| 3501 | DSA Shotcrete / Gunite Placement Inspection..... | 140.00/hour   |

**Reinforcing Steel / PT Strand:**

|      |  |               |
|------|--|---------------|
| 3102 | Rebar Placement Inspection.....              | \$100.00/hour |
| 3609 | Rebar / PT Strand ID Sampling / Tagging..... | 100.00/hour   |
| 3208 | PT Strand Stressing Inspection.....          | 100.00/hour   |

**Masonry:**

|      |  |               |
|------|--|---------------|
| 3701 | DSA Continuous Masonry Inspection..... | \$140.00/hour |
| 3703 | Continuous Masonry Inspection.....     | 100.00/hour   |
| 3706 | Masonry Brick / Veneer Inspection..... | 100.00/hour   |
| 3710 | Periodic Masonry Inspection.....       | 100.00/hour   |
| 3715 | Masonry Sampling / Tagging.....        | 100.00/hour   |

**FIELD TESTING EQUIPMENT RATES**

|      |  |              |
|------|--|--------------|
| 1610 | Anchor Load / Epoxy Tester / Torque Wrench ... | \$25.00/hour |
| 1611 | Nuclear Gauge or Sand Cone.....                | 25.00/hour   |
| 1612 | Skidmore Wilhelm H. S. Bolt Calibrator.....    | 40.00/hour   |
| 1613 | UT / MT / PT Gauge.....                        | 25.00/hour   |
| 1614 | Floor Flatness.....                            | 70.00/hour   |
| 1615 | Paint Coating Gauge / Moisture Meter.....      | 20.00/hour   |
| 1617 | Ground Penetrating Radar.....                  | 70.00/hour   |

**Structural Steel:**

|      |                                       |               |
|------|---------------------------------------|---------------|
| 5101 | Field Welding Inspection.....         | \$100.00/hour |
| 5103 | High Strength Bolting Inspection..... | 100.00/hour   |
| 5104 | Field UT Testing.....                 | 100.00/hour   |
| 5105 | Field MT Testing.....                 | 100.00/hour   |
| 5106 | Field PT Testing.....                 | 100.00/hour   |
| 5201 | Shop Welding Inspection.....          | 100.00/hour   |
| 5202 | Shop MT Testing.....                  | 100.00/hour   |
| 5203 | Shop PT Testing.....                  | 100.00/hour   |
| 5204 | Shop UT Testing.....                  | 100.00/hour   |
| 5205 | Shop Material ID.....                 | 100.00/hour   |

**Spray-Applied Fire Resistive Materials (SFRM) Fireproofing:**

|      |                                   |               |
|------|-----------------------------------|---------------|
| 6002 | SFRM Application of SFRM.....     | \$100.00/hour |
| 6002 | SFRM Field Measure Thickness..... | 100.00/hour   |
| 6002 | SFRM Sampling.....                | 100.00/hour   |
| 6003 | SFRM Bond Strength Testing.....   | 100.00/hour   |

**Roof / Wood / Waterproofing Division:**

|      |  |               |
|------|--|---------------|
| 7003 | Built-up Roofing Placement Inspection..... | \$135.00/hour |
| 7004 | Diaphragm Nailing Inspection.....          | 100.00/hour   |
| 7005 | Shear Wall Nailing Inspection.....         | 100.00/hour   |
| 7060 | Waterproofing Inspection.....              | 145.00/hour   |
| 7005 | Glue Laminated Beam Inspection.....        | 195.00/hour   |

**Specialty Testing Division:**

|      |  |               |
|------|--|---------------|
| 9001 | Anchor Load / Torque Testing.....                | \$100.00/hour |
| 9006 | Witness Dowel / Anchor Installation.....         | 100.00/hour   |
| 9008 | Pachometer.....                                  | 150.00/hour   |
| 9007 | Schmidt Hammer Testing.....                      | 150.00/hour   |
| 9011 | Ground Penetrating Radar Survey (GPR).....       | 225.00/hour   |
| 8161 | Floor Flatness Survey (Dipstick).....            | 195.00/hour   |
| 8220 | Moisture Vapor Emission Testing.....             | 140.00/hour   |
| 7062 | Moisture Content Testing.....                    | 150.00/hour   |
| 9703 | Coatings Inspection.....                         | 150.00/hour   |
| 3108 | Coring Technician, One Man.....                  | 225.00/hour   |
| 9705 | Specialty Technician (FRP, Profometer, etc)..... | 195.00/hour   |

**Sample Pick-Up and Equipment Transport:**

|      |                         |              |
|------|-------------------------|--------------|
| 0209 | Pick-Up / Delivery..... | \$95.00/hour |
|------|-------------------------|--------------|

Transportation of samples when scheduled outside of normal business hours will incur premium rates and 4/hour minimums. Note: Above rates shall be defined as "Basic Rates"; these rates do not include any applicable premium rates as presented in the Basis of Charges.

