

**ON-CALL INSPECTION, TESTING, DESIGN AND ENVIRONMENTAL
ASSESSMENT AGREEMENT**

THIS AGREEMENT, made between the **CITY AND COUNTY OF DENVER**, a municipal corporation of the State of Colorado, hereinafter referred to as the “City”, and **YEH AND ASSOCIATES, INC.**, a Colorado corporation doing business at 2000 Clay Street, Suite 200, Denver, CO 80211, hereinafter referred to as the “Consultant”.

RECITALS

WHEREAS, the City requires the services of an experienced consultant to perform construction material inspection, testing, design and environmental site assessment services for the City on an “as needed” basis; and

WHEREAS, the Consultant is ready, willing, and able to perform the services as specified in this Agreement;

NOW, THEREFORE, the parties agree as follows:

1. AUTHORITY: The Executive Director of the Department of Public Works (the “Executive Director” or “Manager”) is the official City representative who directs all services under this Agreement. The titles “Executive Director of Public Works” and “Manager of Public Works” are synonymous and may be used interchangeably for purposes of this Agreement. The Executive Director hereby designates the Director of Engineering for the Department of Public Works (the “Director of Engineering”) as the Executive Director’s authorized representative. The Director of Engineering shall direct the services performed under this Agreement, subject to the final authority and decision of the Executive Director. Communication between the Consultant and the City shall be through a Project Manager who will be assigned to each project.

2. PURPOSE AND INTENT: The Consultant shall provide to the City material inspection, testing, design and environmental site assessment services on an as-needed basis as requested by written and executed Task Orders issued pursuant to this Agreement. These services will be in addition to, and not a substitute for, inspections or testing performed by contractors, engineering consultants or design consultants unless otherwise specified in the Task Order. The Consultant shall perform such inspection and testing services in strict accordance with the inspection and testing criteria and specifications established in each Task Order. The range of services, service level and time frame requirements applicable to all Task Orders are

contained in the Scope of Work attached as **Exhibit A**. Consultant's Rates, including hourly rates and rates for specific services are attached as **Exhibit B**. Consultant's Certificate of Insurance is attached as **Exhibit C**.

3. SCOPE OF WORK: The Consultant's services shall consist of the following services as well as those services listed in **Exhibits A and B**:

a. As directed by the City, the Consultant shall perform all inspection and testing necessary to assure the City that the installation and quality of construction materials on City projects are in compliance with construction contract documents.

b. Inspection and testing may be performed on-site or off-site, as appropriate.

c. Inspection and testing services include those tests identified in this Agreement, including services listed in **Exhibits A and B**.

d. The materials required for Consultant's inspection and testing program are to be supplied by City contractors, in quantities necessary to obtain full verification of quality, at no cost to the City or the Consultant.

e. If the Consultant becomes aware that the construction materials inspected or tested do not meet the standards described in the applicable construction documents, or if the Consultant becomes aware of any other circumstances or conditions which would, under the provisions of the applicable construction contract, justify rejection, stoppage or suspension of any part of any project, the Consultant shall immediately notify the project design consultant and the City of such conditions of failure, both verbally and in writing.

f. The Consultant shall have such additional authority as is specifically conferred or reasonably implied in this Agreement or as may be given to it in writing by the Executive Director. Any discrepancy, ambiguity, variance, or inconsistency in the description or scope of the Consultant's duties shall be resolved solely by the Executive Director.

g. In order to accomplish and expeditiously carry out such inspection and testing services for the City, all inspection and testing services of the Consultant shall be scheduled so as to coincide with the phases of applicable construction work in conjunction with the Consultant's work efforts.

h. All final test or analysis reports shall be signed, dated and sealed by Consultant's Professional Engineer in charge of the activity.

i. When directed to provide services under this Agreement, the Consultant shall prepare a proposal containing, at a minimum, the following information:

- (1) A detailed description of the services or work that will be provided including deliverables.
- (2) A listing of any work and/or services that are excluded.
- (3) The maximum fee that will be charged for all services and work.
- (4) A price breakdown identifying the Consultant's fee based upon the Rates in **Exhibit B** and any material and Consultant's cost for services provided by any subcontractors.
- (5) A budget for permissible reimbursable expenses described in paragraph 5(b).
- (6) A schedule identifying any major milestones and the date when all work will be completed.
- (7) A listing of any actual or potential conflicts of interest including work the Consultant is performing or anticipates performing for other entities on the same or interrelated projects.
- (8) Consultant's proposal shall not include any terms or conditions that attempt to modify this Agreement which may only be modified by written amendment.

4. CONFLICT WITH CONSULTANT OR DESIGN CONSULTANT -

NOTICE: The Consultant agrees to perform its services under this Agreement in such a manner and at such times that the City, the project design consultant, and any contractor who has work to perform can do so without unreasonable delay. In the event that a conflict as to scheduling or access arises between the Consultant and any contractor or any project design consultant during the term of this Agreement, which in the opinion of the Consultant prevents it from scheduling or coordinating with the contractor or project design consultant in a timely manner to meet the City's needs hereunder, the Consultant shall verbally inform the City of such dispute within two (2) hours, and confirm such dispute in writing within eight (8) hours from the point in time such conflict becomes apparent. Upon receipt of such notice, the City, through the Director or his representative, shall attempt to resolve such dispute and communicate a decision regarding such dispute, in writing, to any contractor, any project design consultant, and the Consultant.

5. **COMPENSATION**: The Consultant shall provide professional services for various projects, on an as needed basis, in accordance with the terms and conditions of this Agreement and each Task Order. The City shall compensate the Consultant in accordance with the terms and conditions of this Agreement as set out below:

a. **Basic Services**: The City agrees to pay the Consultant, as compensation for any basic services rendered hereunder, either a maximum basic services fee, set forth in an approved Task Order executed by the City prior to commencement of any work, or an amount based on the Consultant's periodic invoices, whichever is less.

b. **Reimbursable Expenses**: All expenses, including but not limited to mileage, copying, reproduction, telephone, postage, and messenger services, are included in the Consultant's hourly rates and test rates set forth in **Exhibit B**. Consultant is not entitled to any additional compensation for expenses unless the City approves the expense in writing in advance of the expense being incurred. Consultant will itemize any expenses not included in the rates established by **Exhibit B** in any proposal to perform services pursuant to this Agreement. Any proposal identifying additional expenses shall contain a statement of the maximum amount of reimbursable expenses, if any, for which the Consultant will seek reimbursement on any individual project.

c. **Surveying**: The Consultant shall be reimbursed for surveying costs it incurs, subject to the terms and conditions set forth herein and any surveying budget for an individual project.

d. **Special Services**: Subject to prior approval of such costs by the Executive Director, the Consultant shall be paid its actual costs for special supplies or services and when applicable for Consultant's actual time spent overseeing work not contemplated by **Exhibit A**.

e. **Invoices**: The Consultant shall invoice and be paid monthly for each assigned project. All invoices shall reflect the Consultant's actual hours, subconsultant costs and reimbursable costs, if any, and be based on the hourly rates or test billing rates for services contained in **Exhibit B**. The Consultant shall maintain hourly records of the time worked by its personnel and subconsultants, records of all claimed reimbursable expenses, and records of expendable supplies and services as necessary to support any audits by the City. The Consultant shall bill the City monthly for fees and costs accrued during the preceding month. The Consultant's invoice shall be separated as necessary to show direct charges to individual projects

assigned and to distinguish fees and expenses. Upon submission of such invoices to the City, and approval by the City, payment shall issue. Final payment to the Consultant, for each assigned project, shall not be made until after the work is accepted, all guarantees, certificates of completion and the duties agreed to in the scope of work for the individual project are otherwise fully performed by the Consultant. No deductions shall be made from the Consultant's compensation on account of penalty, liquidated damages or other sums withheld from payments to any assigned project contractor.

f. Maximum Contract Amount: It is understood and agreed by the parties hereto that payment or reimbursement of all kinds to the Consultant, for all work performed under this Agreement, shall not exceed a maximum of **One Million Five Hundred Thousand Dollars and Zero Cents (\$1,500,000.00)**.

g. Funding: Notwithstanding any other term, provision, or condition herein, all payment obligations under this Agreement shall be limited to the funds appropriated or otherwise made available by the Denver City Council for the particular projects assigned to the Consultant under this Agreement for the particular year(s) in which this Agreement is in effect.

As of the date of this Agreement, no funds have actually been appropriated for this Agreement. Instead, it is the City's intent to appropriate the funds necessary to compensate the Consultant for the work it performs on any specific project, at the time it appropriates funds for such specific project.

The Executive Director of Public Works, upon reasonable written request, will advise the Consultant in writing of the total amount of appropriated and encumbered funds which are or remain available for payment for all work by the Consultant on a specific project. The issuance of any form of order or directive by the City which would cause the aggregate amount payable to the Consultant for an assigned project to exceed the amount appropriated for the Consultant's work on that project is expressly prohibited.

In no event shall the issuance of any change order or other form of order or directive by the City be considered valid or binding if it requires additional compensable work to be performed, which work will cause the aggregate amount payable for such work to exceed the amount appropriated and encumbered, unless and until such time as the Consultant has been advised in writing by the Executive Director of Public Works that a lawful appropriation sufficient to cover the entire cost of such additional work has been made.

It shall be the responsibility of the Consultant to verify that the amounts already appropriated for the Consultant's work on a specific project are sufficient to cover the entire costs of such work, and any work undertaken or performed in excess of the amount appropriated is undertaken or performed in violation of the terms of this contract, without the proper authorization for such work, and at the Consultant's own risk.

6. CITY'S RESPONSIBILITY:

a. The City shall provide available information regarding its requirements for any project, including related budgetary information, and shall cooperate with Consultant. However, the City does not guarantee the accuracy of any such information and assumes no liability therefore. The Consultant shall notify City in writing of any information or requirements provided by City which Consultant believes to be inaccurate or inappropriate for the services hereunder.

b. The City shall furnish the Consultant, without charge, copies of any project drawings and specifications reasonably necessary, in the Executive Director's opinion, for the execution of inspection and testing requested.

