

## ON-CALL PROFESSIONAL SERVICES AGREEMENT

### Special Inspection and Materials Testing Services

THIS AGREEMENT is made and entered into this \_\_\_ day of \_\_\_\_\_, 20\_\_\_, by and between the City of Roseville, a municipal corporation (“CITY”), and ENGEO Incorporated, a California corporation (“CONSULTANT”); and

#### W I T N E S S E T H:

WHEREAS, CITY issued Request for Proposal # 13-107 for professional services consisting of on-call special inspection and materials testing services; and

WHEREAS, CONSULTANT has prepared a response to the Request for Proposal dated May 9, 2022, which describes the scope of services to be performed by CONSULTANT, and the hourly rates for performance of such services; and

WHEREAS, CONSULTANT is qualified and experienced to provide professional inspection and material testing services on an on-call basis.

NOW, THEREFORE, the parties agree as follows:

1. Term. The term of this Agreement shall commence upon execution and expire on June 30, 2023. The City Manager may, in his or her discretion, elect to extend the Agreement in one (1) year increments for up to an additional three (3) years by giving CONSULTANT thirty (30) days advance written notice of each optional one (1) year renewal. Such extensions shall be memorialized by a written amendment to this Agreement.

2. Services. CONSULTANT shall perform, at the direction of CITY, the scope of the on-call services as described in EXHIBIT “A,” attached hereto and incorporated herein by this reference. Individual tasks will be awarded by CITY on an as-needed basis. CITY may assign work to one, or more than one consultant from an approved qualified list. CITY reserves the right to unilaterally assign work to any consultant as it deems prudent or, if no services are required, no work. CITY makes no specific guarantee of a minimum or maximum number of hours or amount of tasks or services, which shall be required of any single consultant. In addition, the inclusion of any consultant on any qualified list, if so utilized by CITY, shall in no way be considered an exclusive agreement to provide service for CITY.

3. Compensation. For its services provided hereunder, CONSULTANT shall be compensated on a time and expense basis in accordance with the hourly rates as described in EXHIBIT “B,” attached hereto and incorporated herein by this reference. Any proposed increase in the effective rates for future services must be preceded by at least a 90-day written notice to the contracting department. Total compensation shall not exceed one hundred thousand dollars (\$100,000) per year. Total compensation for optional renewal years of this Agreement shall not exceed one hundred thousand dollars (\$100,000) per year. Adjustment to the total compensation per year shall require a written amendment to this Agreement, subject to approval by the City Council.

CONSULTANT shall submit one monthly invoice for its services. Such invoices shall be delineated by task, the person performing the services, and the hourly rate, which shall be stated in time increments of not greater than one tenth (1/10) hours. CITY shall pay invoices within thirty (30) days after receipt, if the services specified in the invoice have been satisfactorily completed.

4. Indemnification. To the fullest extent allowed by law, CONSULTANT shall defend, indemnify, and save and hold harmless CITY, its officers, agents, employees and volunteers from any claims, suits or actions of every name, kind and description brought forth, or on account of, injuries to or death of any person (including but not limited to workers and the public), or damage to property, resulting from or arising out of CONSULTANT's willful misconduct or negligent act or omission while engaged in the performance of obligations or exercise of rights created by this Agreement, except those matters arising from CITY's sole negligence or willful misconduct. The parties intend that this provision shall be broadly construed.

CONSULTANT agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONSULTANT and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY.

CONSULTANT's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement. CONSULTANT's aggregate liability hereunder shall be limited by the CITY of three million dollars (\$3,000,000).

5. Insurance. CONSULTANT agrees to continuously maintain, in full force and effect, the following minimum policies of insurance during the term of this Agreement.

COVERAGE

LIMITS OF LIABILITY

Workers' Compensation Statutory	Statutory
Commercial General Liability	\$1,000,000 each occurrence \$2,000,000 aggregate Personal Injury: \$1,000,000 each occurrence \$2,000,000 aggregate
Automobile Liability	\$1,000,000 combined single limit
Professional Liability (errors and omissions)	\$1,000,000 per claim \$2,000,000 aggregate

a. Form. CONSULTANT shall submit a certificate evidencing such coverage for the period covered by this Agreement in a form satisfactory to Risk Management and the City Attorney, prior to undertaking any work hereunder. Any insurance written on a claims made basis is subject to the approval of Risk Management and the City Attorney.

b. Additional Insureds. CONSULTANT shall also provide a separate endorsement form or section of the policy showing CITY, its officers, agents, employees and volunteers as additional insureds for each type of coverage, except for Workers' Compensation and Professional Liability. Such insurance shall specifically cover the contractual liability of CONSULTANT. The additional insured coverage under the CONSULTANT's policy shall be primary and noncontributory, as evidenced by a separate endorsement or section of the policy, and shall not seek contribution from CITY's insurance or self-insurance. In addition, the additional insured coverage shall be at least as broad as the Insurance Services Office ("ISO") CG 20 01 Endorsement. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds.

Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.

c. Cancellation/Modification. CONSULTANT shall provide ten (10) days written notice to CITY prior to cancellation or modification of any insurance required by this Agreement.

d. Umbrella/Excess Insurance. The limits of insurance required in this Agreement may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of CITY (if agreed to in a written contract) before CITY's own insurance shall be called upon to protect it as a named insured.

e. Subcontractors. CONSULTANT agrees to include in its contracts with all subcontractors the same requirements and provisions of this Agreement, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor's work. Furthermore, CONSULTANT shall require its subcontractors to agree to be bound to CONSULTANT and CITY in the same manner and to the same extent as CONSULTANT is bound to CITY under this Agreement. Additionally, CONSULTANT shall obligate its subcontractors to comply with these same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of CITY's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request.

f. Self-Insured Retentions. All self-insured retentions ("SIR") must be disclosed to Risk Management for approval and shall not reduce the limits of liability. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or CITY. CITY reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.

g. Waiver of Subrogation. CONSULTANT hereby agrees to waive subrogation which any insurer of CONSULTANT may acquire from CONSULTANT by virtue of the payment of any loss under a Workers Compensation, Commercial General Liability or Automobile Liability policy. All Workers Compensation, Commercial General Liability and Automobile Liability policies shall be endorsed with a waiver of subrogation in favor of CITY, its officers, agents, employees and volunteers for all work performed by CONSULTANT, its employees, agents and subcontractors.

h. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve CONSULTANT of liability in excess of such coverage, nor shall it preclude CITY from taking such other actions as are available to it under any other provisions of this Agreement or law.

6. Records. CONSULTANT and its subcontractors shall maintain all files and records relating to the services performed hereunder during the term of this Agreement and for a period of not less than one (1) year after the date of termination or expiration. Provided, however, that in the event of litigation or settlement of claims arising from the performance of this Agreement, CONSULTANT and its subcontractors shall maintain all files and records until such litigation, appeals or claims are resolved. Duly authorized representatives of CITY shall have right of access during normal business hours and after reasonable notice to CONSULTANT's and subcontractors' files and records relating to the services performed hereunder, and may review and copy the files and records at appropriate stages during performance of the services and during the one (1) year period following termination or expiration of this Agreement. CONSULTANT shall include this provisions in its contracts with all subcontractors.

7. Prevailing Wages. When applicable, for purposes of this Agreement, CONSULTANT and its subcontractors shall comply with all applicable prevailing wage laws, e.g., but not limited to, California Labor Code Sections 1770 et seq. In accordance with said Section 1775, CONSULTANT shall forfeit as a penalty to the City two hundred dollars (\$200) for each calendar day or portion thereof for each worker paid less than the prevailing rates for such work or craft in which such worker is employed for any work done on-site under the Agreement by CONSULTANT or by any subcontractor in violation of the provisions of the Labor Code and in particular, Labor Code Sections 1770 to 1780, inclusive. In addition to said penalty and pursuant to said Section 1775, the difference between such stipulated prevailing wage rates and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the stipulated prevailing wage shall be paid to each worker by CONSULTANT or the applicable subcontractor.

Pursuant to the provisions of California Labor Code Section 1773, the contracting department has identified the source, stated below, of the general prevailing rate of wages applicable to the site to be done, for straight time, overtime, and holiday work. The holiday wage rate listed shall be applicable to all holidays recognized in the collective bargaining agreement of the particular craft, classification or type of worker concerned. These wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>.

Pursuant to Labor Code Section 1773.2, general prevailing wage rates set forth above, which forms a part of this Agreement, shall be posted by CONSULTANT at a prominent place at the work site. Prevailing wage rates to be posted at the work site will be furnished by the contracting department. The possibility of wage increases is one of the elements to be

considered by CONSULTANT in determining its proposal, and will not under any circumstances be considered as the basis of a claim against CITY or the Agreement.

8. Contractor Registration. No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this Agreement, CONSULTANT and its subcontractors shall have a continuing legal obligation to maintain current registration with the Department of Industrial Relations. CONSULTANT is hereby notified that this Agreement is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

9. Time is of the Essence. Time is of the essence of this Agreement.

10. Compliance with Laws. CONSULTANT shall comply with all federal, state and local laws, ordinances and policies as may be applicable to the performance of services under this Agreement.

11. Ability to Perform. CONSULTANT agrees and represents that it has the time, ability and professional expertise to perform the services required under this Agreement.

12. Governing Agreement. In the event of any conflict between this Agreement and its EXHIBITS, the provisions of this Agreement shall govern. In the event of any conflict between any of the EXHIBITS, the provisions of the first in order of attachment shall govern.

13. Assignment. CONSULTANT is employed to perform unique personal services. CONSULTANT shall not assign this Agreement without the prior written consent of CITY. CONSULTANT shall not employ or otherwise incur any obligation to pay other specialists or experts for services in connection with this Agreement, without prior written consent of CITY.

14. Independent Contractor. CONSULTANT, inclusive of its agents, officers, employees, volunteers, independent contractors, and subcontractors, shall act as an independent



contractor, and covenants and agrees that it will conduct itself consistent with such status, that it will neither hold itself out as, nor claim to be, an officer or employee of CITY by reason of this Agreement.

CONSULTANT and CITY agree that: (a) CONSULTANT is free from the control and direction of CITY in connection with the performance of the work; (b) CONSULTANT is providing services directly to CITY; (c) CONSULTANT has and will maintain at all relevant times a business license; (d) CONSULTANT maintains a business location that is separate from CITY; (e) CONSULTANT is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONSULTANT actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONSULTANT advertises and holds itself out to the public as available to provide the same or similar services; (h) CONSULTANT provides its own tools, vehicles, and equipment to perform the services; (i) CONSULTANT has negotiated its own rates; (j) CONSULTANT set its own hours and location of work in accomplishing CITY's on-call needs; and (k) CONSULTANT has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement.

15. Representations and Warranties. CONSULTANT warrants that it has not employed or retained any company or person, other than a bona fide employee working for CONSULTANT, to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person, other than a bona fide employee, any fee, commission, percentage, brokerage fee, gift or any other consideration, contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, CITY shall have the right to

terminate as void this Agreement, without liability, or, in its discretion, to deduct from the Agreement price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift or contingent fee.

