

**ENGINEERING SERVICES AGREEMENT BETWEEN
CITY OF APACHE JUNCTION AND QUALITY TESTING LLC
FOR ENGINEERING ON-CALL SERVICES PROJECT NO. RFQ PW 26-02**

THIS AGREEMENT is made as of the ____ day of _____ 20____ (the “Effective Date”) by and between the CITY OF APACHE JUNCTION, an Arizona municipal corporation (“City”), and QUALITY TESTING LLC., an Arizona Corporation (“Consultant”), sometimes collectively referred to as the “Parties” or individually as a “Party” for the project entitled “PW 26-02 – ENGINEERING ON-CALL SERVICES”.

RECITALS

A. City desires to retain an engineer to assist in a comprehensive on-call geotechnical services and to make payment for the same in accordance with the terms and conditions set forth in this Agreement, including all attachments and addenda which are appended to it.

B. The open market procedures have been satisfied to the extent they apply.

C. The Parties have set forth below contemplated services Consultant will provide to City, including payment terms for such services and products.

AGREEMENT

NOW, THEREFORE, in consideration of the Recitals noted above, the mutual covenants and conditions below, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

1. **CONSULTANT’S DUTIES:** Consultant agrees to perform the professional services detailed in Exhibit A (the “Services”).

2. **COMPENSATION:** In accordance with Exhibit B and the terms and conditions of this Agreement, City shall compensate Consultant on a per-project basis for services in an amount not to exceed One Hundred Thousand Dollars and Zero Cents (\$100,000.00) (the “Contract Amount”).

3. **CONSULTANT BILLING:** Consultant shall invoice City on a time and expense basis in a total amount not to exceed the Contract Amount. City agrees to process for payment invoices received from Consultant within thirty (30) calendar days following receipt of such invoices, provided Consultant fulfills all duties and obligations set forth in this Agreement. Review of invoices by City may include an inspection of the Services.

4. **TERM:** The term of this Agreement shall commence on July 1, 2026 and end on June 30, 2029. This Agreement may be renewed for up to two (2) additional years upon mutual written consent of the Parties, provided that any renewal shall be executed by an authorized signatory of the Parties and shall set forth in writing the renewed term of the Agreement and, if applicable, a specified dollar amount of additional payment to be owed by City to Consultant.

5. **CITY'S STANDARD OF PERFORMANCE:** City shall furnish Consultant with all data, information and other supporting services necessary for Consultant to perform the Services. City shall not be responsible for discovering deficiencies in the technical accuracy of the Services.

6. **CONSULTANT'S STANDARD OF PERFORMANCE:** The Services shall be performed by qualified professionals licensed in Arizona, selected and paid by Consultant and acting in the interest of the Consultant. While performing the Services, Consultant and its subcontractors shall exercise the reasonable professional care and skill customarily exercised by reputable members of Consultant's profession practicing in the Phoenix Metropolitan Area and shall use reasonable diligence and best judgment while exercising its professional skill and expertise. Consultant shall be responsible for all errors and omissions Consultant or its subcontractors commit in the performance of this Agreement. Consultant shall correct any deficiencies in the technical accuracy of the Services without additional compensation except to the extent such corrective action is directly attributable to deficiencies in any information provided by City.

7. **NOTICES:** All notices to a Party required under this Agreement shall be in writing and sent by first class certified mail, postage prepaid, return receipt requested, addressed to the following:

If to City: City of Apache Junction
Emile Schmid
Department of Public Works
575 East Baseline Avenue
Apache Junction, AZ 85119

If to Consultant: Quality Testing LLC
175 S Hamilton Pl
Bldg 6 Ste #114
Gilbert, AZ 85233

8. INSURANCE:

8.1 General Provisions. Consultant, at its own expense, shall purchase and maintain during the Term the insurance required by this Agreement with companies duly licensed, possessing a current A.M. Best, Inc. Rating of B++6, or approved unlicensed in the State of Arizona with policies and forms satisfactory to City.

All insurance required by this Agreement shall be maintained in full force and effect until the Services are accepted by the City. Failure to do so may, at the sole discretion of City, constitute a material breach of this Agreement.

Consultant's insurance shall be primary insurance as respects the City, and any insurance or self-insurance maintained by City shall not contribute to it.

Any failure to comply with the claim reporting provisions of the insurance policies or any breach of an insurance policy warranty shall not affect coverage afforded under the insurance policies to protect City.

The insurance policies, except Workers' Compensation, shall contain a waiver of transfer rights of recovery (subrogation) against City, its agents, officers, officials and employees for any claims arising out of Consultant's acts, errors, mistakes, omissions, work or service.

The insurance policies may provide coverage which contains deductibles or self-insured retentions. Such deductible and/or self-insured retentions shall not be applicable with respect to the coverage provided to City under such policies. Consultant shall be solely responsible for the deductible and/or self retention and City, at its option, may require Consultant to secure payment of such deductibles or self-insured retentions by a surety bond or an irrevocable and unconditional letter of credit.

The insurance policies required by this Agreement, except Workers' Compensation and Professional Liability, shall name City, its elected officials, agents, officers, and employees as Additional Insured Parties.

Consultant shall expressly bind any subcontractors, or any other lower tier subcontractors, used in the performance of any aspect of the Services, to the insurance requirements in this Agreement, making such obligations applicable to the other subcontractor to the same extent as it is applicable to Consultant. The

purpose of this provision is to require any lower tier subcontractor, regardless of level, to provide insurance and indemnity required by this Agreement.

