

**DESIGN PROFESSIONAL SERVICES AGREEMENT**  
**PROJECT NO. 81000802 CONTRACT NO. 1402**  
**LINE CREEK/ROCK CREEK PROJECT AREA 4**  
**INFLOW AND INFILTRATION (I/I) REDUCTION PROJECT**  
**OFFICE OF THE CITY MANAGER**

This design professional services agreement is between KANSAS CITY, MISSOURI, a constitutionally chartered municipal corporation ("City"), and CH2M Hill Engineers, Inc. ("Design Professional"). City and Design Professional agree as follows:

**PART I**  
**SPECIAL TERMS AND CONDITIONS**

**Sec. 1. Project description.**

The services to be provided under this Agreement are for the following project (Project) and purpose:

The purpose of this project is to rehabilitate aging sewer pipes to like-new conditions and to restore capacity to the wastewater collection system, thereby reducing the volume and frequency of separate sanitary sewer overflows.

This Project is associated with the Federal Consent Decree regarding the City of Kansas City, Missouri in the Overflow Control Plan. All rules and requirements included in the Consent Decree shall be adhered to. The Design Professional should pay special attention to Section XIII of the Consent Decree as it relates to stipulated penalties.

**Sec. 2. Services to be performed by Design Professional.** Design Professional shall perform the following Scope of Services:

- A. Design Professional shall perform Scope of Services listed on **Attachment A**.
- B. Submit all documents, including plans, design drawings, specifications, reports, maps, models and renderings in the form requested by City. A list with the specific requirements is included in **Attachment B**.
- C. City shall have the right to inspect and review the work being done and to consult with Design Professional at any reasonable time. Conferences will be held at the request of City or Design Professional.
- D. If it is determined to be in the best interest of the work, Design Professional shall replace the project manager or any other employee of the Design Professional, Subcontractors, Suppliers or other persons or organizations performing or furnishing any of the work on the project upon written request by the City.

**Sec. 3. Term.** Unless sooner terminated as provided herein, and unless specific dates for providing services are identified in this Agreement, this Agreement shall remain in force for a period which may reasonably be required for the completion of the services to be provided by

Design Professional under the Scope of Services. Work under this agreement shall begin upon written Notice to Proceed.

**Sec. 4. Compensation and Reimbursables.**

- A. The maximum amount that City shall pay Design Professional under this Agreement is \$715,000.00 as follows:
1. \$382,908.00 for the services performed by Design Professional under this Agreement.
  2. For Design Professional services described in the Scope of Services, City shall pay Design Professional compensation amounting to actual salary of personnel for time charges directly to the project, times an approved multiplier. The multiplier to be used shall not exceed 3.04. Engineering Fee Summary and a Schedule of Position Classifications and the salary range for each position is included as a part of **Attachment C**. In addition, field investigation labor will be compensated on a unit price basis using the unit prices listed in **Attachment D**.
  3. Actual reasonable expenses incurred by Design Professional directly related to Design Professional's performance under this Agreement, to include only the following, in an amount not to exceed \$254,292.00. The following are the reimbursable expenses that City has approved: subcontractor direct costs paid by Design Professional, outside reproduction of final deliverables, local transportation in the project area, and public outreach materials. Subcontractor's office personnel labor costs be included in the unit prices for field investigation work. Compensation for subcontractor field investigations shall be based on the unit prices listed in **Attachment D**.
  4. Design Professionals' maximum amount shown in Sec. 4, Compensation and Reimbursables, includes a total allowance amount of \$77,800.00 for Optional Services not yet authorized by the City that may be required throughout the course of work. This allowance amount will not be utilized by Design Professional unless specifically authorized in writing by the City to perform Optional Services. Optional Services will not be performed, nor is the Design Professional approved to utilize any allowance monies unless the City provides written authorization to Design Professional that includes the scope of work for each optional task to be performed and a maximum billing limit for compensation that has been mutually agreed upon.
  5. Compensation for all Optional Services will be based on the actual salary of office personnel for time charges directly to the project, times an approved multiplier. The multiplier to be used shall not exceed 3.04. Engineering Fee Summary and schedule of position classifications and the salary range for each position is included as a part of **Attachment C**. The amount billed for each Optional Service shall not exceed the amount established for it without further written authorization. Additional amounts for Optional Services may be authorized, if deemed by City to be necessary, as the work progresses. In addition, field investigation labor will be compensated on a unit price basis using the unit prices listed in **Attachment D**. Each Optional Service shall be specifically

authorized by City in writing, and a maximum billing limit shall be established before the work is started. The amount billed for each Optional Service shall not exceed the amount established for it without further written authorization. Additional amounts for Optional Services may be authorized, if deemed by CITY to be necessary, as the work progresses.

6. City is not liable for any obligation incurred by Design Professional except as approved under the provisions of this Agreement.
7. Design Professional's Engineering Fee Summary is contained in **Attachment C** and represents the basis for the maximum amount that City shall pay Design Professional under this agreement.

**B. Method of Payment.**

Design Professional shall invoice City monthly setting forth the total effort expended on an hourly basis and all actual reasonable expenses incurred and allowed under this Agreement. Each invoice shall provide the subtotal of the hours and costs invoiced by the Design Professional for each Task Series identified in **Attachment A** and a sum total of hours and costs for each invoice period. Design Professional shall submit a copy of invoices received from its Subcontractors with labor hours per person, salary rate per person, effective salary multiplier, and direct expenses for each Task Series. Design Professional shall also submit monthly project status report with each monthly invoice containing the information defined in **Attachment A**. City, upon approving the invoice, shall remit payment.

**C. Condition Precedent to Payment.**

1. It shall be a condition precedent to payment of any invoice from Design Professional that Design Professional is in compliance with, and not in breach or default of, all terms, covenants and conditions of this Agreement. If damages are sustained by City as a result of breach or default by Design Professional, City may withhold payment(s) to Design Professional for the purpose of set off until such time as the exact amount of damages due City from Design Professional may be determined, and
2. No request for payment will be processed unless the request is in proper form, correctly computed, and is approved as payable under Agreement. City is not liable for any obligation incurred by Design Professional except as approved under the provisions of this Agreement.
3. No request for payment will be processed unless it is accompanied by a copy of the most recent 00485.01 M/WBE Monthly Utilization Report submitted to the City's Human Relations Department.