16. Successors in Interest. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto.

17. Copyright, Ownership and Use of Materials. All tangible material (“Material”) created or delivered pursuant to this Agreement is considered a work made for hire under the Copyright Act. To the extent such Material does not qualify as a work made for hire, CONSULTANT hereby assigns to CITY all right, title, and interest, including but not limited to all copyrights, in all Material created by CONSULTANT in its performance under this Agreement. Material constitutes the scope of work outlined in Exhibit A and attached hereto, and all written and other tangible expressions, including but not limited to, drawings (including computer aided drawings), papers, documents, reports, surveys, renderings, exhibits, sketches, maps, models, prints, paintings or photographs, in any and all media or formats in which such materials have been created or are maintained. All Material furnished by CONSULTANT is, and shall remain, the property of CITY.

CONSULTANT shall execute any documents necessary to effectuate such assignment. In the event that CONSULTANT uses, employs, designates, or retains any person or entity who is not an employee of CONSULTANT, to perform any work required of it pursuant to this Agreement, CONSULTANT shall require said person or entity to execute an agreement containing the preceding paragraph.

18. Termination of Agreement. CITY may terminate this Agreement without cause by giving CONSULTANT ten (10) days advance written notice from the City Manager.

CONSULTANT may terminate this Agreement without cause by giving CITY thirty (30) days advance written notice. CONSULTANT understands that continuation of this Agreement past June 30<sup>th</sup> of any given year is contingent upon appropriation of funds for such purpose in the budget of the City of Roseville in the sole discretion of the City Council. In the event of termination through no fault of CONSULTANT, CITY shall compensate CONSULTANT for services performed as of the date of termination, upon the release to CITY of all Material hereunder, in any and all media or formats in which such materials have been created or are maintained. CITY retains the right to receive and use any MATERIAL, notwithstanding any termination or any dispute regarding the amount to be paid.

19. Attorney's Fees; Venue; Governing Law. If either party commences any legal action against the other party arising out of this Agreement or the performance hereof, the prevailing party in such action shall be entitled to recover its reasonable litigation expenses, including but not limited to, court costs, expert witness fees, discovery expenses, and attorney's fees. Any action arising out of this Agreement shall be brought in Placer County, California, regardless of where else venue may lie. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

20. Modification. This Agreement and each provision contained herein may be waived, amended, supplemented or eliminated only by mutual written agreement of the parties.

21. Severability. If any of the provisions contained in this Agreement are for any reason held invalid or unenforceable, such holding shall not affect the remaining provisions or the validity and enforceability of the Agreement as a whole.

22. Notices. Any notices to parties required by this Agreement shall be delivered personally or mailed, U.S. first class postage prepaid, addressed as follows:

CITY OF ROSEVILLE

CONSULTANT

Ken Peterson  
Park Development Project Manager  
316 Vernon Street  
Roseville, CA 95678

Mark Gilbert  
Principal  
2213 Plaza Drive  
Rocklin, CA 95765

Either party may amend its address for notice by giving notice to the other party in writing.


23. Integrated Agreement. This is an integrated agreement and contains all of the terms, considerations, understanding and promises of the parties. It shall be read as a whole.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. \_\_\_\_\_, adopted by the Council of the City of Roseville on the \_\_\_ day of \_\_\_\_\_, 20\_\_, and CONSULTANT has caused this Agreement to be executed.

CITY OF ROSEVILLE, a  
municipal corporation

ENGEO INCORPORATED, a  
California corporation

BY: \_\_\_\_\_  
DOMINICK CASEY  
City Manager

BY:   
its: President

and

ATTEST:

BY: \_\_\_\_\_  
its: \_\_\_\_\_

BY: \_\_\_\_\_  
CARMEN AVALOS  
City Clerk

[SIGNATURES CONTINUED ON NEXT PAGE]

APPROVED AS TO FORM:

BY: \_\_\_\_\_  
MICHELLE SHEIDENBERGER  
City Attorney

APPROVED AS TO SUBSTANCE:

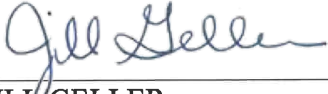
BY:  \_\_\_\_\_  
JILL GELLER  
Parks, Recreation and Libraries Director

EXHIBIT "A"



TAB D

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# PROJECT UNDERSTANDING



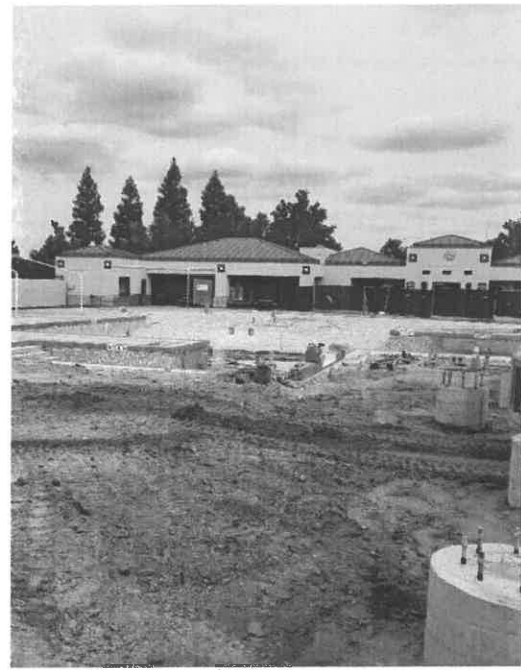
## D. PROJECT UNDERSTANDING

Having worked many City projects over the years, we appreciate the wide range of challenges that you face in evaluating, expanding, and maintaining the City's valuable infrastructure. We understand the scope of work could include the following.