7. PERSONNEL ASSIGNMENTS:

a. All key professional personnel will be assigned by the Consultant or its subconsultants to perform work under this Agreement.

b. In the event the Consultant does not have as part of its regular staff and services certain professional consultants and consulting services which may be required for performance of the services required under this Agreement, then such consulting services shall be performed by practicing professional consultants outside of the employ of the Consultant. All professional consultants must be previously approved by the Executive Director and shall be retained for the life of this Agreement; provided, however, that acceptable replacements may be substituted with prior approval in writing by the City.

c. Prior to designating an outside professional consultant to perform any services, the Consultant shall submit the outside consultant's name, together with a resume of training and experience in work of like character and magnitude of any Project herein contemplated, to the City's Executive Director of Public Works and receive approval in writing therefrom.

d. If, during the term of this Agreement, the Executive Director determines that the performance of approved personnel is not acceptable, he shall notify Consultant and give Consultant the time which the Executive Director considers reasonable to correct such performance. Thereafter, he may require the Consultant to reassign or replace such personnel. If the Executive Director notifies the Consultant that certain of its personnel should be replaced, Consultant will use its best efforts to replace such personnel within ten (10) days from the date of the Executive Director's notice.

e. The Consultant shall not retain any subconsultant to perform work under this Agreement if the Consultant is aware, after a reasonable written inquiry has been made, that it is connected with the sale or promotion of equipment or material which is or may be used on any City project, or any other conflict of interest exists.

f. Neither the Consultant nor any subconsultant engaged shall have other interests which conflict with the interests of the City, such as being connected with the sale or promotion of equipment or material, which may be used on any City project. In unusual circumstances and with full disclosure to the City, the City in its sole discretion may grant a written waiver for the particular consultant or subconsultant.

g. Actions taken by the City under this Article 7 shall not relieve the Consultant of its responsibility for deficiencies, errors, or omissions in the work performed hereunder and no approval rights of the City herein shall in any respect be deemed to establish any control or privity of contract relationship between the City and such subconsultants, nor deemed to usurp any control of or responsibility for the actions of the subconsultants by the Consultant, who shall remain fully responsible for the actions of its subconsultants.

8. **PROFESSIONAL RESPONSIBILITY:** All of the work performed by the Consultant under this Agreement shall be performed in accordance with the standards of care, skill and diligence provided by competent professionals who perform work of a similar nature to the work described in this Agreement.

9. **CONSULTANT'S COOPERATION:** The Consultant agrees to perform its services under this Agreement in such a manner and at such times that the City or any consultant who has work to perform, or contracts to execute, can do so without unreasonable delay.

10. **OWNERSHIP OF DOCUMENTS:**

a. All reports, tests, analysis, notes, specifications or other documents prepared by the Consultant under this Agreement shall become the property of the City. The Consultant also agrees to allow the City to review any of the procedures used in performing the work hereunder and to make available for inspection field notes and other documents used in the preparation for and performance of any of the services required hereunder.

b. The City shall have unlimited rights in the ownership of all documents, notes and other work developed in the performance of this Agreement, including the right to use the same on any other City projects without additional cost to City, and with respect thereto the Consultant agrees to and does hereby grant to City an exclusive royalty-free license to all data which the Consultant may cover by copyright and to all designs as to which the Consultant may assert any rights or establish any claim under the patent or copyright laws or any other applicable laws.

c. In the case of future reuse of the documents, the City reserves the right to negotiate with the Consultant for the acceptance of any professional liability.

d. In the event City does not exercise the option to negotiate with Consultant for the Consultant's acceptance of any professional liability, or in the event such negotiations are unsuccessful, it is understood that the Consultant's name and seal shall be removed from the reproduced documents as utilized and that the Consultant will not be liable to City or third parties for the reuse of those documents.

11. TERM: The term of this Agreement shall commence as of the date of execution and shall end three years (3) years from that date, unless sooner terminated or extended by written amendment

12. TERMINATION:

a. Nothing herein shall be construed as giving the Consultant the right to perform the services contemplated under this Agreement beyond the time when its services become unsatisfactory to the Executive Director.

b. The Executive Director may terminate this Agreement for cause at any time if the Consultant's services become unsatisfactory to him. The City shall have the sole discretion to permit the Consultant to remedy the cause of a contemplated termination for cause without waiving the City's right to terminate the Agreement.

c. In the event of a termination for cause, or in the event the Consultant becomes unable to serve under this Agreement, the City may take over work to be done under this Agreement and prosecute the work to the completion by contract or otherwise, and the Consultant shall be liable to City for all reasonable cost in excess of what the City would have paid the Consultant had there been no termination for cause.

d. The City may, for its convenience, cancel and terminate this Agreement by giving not less than thirty (30) days prior written notice to the Consultant, which notice shall state the date of cancellation and termination.

e. If the Consultant's services are terminated, postponed or revised, or if the Consultant shall be discharged before all the work contemplated has been completed, or if work for any reason shall be stopped or discontinued, the Consultant shall be paid only for the portion of work which has been satisfactorily completed at the time of such dismissal, termination, postponement, revision or stoppage.

f. All documents relating to the administration of work completed or partially completed shall be delivered by the Consultant to the City within fourteen (14) days of any termination.

g. The indemnity and insurance provisions of this Agreement shall survive termination.

13. EXAMINATION OF RECORDS: The consultant agrees that any duly authorized representative of the City, including the City Auditor or his representative, shall, until the expiration of three (3) years after the final payment under this Agreement, have access to and the right to examine, any directly pertinent books, documents, papers, and records of the Consultant, involving transactions related to this Agreement.

14. NO DISCRIMINATION IN EMPLOYMENT: In connection with the performance of work under this Agreement, the Consultant agrees not to refuse to hire, discharge, promote or demote, or to discriminate in matters of compensation against any person otherwise qualified, solely because of race, color, religion, national origin, gender, age, military status, sexual orientation, gender identity, gender expression, marital status, or physical or mental disability. The Consultant agrees to insert the foregoing provision in all subcontracts.

15. NOTICES: Notices under this Agreement shall be made by the Consultant to: Executive Director of Public Works, Wellington E. Webb Building, 201 West Colfax Avenue,

Dept 608, Denver, Colorado 80202, and by the City to: City Attorney's Office, 1437 Bannock Street, Room 353, Denver, Colorado 80202. Said notice(s) shall be delivered personally during normal business hours to the appropriate office, above, or by prepaid U.S. Certified Mail, return receipt requested. Mailed notice shall be deemed effective upon deposit with the U.S. Postal Service. The parties may from time to time designate substitute addresses or persons where and to whom such notices are to be mailed or delivered but such substitutions shall not be effective until actual receipt of written notification.

16. INSURANCE:

a. General Conditions: Consultant agrees to secure, at or before the time of execution of this Agreement, the following insurance covering all operations, goods or services provided pursuant to this Agreement. Consultant shall keep the required insurance coverage in force at all times during the term of the Agreement, or any extension thereof, during any warranty period, and for five (5) years after termination of the Agreement. The required insurance shall be underwritten by an insurer licensed or authorized to do business in Colorado and rated by A.M. Best Company as "A-"VIII or better. Each policy shall contain a valid provision or endorsement requiring notification to the City in the event any of the required policies be canceled or non-renewed before the expiration date thereof. Such written notice shall be sent to the parties identified in the Notices section of this Agreement. Such notice shall reference the City contract number listed on the signature page of this Agreement. Said notice shall be sent thirty (30) days prior to such cancellation or non-renewal unless due to non-payment of premiums for which notice shall be sent ten (10) days prior. If such written notice is unavailable from the insurer, Consultant shall provide written notice of cancellation, non-renewal and any reduction in coverage to the parties identified in the Notices section by certified mail, return receipt requested within three (3) business days of such notice by its insurer(s) and referencing the City's contract number. If any policy is in excess of a deductible or self-insured retention, the City must be notified by the Consultant. Consultant shall be responsible for the payment of any deductible or self-insured retention. The insurance coverages specified in this Agreement are the minimum requirements, and these requirements do not lessen or limit the liability of the Consultant. The Consultant shall maintain, at its own expense, any additional kinds or amounts of insurance that it may deem necessary to cover its obligations and liabilities under this Agreement.

b. Proof of Insurance: Consultant shall provide a copy of this Agreement to its insurance agent or broker. Consultant may not commence services or work relating to the Agreement prior to placement of coverages required under this Agreement. Consultant certifies that the certificate of insurance attached as **Exhibit C**, preferably an ACORD certificate, complies with all insurance requirements of this Agreement. The City requests that the City's contract number be referenced on the Certificate. The City's acceptance of a certificate of insurance or other proof of insurance that does not comply with all insurance requirements set forth in this Agreement shall not act as a waiver of Consultant's breach of this Agreement or of any of the City's rights or remedies under this Agreement. The City's Risk Management Office may require additional proof of insurance, including but not limited to policies and endorsements.

c. Additional Insureds: For Commercial General Liability, Auto Liability and Excess Liability/Umbrella (if required), Consultant and Subconsultant's insurer(s) shall include the City and County of Denver, its elected and appointed officials, employees and volunteers as additional insured.

d. Waiver of Subrogation: For all coverages required under this Agreement, Consultant's insurer shall waive subrogation rights against the City.

e. Subcontractors and Subconsultants: All subcontractors and subconsultants (including independent contractors, suppliers or other entities providing goods or services required by this Agreement) shall be subject to all of the requirements herein and shall procure and maintain the same coverages required of the Consultant. Consultant shall include all such subcontractors as additional insured under its policies (with the exception of Workers' Compensation) or shall ensure that all such subcontractors and subconsultants maintain the required coverages. Consultant agrees to provide proof of insurance for all such subcontractors and subconsultants upon request by the City.

f. Workers' Compensation/Employer's Liability Insurance: Consultant shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits of \$100,000 per occurrence for each bodily injury claim, \$100,000 per occurrence for each bodily injury caused by disease claim, and \$500,000 aggregate for all bodily injuries caused by disease claims. Consultant expressly represents to the City, as a material representation upon which the City is relying in entering into this Agreement,

that none of the Consultant's officers or employees who may be eligible under any statute or law to reject Workers' Compensation Insurance shall affect such rejection during any part of the term of this Agreement, and that any such rejections previously effected, have been revoked as of the date Consultant executes this Agreement.

g. Commercial General Liability: Consultant shall maintain a Commercial General Liability insurance policy with limits of \$1,000,000 for each occurrence, \$1,000,000 for each personal and advertising injury claim, \$2,000,000 products and completed operations aggregate, and \$2,000,000 policy aggregate.

h. Business Automobile Liability: Consultant shall maintain Business Automobile Liability with limits of \$1,000,000 combined single limit applicable to all owned, hired and non-owned vehicles used in performing services under this Agreement

i. Professional Liability (Errors & Omissions): Consultant shall maintain limits of \$1,000,000 per claim and \$1,000,000 policy aggregate limit. Policy shall include a severability of interest or separation of insured provision (no insured vs. insured exclusion) and a provision that coverage is primary and non-contributory with any other coverage or self-insurance maintained by the City.

j. Additional Provisions:

(1) For Commercial General Liability, the policy must provide the following:

- (a) That this Agreement is an Insured Contract under the policy;
- (b) Defense costs in excess of policy limits;
- (c) A severability of interests, separation of insureds or cross liability provision; and
- (d) A provision that coverage is primary and non-contributory with other coverage or self-insurance maintained by the City.

(2) For claims-made coverage:

- (a) The retroactive date must be on or before the contract date or the first date when any goods or services were provided to the City, whichever is earlier.

(3) Consultant shall advise the City in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own

expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Consultant will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.