8.2 Commercial General Liability. Consultant shall maintain throughout the Term Commercial General Liability insurance with a limit of not less than \$1,000,000 for each occurrence with a \$2,000,000 Products/Completed Operations Aggregate and a \$2,000,000 General Aggregate limit. The policy shall include coverage for bodily injury, broad form property damage, personal injury, products and completed operations and blanket contractual coverage including, but not limited to, the liability assumed under the indemnification provisions of this Agreement, which coverage will be at least as broad as that on Insurance Service Office, Inc. Policy Form No. CG 00011093, or the equivalent thereof.

Such policies shall contain a severability of interest provision and shall not contain a sunset provision or commutation clause, nor any provision which would serve to limit third party action over claims.

The Commercial General Liability additional insured endorsement shall be at least as broad as the Insurance Service Office, Inc.'s Additional Insured, Form B, CG 20101185, or the equivalent thereof, and shall include coverage for Consultant's operations and products and completed operations.

If Consultant sublets any part of the Services, Consultant shall purchase and maintain, at all times during prosecution of the Services an Owner and Contractor's Protective Liability insurance policy for bodily injury and property damage, including death, which may arise in the prosecution of the Services. Coverage shall be on an occurrence basis with a limit of not less than \$2,000,000 per occurrence, and the policy shall be issued by the same insurance company that issues Consultant's Commercial General Liability insurance.

8.3 Automobile Liability. Consultant shall maintain Commercial/Business Automobile Liability insurance with a combined single limit for bodily injury and property damage of not less than \$1,000,000 each occurrence with respect to Consultant's owned, hired, and non-owned vehicles assigned to or used in performance of the Services. Coverage will be at least as broad as coverage code 1, "any auto", (Insurance Service Office, Inc. Policy Form CA 00011293, or the equivalent thereof). Such insurance shall include coverage for loading and off-loading hazards. If hazardous substances, materials or wastes are to be transported, federal mandatory motor carrier safety ("MCS") 90 endorsement shall be included and \$5,000,000 per accident limits for bodily injury and property damage shall apply.

8.4 Workers' Compensation. Consultant shall carry Workers' Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction over Consultant's employees engaged in the performance of the Services; and Employer's Liability insurance of not less than \$100,000 for each accident, \$100,000 disease for each employee, and \$500,000 disease policy limit.

By execution of this Agreement, Consultant certifies as follows:

"I am aware and understand the provisions of A.R.S. § 23-901 *et seq.* which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of this chapter, and I will comply with such provisions before commencing the performance of the Services of this Agreement."

If Consultant has no employees for whom Workers' Compensation insurance is required by federal or state statutes, Consultant shall submit a declaration or affidavit to City so stating and covenanting to obtain such insurance if and when Consultant employs any employees subject to coverage.

8.5 Professional Liability. Consultant shall maintain Professional Liability insurance covering acts, errors, mistakes and omissions arising out of the work or services performed by Consultant, or any person employed by Consultant, with a limit of not less than \$1,000,000 each claim.

8.6 Certificates of Insurance. Prior to commencing the Services, Consultant shall furnish City with Certificates of Insurance, or formal endorsements as required by the Agreement, issued by Consultant's insurer(s), as evidence that policies providing the required coverages, conditions and limits required by this Agreement are in full force and effect. City shall not be obligated, however, to review same or to advise Consultant of any deficiencies in such policies and endorsements, and such receipt shall not relieve Consultant from, or be deemed a waiver of, City's right to insist on strict fulfillment of Consultant's obligations under this Agreement.

The form of the certificates of insurance and endorsements shall be subject to the approval of the Apache Junction City Attorney's Office, shall comply with the terms of this Agreement. Policies or certificates and completed forms of City's Additional Insured Endorsement (or a substantially equivalent insurance company form acceptable to the City Attorney) evidencing the coverage required by this Agreement shall be delivered to City Attorney, City of Apache Junction, 300 East Superstition Boulevard, Apache Junction, AZ 85119. The policy or

policies shall be in the usual form of public liability insurance, but shall also include the following provision:

“Solely as respects work done by or on behalf of the named insured for the City of Apache Junction, it is agreed that the City of Apache Junction and its elected officials, officers, agents and employees are added as additional insured parties under this policy.”

In the event any insurance policies required by this Agreement are written on a “claims made” basis, coverage shall extend for two (2) years past completion and acceptance of Consultant’s work or services and as evidenced by annual Certificates of Insurance.

Consultant shall require its insurers to provide City thirty (30) calendar days’ prior written notice of any nonrenewal, cancellation, or material change in the coverage under such policy reducing coverage to below the amounts required by this Agreement. If a policy does expire during the life of the Agreement, a renewal certificate must be sent to City thirty (30) calendar days prior to the expiration date.

9. **APPLICABLE LAW AND VENUE:** The terms and conditions of this Agreement shall be governed by and interpreted in accordance with the laws of the State of Arizona. Any action at law or in equity brought by either Party for the purpose of enforcing a right or rights provided for in this Agreement, shall be tried in a court of competent jurisdiction in Pinal County, State of Arizona. The Parties hereby waive all provisions of law providing for a change of venue in such proceeding to any other county. In the event either Party shall bring suit to enforce any term of this Agreement or to recover any damages for and on account of the breach of any term or condition in this Agreement, it is mutually agreed that the prevailing party in such action shall recover all costs including: all litigation and appeal expenses, collection expenses, reasonable attorney fees, necessary witness fees and court costs to be determined by the court in such action.