|      |  |              |
|------|--|--------------|
| 1618 | Pachometer / Profometer / Schmidt Hammer.....        | \$25.00/hour |
| 1619 | Coring Equipment (Drill, bits, generator, etc.)..... | 75.00/hour   |
| 1620 | Core Barrel Usage (per inch drilled).....            | 15.00/inch   |
| 1621 | Fireproofing Cohesion / Vapor Emission / RH.....     | 85.00/each   |
| 1622 | FRP Test Pucks.....                                  | 60.00/each   |
| 1160 | Concrete Testing (Air Meter, Slump, Scale).....      | 15.00/hour   |
| 0221 | Project Laptop Computer / Smart Tablet.....          | 20.00/day    |



## BASIS OF CHARGES

Signet is signatory to a labor agreement with Operating Engineers Local Union No. 3 (OE3) and our inspection and testing personnel are members of OE3. With consideration of Prevailing Wage requirements, as determined by the California Department of Industrial Relations, and the labor agreement with OE3, we have minimum charges for field services and premium time rates that correspond to labor costs as set within the prevailing wage determination, OE3 labor agreement requirements, and our overall cost structure. Including:

| <u>Minimums &amp; Increments:</u>     | <u>Hours</u>           |
|---------------------------------------|------------------------|
| Show-Up Cancellation Time* .....      | 2                      |
| Work Performed 0-4 hours.....         | 4                      |
| Work Performed 4-8 hours.....         | 8                      |
| Work +8 hours.....                    | 2                      |
| When required to work thru lunch..... | 0.5 Hr @ 2X Basic Rate |
| Project Minimum Charge.....           | \$885.00               |

\* Show-up time for scheduled work with no work performed and notice of cancellation of less than 4 hours (notice must be provided by telephone to our dispatcher during normal business hours of 7 AM to 4 PM). Premium time rates will apply for work performed outside of normal business hours.

**Premium Charges Added to Hourly Rates\*:**

|                                 |                  |
|---------------------------------|------------------|
| Shift Differential**.....       | Rate + 20%       |
| Over 8 hours on Weekdays .....  | 1.5 x Basic Rate |
| First 8 hours on Saturday ..... | 1.5 x Basic Rate |
| Over 12 hours on Weekdays ..... | 2 x Basic Rate   |
| Over 8 hours on Saturday .....  | 2 x Basic Rate   |
| Sunday and Holidays .....       | 2 x Basic Rate   |

\* Shall also apply to Professional Services Staff

\*\* For shifts beginning after 2:00 PM or before 4:00 AM where more than 5 consecutive days of service is scheduled for the shift inspector. Less than 5 days of consecutive shift work will result in additional charges including OT and DT due to rescheduling staff around normal workday schedules.

**Travel Time:**

Services, including mileage and travel time, are charged portal to portal from point of dispatch. Travel time will be invoiced in accordance with the associated service rate and when applicable include any premium charges associated with performing the work. Where specialty equipment is required, such as a nuclear density gauge which must be stored at our State licensed facility, or proof-load test equipment, the inspector's or technician's reporting location is the laboratory.

**Reimbursable Expenses:**

|  |              |
|--|--------------|
| 0217 Trip Charge (25/mile radius of Signet office).....    | \$90.00/Trip |
| 0218 Trip Charge (25-50/mile radius of Signet office)..... | 95.00/Trip   |
| 0218 Trip Charge (50/mile + of Signet office).....         | 145.00/Trip  |
| 0208 Mileage (beyond 50-mile radius of Signet office)..... | 0.75/Mile    |
| 1001 Travel Time.....                                      | Service Rate |
| 0206 Specialty Vehicle Charge (when required) .....        | Cost +20%    |
| 0205 Per Diem (or Cost + 20% whichever is greater).....    | 145.00/Day   |
| 0207 Equip. Rental / Cure Box / Notary / Expenses.....     | Cost + 20%   |
| 0105 Outside / Subcontracted Services .....                | Cost + 20%   |
| 0204 Parking / Tolls.....                                  | Cost + 20%   |

**Final Reports (Special Inspection Projects Only):**

|   |               |
|---|---------------|
| 0215 Engineer's Final Report Letter ..... | \$375.00 Each |
| 0216 DSA/OSHPD Verified Report.....       | 525.00 Each   |

**Expedited Services (Rush Charge):**

Where laboratory tests are to be performed on an immediate need basis (tests to be initiated out of order received and regardless of status of other previously received samples) the expediting fee is 100% of the associated unit rate. Same day request for engineering, technical or field inspection service and accelerated final report processing shall be billed an expediting fee of 50% of the associated unit rate.

**Project Coordination, Engineering, and Management:**

1. A minimum of one-half hour per \$5,000 in invoiced services per week will be charged for Project Engineer to review daily field reports, prepare and update non-conformance/exception tracking records, and preparation of a weekly summary report.
2. Project Engineer / Project Manager performing review of contractor submittals, laboratory test results, and other professional services are billed two-hour minimum/increment.
3. Special Handling Fee will be added to all invoices for Client required customization to standard processes such as billing, certified payroll, pay applications, special dispatch requests, etc.....3%
4. Project Administration Fee will be added to all invoices to cover project administration costs related to office project coordination, standard dispatch, report processing, typing, postage, and on-line access to all reports.....10%

Invoices will be submitted on a bi-weekly basis and are due upon receipt. Unpaid invoices aging beyond 30 days of the invoice date are subject to late charges equal to 1.5 % per month until paid. All services are billed on a time and material basis in accordance with this schedule of fees and/or, if provided, a project specific fee proposal. It is the client's responsibility to notify Signet in writing prior to the start of work affected by Prevailing Wage requirements that may be imposed on the project. Failure to properly notify Signet will result in customer being responsible for all fees, penalties, or other costs associated with meeting these requirements. In addition, all affected rates will be increased 30 percent to account for additional costs to comply with prevailing wage requirements not identified in advance of submitting this schedule of fees and/or our project specific fee proposal.