17. DEFENSE & INDEMNIFICATION:

a. To the fullest extent permitted by law, the Consultant agrees to defend, indemnify, reimburse and hold harmless City, its appointed and elected officials, agents and employees for, from and against all liabilities, claims, judgments, suits or demands for damages to persons or property arising out of, resulting from, or related to the work performed under this Agreement that are attributable to the negligence or fault of the Consultant or the Consultant's agents, representatives, subcontractors, or suppliers ("Claims"). This indemnity shall be interpreted in the broadest possible manner consistent with the applicable law to indemnify the City.

b. Consultant's obligation to defend and indemnify may be determined after Consultant's liability or fault has been determined by adjudication, alternative dispute resolution, or otherwise resolved by mutual agreement between the parties. Consultant's duty to defend and indemnify City shall relate back to the time written notice of the Claim is first provided to City regardless of whether suit has been filed and even if Consultant is not named as a Defendant.

c. Consultant will defend any and all Claims which may be brought or threatened against City and will pay on behalf of City any expenses incurred by reason of such Claims including, but not limited to, court costs and attorney fees incurred in defending and investigating such Claims or seeking to enforce this indemnity obligation. Such payments on behalf of City shall be in addition to any other legal remedies available to City and shall not be considered City's exclusive remedy.

d. Insurance coverage requirements specified in this Agreement shall in no way lessen or limit the liability of the Consultant under the terms of this indemnification obligation. The Consultant shall obtain, at its own expense, any additional insurance that it deems necessary for the City's protection.

e. This defense and indemnification obligation shall survive the expiration or termination of this Agreement.

18. STATUS OF CONSULTANT: It is understood and agreed that the status of the Consultant shall be that of an independent contractor retained on a contractual basis to perform professional or technical services for limited periods of time as described in Section C5.23-3 of

the Charter of the City and it is not intended, nor shall it be construed, that the Consultant, or any member of its staff or any consultant, is an employee, officer or agent of the City under Chapter 18 of the Denver Revised Municipal Code for any purpose whatsoever.

19. ASSIGNMENT OR SUBCONTRACTING: The Consultant agrees not to assign, pledge, transfer, or subcontract its duties and rights in this Agreement, in whole or in part, without first obtaining the written consent of the Executive Director. Any attempt by the Consultant to assign, transfer, or subcontract its rights hereunder without such prior written consent of the Executive Director shall at the option of the Executive Director automatically terminate this Contract and all rights of the Consultant hereunder. Such consent may be granted or denied at the sole and absolute discretion of said Executive Director.

20. NO WAIVER OF RIGHTS: No assent, expressed or implied, by the City to any breach of any one or more of the covenants, provisions and agreements of the Agreement by the Consultant shall be deemed or taken to be a waiver by the City of any succeeding or other breach by the Consultant.

21. TAXES AND LICENSES: The Consultant shall promptly pay, when they are due, all taxes, excises, license fees and permit fees of whatever nature applicable to the work and services which it performs under this Agreement, and shall take out and keep current all required municipal, county, state or federal licenses required to perform its services under this Agreement. The Consultant shall furnish the Executive Director, upon request, duplicate receipts or other satisfactory evidence showing or certifying to the proper payment of all required licenses and/or registrations and taxes. The Consultant shall promptly pay all owed bills, debts and obligations it incurs performing work under this Agreement and shall not allow any lien, verified claim, mortgage, judgment or execution to be filed against land, facilities or improvements owned or beneficially owned by the City as a result of such bills, debts or obligations.

22. COMPLIANCE WITH ALL LAWS AND REGULATIONS: Notwithstanding any other term, provision, or condition herein, the Consultant agrees that all of its services hereunder shall be in compliance with all applicable laws, rules and regulations of the United States and the State of Colorado, and the Charter, ordinances, regulations and executive orders of the City and County of Denver.

23. SUPPLEMENTARY DOCUMENTS: The following documents, certain of which are attached hereto, are incorporated herein and made a part of this Contract:

- a. Exhibit A, Scope of Work.
- b. Exhibit B, Consultant's Hourly Rates and Testing Billing Rates.
- c. Exhibit C, Certificate of Insurance.

The terms and conditions of this Agreement shall control over any contradictory or inconsistent terms and conditions that may be found or contained in the above referenced Exhibits. The order of precedence between Exhibits A, B and C, in descending order of precedence, shall be A, B and C.

24. RIGHTS AND REMEDIES NOT WAIVED: Payment by the City shall not constitute a waiver of any breach of covenant or default which may then exist on the part of the Consultant. No assent, expressed or implied, to any breach of the Agreement shall be held to be a waiver of any later or other breach.

25. SUBJECT TO LOCAL LAWS, JURISDICTION, VENUE: Each and every term, provision or condition in this Agreement is subject to and shall be construed in accordance with the provisions of Colorado law, any applicable federal law, the Charter of the City and County of Denver and the ordinances, regulations and Executive Orders enacted and/or promulgated pursuant thereto. Such applicable law, together with the Charter, Revised Municipal Code, regulations, and Executive Orders of the City and County of Denver, as the same may be amended from time to time, are hereby expressly incorporated into this Agreement as if fully set forth herein by this reference. Venue for any action or proceeding arising out of, or relating in any way to this Agreement, or the breach thereof, shall be in the City and County of Denver, Colorado.

26. USE, POSSESSION OR SALE OF ALCOHOL OR DRUGS: The Consultant, its officers, agents and employees shall cooperate and comply with the provisions of Executive Order 94 and Attachment A thereto concerning the use, possession or sale of alcohol or drugs. Violation of these provisions or refusal to cooperate with implementation of the policy can result in the City barring the Consultant from City facilities or participating in City operations.

27. SURVIVAL OF CERTAIN CONTRACT PROVISIONS: Unless for terminated convenience, all terms and conditions of this Agreement, together with the exhibits and attachments hereto, which, by reasonable implication, contemplate continued performance or compliance beyond the termination of this Agreement (by expiration of the term or otherwise), shall survive such termination and shall continue to be enforceable as provided herein. Without

limiting the general applicability of the foregoing, the Consultant's obligations for the provision of insurance and to indemnify the City shall survive for a period equal to any and all relevant statutes of limitation, plus the time necessary to fully resolve any claims, matters, or actions begun within that period.

28. COMPLIANCE WITH M/WBE REQUIREMENTS:

a. This Contract is subject to all applicable provisions of Divisions 1 and 3 of Article III, of Chapter 28, Denver Revised Municipal Code (D.R.M.C.), designated as Sections 28-31 to 29-36 and 28-52 to 28-90 D.R.M.C. and referred to in this Contract as the "M/WBE Ordinance". Without limiting the general applicability of the foregoing, the Consultant acknowledges its continuing duty, pursuant to Sections 28-72, 28-73 and 28-75 of the D.R.M.C., to maintain throughout the duration of this Contract, compliance with the level of minority and Woman business enterprise participation, upon which the City approved the award of this Contract to the Consultant and the Consultant further acknowledges that failure to maintain such participation commitments or otherwise comply with the requirements of the M/WBE Ordinance shall subject the Consultant to sanctions in accordance with Section 28-77 of the D.R.M.C. Nothing contained in this provision or in the M/WBE Ordinance shall negate the City's right to prior approval of subcontractors, or substitutes therefore, under this Contract. The Consultant identified in its Proposal MBE and/or WBE firms with which it intends to subcontract under this Agreement, with a total participation level by such firms of 20%.

b. Under § 28-72 D.R.M.C., the Consultant has an ongoing, affirmative obligation to maintain for the duration of this Agreement, at a minimum, compliance with the participation level identified in Paragraph 28(a) above, unless the City initiates a material alteration to the scope of work affecting MBEs or WBEs performing on this Agreement through contract amendment, or as otherwise described in § 28-73 D.R.M.C. The Consultant acknowledges that:

- (1)** It must establish and maintain records and submit regular reports, as required, which will allow the City to assess progress in achieving the M/WBE participation goal.
- (2)** If contract modifications are issued Under the Agreement, the Consultant shall have a continuing obligation to immediately inform

DSBO in writing of any agreed upon increase or decrease in the scope of work of such contract, upon any of the bases discussed in § 28-73, D.R.M.C., regardless of whether such increase or decrease in scope of work has been reduced to writing at the time of notification.

(3) If contract modifications are issued, that include an increase in scope of work of this Agreement, or that increases the dollar value of the contract, whether or not such change is within the scope of work designated for performance by an M/WBE at the time of contract award, such contract modification shall be immediately submitted to DSBO for notification purposes. Those contract modifications that involve a changed scope of work that cannot be performed by existing project subconsultants or by the Consultant shall be subject to a goal for M/WBEs equal to the original goal on the contract which was included in the proposal. The Consultant shall satisfy such goal with respect to such changed scope of work by soliciting new M/WBEs in accordance with § 28-73, D.R.M.C., as applicable, or the Consultant must show each element of modified good faith set out in § 28-75(c) D.R.M.C. The Consultant shall supply to the director the documentation described in § 28-75-(c) D.R.M.C. with respect to the increased dollar value of the contract.

(4) Failure to comply with these provisions may subject the Consultant to sanctions set forth in the M/WBE Ordinance. Should any questions arise regarding specific circumstances, the Consultant must consult the M/WBE Ordinance or contact the Project's designated DSBO representative at (720) 913-1999.

29. NO EMPLOYMENT OF ILLEGAL ALIENS TO PERFORM WORK UNDER THE AGREEMENT:

a. This Agreement is subject to Division 5 of Article IV of Chapter 20 of the Denver Revised Municipal Code, and any amendments (the "Certification Ordinance").

b. The Consultant certifies that:

(1) At the time of its execution of this Agreement, it does not knowingly employ or contract with an illegal alien who will perform work under this Agreement.

(2) It will participate in the E-Verify Program, as defined in § 8-17.5-101(3.7), C.R.S., to confirm the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement.

c. The Consultant also agrees and represents that:

(1) It shall not knowingly employ or contract with an illegal alien to perform work under the Agreement.

(2) It shall not enter into a contract with a subconsultant or subcontractor that fails to certify to the Consultant that it shall not knowingly employ or contract with an illegal alien to perform work under the Agreement.

(3) It has confirmed the employment eligibility of all employees who are newly hired for employment to perform work under this Agreement, through participation in the E-Verify Program.

(4) It is prohibited from using the E-Verify Program procedures to undertake pre-employment screening of job applicants while performing its obligations under the Agreement, and that otherwise requires the Consultant to comply with any and all federal requirements related to use of the E-Verify Program including, by way of example, all program requirements related to employee notification and preservation of employee rights.

(5) If it obtains actual knowledge that a subconsultant or subcontractor performing work under the Agreement knowingly employs or contracts with an illegal alien, it will notify such subconsultant or subcontractor and the City within three (3) days. The Consultant will also then terminate such subconsultant or subcontractor if within three (3) days after such notice the subconsultant or subcontractor does not stop employing or contracting with the illegal alien, unless during such three-

day period the subconsultant or subcontractor provides information to establish that the subconsultant or subcontractor has not knowingly employed or contracted with an illegal alien.