- Perform services for any of the Parks, Recreation, and Libraries Department for new project types ranging from new capital improvement to rehabilitation of parks and facilities.
- Provide services in accordance with City Design/Construction Standards, and State Standard Specifications.
- Provide scope and fee for any selected project to the City within 5 working days of City request.
- Coordinate and collaborate with City inspectors regarding field testing frequencies, results, and contractor challenges, as they arise.
- Perform testing on a "test by test basis" or by an entire project.
- Maintain necessary personnel and lab certifications for each test performed prior to testing.
- Performing multiple inspections with each site visit, whenever practical.
- Prepare final reports following the completion of services for a project.

We understand that the City cannot assign any particular amount of work or number of projects to ENGEO, and that the City reserves the right to request proposals from other consultants during the period of this agreement.

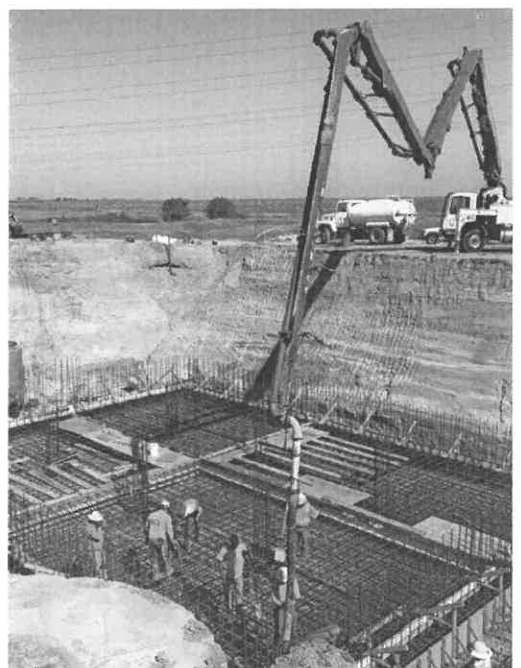




TAB E

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# PROJECT PLAN



## E. PROJECT PLAN

We understand that the City of Roseville will select firms that have the technical knowledge, certifications, and proven experience to provide materials testing and inspection, laboratory, and geotechnical services for the City. Our laboratory and field personnel are Caltrans Certified and can meet the requirements to work on the City's projects.

Upon notification of contract award, we anticipate an initial kickoff meeting between the City of Roseville Project Manager and ENGEО's Project Manager, Travis Chatters. Upon receiving notice to proceed (NTP), we anticipate that our services will be based on agreed-upon work plans and schedules that are developed individually for each task (project) assigned.

We anticipate the management of individual tasks will proceed as detailed below:

- After reviewing new project plans and specifications, and using input from our special inspectors and construction services manager, we will develop a scope of services for the requested special inspections and/or materials testing. At this stage, we will identify key personnel that have the necessary certifications to perform each stage of the work. This could include identification of staff or special inspectors from our other nearby offices.
- Depending on the construction objectives, the proposed work scope will be prepared to satisfy the appropriate special inspection agreement, project plans, and specifications.
- The scope of services, fee estimate, and project schedule will be prepared and forwarded to the City's Project Manager for approval prior to beginning the scope of work. We anticipate a maximum turnaround of 5 days for scope and fee estimate submission, however we have the resources to meet any turnaround time requested by the City Project Manager to maintain the project schedule.
- We will coordinate directly with our field representative(s) and the City's representative(s) regarding the technical aspects of the scope as well as the schedule and budget. Our Construction Services Manager will be responsible for working closely with City representatives and the contractor to schedule the appropriately certified inspector for each of the requested inspections and assist in the initial review of field reports and test results.
- Our field representatives will prepare daily field reports for each site visit, which will be provided as invoice backup and at the frequency requested by the City.

The primary responsibilities of ENGEО's project manager in this process include:

- Directly communicate with client and team
- Participate in pre-construction meetings
- Monitor, review, and update the City's Project Manager on work progress and budget through weekly progress reports (if desired)
- Allocate and coordinate ENGEО personnel to maintain the project schedule
- Coordinate QA/QC of all project deliverables
- Prepare monthly invoices and appropriate backup

We anticipate communication by way of phone, e-mail, and face-to-face meetings, as appropriate.

**EXHIBIT "B"**



TAB F

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# COST PROPOSAL



## PREFERRED CLIENT FEE SCHEDULE PROFESSIONAL SERVICES

Effective February 2022

President.....	\$450.00 per hour
Principal .....	\$350.00 per hour
Associate .....	\$290.00 per hour
Subject Matter Expert.....	\$400.00 per hour
Senior.....	\$250.00 per hour
Project.....	\$225.00 per hour
Staff.....	\$198.00 per hour
Assistant .....	\$160.00 per hour
Construction Services Manager II .....	\$205.00 per hour*
Construction Services Manager I .....	\$192.00 per hour*
Senior Field Representative II .....	\$170.00 per hour**/**
Senior Field Representative I .....	\$150.00 per hour**/**
Field Representative.....	\$140.00 per hour**/**
Senior Laboratory Technician .....	\$175.00 per hour
Laboratory Technician .....	\$155.00 per hour
Senior GIS Analyst .....	\$180.00 per hour
GIS Analyst.....	\$170.00 per hour
Senior CAD Specialist .....	\$170.00 per hour
CAD Specialist.....	\$155.00 per hour
Network Administrator .....	\$250.00 per hour
Project Assistant.....	\$140.00 per hour

\* Two-hour minimum portal to portal and cancellations within 24 hours.