Coordinated Inspections: If Signet or its agents will be performing in-shop inspections of fabrication or assembly, Client understands that Signet may perform coordinated inspections and bill accordingly. The industry standard requires that continuous inspection mandates a continuous presence in the facility for assembly or fabrication.

Anticipated Costs: Client recognizes and agrees that any "anticipated costs", "budget estimates", or the like that may be prepared by Signet are NOT "guaranteed maximums", "lump sums", or "not-to-exceed" totals. Client will be invoiced for all work performed.

Subcontractors: As required to accommodate the construction schedule, Signet may use contract special inspectors to augment our staff. Inspections performed by contract providers will be billed as specified for Signet employees.

Our Fee Schedule and project specific rates are valid through June 30 of each year and are subject to a minimum increase of 3.0 – 5.0% on July 1. For services performed after June 30 fees for any on-going projects will be subject to this increase based on OE3 labor and benefits increases and cost of living adjustments.

### LABORATORY TESTING

#### SOILS AND AGGREGATES

##### Aggregate Property Tests:

Acid Solubility  
4260 ..... \$200.00 each

Aggregate Angularity AASHTO T304  
4245 Fine Aggregate ..... 255.00 each

Clay lumps and Friable Particles ASTM C142  
4211 ..... 185.00 each

Cleanliness Value CTM 227  
4213 1" x #4 (or finer) ..... 225.00 each  
4214 1-1/2" x 3/4" ..... 425.00 each  
4290 2-1/2" x 1-1/2" ..... 750.00 each  
4291 Pit Run ..... 360.00 each

Crushed Particles (percent) CTM 205  
4225 ..... 195.00 each

Durability Index CTM 229  
4230 Course Fraction ..... 265.00 each  
4231 Fine Fraction ..... 265.00 each

Flat and Elongated Particles ASTM D4791  
4224 ..... 195.00 each

Los Angeles (LA) Abrasion and Impact ASTM C131/CTM 211  
4219 500 revolutions ..... 295.00 each  
4220 100 & 500 revolutions ..... 395.00 each

Los Angeles (LA) Abrasion and Impact ASTM C535  
4221 (for large size coarse aggregate) 1000 revolutions ..... 495.00 each

Mohs Hardness  
4261 ..... 295.00 each

Organic Impurities in Fine Aggregates ASTM C40 / CTM 213  
4209 ..... 165.00 each

Relative Mortar Strength Of Portland Cement Concrete Sand CTM 515  
4270 ..... 675.00 each

Sand Equivalent ASTM D2419/CTM 217  
4212 ..... 265.00 each

Soundness of Aggregates ASTM C88/CTM 214  
4207 by use of sodium or magnesium sulfate, fine or coarse,  
5 cycles (billed per fraction, minimum charge \$350.00) ..... 195.00 each

Specific Gravity & Absorption  
4215 Fine Aggregate ASTM C128/CTM 207 ..... 195.00 each  
4216 Course Aggregate ASTM C127/CTM 206 ..... 195.00 each

Unit Weight (Bulk Density) and Voids in Aggregate ASTM C29/CTM 212  
4210 Unit weight (average of 3 tests) ..... 195.00 each

Voids in Mineral Aggregate CTM LP-2  
4246 Calculated ..... 165.00 each

##### Compaction Characteristics - Moisture / Density Relationships:

Standard Proctor ASTM D698 / AASHTO T99  
2237 4" mold ..... \$375.00 each  
2238 6" mold ..... 425.00 each  
2242 Checkpoint for identification of material ..... 195.00 each

Modified Proctor ASTM D1557 / AASHTO T180  
2239 4" mold ..... 375.00 each  
2240 6" mold ..... 425.00 each  
2242 Checkpoint for identification of material ..... 225.00 each

Rock Correction of Moisture/Density Curve ASTM D4718  
4208 ..... 185.00 each

California Impact CTM 216  
2243 ..... 425.00 each

##### Classification and Index Tests:

Atterberg Limits (Plasticity Index) ASTM D4318  
2225 Dry Prep Method B ..... \$295.00 each  
2226 Wet Prep Method A ..... 320.00 each

Classification of Soils (Unified Soil Classification System ASTM D2487  
2234 Visual Classification ..... 85.00 each  
2269 Stiffness by Torvane/Pocket Penetrometer ..... 85.00 each

Moisture Content ASTM D2216  
2221 Individual test ..... 65.00 each

Moisture and Density ASTM D7263b  
2222 Sample Diameter to 3" ..... 135.00 each  
2223 Sample to 6" Diameter ..... 175.00 each

Organic Content of Peat and Other Organic Soil ASTM D2974  
2233 ..... 225.00 each