10. **FORCE MAJEURE:** Neither City nor Consultant, as the case may be, shall be considered not to have performed its obligations under this Agreement in the event of enforced delay (an “Enforced Delay”) due to causes beyond its control and without its fault or negligence or failure to comply with applicable laws, including, but not restricted to, acts of God, fires, floods, epidemics, pandemics and related executive orders, quarantines, restrictions, embargoes, labor disputes, and unusually severe weather or the delays of subcontractors or materialmen due to such causes, acts of a public enemy, war, terrorism or act of terror (including but not limited to bio-terrorism or eco-terrorism), nuclear radiation, blockade, insurrection, riot, labor strike or interruption, extortion,

sabotage, or similar occurrence or any exercise of the power of eminent domain of any governmental body on behalf of any public entity, or a declaration of moratorium or similar hiatus (whether permanent or temporary) by any public entity directly affecting the obligations under this Agreement. In no event will Enforced Delay include any delay resulting from unavailability for any reason of labor shortages, or the unavailability for any reason of particular contractors, consultants, subcontractors, vendors or investors desired by Consultant in connection with the obligations under this Agreement. Consultant agrees that Consultant alone will bear all risks of delay which are not Enforced Delay. In the event of the occurrence of any such Enforced Delay, the time or times for performance of the obligations of the Party claiming delay shall be extended for a period of the Enforced Delay; provided, however, that the Party seeking the benefit of the provisions of this Section 10 shall, within thirty (30) calendar days after such Party knows or should know of any such Enforced Delay, first notify the other Party of the specific delay in writing and claim the right to an extension for the period of the Enforced Delay; and provided further that in no event shall a period of Enforced Delay exceed ninety (90) calendar days.

11. **TERMINATION:** This Agreement may be terminated by either Party for any reason upon thirty (30) days written notice. If this Agreement is terminated, City shall be reimbursed from Consultant the amount paid for any undelivered and/or unaccepted products or services. City shall pay Consultant for completed and acceptable work performed pursuant to this Agreement prior to the date of termination.

12. **INDEMNIFICATION:** To the fullest extent permitted by law, Consultant shall defend, indemnify and hold harmless City, its elected officials and appointed officers, special districts, agents, and employees from and against any and all liability including but not limited to demands, claims, actions, fees, costs and expenses, including reasonable attorney and expert witness fees, arising from, or alleged to have arisen from, relating to, arising out of, or alleged to have resulted from the acts, errors, mistakes, omissions, work or services of Consultant, its agents, employees, or any tier of Consultant's subcontractors in the performance of this Agreement, but only to the extent caused by the negligence, recklessness or intentional wrongful conduct of Consultant or its subcontractors in the performance of the Services under this Agreement or any subcontract. Consultant's duty to defend, hold harmless and indemnify City, its elected officials and appointed officers, special districts, agents, and employees shall arise in connection with any claim, damage, loss or expense that is attributable to bodily injury, sickness, disease, death, or injury to, impairment, or destruction of property including loss of use resulting therefrom, caused by an Consultant's acts, errors, mistakes, omissions, Services or services in the performance of this Agreement including any employee of Consultant, any tier of Consultant's subcontractor or any other person for whose acts, errors, mistakes, omissions, services or work Consultant may be legally liable, but only to the extent caused by the negligence, recklessness or intentional wrongful conduct of

Consultant or any tier of Consultant's subcontractors or any other person for whose acts, errors, mistakes, omissions, services or work Consultant may be legally liable in the performance of the Services under this Agreement or any subcontract. The amount and type of insurance coverage requirements set forth in this Agreement will in no way be construed as limiting the scope of the indemnity in this Section 12. The rights and obligations under this Section 12 shall survive expiration or termination of this Agreement.

13. **TAXES:** Consultant shall pay as they become due all license, sales, consumer, transaction privilege, use and other similar taxes for services provided by Consultant which are legally enacted at the time the obligations under this Agreement are performed.

14. **PERMITS AND FEES:** Unless otherwise provided in this Agreement, Consultant shall secure and pay for all applicable permits, government fees, licenses and inspections necessary for the proper execution and completion of services which are customarily secured after execution of the Agreement. Consultant shall give all notices and comply with all laws, ordinances, rules, regulations and lawful orders of any public authority bearing on the performance of the Services. Consultant represents and warrants that any license necessary to perform the Services is current and valid. Consultant understands that the activity described in this Agreement constitutes "doing business in the City of Apache Junction" and Consultant agrees to obtain a business license pursuant to Chapter 8 of the Apache Junction City Code, Vol. I, and keep such license current during the Term. Consultant also acknowledges that the tax provision of the Apache Junction Tax Code, Chapter 8A, may also apply and if so, shall obtain a transaction privilege license and/or other licenses as may be required by all applicable laws.

15. **RECORDS:** Records of Consultant's labor, payroll, and other costs pertaining to this Agreement shall be kept on a generally recognized accounting basis and made available to City for inspection on request. Consultant shall maintain records for a period of at least two (2) years after expiration of this Agreement, and shall make such records available during that retention period for examination or audit by City personnel during regular business hours.

16. **RIGHT OF CITY TO CONTRACT WITH OTHERS:** Nothing in this Agreement shall imply City is obligated to obtain the Services described in this Agreement only through Consultant.