**Sec. 5. Notices.** All notices required by this Agreement shall be in writing and sent to the following:

**City:**

**Office of the City Manager**

Andy Shively, P.E.

Special Assistant City Manager

4800 E. 63<sup>rd</sup> Street

Kansas City, MO 64130

Phone: (816) 513-0304

Facsimile: (816) 513-0226

E-mail address: [andy.shively@kcmo.org](mailto:andy.shively@kcmo.org)

**Design Professional:**

**CH2M Hill Engineers, Inc.**

Deron Huck, P.E.

2300 Main Street, Suite 325

Kansas City, MO 64108

Phone: (816) 533-7308

Facsimile: (816) 421-5560

E-mail address: [deron.huck@jacobs.com](mailto:deron.huck@jacobs.com)

All notices are effective (a) when delivered in person, (b) upon confirmation of receipt when transmitted by facsimile transmission or by electronic mail, (c) upon receipt after dispatch by registered or certified mail, postage prepaid, (d) on the next business day if transmitted by overnight courier (with confirmation of delivery), or (e) three (3) business days after the date of mailing, whichever is earlier.

**Sec. 6. Merger.** This Agreement consists of Part I, Special Terms and Conditions and any Attachments and any documents incorporated by reference; and Part II, Standard Terms and Conditions. This Agreement, including any Attachments and incorporated documents, constitutes the entire agreement between City and Design Professional with respect to this subject matter.

**Sec. 7. Conflict Between Agreement Parts.** In the event of any conflict or ambiguity between the Special Terms and Conditions of Part I and the Standard Terms and Conditions of Part II of this Agreement, Part I will be controlling.

**Sec. 8. Responsibilities of City. City shall:**

- A. Make available to Design Professional all existing records, maps, plans, and other data possessed by City when such are necessary, advisable, or helpful to Design Professional in the completion of the work under this Agreement.
- B. If required or upon recommendation of Design Professional, retains the services of a soils/geotechnical consultant.
- C. Designate in writing a person to act as City representative with respect to the work to be performed under this Agreement; with such person having complete authority to transmit instructions, receive information, interpret and define City's policies and decisions with respect to the materials, equipment elements and systems pertinent to

the work covered by this Agreement, and the responsibility to be available to inspect and review the work and to consult with Design Professional at any reasonable time.

D. Provide standard City forms as required.

E. Provide City – Licensed Geographical Information System Data set forth in **Attachment E**, incorporated into this Agreement.

**Sec. 9. Attachments to Part I.** The following documents are attachments to Part I of this Agreement and are attached hereto and incorporated herein by this reference:

**Attachment A** – Scope of Services

**Attachment B** – Electronic Data Requirements

**Attachment C** – Engineering Fee Summary and Schedule of Position Classifications

**Attachment D** – Unit Prices

**Attachment E** - Licensed Geographical Information System Data

**Attachment F** – HRD Documents

1. 00450 HRD Form 08: Contractor Utilization Plan/Request for Waiver

2. 00450.01: Letter of Intent to Subcontract

3. 00460 HRD Form 10: Timetable for MBE/WBE Utilization

4. 00470 HRD Form 11: Request for Modification or Substitution

5. 01290.14: Contractor Affidavit for Final Payment

6. 01290.15: Subcontractor Affidavit for Final Payment

**Attachment G** –Employee Eligibility Verification Affidavit

**Attachment H** – Truth-In-Negotiation Certificate

**Attachment I** – Affidavit of Compliance with the Federal Consent Decree

Regarding the City of Kansas City, Missouri Overflow Control Plan, Civil Action No. 10-cv-0487-GAF

Federal Consent Decree: an electronic copy of the Consent Decree in Civil Action No. 10-cv-00497-GAF is available at the following

web location: <https://www.kcwaterservices.org/wp-content/uploads/2013/04/Consent-Decree.pdf>

**Attachment J**– Non-Construction Subcontractors Listing

**Sec. 10. Subcontracting.** Design Professional agrees that it will only subcontract with the subcontractor(s) it has listed on the “Subcontractor List Non-Construction”, contained in **Attachment J**.

**Sec. 11. Minority and Women’s Business Enterprises.** City is committed to ensuring that minority and women’s business enterprises (M/WBE) participate to the maximum extent possible in the performance of City contracts. If M/WBE participation goals have been set for this Agreement, Design Professional agrees to comply with all requirements of City’s M/WBE Program as enacted in City’s Code Sections 3-421 through 3-469 and as hereinafter amended. Design Professional shall make its good faith efforts in carrying out this policy by implementing its contractor utilization plan, which is attached as **Attachment F**. If Design Professional fails to achieve the M/WBE goals stated in its contractor utilization plan, as amended, the City will sustain damages, the exact extent of which would be difficult or impossible to ascertain or estimate at the time of execution of this contract. Therefore, in order to liquidate those damages, the monetary difference between the amount of the M/WBE goals set forth in this contractor utilization plan, as amended, and the amount actually paid to qualified MBEs and WBEs for

performing a commercially useful function will be deducted from the Design Professional's payments as liquidated damages. In determining the amount actually paid to qualified MBEs and WBEs, no credit will be given for the portion of participation that was not approved by the Director of City's Human Relations Division, unless the Director determines that the Design Professional acted in good faith. No deduction for liquidated damages will be made when, for reasons beyond the control of the Design Professional, the M/WBE participation stated in the Contractor Utilization Plan, as amended and approved by the Director, is not met.