(6) It will comply with any reasonable request made in the course of an investigation by the Colorado Department of Labor and Employment under authority of § 8-17.5-102(5), C.R.S, or the City Auditor, under authority of D.R.M.C. 20-90.3.

d. The Consultant is liable for any violations as provided in the Certification Ordinance. If Consultant violates any provision of this section or the Certification Ordinance, the City may terminate this Agreement for a breach of the Agreement. If the Agreement is so terminated, the Consultant shall be liable for actual and consequential damages to the City. Any such termination of a contract due to a violation of this section or the Certification Ordinance may also, at the discretion of the City, constitute grounds for disqualifying Consultant from submitting bids or proposals for future contracts with the City.

30. CONFLICTS OF INTEREST:

a. The Consultant has a continuing duty to disclose, in writing, any actual or potential conflicts of interest including work the Consultant is performing or anticipates performing for other entities on the same or interrelated projects. In the event that Consultant fails to disclose in writing actual or potential conflicts, the Executive Director, in his sole discretion, may terminate the applicable task order or the Agreement.

b. The Consultant agrees that no official, officer or employee of the City shall have any personal or beneficial interest whatsoever in the services or property described herein and the Consultant further agrees not to hire or contract for services any official, officer, or employee of the City or any other person which would be in violation of the Denver Revised Municipal Code Chapter 2, Article IV, Code of Ethics, or Denver City Charter provisions C5.13 and C5.14.

31. TIME IS OF THE ESSENCE: The parties agree that in the performance of terms, conditions, and requirements of this Agreement by the Consultant, time is of the essence.

32. TAXES, CHARGES AND PENALTIES: The City shall not be liable for the payment of taxes, late charges or penalties of any nature.

33. NO THIRD PARTY BENEFICIARY: It is expressly understood and agreed that enforcement of the terms and conditions of this Agreement, and all rights of action relating to such enforcement, shall be strictly reserved to the City and the Consultant, and nothing contained in this Agreement shall give or allow any such claim or right of action by any other or third person on such Agreement. It is the express intention of the City and the Consultant that any person other than the City or the Consultant receiving services or benefits under this Agreement shall be deemed to be an incidental beneficiary only.

34. PARAGRAPH HEADINGS: The captions and headings set forth herein are for convenience of reference only, and shall not be construed so as to define or limit the terms and provisions hereof.

35. SEVERABILITY: If any provision, term, or part of this Agreement, except for the provisions of this Agreement requiring prior appropriation and limiting the total amount to be paid by the City, is held to be invalid, illegal, unenforceable, or in conflict with any law of the State of Colorado, the validity, legality, and enforceability of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term or provision held to be invalid.

36. DISPUTES: Disputes regarding this Agreement shall be resolved by administrative hearing pursuant to Denver Revised Municipal Code 56-106.

37. INTEGRATION OF ENTIRE AGREEMENT: The parties acknowledge and agree that the provisions contained herein constitute the entire agreement and that all representations made by any officer, agent or employee of the respective parties unless included herein are null and void and of no effect. No alterations, amendments, changes or modification, shall be valid unless executed by an instrument in writing by all the parties with the same formality as this Agreement. This Agreement shall be binding upon the parties and their successors in interest.

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Contract Control Number:

IN WITNESS WHEREOF, the parties have set their hands and affixed their seals at Denver, Colorado as of

SEAL

CITY AND COUNTY OF DENVER

ATTEST:

By _____

APPROVED AS TO FORM:

REGISTERED AND COUNTERSIGNED:

By _____

By _____

By _____



Exhibit A
Scope of Work

EXHIBIT A – SCOPE OF WORK

GENERAL SCOPE OF WORK OVERVIEW

Through the On-Call Contract/Task Order process, the Consultant will perform various requested Inspection, Materials Testing and Environmental Services to support Capital Projects Management (CPM) – Facilities, CPM – Transportation, CPM – Wastewater and other City Agencies as necessary. These services will include, but are not limited to: Construction Inspection; Geotechnical Engineering investigation, testing and design reports; Foundation Design reports (cast-in-place concrete caissons, footings, piers, walls, columns, abutments, etc.); Pavement Design reports (subgrade, asphalt, concrete); Environmental Inspection; Certified Asbestos Inspector (CABI); Materials Inspection (soils; cast-in-place concrete, precast concrete (plant cast and site cast); asphaltic concrete; wood and timber; masonry and grout; structural steel, miscellaneous metals and erection; fireproofing; plumbing; piping; mechanical; electrical; exterior building wall systems; other general building components both vertical and horizontal as required; structural integrity or capacity analysis; clerical support; environmental assessment; preparation of Materials Management Plans.

WORK DESCRIPTION FOR SERVICES

Design Services

1. Subsurface soils borings and analysis
2. Geotechnical engineering design for foundations or soil related parameters
3. Pavement Designs addressing traffic, subgrade, asphalt, concrete
4. Vehicle classification for pavement design
5. Non-destructive testing (and/or destructive testing as required, i.e. coring) and analysis of pavements for evaluation of design parameters
6. Plan Review and Constructability analysis (occasional)
7. Review of design plans for compliance with City and County of Denver Building Code / ADA Compliance (occasional).
8. Roof design and specifications services for existing Denver owned buildings.
9. Non-destructive testing (or destructive testing as required, i.e. coring) of existing bridge, culvert and retaining wall structures to determine material properties, reinforcement information (ex. using GPR, X-ray), etc.
10. Non-standard Material Review – special backfill or bedding

Construction Services

1. Inspect and verify bearing strata support and design assumptions for foundations; footings, drilled caissons, driven piles.
2. Test and assess soil subgrade preparation and construction for structure backfill, trenches, embankments, and roads; chemical or mechanical stabilization, moisture/compaction and proof-roll. Inspection services may be required.
3. Inspect and/or Test soils, bedding, asphalt, concrete, concrete reinforcing, masonry, timber, steel, welds, structural connections, sewer pipes, cast-in-place-pipes or boxes; Cured-In-Place Pipes, manholes, junctions, drainage structures, or waterproofing. These services typically will be performed before and during placement, and may occur after placement. Testing of pipes and manholes may include pressure test to verify joints and/or video inspection of runs of pipe/boxes.
4. Inspect and/or test water quality media, filter fabric, or geo-fabrics.
5. Inspection observation services may also be required separately from Testing Services.
6. Inspect and/or test fireproofing, piping, mechanical and electrical systems.
7. Forensic testing and analysis on any materials or methods associated with the above mentioned or other construction materials. This may also be needed for rapid analysis of the structural integrity for any damaged or existing structure.
8. Non-destructive testing and analysis of pavements for structural capacity or smoothness (occasional). Also perform supporting destructive testing.
9. Non-destructive testing, analysis, and reporting of welded connections on traffic signal poles.
10. Inspection of traffic signal installations including underground conduit, pull boxes, foundations, and poles and arms.
11. Usually will perform Quality Assurance or Acceptance role in conjunction with City Personal or Project Managers. May provide Independent Assurance Testing role on other projects
12. Inspect Roof Systems or Exterior Insulation Finished Systems for quality control, testing and City of Denver building code compliance.
13. Perform CDOT required ID/IQ Testing for Federally Funded projects.
14. Fill out CDOT required documentation (such as the form 250) on Federally Funded Projects.
15. Create a testing plan to comply with CDOT/FHWA/FTA project requirements.
16. Sampling and testing for lead based paint and asbestos (non-soil) as required

Clerical Support

1. Database development and file maintenance services.
2. Data reporting and report preparation
3. Clerical and data support

Environmental Services

Anticipated Environmental Services include but are not limited to conducting surface and subsurface (UST) including UST removal (as required) Environmental Site Assessments (ESAs) of future construction sites and preparation of project-specific Material Management Plans (MMPs). The Public Works Project Manager will be responsible for ensuring the requested Environmental Service is coordinated with and delivered to the Denver Department of Environmental Health, Division of Environmental Quality (DEQ) Project Manager.

1. Environmental Site Assessments (ESAs)

The Environmental Consultant shall provide an experienced and qualified team to perform invasive assessments to determine environmental conditions that could impact project design, project budget, demolition, excavation, construction, and dewatering processes of a project site(s). Consultant could be required to investigate City-owned or managed sites contaminated by material or substances regulated under Resource Conservation and Recovery Act (RCRA), the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or other regulations. Requested attributes of a limited environmental subsurface investigation follow.

The Environmental Consultant shall perform environmental investigation and assessment of proposed project sites. Samples of water, soil, fill materials, gases, wastes, debris, and construction materials shall be collected and analyzed for their characteristics and contaminants of potential concern in conformity with Environmental Protection Agency (EPA)-approved methodology. Groundwater sampling shall be performed as requested by regulatory agencies or in general accordance with ASTM D6771-02 Low-Flow Purging and Sampling. If requested, the Consultant shall submit a Health and Safety Plan (HASP) when required by the DEQ Project Manager. If requested by the DEQ Project Manager, the HASP should be reviewed and approved by a Certified Industrial Hygienist (CIH) under contract or employed by the Consultant. The HASP must cover all phases of work expected at the site. Where appropriate, the Consultant shall also submit a Sampling and Analysis Plan (SAP), including a brief description of the site, the type of sampling and media to be sampled, the laboratory analysis to be done (including methodology). Prior to any work taking place, a street occupancy permit and a traffic control plan could be required for project sites within City ROWs. Consultant is responsible for obtaining property access agreements, and for notifications and/or obtaining permits needed to perform the work. Any work done on a site contaminated by an illicit drug laboratory must be conducted under the supervision of an Industrial Hygienist (IH) or a CIH.

Upon request, the Environmental Consultant shall review all relevant data for the project site. Data may include, without limitation, construction plans and specifications, Phase I ESAs, Phase II ESAs, subsurface investigation reports, Corrective Action Plans, Corrective Measures Plans, groundwater monitoring reports and/or other data packages.

The environmental investigation and assessment work could include, without limitation, planning and characterizing media for Public Works construction projects including: performing asbestos containing material surveys; conducting hydrogeological (aquifer testing) studies; conducting risk/cost assessments; interfacing with regulatory agencies; and preparing work plans, reports, and similar documents. The work could include surface and subsurface sampling of fill, soil, and rock by hand auguring, direct push, hollow stem auger drilling, test pits, or other drilling

methods; installing, surveying, and sampling of groundwater monitoring wells; sampling of surface waters and sediments; sampling/monitoring of vapors or explosive gases; and evaluation of explosive (methane) gas and vapor migration issues consistent with ASTM, EPA, & CDPHE guidance.

In coordination with the DEQ Project Manager, the Consultant shall ensure that all waste material generated during limited environmental investigation is properly stored, characterized, transported, and either or both disposed or treated.