Particle Size Analysis ASTM C136/CTM 202  
4203 Coarse aggregate (#4 to 1-1/2" maximum) ..... 225.00 each  
4204 Coarse aggregate (#4 to 3") ..... 295.00 each  
4205 Total sieve coarse and fine (to 1-1/2" maximum) ..... 395.00 each  
4206 Fine aggregate (#4 to #200 w/wash) ..... 195.00 each  
4226 Sieve analysis pit run with #200 wash ..... 365.00 each  
4202 #200 Wash on Aggregate ASTM C117 ..... 195.00 each  
2227 #200 Wash on Soil ASTM D1140 ..... 195.00 each

Particle Size Analysis ASTM D422  
2228 Sieve (from 1/2" to #200) ..... 195.00 each  
2229 Sieve (from 1-1/2" to #200) ..... 295.00 each  
2230 Sieve (from 3" to #200) ..... 275.00 each  
2231 Hydrometer test w/ sieve D422/ CTM 203 ..... 385.00 each



|   |             |
|---|-------------|
| pH of Soil CTM 643/AASHTO T-228                             |             |
| 4402 .....  | 165.00 each |
| Pinhole Test (Classification of Dispersive Clay) ASTM D4647 |             |
| 2235 .....  | 575.00 each |
| Porosity (Total)  |             |
| 4280 Includes ASTM D7263 & ASTM D854 .....                  | 225.00 each |
| Specific Gravity Of Soils                                   |             |
| 4228 by hydrometer ASTM D854/CTM 203 .....                  | 245.00 each |
| 2232 (#4) by pycnometer ASTM D854/CTM 209 .....             | 225.00 each |

|   |             |
|---|-------------|
| 2273 Consolidated-Drained TX- CD (sandy soil) USACE ..... | 795.00 each |
| 2275 For multi-stage, each additional stress level .....  | 345.00 each |
| 2290 Back pressure saturation .....                       | 165.00 each |

**Unconfined Compressive Strength**

|   |             |
|---|-------------|
| 2267 Cohesive soil ASTM D2166 .....                       | 125.00 each |
| 4241 Soil-Cement cyl. (mixed in the lab) ASTM D1633 ..... | 225.00 each |
| 4242 Soil-Cement cyl. (field mixed) ASTM D1633 .....      | 200.00 each |
| 4243 CTB (mixed in the lab) ASTM D1633 .....              | 225.00 each |
| 4244 CTB (field mixed) ASTM D1633 .....                   | 200.00 each |

**GEOTECHNICAL LABORATORY**

**Consolidation Properties:**

|  |               |
|--|---------------|
| 2256 Consolidation (1 cycle, 1 time rate) ASTM D2435 ..... | \$385.00 each |
| 2257 For each additional Time-Rate curve .....             | 165.00 each   |
| 2258 Unload-Reload loop (per point) .....                  | 75.00 each    |
| 2259 Trim to test from 3" sample .....                     | 65.00 each    |

**Expansion & Collapse Tests:**

|   |               |
|---|---------------|
| 2261 Expansion Index UBC / ASTM D4829 .....         | \$390.00 each |
| One-Dimensional Swell or Collapse ASTM D4546        |               |
| 2210 Method A (4-point curve) .....                 | 900.00 each   |
| 2211 Method B .....                                 | 340.00 each   |
| 2212 Method C .....                                 | 360.00 each   |
| 2263 Collapse potential ASTM D5333 .....            | 200.00 each   |
| 2264 Shrink-Swell ASTM D3877 .....                  | 225.00 each   |
| 2265 Expansion pressure free swell ASTM D3877 ..... | 185.00 each   |

**Hydraulic Conductivity:**

|                                   |               |
|-----------------------------------|---------------|
| Flexible Wall ASTM D5084 (2 - 3") |               |
| 2250 Sandy soil .....             | \$395.00 each |
| 2251 Clayey soil .....            | 465.00 each   |

**Soil Strength Tests:**

|  |               |
|--|---------------|
| California Bearing Ratio ASTM D1883          |               |
| 4240 3 points without compaction curve ..... | \$825.00 each |

**Resistance "R" Value ASTM D2844/CTM 301**

|  |             |
|--|-------------|
| 4232 Untreated material .....                                | 395.00 each |
| 4234 Cement, lime, or other additives field sample .....     | 455.00 each |
| 4233 Cement, lime, or other additives laboratory mixed ..... | 475.00 each |

**Direct Shear Tests, per point (2.5" diameter)**

|  |             |
|--|-------------|
| 2278 Unconsolidated-Undrained UU .....                     | 225.00 each |
| 2279 Consolidated-Undrained CU .....                       | 265.00 each |
| 2280 Consolidated-Drained CD (sandy soil) ASTM D3080 ..... | 295.00 each |
| 2281 Consolidated-Drained CD (clayey soil) .....           | 325.00 each |

**Triaxial Tests, Per Point (2.5" Diameter)**

|   |               |
|---|---------------|
| 2270 Unconsolidated-Undrained TX-UU ASTM D2850 .....    | 195.00 each   |
| 2271 TX-UU over 70 psi ASTM D2850 .....                 | 185.00 each   |
| 2274 Consolidated-Undrained TX-CU ASTM D4767 .....      | 285.00 each   |
| 2272 TX-CU with pore pressure TX-CU-PP ASTM D4767 ..... | 495.00 each   |
| 2277 Staged 3-point TX-CU-PP with pore pressure .....   | 1,450.00 each |