**Sec. 12. Professional services certification.** Code Section 2-83, prohibiting Agreements with certain attorneys, architects, engineers and other professionals thereunder, shall apply to this Agreement. Design Professional certifies that it is not an architect, engineer, or other professional, exclusive of medical doctors or appraisers, who at the time of the issuance of the Agreement, serves as an expert witness for any litigation against City, and that it will not serve as an expert witness for any litigation against City during the term of this Agreement.

**Sec. 13. Effectiveness; Date.** This Agreement will become effective when the City's Director of Finance has signed it. The date this Agreement is signed by the City's Director of Finance will be deemed the date of this Agreement.

Each party is signing this Agreement on the date stated opposite that party's signature.

**THIS AGREEMENT CONTAINS INDEMNIFICATION PROVISIONS**

**DESIGN PROFESSIONAL**

I hereby certify that I have authority to execute this document on behalf of Design Professional

Date: 5/30/2018

By: *Deron Huck*

Name: Deron Huck, P.E.

Title: Business Vice President  
CH2M HILL Engineers, Inc.

**KANSAS CITY, MISSOURI**

Date: 6/22/18

By: *Andy Shively*

Name: Andy Shively, P.E.

Title: Special Assistant City Manager

Approved as to form:  
*[Signature]*  
Assistant City Attorney Date

I hereby certify that there is a balance, otherwise unencumbered, to the credit of the appropriation to which the foregoing expenditure is to be charged, and a cash balance, otherwise unencumbered, in the Treasury, to the credit of the fund from which payment is to be made, each sufficient to meet the obligation hereby incurred.

*for* *Gattham Bue* 7/20/18  
Director of Finance Date

## PART II

### STANDARD TERMS AND CONDITIONS

#### Sec. 1. General Indemnification.

A. For purposes of this Section 1 only, the following terms shall have the meanings listed:

1. **Claims** means all claims, damages, liability, losses, costs and expenses, court costs and reasonable attorneys' fees, including attorneys' fees incurred by the City in the enforcement of this indemnity obligation.

2. **Design Professional's Agents** means Design Professional's officers, employees, subcontractors, subconsultants, successors, assigns, invitees, and other agents.

3. **City** means City, its Program Manager/Construction Advisor and any of their agents, officials, officers and employees.

B. Design Professional's obligations under this Section with respect to indemnification for acts or omissions, including negligence, of City shall be limited to the coverage and limits of General (not Professional) Liability insurance that Design Professional is required to procure and maintain under this Agreement. Design Professional affirms that it has had the opportunity to recover the costs of the liability insurance required in this Agreement in its contract price.

C. Design Professional shall defend, indemnify and hold harmless City from and against all Claims arising out of or resulting from all acts or omissions in connection with this Agreement caused in whole or in part by Design Professional or Design Professional's Agents, regardless of whether or not caused in part by an act or omission, including negligence, of City. Design Professional is not obligated under this Section to indemnify City for the sole negligence of City.

D. Nothing in this section shall apply to indemnification for professional negligence which is specified in a separate provision of this Agreement.

E. In no event shall the language in this section constitute or be construed as a waiver or limitation of the City's rights or defenses with regard to sovereign immunity, governmental immunity, or other official immunities and protections as provided by the federal and state constitutions or by law.

#### Sec. 2. Indemnification for Professional Negligence.

Design Professional shall indemnify, and hold harmless City and any of its agencies, officials, officers, or employees from and against all claims, damages, liability, losses, costs, and expenses, including court costs and reasonable attorneys' fees, to the extent caused by any negligent acts, errors, or omissions of the Design Professional, its officers, employees, subconsultants, subcontractors, successors, assigns, invitees and other agents, in the performance of professional services under this Agreement. Design Professional is not obligated under this Section to indemnify City for the negligent acts of City or any of its agencies, officials, officers, or employees.

#### Sec 3. Insurance.

A. Design Professional shall procure and maintain in effect throughout the duration of this Agreement, and for a period of two (2) years thereafter, insurance coverage not less than the types and amounts specified below. In the event that additional insurance, not specified herein, is required during the term of this Agreement, Design Professional shall supply such insurance at City's cost. Policies containing a Self-Insured Retention are unacceptable to City unless City approves in writing the Design Professional Self-Insured Retention.



1. **Commercial General Liability Insurance:** with limits of \$1,000,000 per occurrence and \$2,000,000 aggregate, written on an "occurrence" basis. The policy shall be written or endorsed to include the following provisions:

a. **Severability of Interests Coverage** applying to Additional Insureds

b. **Per Project Aggregate Liability Limit** or, where not available, the aggregate limit shall be \$2,000,000

c. **No Contractual Liability Limitation** Endorsement

d. **Additional Insured Endorsement**, ISO form CG20 10, or its equivalent

2. **Worker's Compensation Insurance:** as required by statute, including Employers Liability with limits of:

**Workers Compensation Statutory**  
**Employers Liability**

\$100,000 accident with limits of:  
\$500,000 disease-policy limit  
\$100,000 disease-each employee

3. **Commercial Automobile Liability Insurance:** with a limit of \$1,000,000 written on an "occurrence" basis, covering owned, hired, and non-owned automobiles. If the Design Professional owns vehicles, coverage shall be provided on an "any auto" basis. If the Design Professional does not own any vehicles, coverage shall be provided on a "hired autos" and "nonowned autos" basis. The insurance will be written on a Commercial Business Auto form, or an acceptable equivalent, and will protect against claims arising out of the operation of motor vehicles, as to acts done in connection with the Agreement, by Design Professional.

4. **Professional Liability Insurance** with limits Per Claim/Annual Aggregate of \$1,000,000.