17. **INDEPENDENT CONTRACTOR:** City and Consultant agree and understand that the relationship between both Parties is that of an independent contractor. As such, Consultant is not entitled to receive any benefits to which City employees are entitled by virtue of their employment with City. City shall not be responsible for payment to employees of Consultant for salaries, related taxes (including, but not limited to, federal Social Security tax as well as federal and

state unemployment taxes) and all other expenses related to their employment or contractual relationship with Consultant.

18. WAIVER OF TERMS AND CONDITIONS: The failure of City or Consultant to insist in any one or more instances on performance of any of the terms or conditions of this Agreement or to exercise any right or privilege contained herein shall not be considered as thereafter waiving such terms, conditions, rights or privileges, and they shall remain in full force and effect.

19. COMPLIANCE WITH FEDERAL AND STATE LAWS: Consultant understands and acknowledges the applicability of the American with Disabilities Act, the Immigration Reform and Control Act of 1986 and the Drug Free Workplace Act of 1989 to the services performed under this Agreement.

As required by A.R.S. § 41-4401, Consultant hereby warrants its compliance with all federal immigration laws and regulations that relate to its employees and A.R.S. § 23-214(A). Consultant further warrants that after hiring an employee, Consultant will verify the employment eligibility of the employee through the E-Verify program. If Consultant uses any subcontractors in performance of services, subcontractors shall warrant their compliance with all federal immigration laws and regulations that relate to its employees and A.R.S. § 23-214(A), and subcontractors shall further warrant that after hiring an employee, such subcontractor verifies the employment eligibility of the employee through the E-Verify program. A breach of this warranty shall be deemed a material breach of the Agreement that is subject to penalties up to and including termination of this Agreement. Consultant is subject to a penalty of \$100 per day for the first violation, \$500 per day for the second violation, and \$1,000 per day for the third violation. City at its option may terminate this Agreement after the third violation. Consultant shall not be deemed in material breach of this Agreement if the Consultant and/or subcontractors establish compliance with the employment verification provisions of Sections 274A and 274B of the federal Immigration and Nationality Act and the E-Verify requirements contained in A.R.S. § 23-214(A). City retains the legal right to inspect the papers of any Consultant or subcontractor employee who works under this Agreement to ensure that the Consultant or subcontractor is complying with the warranty. Any inspection will be conducted after reasonable notice and at reasonable times. If state law is amended, the Parties may modify this paragraph consistent with state law without effectuating an official amendment to this Agreement. Email notification of the modification would be sufficient notice.

20. ENTIRE AGREEMENT: This Agreement and any attachments represent the entire agreement between City and Consultant and supersede all prior negotiations, representations or agreements, either express or implied, written or oral. It is mutually understood and agreed that no alteration or variation of the terms and conditions of this Agreement shall be valid unless made in writing and signed by the Parties. Written and signed amendments shall automatically

become part of this Agreement, and shall supersede any inconsistent provision therein; provided, however, that any apparent inconsistency shall be resolved, if possible, by construing the provisions as mutually complementary and supplementary.

21. **BINDING EFFECT, ASSIGNMENT AND DELEGATION:** City and Consultant each bind themselves, their partners, successors, assigns and legal representatives to the other Party and to the partners, successors, assigns and legal representatives of such other Party in respect to all covenants, agreements and obligations contained in this Agreement. Neither Party shall assign the Agreement or sublet it as a whole or delegate the duties under this Agreement, without the written consent of the other Party, nor shall Consultant assign any monies due or to become due to it without the previous written consent of City.

22. **SEVERABILITY:** City and Consultant each believe that the execution, delivery and performance of this Agreement are in compliance with all applicable laws. However, in the unlikely event that any provision of this Agreement is declared void or unenforceable (or is construed as requiring City to do any act in violation of any applicable laws, including any constitutional provision, law, regulation, or City Code), such provision shall be deemed severed from this Agreement and this Agreement shall otherwise remain in full force and effect; provided that this Agreement shall retroactively be deemed reformed to the extent reasonably possible in such a manner so that the reformed agreement (and any related agreements effective as of the same date) provide essentially the same rights and benefits (economic and otherwise) to the Parties as if such severance and reformation were not required. Unless prohibited by applicable laws, the Parties further shall perform all acts and execute, acknowledge and/or deliver all amendments, instruments and consents necessary to accomplish and to give effect to the purposes of this Agreement, as reformed.

23. **ACCURACY OF WORK:** Acceptance of services or work by City shall not relieve Consultant of the responsibility for subsequent correction of any such errors and the clarification of any ambiguities. Consultant shall make all necessary revisions or corrections resulting from errors and omissions on the part of Consultant without additional compensation.

24. **OWNERSHIP OF WORK PRODUCT.** All documents or other work product generated on behalf of City in connection with this Agreement are property of City. Any use or reuse of the documents or work product created by Consultant for projects they were not intended and/or without the professional involvement of Consultant shall be at City's sole risk and without liability to Consultant.

25. **CONFIDENTIALITY.** All information received in the performance of the Services shall be considered nonpublic and confidential. Consultant agrees

that neither it nor its contractors, agents or representatives shall communicate, whether in writing or verbally, any information concerning the Services except in strict compliance with the terms and conditions of an express authorization by the City Attorney. This confidentiality provision shall not apply to communication by Consultant with its subcontractors for the purposes of performing the Services under this Agreement.

26. TIME IS OF THE ESSENCE: Time is of the essence with respect to all provisions in this Agreement. Any delay in performance by either Party shall constitute a material breach of this Agreement.