**Cement Treated Base (CTB) Mix Design:**

|  |               |
|--|---------------|
| 2291 Moisture-Density Relations of Soil-Cement Mixture (each cement content) ASTM D558 .....   | \$395.00 each |
| 2292 Particle Size Analysis ASTM C136 .....  | 365.00 each   |
| 2293 Soundness of Aggregates by use of sodium or magnesium sulfate, fine or coarse, 5 cycles (billed per fraction, minimum charge \$250.00) ASTM C88 ..... | 175.00 each   |
| 2294 LA Abrasion ASTM C131 100 & 500 revolutions .....   | 395.00 each   |
| 2295 Wetting & Drying Soil-Cement Mixtures ASTM D559 .....   | 950.00 each   |
| 2296 Freeze & Thaw Soil-Cement Mixtures ASTM D560 .....  | 1,350.00 each |
| 4243 CTB Comp. Strength (each cement %) ASTM D1633 .....   | 265.00 each   |
| 4250 Cement Treated Base Mix Design Report .....   | 650.00 each   |

**Lime Treated Soil Mix Design:**

|  |               |
|--|---------------|
| 2286 Soil-Lime Proportion ASTM D6276 .....                 | \$450.00 each |
| 4247 Lime Treated Soil at 1 moisture Content CTM 373 ..... | 765.00 each   |

**Additional Costs:**

|  |                        |
|--|------------------------|
| 2282 Preparation for 3" diameter specimen .....          | \$85.00 each           |
| 2283 Remold test specimen .....                          | 110.00 each            |
| 2284 For multi-stage, each additional stress level ..... | 95.00 each             |
| 2285 For each re-shear cycle .....                       | 105.00 each            |
| 2244 Photos .....  | 45.00 each             |
| 9801 Foreign Soil Sterilization and Disposal .....       | 125.00 each            |
| 9802 Sample Storage .....                                | QOR                    |
| 9803 Shipping of samples, liners or containers .....     | Cost +20%              |
| 9804 Special handling of contaminated samples .....      | QOR                    |
|  | Quote On Request (QOR) |

**ASPHALTIC CONCRETE**

**CTM 304/366/305**

|   |                |
|---|----------------|
| 4101 Stabilometer value of lab mixed sample ..... | \$665.00/point |
| 4102 Stabilometer value of premixed sample .....  | 595.00 each    |
| 4103 Swell test of bituminous mixture .....       | 295.00 each    |

**CTM 304/307**

|   |             |
|---|-------------|
| 4113 Moisture vapor susceptibility including stabilometer (2 specimens) ..... | 295.00 each |
|---|-------------|

**CTM 382/D6307**

|   |             |
|---|-------------|
| 4129 Bitumen content of paving mixture by ignition oven (subject to environmental disposal surcharge) ..... | 365.00 each |
| 4104 Correction Factor .....  | 355.00 each |

**ASTM D5444/CTM 202**

|  |             |
|--|-------------|
| 4105 Gradation of extracted sample including #200 washes ..... | 365.00 each |
|--|-------------|

**ASTM D1559**

|      |  |               |
|------|--|---------------|
| 4106 | Marshall test, premixed sample 3 specimen      | \$350.00 each |
| 4107 | Marshall test, lab mixed 3 specimens           | 450.00 each   |
| 4109 | Mix Design: Marshall Method - no aggregate     | 2,600.00 each |
| 4112 | Mix Design: Marshall Method - with aggregate   | 3,200.00 each |
| 4110 | Mix Design: Hveem method - no aggregate        | 2,400.00 each |
| 4111 | Mix Design: Hveem method - with aggregate      | 2,900.00 each |
| 4138 | Marshall RAP Mix Design w/ Agg. Tests, AI MS-2 | 4,000.00 each |
| 4139 | Caltrans RAP Mix Design w/ Agg. Tests, CTM 367 | 3,600.00 each |

**CTM 308/ASTM D2726**

|      |                                      |             |
|------|--------------------------------------|-------------|
| 4114 | Specific gravity of compacted sample | 195.00 each |
|------|--------------------------------------|-------------|

**CTM 308A/ASTM /D1188**

|      |  |             |
|------|--|-------------|
| 4115 | Specific gravity of AC - paraffin coated | 225.00 each |
|------|--|-------------|

**CTM 304/375**

|      |  |             |
|------|--|-------------|
| 4128 | Test maximum density (TMD), set of 5 specimens | 465.00 each |
|------|--|-------------|

**ASTM D2041**

|      |              |             |
|------|--------------|-------------|
| 4116 | Rice Gravity | 265.00 each |
|------|--------------|-------------|

**ASTM D1075**

|      |                                     |             |
|------|-------------------------------------|-------------|
| 4133 | Index of retained strength, pre-mix | 600.00 each |
| 4134 | Index of retained strength, lab mix | 880.00 each |
| 4125 | Index Retained Stability - pre mix  | 600.00 each |
| 4126 | Index Retained Stability - lab mix  | 750.00 each |