B. The Commercial General Liability Insurance specified above shall provide that City and its agencies, officials, officers, and employees, while acting within the scope of their authority, will be named as additional insureds for the services performed under this Agreement. Design Professional shall provide to City at execution of this Agreement a certificate of insurance showing all required endorsements and additional insureds. The certificates of insurance will contain a provision stating that should any of the policies described in the certificate be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

C. The Commercial General Liability and Commercial Automobile Liability insurance specified above shall contain a cross-liability or severability of interest clause or endorsement and shall contain a provision or endorsement that the costs of providing the insureds a defense and appeal, including attorneys' fees, as insureds, shall be supplementary and shall not be included as part of the policy limits but shall remain the insurer's responsibility. Insurance covering the specified additional insureds shall be primary insurance, and all other insurance carried by the additional insureds shall be excess insurance. With respect to Commercial Automobile Liability, Commercial General Liability, and any Umbrella Liability Insurance, Design Professional shall require its insurance carrier(s) to waive all rights of subrogation against City and its agencies, officials, officers, and employees.

D. All insurance coverage must be written by companies that have an A.M. Best's rating of "A-V" or better, and are licensed or approved by the State of Missouri to do business in Missouri.

E. Design Professional's failure to maintain the required insurance coverage will not relieve Contractor of its contractual obligation to indemnify the City pursuant to Sections 1 and 2. If the coverage afforded is cancelled

or changed or its renewal is refused, Design Professional shall give at least 30 days prior written notice to City. In the event of Design Professional's failure to maintain the required insurance in effect, City may order Design Professional to immediately stop work, and upon ten (10) days notice and an opportunity to cure, may pursue its remedies for breach of this Agreement as provided for herein and by law.

F. In no event shall the language in this Section constitute or be construed as a waiver or limitation of the City's rights or defenses with regard to sovereign immunity, governmental immunity, or other official immunities and protections as provided by the federal and state constitutions or by law.

#### **Sec. 4. Design Standards and Endorsement.**

A. Except as otherwise directed in writing by City, in the performance of services under this Agreement, Design Professional shall comply with all design standards required by federal, state, local laws or codes including but not limited to all applicable provisions of:

1. Title II of the 2010 ADA Standards for Accessible Design as amended from time to time;
2. the Clean Air Act(42 U.S.C. 7401 *et seq.* and the Clean Water Act (33 U.S.C. 1251 *et seq.*
3. the Missouri Clean Water Law (Chapter 644 RSMo) together with any accompanying regulation(s) contained in the Missouri Code of State Regulations (CSR Title 10), as well as any implementing permits; and
4. Kansas City Code Sec. 3-71. LEED gold standard.

Design Professional shall notify and explain to City any applicable exceptions under these acts.

B. Design Professional shall use all design standards recognized and used in the industry in the performance of services

under this agreement. Design Professional shall endorse all plans and specifications, or estimates, and engineering data furnished under this Agreement if prepared by Design Professional. All subcontractors as appropriate shall endorse their respective plans and specifications, or estimates, and engineering data furnished for the Plan or Project.

C. Design Professional shall monitor quality assurance for their design services and shall revise the design and plans at their own expense in case of error or oversight in design by Design Professional or any subcontractor to Design Professional.

#### **Sec. 5. Copyright and Ownership of Documents.**

A. Design Professional shall on its behalf and on behalf of its employees and agents, promptly communicate and disclose to City all computer programs, documentation, software and other copyrightable works and all discoveries, improvements and inventions conceived, reduced to practice or made by Design Professionals or its agents, whether solely or jointly with others, during the term of this Agreement resulting from or related to any work Design Professional or its agents may do on behalf of City or at its request. All inventions and copyrightable works that Design Professional is obligated to disclose shall be and remain entirely the property of City. It is agreed that all inventions and copyrightable works are works made for hire and shall be the exclusive property of City. Design Professional hereby assigns to City any rights it may have in such copyrightable works. Design Professional shall cooperate with City in obtaining any copyrights or patents.

B. Original documents, including plans, specifications, reports, maps, models and renderings, including electronic media, prepared or obtained under the terms of this Agreement shall be delivered to and become the property of City and basic survey notes, diaries, sketches, charts, computations and

other data shall be made available upon request by City without restriction or limitation of their use. There shall be no legal limitations upon City in the subsequent use of the documents or ideas developed in the documents. In the event that any of the documents are reused by City, the nameplates or other identification to the Design Professional will be removed and the Design Professional will be released of subsequent liabilities. In the event that any of the design drawings are reused or modified by City, the name plates or other identification to the Design Professional will be removed.

#### **Sec. 6. Governing Law.**

This Contract shall be construed and governed in accordance with the laws of the State of Missouri without giving effect to Missouri's choice of law provisions. The City and Design Professional: (1) submit to the jurisdiction of the state and federal courts located in Jackson County, Missouri; (2) waive any and all objections to jurisdiction and venue; and (3) will not raise forum non conveniens as an objection to the location of any litigation.

#### **Sec. 7. Compliance with Laws.**

Design Professional shall comply with all federal, state and local laws, ordinances and regulations applicable to the work and this Agreement.

#### **Sec. 8. Termination for Convenience.**

A. City may, at any time upon ten (10) days notice to Design Professional specifying the effective date of termination, terminate this Agreement, in whole or in part. If this Agreement is terminated by City, City shall be liable only for payment for services rendered before the effective date of termination. Design Professional shall prepare an accounting of the services performed and money spent by Design Professional up to the effective date of termination and shall return to City any

remaining sums within thirty (30) days of such date.

B. If this Agreement is terminated prior to Design Professional's completion of services, all work or materials prepared or obtained by Design Professional pursuant to this Agreement shall become City's property.

C. If this Agreement is terminated prior to Design Professional's completion of the services to be performed hereunder, Design Professional shall return to City and sums paid in advance by City for services that would otherwise have had to be rendered between the effective date of termination and the original ending date of the Agreement. Design Professional shall prepare an accounting of the services performed and money spent by Design Professional up to the effective date of termination and shall return to City any remaining sums within thirty (30) days of such date.

#### **Sec. 9. Default and Remedies.**

If Design Professional shall be in default or breach of any provision of this Agreement, City may terminate this Agreement, suspend City's performance, withhold payment or invoke any other legal or equitable remedy after giving Design Professional notice and opportunity to correct such default or breach.