27. PROHIBITION TO CONTRACT WITH CONSULTANTS WHO ENGAGE IN BOYCOTT OF THE STATE OF ISRAEL: The Parties acknowledge A.R.S. §§ 35-393 through 35-393.03, as amended, which forbids public entities from contracting with Consultants who engage in boycotts of the State of Israel. Should Consultant engage in any such boycott against the State of Israel, this Agreement shall be deemed automatically terminated by operation of law. Any such boycott is a material breach of this Agreement.

28. PROHIBITED USE OF FORCED LABOR: In accordance with A.R.S. § 35-394, Consultant hereby certifies and agrees that Consultant does not currently and shall not for the duration of this Agreement use: (1) the forced labor of ethnic Uyghurs in the People's Republic of China, (2) any services or goods produced by the forced labor of ethnic Uyghurs in the People's Republic of China, and/or (3) any suppliers, contractors or subcontractors that use the forced labor or any services or goods produced by the forced labor of ethnic Uyghurs in the People's Republic of China. If Consultant becomes aware during the Term that Consultant is not in compliance with this Section 28, then Consultant shall notify the City within five (5) business days after becoming aware of such noncompliance. If Consultant does not provide the City with written certification that Consultant has remedied such noncompliance within ninety (90) calendar days after notifying the City of such noncompliance, this Agreement shall terminate, except that if the Agreement termination date occurs before the end of such ninety (90) day remedy period, this Agreement shall terminate automatically.

29. CONFLICTS OF INTEREST: This Agreement is subject to, and may be terminated by City in accordance with, the provisions of A.R.S. § 38-511.

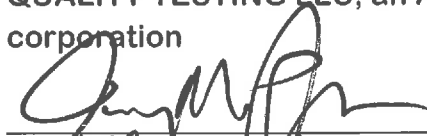
30. ORDER OF PRECEDENCE. Should there be any discrepancy or inconsistency between the terms and conditions of this Agreement and any terms and conditions in any exhibit to this Agreement, the terms and conditions of this Agreement shall control and prevail.

[Signatures on next page]

IN WITNESS WHEREOF, Consultant and City have executed this Agreement as of the date first set forth above.

CONSULTANT:

QUALITY TESTING LLC, an Arizona corporation



By: Jeffery M. Schaper

Its: President

CITY:

CITY OF APACHE JUNCTION, ARIZONA, an Arizona municipal corporation

By: Walter "Chip" Wilson

Its: Mayor

ATTEST:

Evie McKinney
City Clerk

APPROVED AS TO FORM:

R. Joel Stern
City Attorney

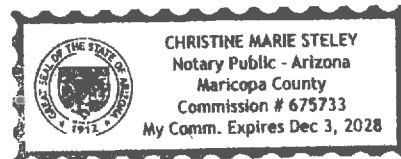
STATE OF Arizona)
) ss.
COUNTY OF Maricopa)

The foregoing was subscribed and sworn to before me this 9 day
of June, 2026, by Jeffrey Schnaper PB as President of
[Company Name], an Arizona [corporation/limited liability company].
Quality Testing LLC

Christine Marie Steley
Notary Public

My Commission Expires:

December 3, 2028



STATE OF ARIZONA)
) ss.
COUNTY OF PINAL)

The foregoing was subscribed and sworn to before me this ____ day
of _____, 20____, by Walter "Chip" Wilson, as Mayor of the City of
Apache Junction, Arizona, an Arizona municipal corporation.

Notary Public

My Commission Expires:

EXHIBIT A
SCOPE OF WORK

General Scope of Services:

The scopes of work for any on-call projects may include design, specification review, and other miscellaneous services for the following not-to-exceed contract limit service areas listed below per project. A detailed description of each Service Area is provided below.

Service Area 3: Geotechnical Engineering Services

Contract Limit: \$100,000 per project

EXHIBIT B
FEE SCHEDULE



We Make Quality Our Business
 175 S. Hamilton Place
 Bld 6, Ste 114
 Gilbert, AZ 85233
 (480)496-2000, (480)496-2001 FAX
 www.qt-az.com

CITY OF APACHE JUNCTION ENGINEERING ON-CALL SERVICES
COST PROPOSAL

DIRECT LABOR CLASSIFICATIONS

	UNIT		RATE (\$)
001 Registered Geotechnical/Materials Engineer	Hour	\$	230.00
008 Staff Engineer/Project Manager	Hour	\$	168.00
014 Construction Inspector	Hour ⁽¹⁾	\$	125.00
016 Certified Welding Inspector (CWI)	Hour ⁽¹⁾	\$	165.00
017 Special Inspector (ICC)	Hour ⁽¹⁾	\$	125.00
019 Sr. Materials Technician	Hour ⁽¹⁾	\$	88.00
020 Materials Technician	Hour ⁽¹⁾	\$	84.00
023 Administrative Assistant	Hour ⁽¹⁾	\$	72.00
201 Trip Charge	Each	\$	80.00

Note 1: Hourly rates shown above are for Regular hours. If overtime is approved, those hours will be charged as Premium hours at a rate of 1.5 x (Regular Rate). Overtime Premium, when approved, only applies to non-Engineer positions. Overtime is defined as direct labor hours in excess of 40 hrs in a week on the same contract.