**ASTM D4867/AASHTO**

|      |                                 |               |
|------|---------------------------------|---------------|
| 4127 | Tensile strength ratio, pre-mix | 1,200.00 each |
| 4117 | Tensile strength ratio, lab mix | 1,600.00 each |

**CTM 303**

|      |  |             |
|------|--|-------------|
| 4119 | CKE Coarse   | 195.00 each |
| 4120 | CKE Fine   | 195.00 each |
| 4132 | Filmstripping, CTM 302   | 245.00 each |
| 4121 | ATPB mix (grade, remix @ 2/2.5/3%)   | 465.00 each |
| 4122 | Open graded mix evaluation (grade, recombine, mix @ 3 oil %'s, filmstripping), CTM 368 | 495.00 each |

**CTM 370**

|      |   |             |
|------|---|-------------|
| 4123 | Moisture content of AC by microwave oven      | 125.00 each |
| 4135 | Calculate Voids Filled with Asphalt, CTM LP-3 | 85.00 each  |
| 4136 | Calculate Dust Proportion, CTM LP-4           | 85.00 each  |
| 4137 | Calculate Air Voids of HMA, CTM 367           | 95.00 each  |

**CONCRETE / SHOTCRETE**

**ASTM C39/C567**

|      |  |              |
|------|--|--------------|
| 3111 | Compression tests, 6" x 12" and 4" x 8" molded cyls. | \$45.00 each |
| 3112 | Unit weight on concrete cylinder                     | 125.00 each  |
| 3116 | Cylinder Molds (Concrete / Grout / Mortar)           | 10.00 each   |
| 3120 | Compression Test Samples Cast by Others              | 90.00 each   |

**ASTM C495**

|      |   |            |
|------|---|------------|
| 3117 | Lightweight insulating concrete (3" diameter x 6" cylinder) Compression tests | 65.00 each |
|------|---|------------|

**ASTM C469**

|      |   |             |
|------|---|-------------|
| 9314 | Static Young's modulus of elasticity in compression of 6" diameter x 12" cylindrical specimen | 425.00 each |
| 3119 | Splitting tensile test, 6" diameter x 12" cylinder  | 95.00 each  |

**ASTM C512**

|      |   |                |
|------|---|----------------|
| 9315 | Creep of Concrete in compression (by project quote) | \$1,700.00/min |
| 9316 | Equilibrium Density ASTM C567                       | 195.00 each    |

**ASTM C42/C39**

|      |                                     |             |
|------|-------------------------------------|-------------|
| 3118 | Compression test concrete cores     | 125.00 each |
| 3510 | Shotcrete core compressive strength | 125.00 each |

**ASTM C78/C293**

|      |   |             |
|------|---|-------------|
| 3135 | Flexural strength of concrete, 6" x 6" x 24" specimen | 195.00 each |
|------|---|-------------|

**ASTM C157 (MODIFIED)**

|      |  |             |
|------|--|-------------|
| 3115 | Volume change of concrete, per set of 3 (drying shrinkage test), up to 28 days drying (excludes trial batch) | 665.00 each |
|------|--|-------------|

**ASTM C109**

|      |                                     |            |
|------|-------------------------------------|------------|
| 3113 | Compression Tests, 2" cube specimen | 65.00 each |
|------|-------------------------------------|------------|

**ASTM C192**

|      |   |              |
|------|---|--------------|
| 3136 | Laboratory Trial Batch (by project quote) | 2,500.00/min |
|------|---|--------------|

**MASONRY**

**ASTM C140**

|      |                                     |               |
|------|-------------------------------------|---------------|
| 9401 | Gross Area Compression              | \$165.00 each |
| 9405 | Net Area Compression                | 145.00 each   |
| 9402 | Absorption and moisture content (*) | 225.00 each   |
| 9403 | Linear shrinkage (rapid method) (*) | 510.00 each   |

**ASTM C426**

|      |  |             |
|------|--|-------------|
| 9406 | Linear shrinkage (ASTM C426) (*)                     | 525.00 each |
| 9408 | Unit Weight (*)                                      | 165.00 each |
| 9404 | Dimensional measurement/Equivalent web thickness (*) | 165.00 each |

**UBC Standard**

|      |                         |             |
|------|-------------------------|-------------|
| 3711 | 2" x 4" mortar cylinder | 65.00 each  |
| 3713 | Grout sample            | 65.00 each  |
| 3708 | Composite prism         | 195.00 each |

**ASTM C1006**

|      |   |             |
|------|---|-------------|
| 9407 | Splitting tensile (*)                             | 165.00 each |
| 3717 | Compression Test of CMU Core (CBC Title 24)       | 165.00 each |
| 3718 | Shear Test of CMU Core (both face) (CBC Title 24) | 155.00 each |

**ASTM C531**

|      |   |             |
|------|---|-------------|
| 9317 | Linear Shrinkage & Coefficient of Thermal Expansion | 750.00 each |
|------|---|-------------|

**BRICK**

**ASTM C67**

|      |   |               |
|------|---|---------------|
| 9409 | Compression test                        | \$135.00 each |
| 9411 | Absorption test, saturation coefficient | 175.00 each   |
| 9306 | Modulus of rupture                      | 165.00 each   |