#### **Sec. 10. Waiver.**

Waiver by City of any term, covenant, or condition hereof shall not operate as a waiver of any subsequent breach of the same or of any term, covenant or condition. No term, covenant, or condition of this Agreement can be waived except by written consent of City, and forbearance or indulgence by City in any regard whatsoever shall not constitute a waiver of same to be performed by Design Professional to which the same may apply and, until complete performance by Design Professional of the term, covenant or condition, City shall be entitled to invoke any remedy available to it under this Agreement

or by law despite any such forbearance or indulgence.

#### **Sec. 11. Acceptance.**

No payment made under this Agreement shall be proof of satisfactory performance of the Agreement, either wholly or in part, and no payment shall be construed as acceptance of deficient or unsatisfactory work.

#### **Sec. 12. Modification.**

Unless stated otherwise in this Agreement, no provision of this Agreement may be waived, modified or amended except in writing signed by City.

#### **Sec. 13. Headings; Construction of Agreement.**

The headings of each section of this Agreement are for reference only. Unless the context of this Agreement clearly requires otherwise, all terms and words used herein, regardless of the number and gender in which used, shall be construed to include any other number, singular or plural, or any other gender, masculine, feminine or neuter, the same as if such words had been fully and properly written in that number or gender.

#### **Sec. 14. Severability of Provisions.**

Except as specifically provided in this Agreement, all of the provisions of this Agreement shall be severable. In the event that any provision of this Agreement is found by a court of competent jurisdiction to be unconstitutional or unlawful, the remaining provisions of this Agreement shall be valid unless the court finds that the valid provisions of this Agreement are so essentially and inseparably connected with and so dependent upon the invalid provision(s) that it cannot be presumed that the parties to this Agreement could have included the valid provisions without the invalid provision(s); or unless the court finds that the valid provisions, standing alone, are incapable of

being performed in accordance with the intentions of the parties.

#### **Sec. 15. Records.**

A. For purposes of this section:

1. "City" shall mean the City Auditor, the City's Internal Auditor, the City's Director of Human Relations, the City Manager, the City department administering this Contract and their delegates and agents.

2. "Record" shall mean any document, book, paper, photograph, map, sound recordings or other material, regardless of physical form or characteristics, made or received in connection with this Contract and all Contract amendments and renewals.

B. Design Professional shall maintain and retain all Record for a term of five (5) years that shall begin after the expiration or termination of this Contract and all Contract amendments. City shall have a right to examine or audit all Records and Design Professional shall provide access to City of all Records upon ten (10) days written notice from the City.

C. The books, documents and records of Design Professional in connection with this Agreement shall be made available to the City Auditor, the City's Internal Auditor, the City's Director of Human Relations and the City department administering this Agreement within ten (10) days after the written request is made.

#### **Sec. 16. Affirmative Action.**

If this Contract exceeds \$300,000.00 and Design Professional employs fifty (50) or more people, Design Professional shall comply with City's Affirmative Action requirements in accordance with the provisions of Chapter 3 of City's Code, the rules and regulations relating to those sections, and any additions or amendments thereto; in executing any Contract subject to

said provisions, Design Professional warrants that it has an affirmative action program in place and will maintain the affirmation action program in place for the duration of the Contract. Design Professional shall not discriminate against any employee or applicant for employment because of race, color, sex, religion, national origin or ancestry, disability, sexual orientation, gender identity or age in a manner prohibited by Chapter 3 of City's Code. Design Professional shall:

1. Submit, in print or electronic format, a copy of Design Professional's current certificate of compliance to the City's Human Relations Department (HRD) prior to receiving the first payment under the Contract, unless a copy has already been submitted to HRD at any point within the previous two calendar years. If, and only if, Design Professional does not possess a current certification of compliance, Design Professional shall submit, in print or electronic format, a copy of its affirmative action program to HRD prior to receiving the first payment under the Contract, unless a copy has already been submitted to HRD at any point within the previous two calendar years.

2. Require any Subcontractor awarded a subcontract exceeding \$300,000.00 to affirm that Subcontractor has an affirmative action program in place and will maintain the affirmative action program in place for the duration of the subcontract.

3. Obtain from any Subcontractor awarded a subcontract exceeding \$300,000.00 a copy of the Subcontractor's current certificate of compliance and tender a copy of the same, in print or electronic format, to HRD within thirty (30) days from the date the subcontract is executed. If, and only if, Subcontractor does not possess a current certificate of compliance, Design Professional shall obtain a copy of the Subcontractor's affirmative action program and tender

a copy of the same, in print or electronic format, to HRD within thirty (30) days from the date the subcontract is executed.

City has the right to take action as directed by City's Human Relations Department to enforce this provision. If Design Professional fails, refuses or neglects to comply with the provisions of Chapter 3 of City's Code, then such failure shall be deemed a total breach of this Contract and this Contract may be terminated, canceled or suspended, in whole or in part, and Design Professional may be declared ineligible for any further contracts funded by City for a period of one (1) year. This is a material term of this Contract.

#### **Sec. 17. Tax Compliance.**

Design Professional shall provide proof of compliance with the City's tax ordinances administered by the City's commissioner of revenue as a precondition to the City making the first payment under this Agreement or any Agreement renewal when the total Agreement amount exceeds \$150,000.00. If Design Professional performs work on an Agreement that is for a term longer than one year, the Design Professional also shall submit to the city proof of compliance with the City's tax ordinances administered by the City's commissioner of revenue as a condition precedent to the city making final payment under the Agreement.

#### **Sec. 18. Assignability and Subcontracting.**

(a) Assignability. Design Professional shall not assign or transfer any part or all of Design Professional's obligation or interest in this Contract without prior written approval of City. If Design Professional shall assign or transfer any of its obligations or interests under this Contract without the City's prior written approval, it shall constitute a material breach of this Contract. This provision shall not prohibit Design Professional from

subcontracting as otherwise provided for herein.