\* **OVERTIME RATES:** Rates increased by factor of 1.5 for all hours worked in excess of eight (8) Monday through Friday, and the first eight (8) hours worked on Saturday. Rates increased by factor of 2.0 for all hours worked in excess of twelve (12) Monday through Friday, all hours worked in excess of eight (8) on Saturday and all hours worked on Sunday and holidays.

\*\* For Prevailing Wage projects, increase the hourly rate by \$18.

\*\* Rates increased by factor of 1.25 for night shift hours (hours commencing after 4:00 p.m. or before 4:00 a.m.); rates increased by factor of 1.875 (an additional factor of 1.5) for all night shift hours in excess of eight (8).

### ADDITIONAL SERVICES OFFERED

In addition to our core services of geotechnical, hydrologic and environmental engineering, including construction-phase testing and observation, ENGEO provides clients with services for establishment and management of Geologic Hazard Abatement Districts (GHAD) and for Entitlement and Permitting Support (EPS). For more information about these services and associated pricing, please contact ENGEO at (925) 866-9000.

### OTHER FEES

- Equipment and materials will be charged in addition to the above hourly rates.
- Outside Consultants, Subcontracted Services and Equipment Rental ..... Cost plus 20%
- Deposition, Mediation, Arbitration, or Court Appearance (Minimum Charge) ..... \$2,400.00 half day, \$4,800.00 full day

### TERMS

Invoices will be submitted at completion of work or at approximately four week intervals and are due and payable upon receipt. Statements will be issued at monthly intervals. Charges not paid within 30 days of invoice date will accrue a late charge at a rate of 1.5 percent per month. In the event it becomes necessary to commence suit to collect amount due, Client agrees to pay attorney's fees and costs, as the court may deem reasonable until amount is paid. Fees will be applicable for one year from the effective date above; thereafter, fees will be adjusted annually. Our fees will be billed using an invoice format produced by a standardized accounting software package. A more customized itemization of charges and backup data will be provided upon Client's requests, but at additional fees. Final reports may be withheld until outstanding invoices are paid in full.

Many risks potentially affect ENGEO by virtue of entering into this agreement to perform services on behalf of client. A principal risk is the potential for human error by ENGEO. For client to obtain the benefit of a fee that includes a nominal allowance for dealing with our liability, client agree to limit ENGEO's liability to Client and all other parties for claims arising out of our performance of the services described in the agreement. The aggregate liability will not exceed \$50,000 (or ENGEO's fee, whichever is greater, but not more than \$1,000,000) for professional acts, errors, or omissions, including attorney's fees and costs that may be awarded to the prevailing party and client agrees to indemnify and hold harmless ENGEO from and against all liabilities in excess of the monetary limit established above.

## EQUIPMENT AND MATERIALS CHARGES

DESCRIPTION	COST PER UNIT (\$)	UNIT
Air Content Meter	7.00	hour
Bailers (Disposable)	10.00	each
Coatings Thickness Kit (eg. Fireproofing, Protective Paint)	30.00	hour
Concrete Crack Monitor	20.00	each
Coring Machine	30.00	hour
Double-Ring Infiltrometer	50.00	hour
Electronic Water Level Indicator	5.00	hour
Engineering Analysis Software	45.00	hour
Equipment Transport(er)	100.00	hour
Exploration Equipment (Electric Auger)	50.00	hour
Floor Flatness/Floor Level Equipment	40.00	hour
Generator	15.00	hour
GIS Website Portal Maintenance	100.00	month
GPR/GPS Handheld Device	10.00	hour
GPR/GPS/Drone Survey Grade Equipment	210.00	hour
Hand Auger and Soil Sampler	15.00	hour
Hydraulic Pull-Test Equipment	25.00	hour
Interface Probe	2.00	hour
Magnetic Particle Test Equipment	25.00	hour
Moisture Content Test Equipment	6.00	hour
Multi-Parameter Water Meter	15.00	hour
pH Meter/Turbidity Meter	10.00	hour
Photo Ionization Detector	20.00	hour
Reinforcing Bar Locator	100.00	hour
Sampling Tubes	10.00	each
Sand Cone Equipment and Material	5.00	hour
Schmidt Hammer	20.00	hour
Seisometer	50.00	hour
Skidmore Wilhelm Bolt Tension Calib.	40.00	hour
Slope Inclinometer/Settlement Indicator/VW Readout	50.00	hour
Torque Wrench	15.00	hour
Transfer Pump	3.00	hour
Ultrasonic Equipment	50.00	hour
Vapor Emission Test Kit	40.00	kit
Vector Conversion	60.00	conversion
Vehicle, nuclear gauge, equipment, wireless communication. *Add \$5.00/hr. for RTK enabled autotesting equipment.	32.00*	hour
Vehicle, equipment, wireless communication	22.00	hour
Vibration Monitor	1800.00	month
Water Sampling Pumps	20.00	hour
Bridge Toll	actual	actual
Mileage	.78	mile
Parking	actual	actual
AutoCAD, Civil 3D, GIS, Drone Data Processing	29.00	hour
Photocopies Black & White	0.25	each
Photocopies Color 11 x 17	1.50	each
Photocopies Color 8½ x 11	1.00	each
Plot - Black & White	3.00	square foot
Plot - Color	4.00	square foot
Postage	actual	actual
Scan - Black & White	1.50	each
Scan - Color	3.75	each
Telephone	0.50	minute