CONCRETE AND MASONRY (Laboratory Testing)

301 Compressive Strength, Cylindrical Specimen (ASTM C39, AASHTO T22)	Each	\$	22.00
302 Flexural Beam Testing (ASTM C78, AASHTO T97)	Each	\$	72.00
303 Obtain Concrete Cores (ASTM C42, AASHTO T24)	Each	\$	36.00
304 Trim Concrete Specimen	Each	\$	11.00
305 Masonry Grout Prisms, Compressive Strength (ASTM C1019)	Each	\$	31.00
306 Mortar Cubes, Compressive Strength (ASTM C109)	Each	\$	31.00
307 Mortar Cylinders, Compressive Strength (ASTM C780)	Each	\$	31.00
308 CMU, Net Area/Absorption (ASTM C 140)	Each	\$	68.00
309 CMU, Compressive Strength (ASTM C140)	Each	\$	58.00
310 CMU, Full Set (6 CMU Total)(ASTM C140)	Set	\$	384.00
311 Masonry Prism, Grouted, Compressive Strength (ASTM C1314)	Each	\$	132.00
312 Masonry Prism, Ungouted, Compressive Strength (ASTM C1314, C140)	Each	\$	132.00
313 Shotcrete Panel Core, Compressive Strength (ASTM C42, C39, AASHTO T22, T24)	Each	\$	68.00
314 Concrete Floor Moisture Vapor Emission Rate	Each	\$	42.00
315 Concrete Mix Design	Each		Quote
316 Measuring Length of Drilled Concrete Cores (AASHTO 148)	Each	\$	24.00

SOIL & AGGREGATE (Laboratory Testing)

401 Bulk Density & Voids (ASTM C29, AASHTO T19)	Each	\$	75.00
402 Flakiness Index (ARIZ 233C)	Each	\$	114.00
403 Flat & Elongated Particles in CA (ASTM D4791)	Each	\$	134.00
404 Fractured Particles in CA (Fractured Faces) (ASTM D5821)	Each	\$	116.00
405 Abrasion of Coarse Aggregate (LA) (ASTM C131, AASHTO T96)	Each	\$	270.00
406 Sulfate Soundness of Aggregates (ASTM C88, T104)	Each	\$	384.00
407 Uncompacted Voids of Fine Aggregate (ASTM C1252, AASHTO T304)	Each	\$	112.00
408 Moisture Determination (ASTM C566, D2216, D4944, AASHTO T265, T217)	Each	\$	22.00
409 In-Situ Moisture / Unit Wt. (ring sample) (ASTM D2216, AASHTO T265)	Each	\$	43.00
410 Plasticity Index, Dry Prep (ASTM D4318, AASHTO T89, T90)	Each	\$	120.00
411 Plasticity Index, Wet Prep (ASTM D4318, AASHTO T89, T90)	Each	\$	140.00
412 Proctor, Modified (ASTM D1557, AASHTO T180)	Each	\$	180.00
413 Proctor, Standard (ASTM D698, AASHTO T99)	Each	\$	144.00
414 Proctor, Soil Cement Mixtures (ASTM D558, AASHTO T134)	Each	\$	180.00
415 Sand Equivalent (ASTM D2419, AASHTO T176)	Each	\$	132.00
416 Sieve Analysis (ASTM C136, C117, AASHTO T27, T11)	Each	\$	90.00
417 Specific Gravity/Absorption (Coarse Agg.)(ASTM C127, AASHTO T85)	Each	\$	75.00
418 Specific Gravity/Absorption (Fine Agg.)(ASTM C128, AASHTO T84)	Each	\$	90.00
419 Specific Gravity of Soils (ASTM D854, AASHTO T100)	Each	\$	180.00
420 pH Determination (ASTM D2976, ARIZ 236)	Each	\$	54.00
421 Resistivity Determination (ARIZ 236)	Each	\$	68.00
422 Hydrometer Analysis (ASTM D422, AASHTO T88)	Each	\$	360.00
423 Shrinkage Factor (AASHTO T92)	Each	\$	180.00
424 Expansion Index (ASTM D4829)	Each	\$	180.00
425 One Dimensional Swell/Settlement (ASTM D4546)	Each	\$	180.00