(b) Subcontracting. Design Professional shall not subcontract any part or all of Design Professional's obligations or interests in this Contract unless the subcontractor has been identified in a format required by City. If Design Professional shall subcontract any part of Design Professional's obligations or interests under this Contract without having identified the subcontractor, it shall constitute a material breach of this Contract. The utilization of subcontractors shall not relieve Design Professional of any of its responsibilities under the Contract, and Design Professional shall remain responsible to City for the negligent acts, errors, omissions or neglect of any subcontractor and of such subcontractor's officers, agents and employees. City shall have the right to reject, at any point during the term of this Contract, any subcontractor identified by Design Professional, and to require that any subcontractor cease working under this Contract. City's right shall be exercisable in its sole and subjective discretion. City shall not be obligated to pay or be liable for payment of any monies which may be due to any subcontractor. Design Professional shall include in any subcontract a requirement that the subcontractor comply with all requirements of this Contract in performing Design Professional's services hereunder.

#### **Sec. 19. Conflicts of Interest.**

Design Professional certifies that no officer or employee of City has, or will have, a direct or indirect financial or personal interest in this Agreement, and that no officer or employee of City, or member of such officer's or employee's immediate family, either has negotiated, or has or will have an arrangement, concerning employment to perform services on behalf of Design Professional in this Agreement.

#### **Sec. 20. Conflict of Interest - Certification.**

Design Professional certifies that Design Professional is not an expert witness for any party in litigation against the City at the time of the issuance of this Contract.

#### **Sec. 21. Buy American Preference.**

It is the policy of the city that any manufactured goods or commodities used or supplied in the performance of any city Agreement or any subcontract hereto shall be manufactured or produced in the United States whenever possible.

#### **Sec. 22. Independent Contractor.**

Design Professional is an independent contractor and is not City's agent. Design Professional has no authority to take any action or execute any documents on behalf of City.

#### **Section 23. Employee Eligibility Verification.**

If this Contract exceeds five thousand dollars(\$5,000.00), Design Professional shall execute and submit an affidavit, in a form prescribed by City, affirming that Design Professional does not knowingly employ any person in connection with the contracted services who does not have the legal right or authorization under federal law to work in the United States as defined in 8 U.S. C. § 1324a(h)(3). Design Professional shall attach to the affidavit documentation sufficient to establish Design Professional's enrollment and participation in an electronic verification of work program operated by the United States Department of Homeland Security (E-Verify) or an equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, under the Immigration Reform and Control Act of 1986. Design Professional may obtain additional information about E-Verify and enroll at <http://www.uscis.gov/e-verify> . For those Design Professionals enrolled in E-

Verify, the first and last pages of the E-Verify Memorandum of Understanding that Design Professional will obtain upon successfully enrolling in the program shall constitute sufficient documentation for purposes of complying with this Section. Design Professional shall submit affidavit and attachments to City prior to execution of the contract, or at any point during the term of the Contract if requested by City.

#### **Section 24. Truth-In-Negotiation Certificate**

The Design Professional shall complete and execute the Truth-In-Negotiation Certificate attached hereto as Attachment H and incorporated herein simultaneous with the Design Professional's execution of this Agreement.

#### **Section 25. Consent Decree Project**

The Project being performed by the Design Professional pursuant to this Agreement is subject the Consent Decree entered on September 27, 2010 in the U.S. District Court for the District of Western Missouri, by an between the United States of America, the State of Missouri, and the City of Kansas City, Missouri. The City shall incur significant stipulated penalties in the event that the Project is not completed within the time period required by the Consent Decree. In such case, the Contractor understands that **TIME IS OF THE ESSENCE** hereunder. The Design Professional shall be liable for the actual damages in the amounts set forth below, if the Design Professional fails to fully perform the Project, Scope of Work, Work Product, and Other Services as required hereunder in accordance with the completion schedule and milestones accepted by the City and specified herein. This includes the Design Professional's performance of the Scope of Work, Work Products, provision of all services, and submission in a form acceptable to the City.

The Design Professional understands and agrees that **TIME IS OF THE ESSENCE** and

in the event the Project is not completed within the time period required by the Consent Decree, City shall incur significant stipulated penalties. In the event the Design Professional fails to meet and achieve the completion schedule and milestones approved by the City, Design Professional shall be liable for actual damages to be incurred per day as follows:

Day 1 through Day 30 - \$1000 per day;  
Day 31 through Day 60- \$2000 per day;  
Day 61 and thereafter - \$4000 per day.

These actual damages, along with any and all other damages, costs, and expenses incurred by the City in connection with this Agreement shall be the liability and obligation of the Design Professional. This shall not be the sole remedy of the City and City expressly reserves all rights and remedies available at law or in equity.

**ATTACHMENT A**  
**SCOPE OF SERVICES**



**ATTACHMENT A**  
**SCOPE OF SERVICES**

Design Professional: CH2M HILL Engineers, Inc.  
Owner: City of Kansas City, Missouri  
Project: I/I Reduction: Line Creek/Rock Creek Project Area 4  
City Contract No: 1402  
City Project No: 81000802

**I. GENERAL**

The following paragraphs provide a general description of the Work required of this Scope of Services. Subsequent paragraphs describe in detail the professional services to be provided by DESIGN PROFESSIONAL to facilitate the implementation of rehabilitation recommendations for reducing inflow and infiltration (I/I) flows into the sanitary sewer systems in the Line Creek/Rock Creek Project Area 4 in Kansas City, Missouri.