### SUMMARY OF LABORATORY FEES

Effective February 2022

Our Laboratories are accredited by AASHTO, Caltrans, DSA, and the US Army Corps of Engineers

LAB CODE	TEST SPECIFICATION	STANDARD TURNAROUND (BUSINESS DAYS)*	STANDARD PRICING*	RUSH TURNAROUND (BUSINESS DAYS)*	RUSH PRICING*
<b>SOIL AND ROCK</b>					
8800	Caltrans Relative Compaction, CT216	3	\$400	Same Day	\$800
9100	Clay Lumps and Friable Particles, ASTM C142	5	\$105	Next Day	\$210
9130	Cleanness Value, CT 227 each	5	\$250	2	\$500
8310	Compaction, ASTM D1557 (A-C)	4	\$350	2	\$700
8311	Compaction Point, AASHTO T272	4	\$370	2	\$740
8312	Compaction, ASTM-1557 (A-D) or ASTM-D698 with Correction	4	\$420	2	\$840
8313	Compaction, ASTM 1557 (A-D), Same Day Preliminary Results	1	\$730	N/A	N/A
8314	Compaction, ASTM-1557 or ASTM-D698, Same Day with Correction	1	\$840	N/A	N/A
8315	Compaction, Rock Correction, ASTM D4718	4	\$94	Next Day	\$187
8316	Compaction, ASTM D4253, Vibratory Table	4	\$440	2	\$880
8317	Compaction, Cemented Treated, ASTM D558	5	\$440	3	\$880
8220	Consolidation – Incremental Loading ASTM D2435, Method A	32	\$600	16	\$1,200
8221	Consolidation – Incremental Loading ASTM D2435, Method B	32	\$635	16	\$1,270
8230	Consolidation, ASTM D2435 Unload – Reload Cycle	4	\$80	2 Additional	\$160
8410	Consolidation – CRS, ASTM D4186, Depths from 0 to 75 feet	5	\$650	4	\$1,300
8411	Consolidation – CRS, ASTM D4186, Depths from 75 feet and below and/or stiff clays	5	\$770	4	\$1,540
Additional Unload – Reload Cycle (for CRS, Lab Code 8410 and 8411 only)					
8412	Stress Range: 1 - 5 ksf	Variable	\$170	N/A	\$340
8413	Stress Range: 5 - 10 ksf	Variable	\$255	N/A	\$510
8414	Stress Range: 10 - 15 ksf	Variable	\$340	N/A	\$680
8415	Stress Range: 15 - 20 ksf	Variable	\$420	N/A	\$840
8184	Deep Soil Mix (DSM) Compression Test	5	\$94	2	\$188
8201	Direct Shear – CD, Additional Cycles (per point) ASTM D3080	2	\$82	N/A	\$164
8202	Direct Shear – CD, (2-points) ASTM D3080	8	\$550	5	\$1,100
8203	Direct Shear – CD, (3-points) ASTM D3080	12	\$770	8	\$1,540
8204	Direct Shear – CD, (4-points) ASTM D3080	16	\$950	12	\$1,900
8451	Direct Shear – CD, (Additional Point) ASTM D3080	5	\$275	3	\$550
8991	Cyclic Simple Shear Test (CSS), ASTM D8296	5	\$2,100	5	\$4,200
8992	Monotonic Simple Shear Test, ASTM D6528 - NOT AVAILABLE AT THIS TIME	5	\$1,000	5	\$2,000
8900	Durability Index, CT229	5	\$275	Next Day	\$550
8320	Expansion Index, ASTM D4829	8	\$450	4	\$900
8321	Expansion Index, ASTM D4829 - Lime Treated in Lab	Dependent on cure time	\$495	Dependent on cure time	\$990
9630	Fine Aggregate Angularity Percentage, CT 234, AASHTO T304, Method A	5	\$160	Next Day	\$320
8990	Laboratory Miniature Vane Shear (peak Value), ASTM D4648	5	\$140	Next Day	\$280
8160	Moisture Content & Unit Weight, ASTM D7263	5	\$68	Next Day	\$136
8140	Moisture Only, ASTM D2216, CT 226	5	\$45	Next Day	\$90
8150	Moisture Only, ASTM D4643, CT 370 (By Microwave oven)	5	\$110	Same Day	\$220
9590	Organic Content of Soil ASTM D2974	5	\$180	Next Day	\$360
9090	Organic Impurities, ASTM C40	5	\$160	Next Day	\$320
9120	Percent Crushed Particles, CT205	5	\$185	Same Day	\$370