**CLAY ROOFING TILE**

- 9418 UBC Standard 32-12 Breaking Load..... \$165.00 each
- 9419 Water Absorption by 24-hour Oven Drying (extra charge for cutting/preparation)..... 195.00 each

**BUILT-UP ROOFING**

- 7026 Basic weight analysis ..... \$465.00 each
- ASTM D2829
- 7025 Ply separation and complete roof analysis ..... 625.00 each

**FIREPROOFING**

- 6004 Density of sprayed-on fireproofing..... \$175.00 each
- 6005 Moisture Content of Sprayed-on Fireproofing ..... 125.00 each

**STRUCTURAL STEEL AND CARBON STEEL**  
(Sample preparation and machining not included)

- Tensile Testing - yield, ultimate, elongation
- 9510 To 1" material thickness, inclusive..... \$145.00 each
  - 9517 Over 1" up to 1-1/2" thickness..... 165.00 each
  - 9539 Over 1-1/2" thickness..... 225.00 each
  - 9519 End-Welded "Nelson" Studs ..... 165.00 each
- Cold Bend Testing:
- 9511 To 3/4" material thickness..... 125.00 each
  - 9518 Over 3/4" up to 1-1/4" thickness..... 165.00 each
- Flattening Tests on Pipe:
- 9508 To 10" diameter and 3/4" max. wall ..... 145.00 each
  - 9543 Guided Side, Root or Face Bends and T-Break..... 125.00 each
  - 9601 Standard Welder Qualification Test..... 665.00 each
  - 9605 Macroetch Examination ..... 225.00 each

**REINFORCING STEEL**

- Tensile Testing Full Section (yield/ultimate/elongation):
- 9501 Bar Size through #8..... \$175.00 each
  - 9502 #9 through #11 ..... 265.00 each
  - 9503 #14 ..... 295.00 each
  - 9504 #18 ..... 495.00 each
  - 9552 Coupled rebar through #11 ..... 265.00 each
  - 9553 Coupled rebar through #14 ..... 295.00 each
  - 9554 Coupled rebar through #18 ..... 495.00 each
  - 9509 Cold Bend Testing on Bar Size #11 and smaller..... 165.00 each
  - 9529 Cold Bend Testing on Bar Size #14..... 225.00 each

**POST-TENSION / PRESTRESS 7-WIRE STRANDS**

- Seven-wire strands, ASTM A416, for 1/4" through 1/2" strands
- 9304 Breaking strength only ..... \$465.00 each
  - 9305 Yield strength, breaking strength & elongation..... 595.00 each

**MECHANICAL TESTING OF METALLIC PRODUCTS**  
(sample preparation and machining not included)

- 9544 Yield strength, tensile, elongation, R/A for 1/2" diameter or sub-size reduced-section specimen..... \$255.00 each
- Hardness Testing (3 points/sample)
- 9513 Rockwell / Brinell ..... 165.00 each
- Charpy Impact Testing (minimum of 3 specimens):
- 9520 Room Temperature ..... 95.00 each
- 9521 To minus 100 degrees Fahrenheit..... 125.00 each
- 9522 To minus 150 degrees Fahrenheit..... 165.00 each

**HIGH STRENGTH BOLTS, NUTS AND WASHERS**  
(Sample preparation and machining not included)

- ASTM A325, A490 AND A449
- Bolts: to 1-1/8" diameter inclusive
- 9526 Proof load ..... \$125.00 each
  - 9514 Ultimate Tensile..... 85.00 each
  - 9515 Hardness (Rockwell) (\*) including sample preparation .... 115.00 each
- Nuts: to 1-1/8" inclusive
- 9535 Proof load ..... 120.00 each
  - 9536 Hardness (Rockwell) (\*) including sample preparation .... 115.00 each
- Washers: all sizes
- 9536 Hardness (Rockwell) (\*) including sample preparation .... 115.00 each
  - 9516 Carburization Depth ..... 95.00 each
- ASTM F959
- 9537 Load Indicator Washers (LIW), proof load..... 95.00 each

**SPECIALTY TESTING**

- ASTM A90
- 9700 Weight of galvanized coating (subject to environmental disposal fee)..... \$195.00 each
  - 9701 Other materials-aluminum, brass, bronze, fiberglass, etc.. 95.00 each

**MISCELLANEOUS**

- 9903 Calibration of hydraulic ram system (single ram, one pressure gauge to 30 tons)..... 350.00 each
- 9904 Calibration of hydraulic ram system (single ram, one Pressure gauge to 100 tons)..... 450.00 each
- 9805 Fiber Reinforced Polymer Tensile / Elongation..... 1,500.00 each