A report will be prepared to present the data obtained and to document the work performed. A data summary and conclusions regarding the subsurface conditions at the site will be provided. The limited environmental investigation report will include appendices for boring logs, well construction diagrams, and analytical laboratory reports. It is intended that the report could be attached to the project plans and specifications so that bidding contractors would have an opportunity to review the document as they prepare bids for construction. Reports must meet formatting and other requirements as specified by regulatory agencies and the DEQ Project Manager.

2. Material Management Plans (MMPs)

The Environmental Consultant shall prepare project-specific Material Management Plans (MMPs) or if requested, Material Management Recommendations Reports (MMRRs), to provide guidance to the future-selected construction contractor regarding handling potentially contaminated media (e.g. soil, fill, and/or groundwater) during construction. The MMP/MMRR will be designed to minimize potential worker exposure to potentially contaminated material, prevent releases to the environment, and ensure proper management and disposal. MMPs/MMRRs shall delineate procedures for monitoring for encounters with contaminants or suspected contaminants and for the management of contaminated water and/or solid, special, and hazardous waste on a future construction project. It is intended that the MMPs/MMRRs would be attached to the project plans and specifications, and that bidding contractors would have an opportunity to review the document as they prepare bids for construction. Requested attributes follow.

Upon request, the Environmental Consultant shall review all relevant data for the project site. Data may include, without limitation, project construction plans and specifications, Phase I ESAs, Phase II ESAs, subsurface investigation reports, site characterization reports, Corrective Action Plans, Corrective Measures Plans, groundwater monitoring reports and/or other data packages.

The delivered MMP/MMRR document shall identify areas and media of concern, summarize data, provide conclusions regarding the subsurface conditions, and provide an overview of the MMP implementation for the project site. The document will outline protocols to properly manage environmentally-impacted fill material, soil, and groundwater during site-specific construction activities. It shall identify project contacts. It shall provide field screening procedures, action levels, material segregation procedures, procedures for management/disposal of environmentally impacted media, and a contingency plan for unanticipated materials. The document shall discuss the need for implementation of storm water BMPs, permits, site security, equipment decontamination, general environmental controls, confirmation samples,

recordkeeping, and reporting. The document shall include exhibits (e.g. topographic map, site map, maps of affected soil and affected groundwater, laboratory analytical results, pertinent reports of investigation/characterization, the City's asbestos in soil management plan; as figures, tables, flowcharts, and appendices) as appropriate. The document must meet formatting and other requirements as specified by regulatory agencies and the DEQ Project Manager.

3. Environmental Inspections

The Environmental Consultant may be asked to provide site work as an accredited Certified Asbestos Building Inspector (CABI)/ Air Monitoring Specialist (AMS) to monitor work in accordance with approved plans and State regulation. Work would include but would not be limited to, development of monitoring plans, attendance at meetings, monitoring of site activities, collection of air and debris samples for analysis (e.g., TEM or PCM), analysis results, digital photography documentation, written documentation, and reporting.

Task Orders and Responsibility Levels

Each task order will require some level of project development with the City Project Manager. Most task orders will be for Construction Services, with some for Design Services, or both. Some task orders may require specialists be involved. The scoping and the development of all the details of the work are critical to the task order's success.

The level of responsibility may range from providing geotechnical and pavement engineering designs, recommendations on design or construction issues, to providing daily quality assurance testing on various construction projects, to performing 3rd party independent assurance testing.

The consultant will be required to communicate fully with the Project Managers in the various departments that originate the Task Orders or those directing the work. The communication and coordination involves:

- Utilizing City design and construction standards, testing and project contract schedules, and specific requirements from the City Project Manager for the project.
- A full understanding of the various specifications used, and the response times for both field scheduling and field and written report needed shall be agreed on.
- Daily communication on scheduling issues,
- Utilizing engineering specialists as needed for a project.
- Providing timely daily verbal information with written reports related to field inspections and testing.
- Providing summary testing reports with graphical representation of test locations.

All work will be completed in English units. The consultant shall provide services to document the design and construction work for each task order.

Technical Work and Service Level Requested

Selected activities will be identified on a task order basis and may include some or all of the following:

1. The Consultant shall provide written design or analysis reports (with related figures or charts or software output) according to determined standards. The Consultant shall produce for the City design report documents in a timely manner to facilitate the City moving a design project quickly to bidding in a form that will enable the City to contract for construction according to regular City procedures.,
2. The Consultant shall provide timely daily verbal information with follow up email or written reports related to field inspections and testing.
3. The Consultant shall provide final construction inspection or testing documents in a timely manner to facilitate the City keeping a high level of construction quality without unreasonably delaying the project contractor in a form that will enable the City to maintain the overall project budget and schedule according to regular City procedures.
4. The Consultant shall provide summary testing reports with graphical representation of test locations. Test values shall be shown compared to the various specifications used on the project, showing pass or fail, in a format agreeable to the applicable City Project Manager.
5. The Consultant shall provide a professional level of geotechnical, construction inspection, materials testing, structure capacity, forensic engineering services.
6. The Consultant shall be prepared to provide sufficient normal professional staff and specialized or clerical staff support as necessary for investigation, design or analysis studies, inspection and materials quality assurance or acceptance testing.
7. The Consultant may be asked to provide review of design plans or documents prepared by others.
8. Consultant shall assist, whenever so directed by the City, with the review, analysis and approval of drawings, materials and schedules which the construction contractor prepares to aid in the construction effort.
9. Upon request by the City, the Consultant shall confer with designated City personnel on matters pertaining to the design and construction effort.
10. The Consultant shall provide technical personnel to supplement City Engineering staff. Personnel may need skills and experience in construction inspection, construction engineering (resident engineer), design engineering review, and material testing on a wide variety and scope of work.

NOTE: Some or all of the above activities may be requested from various areas of Public Works to provide assistance internally, as well as to other City Agencies.

Services under NAICS Code 237310 (Construction Management Highway, Road, Street and Bridge)

The scope of services required may include all or some of the construction aspects of the following list with the exception of any and all Airport work. Please refer to the specific scope of the work above.

Airport runway construction
Airport runway line painting (e.g., striping)
Asphalt paving (i.e., highway, road, street, public sidewalk)
Bridge construction
Bridge decking construction
Concrete paving (i.e., highway, road, street, public sidewalk)
Construction management, highway, road, street and bridge
Culverts, highway, road and street, construction
Curbs and street gutters, highway, road and street, construction
Grading, highway, road, street and airport runway
Guardrail construction
Painting lines on highways, streets and bridges
Parking lot marking and line painting
Parkway construction
Pothole filling, highway, road, street or bridge
Repair, highway, road, street, bridge or airport runway
Resurfacing, highway, road, street, bridge or airport runway
Road construction
Runway, airport, line painting (e.g., striping)
Sidewalk, public, construction
Sign erection, highway, roads, street or bridge
Tarring roads

Services under NAICS Code 237110 (Construction Management Water and Sewer Line)

The scope of services required may include all or some of the construction aspects of the following list with the exception of any and all Airport work. Please refer to the specific scope of the work above.

Capping of water wells
Construction management, water and sewer line
Distribution line, sewer and water, construction
Drilling water wells (except water intake wells in oil and gas fields)
Fire hydrant installation
Irrigation system construction
Pumping station, water and sewage system, construction
Sewer main, pipe and connection, construction
Storm sewer construction
Utility line (i.e., sewer, water), construction
Water main and line construction
Water pumping or lift station construction
Water system storage tank and tower construction
Water treatment plant construction

Exhibit B
List of Key Personnel

SUB-CONSULTANT TEAM MEMBERS

Firm Name: Yeh and Associates, Inc.

List **ALL** potential firm personnel titles/classifications that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager).

Title/Classification	Responsibilities	Rate/Hr.
Principal	Ensure project receives all needed support. Review schedule, budget.	\$185
Senior Project Manager	Responsible for day to day management of project.	\$160
Senior Project Specialist	Technical expert, performing investigations and preparing reports	\$145
Project Manager	Responsible for day to day management of limited scope projects.	\$135
Sr. Engineer/Geologist	Performs engineering/geological investigations.	\$115
Project Engineer/Geologist	Performs investigations, prepares reports.	\$100
Staff Engineer/Geologist	Performs calculations, sketches, checks drawings supplied by others.	\$80
Engineer/Geologist Intern	Supports more senior geologists in investigations and evaluations.	\$60
Construction Project Manager	Performs construction inspection, submits daily reports, reviews specs.	\$130
Construction Observer III	Inspects construction, submits daily field reports.	\$115
Construction Observer II	Inspects construction, write field reports.	\$100
Construction Observer I	Provide construction inspection services, write field reports.	\$85
Technician Leader or Supervisor	Conducts tests on soils, concrete, asphalt. Is fully certified.	\$100
Laboratory Supervisor	Organizes and oversees all lab activities for materials testing.	\$95
Technician III	Tests asphalt, concrete, aggregate, and soils. Trains entry level technicians.	\$80
Technician II	Samples and tests asphalt, concrete, aggregate, and soils.	\$65
Technician I	Samples and tests asphalt, concrete, aggregate, and soils.	\$50
CAD Designer	Prepares conceptual studies and designs.	\$110
CAD Technician	Assists in preparing CAD designs.	\$65
Administrative Assistant	Composes and types correspondence; maintains file system.	\$60

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.7

Attachment 3

REIMBURSABLE EXPENSES

FIRM: Yeh and Associates

The additional expenses of the Consultant reimbursable by the City shall include:

- (1) Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of the Denver Metropolitan area, when authorized in writing by the City under this Agreement, and subject to City regulations and limitations.
- (3) Actual cost of reproduction of drawings and specifications for the specific Task Order and which are in excess of any required by the terms of the contract.
- (4) Actual cost for expendable supplies and services not normally used on a routine or normal basis in an architectural or engineering office (i.e., aerial photography) and which are provided especially under this Agreement for the benefit of the City.
- (5) Other costs negotiated at the Task Order Level.

EXPENSE OR SERVICE	BILLING RATE
Mileage outside the Denver metropolitan area	\$ <u>0.545</u> / mile
Xerographic Copies or Printing (larger format sheets)	\$ <u>at cost</u> / S.F.
Photographic Reproduction on Mylar	\$ <u>at cost</u> / S.F
Outside Materials / Services / Supplies	At cost

Attachments 2 and 3 – Authentic Drilling

Attachment 3

REIMBURSABLE EXPENSES

FIRM: Authentic Drilling, Inc.

The additional expenses of the Consultant reimbursable by the City shall include:

- (1) Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of the Denver Metropolitan area, when authorized in writing by the City under this Agreement, and subject to City regulations and limitations.
- (3) Actual cost of reproduction of drawings and specifications for the specific Task Order and which are in excess of any required by the terms of the contract.
- (4) Actual cost for expendable supplies and services not normally used on a routine or normal basis in an architectural or engineering office (i.e., aerial photography) and which are provided especially under this Agreement for the benefit of the City.
- (5) Other costs negotiated at the Task Order Level.