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CITY OF APACHE JUNCTION ENGINEERING ON-CALL SERVICES

COST PROPOSAL

	UNIT	RATE (\$)
<u>SOIL & AGGREGATE (Laboratory Testing)(Continued)</u>		
426 California Bearing Ratio (CBR) (3 points) (ASTM D1883, AASHTO T193)	Each	\$ 720.00
427 Direct Shear Test (per point)(ASTM D3080, AASHTO T236)	Each	\$ 113.00
428 Unconfined Compressive Strength (ASTM D2166, AASHTO T208)	Each	\$ 113.00
429 One Dimensional Consolidation (ASTM D2435, AASHTO T216)	Each	\$ 180.00
430 Remolding Soil Sample (ARIZ 249)	Each	\$ 46.00
431 Field Percolation Test (ASTM D3385)	Each	Quote
432 Clay Lumps & Friable Particles in Aggregates (ASTM C142, AASHTO T112)	Each	\$ 115.00
433 Collapse Potential of Soils (ASTM D5333)	Each	\$ 180.00
434 Lightweight Pieces in Aggregate (ASTM C123, AASHTO T113)	Each	\$ 180.00
435 Triaxial Shear Test (ASTM D7181/4767/2850, AASHTO T297/T296)	Each	Quote
436 Durability Index (ASTM D3744)	Each	Quote
437 Organic Impurities (ASTM C40)	Each	\$ 60.00
438 Compressive Strength of CTB or Soil Cement Specimen (ARIZ 241a)	Each	\$ 113.00
439 Organic Matter (LOI)	Each	\$ 270.00
440 Sulfate & Chloride	Each	\$ 96.00
441 Unit Weight & Voids in Aggregate (ASTM C29, AASHTO T19)	Each	\$ 132.00
<u>ASPHALT MIXTURES (Laboratory Testing)</u>		
501 Core Bulk Specific Gravity/Thickness (ASTM D2726, AASHTO T166)	Each	\$ 24.00
502 Core Bulk Specific Gravity/Thickness (Coated) (ASTM D1188, AASHTO T275)	Each	\$ 46.00
503 Drill AC Cores (up to 8" thickness)	Each	\$ 36.00
504 Ignition Oven - Calibration (per mix) (ASTM D6307, AASHTO T308)	Each	\$ 740.00
505 Ignition Oven - Asphalt Cement Content (ASTM D6307, AASHTO T308)	Each	\$ 150.00
506 Ignition Oven - Gradation (ASTM C136, AASHTO T27)	Each	\$ 90.00
507 Marshall Specimen Bulk Density (ASTM D6926, D2726, AASHTO T245)	Set of 3	\$ 180.00
508 Marshall Stability & Flow (ASTM D6927)	Set of 3	\$ 22.00
509 Maximum Specific Gravity of HMA Mixture (ASTM D2041, T209)	Set of 3	\$ 186.00
510 Gyratory Compaction (ASTM D6925, D2726, AASHTO T312, T166)	Set of 2	\$ 228.00
511 Nuclear Asphalt Content Gauge - Calibration (ASTM D4125, T287)	Each	\$ 900.00
512 Moisture Induced Damage of HMA (TSR) (ASTM D4867, AASHTO T283)	Set of 6	\$ 660.00
513 Asphalt Concrete Mix Design	Each	Quote
514 Quantitative Extraction of Hot Mix Asphalt (HMA)(ASTM D2172, AASHTO T164)	Each	Quote
<u>ASPHALT CEMENT (Laboratory Testing)</u>		
601 PG Verification (AASHTO M320)	Each	\$ 1,176.00
602 PG Classification (AASHTO R29)	Each	\$ 1,440.00
603 Dynamic Shear Rheometer (ASTM D7175, AASHTO T315)	Each	\$ 276.00
604 Dynamic Shear Rheometer, Temp Sweep (ASTM D7175, AASHTO T315)	Each	\$ 360.00
605 Bending Beam Rheometer (ASTM D6648, AASHTO T313)	Each	\$ 360.00
606 Bending Beam Rheometer with RTFO/PAV Aging	Each	\$ 720.00
607 Bending Beam with Physical Hardening (ASTM D6648, AASHTO T313)	Each	\$ 588.00
608 Rotational Viscosity (ASTM D4402, AASHTO T316)	Each	\$ 132.00
609 Rotational Viscosity, (ASTM D2994, ASTM D4878/D5018)	Each	\$ 180.00
610 Rotational Viscosity, Temp Sweep 3 Points (ASTM D4402, AASHTO T316)	Each	\$ 312.00
611 Rotational Viscosity, Temp Sweep 4 Points (ASTM D4402, AASHTO T316)	Each	\$ 360.00
612 Pressure Aging Vessel (ASTM 6521, AASHTO R28)	Each	\$ 276.00
613 Rolling Thin Film Oven (ASTM D2872, AASHTO T240)	Each	\$ 180.00
614 Rolling Thin Film Oven with Mass Loss (ASTM D2872, AASHTO T240)	Each	\$ 228.00
615 Multiple Stress Creep Recovery (MSCR) (ASTM 7405, AASHTO T350)	Each	\$ 540.00
616 Absolute Viscosity (140°F, 60°C) (ASTM D2171, AASHTO T202)	Each	\$ 132.00
617 Kinematic Viscosity (275°F, 135°C or 140°F, 60°C) (ASTM D2170, AASHTO T201)	Each	\$ 180.00
618 Ductility of Bituminous Materials (ASTM D113, AASHTO T51)	Each	\$ 180.00
619 Elastic Recovery (ASTM D6084, AASHTO T301)	Each	\$ 180.00
620 Flash & Fire Point, Cleveland Open Cup, (ASTM D92, AASHTO T48)	Each	\$ 132.00
621 Flash & Fire Point, Cleveland Open Cup, co-polymer product (ASTM D92, AASHTO T48)	Each	\$ 180.00
622 Penetration (@ Temperatures other than 77°F; 25°C) (ASTM D5, AASHTO T49)	Each	\$ 138.00
623 Penetration (@ 77°F; 25°C) (ASTM D5, AASHTO T49)	Each	\$ 132.00
624 Penetration Grade (PG) Asphalt Verification (AASHTO M20)	Each	\$ 900.00
625 Softening Point of Bitumen (Ring & Ball) (ASTM D36, AASHTO T53)	Each	\$ 132.00
626 Specific Gravity of Binder (ASTM D70, AASHTO T228)	Each	\$ 132.00
627 Solubility of Asphalt Materials in Trichloroethylene (ASTM D2042, AASHTO T44)	Each	\$ 228.00
628 Water in Petroleum Products (ASTM D95, AASHTO T55)	Each	\$ 360.00
629 Flash & Fire Point, Tag Open Cup (ASTM D3143, AASHTO T79)	Each	\$ 132.00