## GENERAL TERMS AND CONDITIONS

1. **Access.** Client is responsible for providing Signet access to the project or facility site as well as safe access to all inspection/testing locations (via suitable ladders, etc.).
2. **Scheduling and Cancellation.** All inspection services must be scheduled at least 24 hours in advance. For inspections within a 75-mile radius of the applicable Signet office or facility, there is no charge for cancellation if made at least 24 hours in advance.
3. **Coordinated Inspections.** If Signet or its agents will be performing in-shop inspections of fabrication or assembly, Signet may perform coordinated inspections and bill accordingly. Where continuous inspections are mandated, a continuous presence in the assembly/fabrication facility is required.
4. **Final Affidavit.** The final inspection report (affidavit) will be issued on the 10th working day following the request for the affidavit by the client's project representative. However, any outstanding issues of inspection, testing, and accounting (payments) must be resolved to Signet's satisfaction prior to release of the affidavit. Outstanding issues may include, but are not limited to, approved resolution of Non-Conformance Reports and Requests for Information, 28-day concrete test results, and payment in full for services.
5. **Anticipated Costs.** Client recognizes and agrees that any "anticipated costs", "budget estimates", or the like that may be prepared by Signet are NOT "guaranteed maximums", "lump sums", or "not-to-exceed" totals. Client will compensate Signet for all services performed.
6. **Terms of Payment.** (a) Invoice(s) shall be submitted bi-weekly, payments are due within thirty (30) days from date of invoice without retention. Overdue payments are subject to a late payment charge of 1.5% of the invoice amount plus interest at 1.5% per month until all overdue amounts, late charges and interest are fully paid. No dispute shall excuse Client from timely payment of all invoice amounts except amounts specifically disputed by Client in good faith. (b) Signet reserves the right to suspend the services without notice if all invoices are not paid when due, and to terminate the services if all invoices are not fully paid within five (5) days after written notice to Client of Signet's intent to so terminate. Upon any such termination of services, the entire amount accrued for all services performed shall immediately become due and payable. Client waives any and all claims against Signet, its subsidiaries, affiliates, servants and agents, for suspension or termination of services pursuant to this paragraph. (c) Should Signet refer a past due account to an attorney or collection agency or to file suit for collection, Client agrees to pay all actual expenses and costs incurred thereby, including actual attorney's fees and costs.
7. **Warranty.** Signet warrants that its services will be in accordance with that degree of care and skill ordinarily exercised under similar circumstances by members of its profession in the vicinity as of the date the services are performed. Customer's sole remedy for breach of this warranty shall be for Signet to re-perform its services of non-conforming items, provided Client provides written notice to Signet within one (1) year after performance of the non-conforming services. This warranty and remedy is exclusive and is in lieu of any other warranty or representation, express or implied.
8. **Working Conditions and Escalation.** Signet is subject and/or signatory to one or more agreements with the International Union of Operating Engineers, AFL-CIO covering inspection and testing personnel (the "Labor Agreement"). Working conditions and hours will be enforced in accordance with the applicable Labor Agreement. Compensation for Signet services is subject to adjustment on July 1st of each year to cover any increase in Signet's cost due to changes in wages, benefits, working conditions and other provisions of the Labor Agreement or a successor labor agreement, plus corresponding changes in our general administrative and overhead expense. Signet will notify Client of these adjustments which shall become the agreed upon basis for the continuation of services by Signet.
9. **Insurance.** Signet carries all insurance required by law. Additional cost of insurance certificates, co-insurance endorsements, or additional insurance will be reimbursed by Client.
10. **Limitation of Liability.** To the fullest extent permitted by law, in no event, whether due to or based on delay, contract, tort, negligence, strict liability, warranty, indemnity, error, omission or any other legal theory, shall Signet or its sub-consultants or their directors, officers, employees and agents be liable under or in connection with this Agreement or the performance or non-performance of the services (a) for any special, indirect, consequential, incidental or punitive damages, or for loss of use, loss of revenue or profit (actual or anticipated), increased cost of construction, claims of customers of Client, or any liquidated damages incurred by Client, or (b) in an aggregate amount in excess of the greater of \$10,000 or 25% of the total amount actually paid to Signet pursuant to this Agreement.
11. **Governing Law and Venue.** All contract issues and matters of law will be adjudicated in accordance with the laws of the State of California (excluding any provisions or principles thereof which would require the application of the laws of a different jurisdiction). Venue for any litigation shall be any state court or United States District Court situated in the State of California and having jurisdiction over the parties and subject matter.
12. **Force Majeure.** Any delay or failure of Signet in the performance of its obligations under this Agreement shall be excused to the extent caused by event(s) that are beyond Signet's reasonable control.
13. **Miscellaneous.** This Agreement supersedes any and all prior written and/or oral understandings, contracts and agreements that may have been made or entered into between the parties regarding the subject matter hereof. Any terms or conditions of Client's purchase order, approval or acceptance which are not identical to the terms and conditions of this Agreement are null and void, are not part of the agreement between Signet and Client, and are not binding upon Signet. This Agreement may be modified only by a written amendment signed by both parties. In the event that any one or more of the provisions of this Agreement are found to be illegal or unenforceable, the remaining provisions of this Agreement shall remain in full force and effect, and such term or provision shall be deemed stricken to the extent and in the jurisdictions necessary for compliance with applicable law. Any provisions of this Agreement providing for limitation of or protection against liabilities between the parties hereto shall survive termination of the Agreement and/or completion of the services. Any delay, waiver or omission by either party to exercise any right or power arising from any breach or default by the other party of this Agreement shall not be construed to be a waiver of any subsequent breach or default.