EXPENSE OR SERVICE	BILLING RATE
Mileage outside the Denver metropolitan area	\$ _____ / mile
Xerographic Copies or Printing (larger format sheets)	\$ _____ / S.F.
Photographic Reproduction on Mylar	\$ _____ / S.F.
Outside Materials / Services / Supplies	Cost

N/A – See attached rate sheet

Geotechnical • Environmental • Exploration • Specialty Drilling

2018 DRILL RATES

			Drill Rate
MOBE	Mobilization/Demobilization - Local (↓ 100 Miles)	hours	
	Mobe/Demobe - Out of Town - Truck Rig	miles	\$ 1.75
	Mobe/Demobe - Out of Town - ATV Rig	miles	\$ 3.00
	Mobe/Demobe - Out of Town - Support Truck	miles	\$ 1.15
	Mobe/Demobe - Out of Town - \$50/Man/Hour	hours	\$ 100.00
	Per Diem	days	GSA Rate
TRUCK RIG	Drill S.S.A.	hours	\$ 175.00
	Drill H.S.A.	hours	\$ 175.00
	Drill Casing Advancer	hours	\$ 200.00
	Drill Air Rotary	hours	\$ 200.00
	Drill Mud Rotary	hours	\$ 200.00
	Drill NQ3/HQ3 Coring	hours	\$ 200.00
	Drill Odex	hours	\$ 250.00
ATV RIG	Drill S.S.A.	hours	\$ 200.00
	Drill H.S.A.	hours	\$ 200.00
	Drill Casing Advancer	hours	\$ 225.00
	Drill Air Rotary	hours	\$ 225.00
	Drill Mud Rotary	hours	\$ 225.00
	Drill NQ3/HQ3 Coring	hours	\$ 225.00
	Drill Odex	hours	\$ 250.00
OPTIONS	Drill Surcharge - Night / Weekend / Overtime	hours	\$ 50.00
	Rotary Bit Charge	feet	\$ 1.50
	Core/Odex Bit Charge	feet	\$ 2.50
	Packer Testing / Pressuremeter Testing Time	hours	\$ 200.00
	Packer Testing Materials	each	\$ 100.00
	Pressuremeter Materials	each	\$ 250.00
	Continuous Dry Core Sampler	hours	\$ 100.00
RENTALS	Support Truck	days	\$ 200.00
	Air Compressor	days	\$ 600.00
	Trash Pump	days	\$ 50.00
	Decon / Steam Cleaner	days	\$ 100.00

CURRENT FLEET

- CME 55/300 Rubber Track Rig
- CME 550X Buggy Tire Drill Rig
- CME 75 Truck Rig
- CME 750X Buggy Tire Drill Rig
- Acker Renegade



COMING SOON

- CME 550X Buggy Tire Drill Rig (May 2018)
- CME 55/300 Rubber Track Rig (August 2018)



Attachments 2 and 3 – Blue Rock Labs

Attachment 3

REIMBURSABLE EXPENSES

FIRM: Blue Rock Labs, Inc.

The additional expenses of the Consultant reimbursable by the City shall include:

- (1) Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of the Denver Metropolitan area, when authorized in writing by the City under this Agreement, and subject to City regulations and limitations.
- (3) Actual cost of reproduction of drawings and specifications for the specific Task Order and which are in excess of any required by the terms of the contract.
- (4) Actual cost for expendable supplies and services not normally used on a routine or normal basis in an architectural or engineering office (i.e., aerial photography) and which are provided especially under this Agreement for the benefit of the City.
- (5) Other costs negotiated at the Task Order Level.

EXPENSE OR SERVICE	BILLING RATE
Mileage outside the Denver metropolitan area	\$ 0.535/ mile
Xerographic Copies or Printing (larger format sheets)	At cost
Photographic Reproduction on Mylar	At cost
Outside Materials / Services / Supplies	Cost

Attachments 2 and 3 – CTC-Geotek

SUB-CONSULTANT TEAM MEMBERS
Key Personnel

Firm Name: **CTC-Geotek, Inc.**

Name	Title	Responsibilities	Rate/Hr.
Bob Scavuzzo, P.E.	President/Senior Engineer	Project principal; review & approve all field/lab results/reports	\$95.00/hr.
Mike Bogan	Senior Geotechnical Consultant	Supervision & preparation of geotechnical investigation reports	\$75.00/hr.
Jeff Wayne	Soils Laboratory Manager	Perform all soils laboratory testing in accordance to appropriate test method.	\$40.00/hr.
Chris McConnell, P.G.	Geotechnical Department Supervisor	Scheduling of field technicians, field report review, coordination of geotechnical investigative drilling	\$60.00/hr.
Don Robinson	Senior Field Engineering Technician	Caisson inspection, density testing of soil/asphalt, footing subgrade testing, rebar inspection, concrete testing	\$40.00/hr.
Bri Lovato	Concrete/Reinforcing Steel/Masonry Department Manger	Scheduling field technicians, performing rebar, masonry, concrete, post-tension slab testing/inspection	\$44.00/hr.
Nestor Oropeza-Luna	Concrete/Reinforcing Steel/Masonry Field Technician	Field testing/inspection of concrete, reinforcing steel, masonry, post-tension slabs	\$44.00/hr.
Dan Dickmeyer	Structural Steel Inspector Department Supervisor	Scheduling of field inspectors, performing inspection/testing of welded/bolted connections	\$48.00/hr.
Mark Sharbono	Fireproofing/Structural Steel Inspector	Sampling & testing of structural fireproofing and structural steel	\$48.00/hr.
Arthur Reed	V.P. Technical Operations	Coordination and performance of project need specialty testing	\$65.00/hr.

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.45

Attachment 3
REIMBURSABLE EXPENSES

FIRM: CTC-Geotek

The additional expenses of the Consultant reimbursable by the City shall include:

- (1) Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of the Denver Metropolitan area, when authorized in writing by the City under this Agreement, and subject to City regulations and limitations.
- (3) Actual cost of reproduction of drawings and specifications for the specific Task Order and which are in excess of any required by the terms of the contract.
- (4) Actual cost for expendable supplies and services not normally used on a routine or normal basis in an architectural or engineering office (i.e., aerial photography) and which are provided especially under this Agreement for the benefit of the City.
- (5) Other costs negotiated at the Task Order Level.

EXPENSE OR SERVICE	BILLING RATE
Mileage <u>outside</u> the Denver metropolitan area	\$ <u>0.55</u> / mile
Xerographic Copies or Printing (larger format sheets)	\$ _____ / S.F.
Photographic Reproduction on Mylar	\$ _____ / S.F.
Outside Materials / Services / Supplies	Cost

Attachments 2 and 3 – Kleinfelder

Attachment 2 - Kleinfelder

Title/ Classification	Responsibilities	Rate/Hr.
Geotechnical/Materials Testing/Inspection Services		
Principal	QA/QC by Principal or Senior Technical Reviewer, Ensures Project receives all needed support, Reviews Scope Schedule Budget	\$195.00
*Project Manager	Coordinates Multi-Disciplinary Teams, Responds to Agency Questions, Attends Project Meetings with Clients/Stakeholders, Primary Point of Contact for City, Manages Project Scope and Budget	\$165.00
*Project Engineer/Special Testing	**Preparation of Geotechnical or Pavement Design Reports, **Visual classification of on-site soils for acceptance of material for backfill or subgrade support and/or relating to slope stability issues Oversees Field Investigations, Assigns Laboratory Testing	\$110.00
Staff II Engineer	**Preparation of Geotechnical or Pavement Design Reports, **Visual classification of on-site soils for acceptance of material for backfill or subgrade support and/or relating to slope stability issues, **Caissons - Inspection and depth of bearing strata, inspection of shear rings; inspection of casing operation, amount of water at base of caisson, and concrete placement techniques Conducts Field Investigations, Performs calculations, Supports Project and Senior Level Engineers	\$105.00
Staff I Engineer	**Caissons - Inspection and depth of bearing strata, inspection of shear rings; inspection of casing operation, amount of water at base of caisson, and concrete placement techniques Conducts Field Investigations, Performs calculations, Supports Project and Senior Level Engineers	\$90.00
Construction Manager	Oversees field testing and inspection services, Oversees laboratory testing, Reviews testing and inspection reports, Schedules technician staff	\$120.00
*Senior Technician/Lead Inspector	**Concrete - Inspection of concrete batch plants, **Precast Concrete - Plant Quality Control inspection, **Precast Concrete - testing and inspection of precast connections, **Post-Tensioned Concrete - Inspection and verification of Contractor's procedures, and monitoring of jacking operations, **Masonry - inspection of reinforcing dowels, reinforcing steel, joint reinforcing, ties and anchors, **Steel - verification of mill certification, inspection of fit and alignment, visual inspection of welds with testing by several methods, visual inspection of self indicating bolt tensioning devices , and inspection and testing of shear studs, **Steel - Inspection and verification of erection methods, **Fireproofing - inspection and testing of fireproofing density and thickness, **Concrete - Inspection of steel reinforcing for slabs, columns, beams, etc.; verification of reinforcing steel property certification. Prepares Daily Field Reports and Testing Forms	\$90.00
*Technician III	**Soils observation and inspection including compaction testing, **Caissons - Inspection and depth of bearing strata, inspection of shear rings; inspection of casing operation, amount of water at base of caisson, and concrete placement techniques, **Concrete - Inspection of steel reinforcing for slabs, columns, beams, etc.; verification of reinforcing steel property certification, **Masonry - inspection of reinforcing dowels, reinforcing steel, joint reinforcing, ties and anchors, **Fireproofing - inspection and testing of fireproofing density and thickness. Prepares Daily Field Reports and Testing Forms	\$75.00