- A. The Project. The City of Kansas City (CITY), Missouri, intends to reduce I/I flows in the sanitary sewer system by implementing rehabilitation recommendations in Line Creek/Rock Creek Project Area 4 basin, which is located north of the Missouri River. As such, the CITY is contracting with DESIGN PROFESSIONAL to provide the necessary professional services.
- B. Federal Consent Decree. This Project is included in the Federal Consent Decree pertaining to the City of Kansas City, Missouri's Overflow Control Program. As such, requirements of the Federal Consent Decree must be adhered to by the DESIGN PROFESSIONAL and its subconsultants and subcontractors.
- C. Background Information. The CITY is undertaking this Project as mandated by the Federal Consent Decree to prepare preliminary and 50% design documents for the Line Creek/Rock Creek Project Area 4 I/I Reduction project as part of the Smart Sewer Program. The projects will focus on I/I reduction through rehabilitation of public sanitary sewers and manholes within the project area(s). The estimated footage of sewer pipe and number of manholes in the project area is approximately:
  - a. Line Creek/Rock Creek Project Area 4: 246,000 feet of 6-inch to 54-inch diameter sewer mains and 1,359 manholes.
- D. Follow-On Phases. At the discretion of the CITY, the DESIGN PROFESSIONAL may be requested to provide final design and construction phase services for the project(s).
- E. General Description of Activities. The Basic Scope of Services to be performed by DESIGN PROFESSIONAL consists of professional services for the development and implementation

of rehabilitation recommendations for reducing I/I flow and volume in the project area. This Scope of Services includes review of closed circuit television (CCTV) inspection and manhole inspection data collected by CITY for the project area and smoke and dyed water testing of the public sanitary sewers 6 inches to 54 inches in the project area. The determination of which sewer lines to be rehabilitated and DESIGN PROFESSIONAL's design services for rehabilitation of sewer pipes and manholes selected by CITY shall be based on a prioritization method discussed herein. The Work consists of the following professional services:

1. Flow and Rainfall Monitoring Data Analyses
2. Smoke Testing and Dyed Water Testing
3. Field Data Evaluation
4. Development of Preliminary Recommendations for Sewer System Rehabilitation
5. Development of 50% Construction Contract Documents

F. Task Series Listing. The Basic Scope of Services is organized under the following Task Series:

1. Task Series 100 - Project Management and Administration
2. Task Series 200 - Public Involvement and Coordination
3. Task Series 300 - FLOW AND rainfall Data Analyses
4. Task Series 400 - SMOKE TESTING AND DYED WATER TESTING
5. Task Series 500 - Field data evaluations and rehabilitation recommendations
6. Task Series 600 - Development of 50% complete design documents for sewer system rehabilitation
7. Task Series 700 - GIS
8. Task Series 800 - I/I Quantification Evaluation Support

G. Explicit Responsibilities. The Basic Scope of Services explicitly sets forth what DESIGN PROFESSIONAL shall perform and does not implicitly put any additional responsibilities or duties upon DESIGN PROFESSIONAL. The DESIGN PROFESSIONAL agrees to provide the specific Basic Services as identified herein. Work not specifically discussed herein shall not be performed without an amendment or shall be provided as Optional Services upon written authorization from the CITY.

H. Capital or Annual Cost Opinions. All opinions of probable construction cost developed shall generally follow the recommendations of the Association for the Advancement of Cost Engineering (AACE) International Recommended Practice No. 18R-97 with regard to methodology and accuracy. Since DESIGN PROFESSIONAL has no control over the cost of labor, material or equipment furnished by others not under contract to DESIGN PROFESSIONAL, DESIGN PROFESSIONAL's opinion of probable cost for construction of the Work shall be made on the basis of experience and qualifications as a DESIGN PROFESSIONAL. DESIGN PROFESSIONAL does not guarantee that proposals, bids or actual project cost will not vary from DESIGN PROFESSIONAL's opinions of probable

construction cost. The cost opinions' level of accuracy presented by DESIGN PROFESSIONAL shall be as noted for in subsequent paragraphs of this Scope of Services.

## **II. PROJECT MILESTONES AND CITY REVIEW REQUIREMENTS**

- A. DESIGN PROFESSIONAL shall complete Task Series 200 through 700 within 365 calendar days following the City's issuance of a Notice to Proceed to DESIGN PROFESSIONAL, provided CITY's distribution of field information (system characterization, manhole inspection data and CCTV data) is provided by CITY to DESIGN PROFESSIONAL no later than the date stated in Section V. If the above stated field information is not provided by the stated date, the project schedule will be extended based upon DESIGN PROFESSIONAL substantiating the impact of not receiving any information to the satisfaction of CITY. DESIGN PROFESSIONAL's completion schedule will be extended by CITY for delays beyond the reasonable control of DESIGN PROFESSIONAL as approved by CITY.
- B. The CITY hereby commits to review deliverables and provide comments within twenty-one (21) calendar days after receipt of deliverables from DESIGN PROFESSIONAL. CITY will endeavor to provide consolidated written review comments to DESIGN PROFESSIONAL within a twenty-one (21) calendar day period. A review meeting will be scheduled and conducted by DESIGN PROFESSIONAL no more than fourteen (14) calendar days after receipt of written consolidated CITY review comments, unless a mutually agreed upon date outside this schedule window is selected.
- C. Reference the applicable WSD protocols for field data evaluation guidance and the WSD Guidance Documents for design guidance. Reference documents include:
1. Manhole Inspection Protocol, July 2014
  2. Smoke Testing Protocol, October 2017
  3. CCTV Investigation Protocol, July 2016
  4. Dyed Water Testing Protocol, September 2013
  5. Flow Metering and Data Analysis Protocol, March 2017
  6. I/I Quantification and Rehabilitation Selection Guidance Document (I/I Guidance Document), July 2015
  7. GIS Update Protocol, January 2017

## **III. BASIC SCOPE OF SERVICES**

The following Task Series describe the Basic Scope of Services to be provided by the DESIGN PROFESSIONAL under the Project.

### **TASK SERIES 100 - PROJECT MANAGEMENT AND ADMINISTRATION**

The purpose of Project Management and Administration will be to manage, direct and oversee each element of Basic Services identified herein and subcontractors employed by the DESIGN

PROFESSIONAL in completion of the Work. The following management activities will be provided by DESIGN PROFESSIONAL.

**Task 101 Project Management Services**

Provide project management services necessary throughout the project to successfully manage and complete the work, including project correspondence and consultation with CITY Staff; supervision and coordination of services; implementation of a project specific Work Plan; scheduling and assignment of personnel resources; continuous monitoring of work progress; and maintenance of project controls.