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COST PROPOSAL

	UNIT	RATE (\$)
<u>ASPHALT RUBBER (Laboratory Testing)</u>		
650 Brookfield Viscosity (ASTM D2994 or ASTM D5018)	Each	\$ 180.00
651 Brookfield Viscosity Crack Sealant (ASTM D2196)	Each	\$ 228.00
652 Rotational Viscosity (ASTM D4402, AASHTO T316)	Each	\$ 132.00
653 Resilience (ASTM D5329)	Each	\$ 132.00
654 Specific Gravity of Crumb Rubber (ASTM D1817, CT208)	Each	\$ 276.00
655 Bulk Density of Crumb Rubber	Each	\$ 228.00
656 Crumb Rubber Gradation (ASTM C136)	Each	\$ 132.00
657 Haake Viscosity (ASTM D7741)	Each	\$ 132.00
658 Cone Penetration (ASTM D5329, AASHTO T59)	Each	\$ 132.00
<u>EMULSIONS & CUTBACK ASPHALT (Laboratory Testing)</u>		
701 Emulsion Verification, RS-1, RS-2, SS-1, SS-1h (ASTM D977, AASHTO M140)	Each	\$ 1,356.00
702 Emulsion Verification, HFRS-2 (ASTM D977, AASHTO M140)	Each	\$ 1,356.00
703 Emulsion Verification, QS-1H (ASTM D977, AASHTO M140)	Each	\$ 1,260.00
704 Emulsion Verification, CRS-1, CRS-2, CSS-1, CSS-1h (ASTM D2397, M208)	Each	\$ 1,356.00
705 Emulsion Verification, CQS-1h (ASTM D2397, AASHTO M208)	Each	\$ 1,260.00
706 Emulsion Verification, CQS-1h (MAG 713)	Each	\$ 1,356.00
707 Identification of Cationic Slow Setting Emulsion (AASHTO T59)	Each	\$ 180.00
708 Identification of Cationic Slow Setting Emulsion (AASHTO T59, Section 27)	Each	\$ 360.00
709 Emulsified Asphalt/Aggregate Coating (AASHTO T59)	Each	\$ 180.00
710 Residue by Evaporation (ARIZ 512, AASHTO T59)	Each	\$ 132.00
711 Residue by Evaporation (ASTM D2393, CT331)	Each	\$ 228.00
712 Residue by Evaporation, Low Temperature (ASTM D7497)	Each	\$ 360.00
713 Residue and Oil Distillate by Distillation (ASTM D244, AASHTO T59)	Each	\$ 312.00
714 Vacuum Distillation of Emulsion (ARIZ 504)	Each	\$ 276.00
715 Density of Emulsified Asphalt (ASTM D6837, AASHTO T59)	Each	\$ 180.00
716 Low Temperature Distillation (ASTM D244, AASHTO T59)	Each	\$ 378.00
717 Float Test (ASTM D139)	Each	\$ 180.00
718 Distillate Fraction on Cutback (ASTM D402, AASHTO T78)	Each	\$ 408.00
719 Demulsibility (ASTM D244, AASHTO T59)	Each	\$ 180.00
720 Cement Mixing Test (ASTM D6935)	Each	\$ 180.00
721 Coating (SE214) (AASHTO T59)	Each	\$ 96.00
722 High Float Emulsion Verification (ASTM D977, AASHTO M140)	Each	\$ 1,440.00
723 Particle Charge (ASTM D244, AASHTO T59)	Each	\$ 132.00
724 pH Determination (ASTM D1293)	Each	\$ 132.00
725 Saybolt Furol Viscosity (ASTM D88, AASHTO T72)	Each	\$ 180.00
726 Settlement, 5-Day (ASTM D244, AASHTO T59)	Each	\$ 276.00
727 Sieve Test (ASTM D244, AASHTO T59)	Each	\$ 132.00
728 Storage Stability, 1-Day (ASTM D244, AASHTO T59)	Each	\$ 228.00
729 Resistance to Water (ASTM D2939)	Each	\$ 360.00
730 Resistance to Freezing (ASTM D2939)	Each	\$ 228.00
731 Resistance to Heat (ASTM D2939)	Each	\$ 360.00
732 Resistance to Kerosene (ASTM D2939)	Each	\$ 636.00
733 Freezing (ASTM D6929, AASHTO T59)	Each	\$ 228.00
734 Extraction for AC Content (AASHTO T164)	Each	\$ 360.00
735 Abson Recovery (ASTM D1856, D2172, AASHTO T164)	Each	\$ 750.00
736 Wet Track Abrasion, 1-Hour (ASTM D3910/ISSA TB100)	Each	\$ 336.00
737 Wet Track Abrasion, 6-Day (ASTM D3910/ISSA TB100)	Each	\$ 420.00
738 Monolayer Loaded Wheel Test (ISSA TB109)	Each	\$ 306.00
739 Wet Cohesion Test (ISSA TB109)	Each	\$ 66.00
<u>OTHER</u>		
803 Bituminous Distributer Truck Transverse Spread Rate (ARIZ 411)	Each	\$ 1,150.00
820 Steel (Bars) / Tension, Elongation, Strength, Bend Test (ASTM A615, ASTM A706)	Each	\$ 144.00
821 Steel (Strand/Wire/Cable) / Tension, Elongation, Strength (ASTM A416)	Each	\$ 180.00
822 Floor Flatness/Levelness Testing (ASTM E1155)	Sq. Ft.	\$ 0.03