*Technician II	**Soils observation and inspection including compaction testing,**Asphalt paving observation and inspection of asphalt placement including monitoring of temperatures or compaction and applicable installation quality control procedures,**Concrete Testing - include all personnel and equipment costs associated with slump, air content, and unit weight testing as well as casting of cylinders for compressive strength tests,**Masonry - Inspection of masonry installation including observation of grout placement techniques. Prepares Daily Field Reports and Testing Forms	\$65.00
*Technician I	**Soils observation and inspection including compaction testing,**Asphalt paving observation and inspection of asphalt placement including monitoring of temperatures or compaction and applicable installation quality control procedures,**Concrete Testing - include all personnel and equipment costs associated with slump, air content, and unit weight testing as well as casting of cylinders for compressive strength tests. Prepares Daily Field Reports and Testing Forms	\$55.00
*Word Processing/Clerical/Administrative/Accounting	Responsible for providing support services in handling administrative and office details; types materials, establishes and maintains files; receives visitors; and receives and distributes mail and telephone calls, Prepares and Submits Project Invoices	\$60.00
Environmental Services		
*Managing Engineer/Scientist	Project Management, Coordinates Multi-Disciplinary Teams, Response to Agency Questions, Project Meetings with Clients/Regulators	\$165.00
*Principal Engineer/Scientist	QA/QC by Principal or Senior Technical Reviewer, Meetings with Regulatory and Oversight Agencies	\$174.00
*Senior Engineer/Scientist	Remediation, Engineering Design, Investigation Design, Development of Work Plans, Database Design, Training, Industrial Hygiene	\$188.00
*Project Engineer/Scientist	Reports to Regulatory and Oversight Agencies, Preparation of Permits, GIS Library Development and Data Analysis, Technical Review of Documents Phase I ESA Site Visits/Reporting, Interpretation of Data, Collection of Non-Field data, Development of Logs and Maps, Pilot Testing, Biological and Wetland Field Mapping, Preparation of Reports to Clients, GIS Data Collection/Processing/Presentation, Asbestos Designer/Air Monitoring Specialist/Project Manager, Technical Review of Documents	\$110.00
*Staff II Engineer/Scientist	Soil Logging, Monitoring Well Installation Oversight, Water-Level Surveying, Slug Tests, Field Oversight, Lead Driller, Miscellaneous Field Services, Asbestos Building Inspector, Air Monitoring Specialist	\$105.00
*Staff I Engineer/Scientist	Soil Sampling, Groundwater Sampling, Sampling During UST Removals, Surveyor's Assistant	\$90.00
*Field Technician	Maintain Field Equipment, Data Management	\$74.00
*CADD Designer	Computer Design Development	\$80.00

*Required Labor Category from Attachment 2 of RFQ

**Required Listed Responsibility from Attachment 2 of RFQ

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: **2.8**

Attachment 3

REIMBURSABLE EXPENSES

FIRM: Kleinfelder

The additional expenses of the Consultant reimbursable by the City shall include:

- (1) Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of the Denver Metropolitan area, when authorized in writing by the City under this Agreement, and subject to City regulations and limitations.
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- (5) Other costs negotiated at the Task Order Level.

EXPENSE OR SERVICE	BILLING RATE
Mileage outside the Denver metropolitan area	\$ ■■■/ mile Mileage at gov. rate
Xerographic Copies or Printing (larger format sheets)	\$ 4.00/ S.F.
Photographic Reproduction on Mylar	\$ 6.00/ S.F.
Outside Materials / Services / Supplies	Cost

Attachments 2 and 3 – Martinez

SUB-CONSULTANT TEAM MEMBERS

Firm Name: Martinez Associates, Inc.

Title/Classification	Responsibilities	Rate/Hr.
Principal Professional	Principal-in-charge and senior reviewer	\$145.00
Senior Professional	Project management and senior engineer	\$135.00
Project Manager	Construction project management	\$110.00
Project Professional	Project engineering and analysis	\$100.00
Sr. Staff Professional	Field investigation, engineering and analysis	\$90.00
Staff Professional	Field investigation and engineering	\$80.00
Inspector	Construction materials inspection and testing	\$90.00
Sr. Engineering Technician	Construction materials observation and testing	\$60.00
Engineering Technician	Construction materials observation and testing	\$55.00
Administrative Assistant	Report typing, accounting and clerical	\$45.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.1

Attachment 3

REIMBURSABLE EXPENSES

FIRM: Martinez Associates, Inc.

The additional expenses of the Consultant reimbursable by the City shall include:

- (1) Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of the Denver Metropolitan area, when authorized in writing by the City under this Agreement, and subject to City regulations and limitations.
- (3) Actual cost of reproduction of drawings and specifications for the specific Task Order and which are in excess of any required by the terms of the contract.
- (4) Actual cost for expendable supplies and services not normally used on a routine or normal basis in an architectural or engineering office (i.e., aerial photography) and which are provided especially under this Agreement for the benefit of the City.
- (5) Other costs negotiated at the Task Order Level.

EXPENSE OR SERVICE	BILLING RATE
Mileage outside the Denver metropolitan area	\$ <u>0.55</u> / mile
Xerographic Copies or Printing (larger format sheets)	\$ _____ / S.F.
Photographic Reproduction on Mylar	\$ _____ / S.F.
Outside Materials / Services / Supplies	Cost

Attachments 2 and 3 – Pinyon Environmental

SUB-CONSULTANT TEAM MEMBERS
Key Personnel

Firm Name: Pinyon Environmental, Inc.

Title/Classification	Responsibilities	Rate/Hr.
Principal/Executive Management	Responsible for providing strategic direction, vision, and leadership. Performs senior-level QA/QC and conducts meetings and negotiations with regulatory and oversight agencies.	\$220
Senior Engineer/Scientist	Responsible for technical completeness and competency of all submissions and work performed, including performance of junior- and mid-level planners and scientists. Conduct and supervise professional and technical staff to complete studies focused on engineering, planning, NEPA evaluations, air quality, noise, biology, geology, chemistry and environmental science.	\$201
Project Manager II	Project management, including coordination of multi-disciplinary teams, preparing responses to agency questions, and facilitates project meetings with client and regulators. Develops project requirements, site investigations, facility requirements development, budget and programming support, analyses and project execution.	\$179
Project Specialist	Directs the gathering of data and prepares complex reporting and analysis. Oversight of technical products and development of detailed studies related to NEPA, air quality, noise, environmental justice, biology, geology, chemistry and environmental science.	\$153
Project Engineer/Scientist	Conducts data analysis and input, field data gathering, miscellaneous field services related to engineering, NEPA, air quality, noise, geology, chemistry and environmental science, and writes descriptive technical reports.	\$ 127
Staff II Engineer/Scientist	Conducts the collection and initial interpretation of scientific data, such as soil logging, soil and groundwater sampling, water-level surveying, scientific data, noise or air measurements.	\$117
Staff I Technician/Project Assistant	Data management and administrative support, maintain field equipment; administrative contract control.	\$94
Drafting (Graphics)	AutoCAD, floor plans, elevations, sections, scale drawings, layering and concept design for architects and engineers. Duties may include configuring and maintaining CADD libraries, engineering documentation management systems and CADD computer network systems.	\$98
Field Technician/Project Assistant	Maintain Field Equipment, Data Management	\$86
Clerical	Word Processing, Clerical	\$67

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 3.01

Attachment 3

REIMBURSABLE EXPENSES

FIRM: Pinyon Environmental, Inc.

The additional expenses of the Consultant reimbursable by the City shall include:

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- (2) Actual cost of reproduction of drawings and specifications for the specific Task Order and which are in excess of any required by the terms of the contract.
- (3) Actual cost for expendable supplies and services not normally used on a routine or normal basis in an architectural or engineering office (i.e., aerial photography) and which are provided especially under this Agreement for the benefit of the City.
- (4) Other costs negotiated at the Task Order Level.

EXPENSE OR SERVICE	RATE	BILLING RATE
Dual Interface Probe	day	\$70.00
Groundwater level indicator	day	\$30.00
Photoionization Detector / FID or similar	day	\$75.00
Automated Samplers, Monitors, and Data Loggers	day	\$100
PID / FID / multi gas meter (or similar)	day	\$75.00
Groundwater sampling kit	day	\$201.00
Soil Sampling kit	day	\$315.00
Field Visits (General Projects [e.g., Phase I ESA])	Day	\$40.00
Field Visits (Wetland/Biology)	Day	\$50.00
Soil Logging (During Drilling)	Boring	\$105.00
Monitoring Well Development	Well	\$55.00
Monitoring Well Sampling	Well	\$67.00
Asbestos Sampling Kit (Building Inspections)	Day	\$45.00
Asbestos Air Monitoring Kit	Day	\$110.00
Pass Through Rate – Subcontractor Costs and Management		
All Subcontracted Services	Cost	Cost
Field Sampling and Investigation Supplies and Materials as preapproved by City and County of Denver Project Manager	Cost	Cost
Remediation Supplies and Materials as preapproved by City and County of Denver Project Manager	Cost	Cost
██████████	██████████	

Attachments 2 and 3 – RK Mechanical

Attachment 3 REIMBURSABLE

EXPENSES FIRM: R.K. Mechanical

The additional expenses of the Consultant reimbursable by the City shall include:

- (1) Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of the Denver Metropolitan area, when authorized in writing by the City under this Agreement, and subject to City regulations and limitations.
- (3) Actual cost of reproduction of drawings and specifications for the specific Task Order and which are in excess of any required by the terms of the contract.
- (4) Actual cost for expendable supplies and services not normally used on a routine or normal basis in an architectural or engineering office (i.e., aerial photography) and which are provided especially under this Agreement for the benefit of the City.
- (5) Other costs negotiated at the Task Order Level.

EXPENSE OR SERVICE	BILLING RATE
Mileage outside the Denver metropolitan area	\$ <u>0.545</u> / mile
Xerographic Copies or Printing (larger format sheets)	\$ <u>at cost</u> / S.F.
Photographic Reproduction on Mylar	\$ <u>at cost</u> / S.F
Outside Materials / Services / Supplies	At cost

Attachments 2 and 3 – JF Sato

Attachment 3

REIMBURSABLE EXPENSES

FIRM: J.F. Sato and Associates, Inc.

The additional expenses of the Consultant reimbursable by the City shall include:

- (1) Actual cost of transportation and living expenses of the Consultant's personnel traveling outside of the Denver Metropolitan area, when authorized in writing by the City under this Agreement, and subject to City regulations and limitations.
- (3) Actual cost of reproduction of drawings and specifications for the specific Task Order and which are in excess of any required by the terms of the contract.
- (4) Actual cost for expendable supplies and services not normally used on a routine or normal basis in an architectural or engineering office (i.e., aerial photography) and which are provided especially under this Agreement for the benefit of the City.
- (5) Other costs negotiated at the Task Order Level.

EXPENSE OR SERVICE	BILLING RATE
Mileage outside the Denver metropolitan area	\$ <u>0.545</u> / mile
Xerographic Copies or Printing (larger format sheets)	\$ <u>0.10</u> / Sheet
Photographic Reproduction on Mylar	\$ <u>5.00</u> / Sheet
Outside Materials / Services / Supplies	Cost

Attachments 2 and 3 – Triunity



SUB-CONSULTANT TEAM MEMBERS

Firm Name: Triunity Engineering & Management, Inc.

List **ALL** potential firm personnel titles/classifications that may be utilized under the Agreement, and their respective hourly rate. Do not list names of personnel, only titles (i.e. Project Manager). Provide additional sheets as necessary.