## SUMMARY OF LABORATORY FEES

Effective February 2022

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LAB CODE	TEST SPECIFICATION	STANDARD TURNAROUND (BUSINESS DAYS) *	STANDARD PRICING*	RUSH TURNAROUND (BUSINESS DAYS)*	RUSH PRICING*
9110	Percent Flat or Elongated Particles, ASTM D4791, CT 235	5	\$210	Same Day	\$420
8980	Soil pH, percent Lime for Stabilization, ASTM D6276 (Eades and Grimm)	5	\$440	Next Day	\$880
8040	Hydraulic Conductivity, Falling Head or Constant Head, ASTM D5084 Currently Unavailable	8	\$550	4	\$1,100
8870	Soil pH, ASTM D4972, CT 643	5	\$110	Same Day	\$120
8190	Plasticity Index, Dry Method - ASTM D4318	5	\$270	Next Day	\$540
8191	Plasticity Index, Wet Method - ASTM D4318 (ASTM Default method)	5	\$270	Next Day	\$540
8510	Rock Core Unconfined Compressive Strength, ASTM D7012	5	\$315	Same Day	\$330
8970	R-Value - Lime Treated, ASTM D2844 CT301	6	\$550	3	\$1,100
8290	R-Value, ASTM 2844, CT301	6	\$475	3	\$950
8280	Sand Equivalent, CT 217, ASTM D2419	5	\$215	Next Day	\$430
8261	Dry Sieve, ASTM D1140, C117	5	\$170	Next Day	\$340
8262	#200 Wash, ASTM D1140, C117	5	\$120	Next Day	\$240
8263	Sieve & #200 Wash, ASTM D422, D6913, C136, CT202	5	\$190	Next Day	\$380
8264	Sieve & Hydrometer, ASTM D422, D7928	5	\$300	2	\$600
8250	Specific Gravity, ASTM D854	5	\$250	Next Day	\$500
8251	Specific Gravity, ASTM C127 or C128	5	\$132 Per Size Fraction	Next Day	\$265 Per Size Fraction
8660	Specimen Remolding and/or Lab Mixing (per specimen)	Varies	\$130	Dependent on type of remolding	\$260
8240	California Bearing Ratio (CBR), ASTM D1883	4	\$265	Next Day	\$530
9070	Sulfate Soundness, CT 214, ASTM C88	6	\$270/ Fraction	Dependent on number of fractions	\$540/ Fraction
8111	Sulfate Testing in Soils ASTM C1580	5	\$220	Next Day	\$440
8490	Swell Test A, per point ASTM D4546 - 2004	5	\$370	4	\$740
8500	Swell Test B, per point ASTM D4546 - 2004	5	\$400	4	\$800
8501	Swell Test C, per point ASTM D4546 - 2004	5	\$350	4	\$700
8491	Swell/Collapse Test A, per point ASTM D4546	8	\$375	4	\$750
8503	Swell/Collapse Test B, per point ASTM D4546	5	\$375	Dependent on material behavior	\$750
8502	Swell/Collapse Test C, per point ASTM D4546	5	\$400	Dependent on material behavior	\$400
8170	Soil Cement – Wet/Dry Durability, ASTM D559	Varies	\$1,250	N/A	\$2,500
8350	Isotropic Triaxial Compression – CU, Single Specimen, Multistage Test ASTM D4767 - Modified	Varies	\$1,050/ Stage	Dependent on number of stages and material type	\$2,100/ Stage
8340	Isotropic Triaxial Compression – CU (1- point ) ASTM D4767, USACE	5	\$580	4	\$1,160
8341	Isotropic Triaxial Compression – CU (2 points) ASTM D4767, USACE	9	\$1,160	8	\$2,320
8342	Isotropic Triaxial Compression – CU (3 points) ASTM D4767, USACE	14	\$1,825	12	\$3,650
8343	Isotropic Triaxial Compression – CU (4 points) ASTM D4767, USACE	18	\$2,350	15	\$4,700
8330	Isotropic Triaxial Compression – UU (per point) ASTM D2850, USACE	5	\$210	Next Day	\$420
8180	Unconfined Compression - Soils, ASTM D2166	5	\$140	Next Day	\$280
8181	Unconfined Compression, Lime/Cement-Treated Soil ASTM D5102/D1633	18	\$365	9	\$730
8182	Unconfined Compression, Lime/Cement-Treated Soil CTM 373	18	\$1,050	9	\$2,100



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Effective February 2022

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8183	Unconfined Compression, Lime/Cement -Treated Soil, Additional points	18	\$60	9	\$120
8179	Unconfined Compressive Strength Testing, Soil-Cement-Bentonite Slurry (field sample), ASTM D1633	Dependent on the specified break schedule	\$200	Dependent on the specified break schedule	\$400
<b>CONCRETE</b>					
9220	Absorption, ASTM C642	6	\$475	Next Day	\$950
9013	Shotcrete, Field cores (cored in the field), per core, ASTM C42	5	\$110	2	\$220
9014	Shotcrete, Lab cores (Cored from panels in the lab), per core, ASTM C42	5	\$175	2	\$350
9320	Compression Test, per 6" x 12" cylinder, ASTM C39	5	\$48	Same Day	\$96
9330	Compression Test, per 4" x 8" cylinder ASTM C39	5	\$44	Same Day	\$88
9941	Flexural Strength of Concrete Beams (4"x4"x14") ASTM C78	5	\$135	Same Day	\$270
9940	Flexural Strength of Concrete Beams (6"x6"x20") ASTM C78	5	\$150	Same Day	\$300
9340	Compressive Strength of Lightweight Insulating Concrete (ASTM C495)	5	\$165	Same Day	\$330
9020	Core Trimming, In Laboratory	5	\$70	Same Day	\$140
9950	Thickness of Drilled Concrete Cores, ASTM C174	5	\$40	Same Day	\$80
9060	Laboratory Trial Batch, ASTM C192, Including Test Cylinders	5	\$1,000	Same Day	\$2,000
9080	Length Change (3 bars, 4 readings, up to 90 days), ASTM C157 modified	28-90	\$610	28-90	\$1,220
9050	Slab Moisture Determination Test Kit	5	\$40	Next Day	\$80
9000	Unit Weight of Lightweight Concrete Cylinders (ASTM C495)	5	\$60	Next Day	\$120
<b>CONCRETE MASONRY UNITS</b>					
9160	Compression, ASTM C140	5	\$120	Same Day	\$240
9140	Moisture Content as Received, Absorption ASTM C140	5	\$80	Next Day	\$160
<b>MASONRY PRISMS</b>					
9190	Compression Test, Grouted Prisms, ASTM C1314	5	\$325	Next Day	\$650
9200	Trimming Grouted Prisms	5	\$150	Next Day	\$300
<b>MORTAR &amp; GROUT</b>					
9250	Compression Test 2" Mortar Cubes, ASTM C109	5	\$70	Next Day	\$140
9240	Compression, Grout Prisms, ASTM C39	5	\$72	Next Day	\$144
9230	Compression, Mortar Cylinder, ASTM C39	5	\$70	Next Day	\$140
<b>ASPHALTIC CONCRETE</b>					
8010	AC Correction Factor, ASTM D6307, CT 382	N/A	N/A	N/A	\$625
8020	RAP Aggregate Gradation Correlation Factor, Caltrans LP-9	N/A	N/A	N/A	\$3,000
8070	AC Maximum Density (Avg. of 3 Briquettes) D1188, CT308	N/A	N/A	N/A	\$620
8071	AC Maximum Density (Avg. of 3 Briquettes) D1188, CT 308 (S-Value is performed prior to LTMD)	N/A	N/A	N/A	\$550
8090	AC Maximum Theoretical Unit Weight ASTM D2041, CT 309 (Rice Specific Gravity)	N/A	N/A	N/A	\$470
9460	Asphalt Core Density (4" Core), ASTM D1188, ASTM 2726, CT308	N/A	N/A	N/A	\$140
9461	Asphalt Core Density (6" Core), ASTM D1188, ASTM 2726, CT 308	N/A	N/A	N/A	\$165
9462	Thickness of Asphalt Cores, CT 308	5	\$42	2	\$84
8532	Extraction by Centrifuge ASTM 2172	N/A	N/A	N/A	\$550
8531	Extraction by Ignition Oven, ASTM D6307, CT 382	N/A	N/A	N/A	\$420
8533	Extraction by Reflux Extractor, ASTM D2172 – Method B	N/A	N/A	N/A	\$860
8050	Stability Test (Avg. of 3 Briquettes), ASTM D1560, CT 366, (w/o Max. Density test)	N/A	N/A	N/A	\$850
8060	Marshall Stability and Flow of Bituminous Mixtures, ASTM D6927	5	\$350	3	\$700