Title/Classification	Responsibilities	Rate/Hr.
Administration Support	Administration and Clerical Support	\$85.00
Civil Engineer Lead	Civil design	\$188.00
Civil Engineer II	Civil design	\$170.00
Civil Engineer I	Civil design	\$145.00
Civil/Structural Inspector Lead	Civil/Structural Field Inspections	\$155.00
Civil/Structural Inspector II	Civil/Structural Field Inspections	\$132.00
Civil/Structural Inspector I	Civil/Structural Field Inspections	\$112.00
Construction Manager	Construction Phasing, Constructability Reviews	\$160.00
Construction Safety	Construction Field Safety	\$117.00
Drafting Lead	CAD & Drafting	\$115.00
Drafter I	CAD & Drafting	\$95.00
Electrical Engineer Lead	Electrical and Systems Engineering Lead	\$245.00
Electrical Engineer II	Electrical and Systems Engineering Lead	\$210.00
Electrical Engineer I	Electrical and Systems Engineering Support	\$175.00
Electrical Inspection Lead	Electrical Field Inspections	\$170.00
Electrical Inspection II	Electrical Field Inspections	\$145.00
Electrical Inspection I	Electrical Field Inspections	\$115.00
ITS/Traffic Senior	Traffic and ITS Design and Analysis	\$210.00
ITS/Traffic Engineer II	Traffic and ITS Design and Analysis	\$170.00
ITS/Traffic Engineer I	Traffic and ITS Design and Analysis	\$145.00
Project Controls Manager	Project Management, Project Controls Lead	\$220.00
Project Controls II	Scheduling, Estimating, Contract Admin	\$175.00
Project Controls I	Scheduling, Estimating, Contract Admin	\$125.00
Project Manager Senior	Project Management Functions	\$255.00
Project Manager II	Project Management Functions	\$190.00
Project Manager I	Project Management Functions	\$140.00
Utility Coordinator Lead	Utility Coordination	\$185.00
Utility Coordinator II	Utility Coordination	\$160.00
Utility Coordinator I	Utility Coordination	\$130.00

Multiplier, which when multiplied by the direct labor rate yields the above hourly billing rate: 2.3986



The City will not compensate the Consultant for expenses such as postage, mileage, parking, or telephone costs. Reproduction and travel costs, if requested by the City, shall be reimbursed at actual cost if approved in advance by Project Manager. Such costs are, in all such instances, included in the hourly rates paid by the City. Reproduction of submittals requested by the City including such items as end-of-phase reports, drawings, bid documents, record drawing reproductions, etc. are not included in the hourly rates, and will be itemized as a not-to-exceed reproducible expense and will be reimbursed at actual cost.

REIMBURSABLE EXPENSES

Firm Name: Triunity Engineering & Management, Inc.

(Consultant may copy this page or modify it to conform to the services being offered.)

The additional expenses of the Consultant reimbursable by the City shall include:

1. Actual cost of reproduction of drawings and specifications, requested by the city.
2. Travel cost for sub consultants not local to the project. Travel shall be pre-approved by the City.

<u>Item</u>	<u>Actual Costs</u>	<u>Charge Rate</u>
External Printing (as requested)		Billed at cost
Travel cost for non-local staff (as requested)		Billed at cost

TAB 4 TESTING SERVICES



YEH & Associates	
Natural moisture content (ASTM D2216)	\$10
Moisture content – dry unit weight, drive or core sample (ASTM D2937)	\$20
Moisture content – dry unit weight, chunk or block sample	\$50
Moisture content – dry unit weight, thin walled tube sample (ASTM D2937)	\$40
Atterberg limits with PL, PI, LL (ASTM D4318)	\$75
Aggregate specific gravity	\$60
Sand Equivalent	\$80
Grain size analysis (ASTM D422, 6913):	
a) Eight standard sieve nest to #200 (per ASTM D2487 or AASHTO M145)	\$75
b) Less than 3" max to #200 sieve with one split sieve, add	\$50
c) Percent less than #200 sieve with wash	\$50
d) Hydrometer analysis, add	\$120
Manual USC classification (ASTM D2488), extrude, examine, photo, and describe.	\$25
Soil classification (ASTM D2487/ AASHTO M145) sieve, #200 wash, Atterberg as-required	\$ 170
Standard Proctor compaction (ASTM D698)	\$150
Oversize Correction (w/coarse aggregate specific gravity), add	\$60
Modified Proctor compaction (ASTM D1557)	\$180
Oversize Correction (w/coarse aggregate specific gravity), add	\$60
R-value (ASTM D2844, Cal 301), untreated soil	\$375
CBR Test	\$ 375
pH of soil or water (D4972)	\$50
Resistivity of soil or water, as received or saturated	\$50
pH and Resistivity of soil or water (Cal 643)	\$125
Soluble sulfates	\$50
Soluble chlorides	\$50
Expansion index (ASTM D4829)	\$ 175
Swell-collapse (ASTM D4546-A)	\$ 200
Swell-collapse (ASTM D4546-B, C)	100
Soil unconfined compressive strength (ASTM D2166)	\$ 70
Asphalt content	
a) Ignition furnace calibration, per mix	\$ 500
b) Calibration of nuclear asphalt gauge	\$ 500
c) % AC	\$ 110
d) Gradation	\$ 100
Bulk specific gravity (AASHTO T166)	\$55
Coring per core	\$100
Maximum specific gravity (Rice) (AASHTO T209)	\$ 115
Marshall Compaction & Air Vids Analysis (ASTM 6926)	\$250
Marshall Stability & Flow (ASTM 6927)	\$150
Micro-Deval Abrasion of Coarse Aggregate (AASHTO T327, ASTM D6928, CP-L 4211)	\$275
LA Abrasion (AASHTO T96 or ASTM C131)	\$200
Fracture faces	\$75
Compressive Strength, Cylindrical Concrete Specimens (4"x8") (AASHTO T 22 ASTM C-39)	\$17
Flexural Strength of Concrete Beam (Using simple beam with third-point loading)	\$60
Point Load Strength Index of Rock and Application to Rock Strength Classifications (ASTM D5731)	\$30
Mortar and grout cube compressive strength (ASTM C109) per cube	\$30

Blue Rock Laboratory Test Rates	
Moisture Content & Density (Unit Weight)	\$25.00
Irregular shape (waxed method) (ASTM D7263)	\$100.00
Specific Gravity Soils (ASTM D854)	\$60.00
Sieve Analysis through #200 (ASTM D6913)	\$65.00
Hydrometer only (ASTM D7928)	\$70.00
Percent Passing the #200 (ASTM D1140)	\$45.00
Sieve Analysis Plus Hydrometer (ASTM D6913, D7928, or D422)	\$135.00
Crumb (ASTM D6572)	\$30.00
Double Hydrometer (ASTM D4221)	\$150.00
Pinhole Dispersion (ASTM D4647)	\$200.00
Method A (ASTM D4546) reconstituted specimen--includes reconstitution fee	\$160.00
Method B (ASTM D4546) intact specimen	\$100.00
Method C (ASTM D4546)	\$250.00
Free Swell (ASTM D4546)	\$70.00
Incremental (ASTM D2435) 8 load and 3 unload increments w/ e-log P plot	\$350.00
Incremental (ASTM D2435) with Burmeister loop and e log P plot	\$450.00
Computer plot of deformation vs log of time or vs square root of time	\$25.00
Computer plot of deformation vs log of time or vs square root of time	\$170.00
Additional load/unload increment	\$20.00
Reconstituted/remolded sample	\$60.00
Hydraulic Conductivity (ASTM D5084) up to 5 days in a cell	\$300.00
Additional days in cell	each day
Reconstituted/remolded sample	\$60.00
Triaxial: Unconfined compression U _c (ASTM D2166)	\$50.00
Triaxial: Unconsolidated-Undrained compression UU (ASTM D2850)	\$80.00
Triaxial: Consolidated-Undrained compression CU (ASTM D4767)	\$250.00
Triaxial: Consolidated-Undrained compression CU (ASTM D4767)	\$750.00
Triaxial: Consolidated-Drained compression CD (ASTM D7181)	\$500.00
Triaxial: Consolidated-Drained compression CD (ASTM D7181)	\$750.00
Additional stress vs strain or p-q plots	\$60.00

TAB 4 TESTING SERVICES



Kleinfelder Laboratory Test Rates	
Organic Content	\$110.00
Flat and Elongated Particle Size	\$80.00
Organic Impurities	\$65.00
Sodium / Magnesium Soundness of Aggregate	\$145.00
Uncompacted Void Content of Fine Aggregate	\$125.00
Unit Weight of Aggregate	\$65.00
Direct Shear (3 points)	\$350.00
Concrete Compression (Bonded)	\$25.00
CMU Compression	\$90.00
Shotcrete compression	\$85
CMU / SEG Unit Freeze - Thaw	\$1,750.00
CTB Strength (Set of 3)	\$420.00
Masonry Grout Compression	\$25.00
Masonry Prism Compression	\$25.00
AC Moisture Content	\$45.00
AC HVEEM Stability	\$200.00
AC Moisture Induced Damage (Lottman)	\$1,400.00
AC Core Thickness	\$15.00
AC Core Unit Weight & Thickness	\$55.00
Fireproofing Density	\$55.00
Metal, Charpy Impact (set of 3)	\$400.00
Metal, PT Strand Tensile	\$250.00
Metal, Rebar Tensile	\$250.00

CTC Geotek Laboratory Test Rates	
Specific Gravity ASTM D-854	\$40.00
Relative Density ASTM D-4253, D-4254	\$300.00
Air Dried Swell / Consolidation, Denver Method	\$45.00
Asphalt Extraction ASTM D-1559	\$100.00
Asphalt Marshall, 3 specimens ASTM D-1559	\$100.00
Pocket Penetrometer	\$5.00
LA Abrasion	\$150.00
Sodium Sulfate Soundness C-88	\$150.00

Classification - Index
Tests:

Exhibit C
Insurance



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
05/04/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Tom Walker Agency Inc 3333 S WADSWORTH BLVD UNIT D300 LAKEWOOD, CO 80227 (303) 504-9605 (036/308)	CONTACT NAME: Tom Walker Agency Inc PHONE (A/C No. Ext): (303) 504-9605 E-MAIL ADDRESS: TWALKER@amfam.com	FAX (A/C No.): (844) 273-5476
	INSURER(S) AFFORDING COVERAGE	
INSURED Yeh & Associates Inc 2000 Clay St Ste 200 Denver, CO 80211	INSURER A: American Family Mutual Insurance Company, S.I.	NAIC # 19275
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES	CERTIFICATE NUMBER:	REVISION NUMBER:
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THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/>	Y	Y	05-XV1207-01	10/01/2017	10/01/2018	BODILY INJURY (Per person) \$ 1,000,000 BODILY INJURY (Per accident) \$ 1,000,000 PROPERTY DAMAGE (Per accident) \$ 1,000,000 BODILY INJURY \$
	<input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR <input type="checkbox"/> <input type="checkbox"/> GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y/N <input checked="" type="checkbox"/> N/A (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 As required by written contract, the City and County of Denver, its elected and appointed officials, employees and volunteers are included as additional insured. Coverage is primary/non-contributory and a waiver of subrogation applies. Project: On-Call Inspection, Material Testing and Environmental Services

CERTIFICATE HOLDER City and County of Denver Department of Public Works 201 W Colfax Ave Denver CO 80202	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE B. Stevens
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