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Effective February 2022

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<b>VOLUMETRIC PROPERTIES OF HMA</b>					
9660	Absorbed Asphalt Binder CT 367	N/A	N/A	N/A	\$210
9600	Air Void Content	N/A	N/A	N/A	\$210
9670	Bulk Specific Gravity – Admixture Blend CT 367	N/A	N/A	N/A	\$210
9640	Dust Proportions, CT 367, Caltrans LP-4	N/A	N/A	N/A	\$210
9680	Effective Asphalt Binder of Volume, CT 367	N/A	N/A	N/A	\$210
9690	Effective Binder Content, CT 367	N/A	N/A	N/A	\$210
9580	Effective Specific Gravity of Aggregate-Admixture Blend, CT 367	N/A	N/A	N/A	\$210
9620	Void Filled With Asphalt CT 367, LP-3	N/A	N/A	N/A	\$210
9610	Voids in Mineral Aggregate CT 367, LP-2	N/A	N/A	N/A	\$210
Note: Lab fees for volumetric properties of HMA per CT 367 are based on tests CT 202, CT 308, CT 309, and CT 382 have been completed.					
<b>FIREPROOFING</b>					
9990	Oven Dry Density, Fireproofing, per sample	5	\$110	Next Day	\$220

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Effective February 2022

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- \*Rush turnaround times are calculated based on the average minimum time required to complete the test and remain compliant with the applicable test standard.
- \*Rush turnaround time prioritizes rush testing over other requested testing and dedicates a technician to complete the rush testing as quickly as possible. Rush turnaround times are estimates only and do not guarantee test completion within the estimated rush testing timeframe.
- \*Test turnaround time is the amount of time required to perform the test once started. Test start times are dependent on available labor and equipment. Please contact Lab Services at [labservices@engeo.com](mailto:labservices@engeo.com) to determine equipment capacity and availability. Turnaround times are estimates only and do not guarantee test completion within the estimated testing timeframe.
- \*The testing fees and test durations listed reflect the standard business hours required to perform the test. Samples requiring premium handling will incur additional hourly personnel charges in accordance with the Laboratory Technician Rate presented on our Fee Schedule.
- Add three days to the estimated test duration for soil testing that requires remolded specimens.
- The above fees are reviewed annually and are subject to change. Additional tests are available upon request.
- Prices exclude field collection and transportation to the laboratory.
- Supplemental fees for laboratory preparation of specimens are charged on an hourly basis.
- Where tests are to be run 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 listed unit rate.
- Sample storage is \$110 per month per cubic yard of storage space.
- There is a 3:00 pm cut-off time for sample delivery/test start time.
- Turnaround times are based on samples delivered to the laboratory before 3:00 pm. Turnaround time on samples received after 3:00 pm will begin at 7:00 am the following business day.
- Concrete/masonry compression breaks requested prior to the scheduled break date and/or prior to 7:00 am will be considered rush testing requests and billed a rush fee.
- Witness testing will be billed at \$150.00/hour per individual witness. Needs a labor code. 1 unit = \$150.
- There is a 100% increase in fees per test for testing contaminated samples.
- Disposal charges for contaminated samples will be billed to the project on a time-and-expense basis.
- All project required weekend work is billed directly to the project with a 2-hour minimum charge.
- Samples requiring premium handling, such as searching for testable portions (Shelby, D&M tubes, etc.), will be billed on a time-and-expense basis to the project.