**Task 102 Monthly Invoicing and Project Status Reports**

Prepare and submit monthly invoices on a form acceptable to the CITY and provide a monthly project status report and updated schedule, which shall accompany the monthly invoice submittal. A PDF copy of the invoice and project status report shall be uploaded to the CITY's Aconex document management system. The CITY will provide a template for the project status report. Each invoice by the DESIGN PROFESSIONAL and subcontractors shall have labor hours and fee and unit price items broken down by task series and shall be in general conformance with the invoice template provided by CITY. The monthly project status report shall identify work performed by the DESIGN PROFESSIONAL, the work activities anticipated to be performed the next month, action items required by CITY, potential project scope variances with corrective action, a general assessment of the DESIGN PROFESSIONAL's ability to meet M/WBE participation goals and project schedule milestones, including identification of any delays beyond its control, an estimate of work percent completion for each Task Series in the Basic Scope of Services based on the work completed, and the earned value of the completed work for each task series. The schedule shall be updated to reflect the progress reported in the status report. A short narrative shall be provided to describe the work activity performed for each task within each Task Series.

**Task 103 Subconsultant Agreements and Administration**

Prepare a scope, budget, schedule, and agreement for its subconsultants involved in the Project. Conduct coordination meetings as required to prepare subconsultant agreements, to review deliverables, and to execute the defined scope of work. Provide administration of subconsultant agreements and subconsultant work including deliverables, subcontractor invoicing, and schedule maintenance. Prepare monthly M/WBE subcontractor utilization reports and submit in the required format to the CITY's Human Relations Department.

**Task 104 Quality Control**

DESIGN PROFESSIONAL's Quality Control Program will be implemented on all phases of the project to provide an independent review of the work. Quality control reviews will include checks for conformance with regulatory agency requirements, completeness and correctness of evaluations, design accuracy, feasibility of implementing recommendations, and adherence to contract requirements.

**Task 105 Project Kickoff Meeting**

After Notice to Proceed is given by CITY, DESIGN PROFESSIONAL shall organize and conduct a Project kickoff meeting with the CITY to review and establish project goals, lines of communication, project procedures, the proposed Work Plan, and other logistics of project execution, including anticipated Project schedule and content of subsequent monthly progress meetings. DESIGN PROFESSIONAL shall prepare and submit an agenda to CITY staff prior to the meeting and prepare and distribute meeting minutes one week after the meeting date.

**Task 106 Work Plan**

1. **Work Plan Format.** DESIGN PROFESSIONAL shall prepare a written draft Work Plan. CITY will provide the format and a guideline for the information to be included in the Work Plan. The Work Plan for the project includes, at a minimum the following:
  - a. A summary of dedicated key team members roles and responsibilities, including all field crew leaders and contact information.
  - b. A summary of the project's scope of services.
  - c. Detailed cost-loaded schedule for performance of all work. The cost-loaded schedule shall indicate the planned value of work to be invoiced on a monthly basis through project completion.
  - d. Define any issues requiring special coordination with CITY, and/or adjacent projects.
2. **Submitting Work Plan.** Submit the draft Work Plan (a single electronic file in portable document format - PDF) within 30 calendar days of the notice to proceed. CITY will review the draft Work Plan and provide comments within 14 calendar days of receipt of the draft Work Plan. Revise the draft Work Plan as necessary to respond to CITY's comments and submit 2 printed copies of the final Work Plan and a single electronic PDF file within 14 calendar days of receipt of CITY's comments. The Work Plan shall be updated and maintained throughout the project, with updates provided to CITY when requested.

**Task 107 Monthly Progress Meetings**

Participate in up to thirteen (13) progress meetings with CITY to provide updates on work progress, budget and schedule status, current issues, variances in the potential scope of work. Anticipated future activities and CITY action items shall be discussed. DESIGN PROFESSIONAL shall prepare and submit an agenda to CITY prior to each meeting and prepare/distribute meeting minutes.

## **TASK SERIES 200 - PUBLIC INVOLVEMENT AND COORDINATION**

### **Task 201 Smoke Testing Notification and Door Hangers**

Prior to mobilizing for smoke testing activities, the DESIGN PROFESSIONAL shall distribute mailers to all affected properties owners. DESIGN PROFESSIONAL shall provide City with a project boundary and the City will provide mailing addresses from the customer service system.

Prior to beginning smoke testing activities, DESIGN PROFESSIONAL shall distribute a project-specific door hanger providing notification of smoke testing. The City will be responsible for drafting the door hanger. The DESIGN PROFESSIONAL shall be responsible for printing and distribution of the door hangers per Task 302.

### **Task 202 Communication with Property Owners**

Assist City with responding to inquiries from businesses and property owners throughout the duration of the smoke testing, dye testing, and preliminary design phase of the project. Document communications with property owners and promptly provide copies of said documentation to the City. The City shall respond to requests for information from public officials and the media.

Assist the City in identifying up to 40 property owners within the basin to directly communicate and coordinate field activities. These property owners shall include large warehouses, factories, hospitals, schools, nursing homes or other facilities that could be substantially impacted by smoke testing work. The DESIGN PROFESSIONAL shall coordinate on-site meeting with an owner's representative, provide materials prepared as part of Task 201, coordinate schedule of field activities, including access to property to perform and monitor smoke and dyed water testing. If the estimate above is not adequate, the additional large property owners, over the estimate above, shall be added as Optional Services.

## **TASK SERIES 300 - FLOW AND RAINFALL DATA ANALYSES**

### **Task 301 Review and Analyze Flow and Rainfall Monitoring Data**

DESIGN PROFESSIONAL shall review the pre-rehabilitation flow and rainfall data for eight flow monitoring and up to three rain gauge locations within Line Creek/Rock Creek Project Area 4. Flow and rainfall data (from the 2018 monitoring period) will be provided by CITY. DESIGN PROFESSIONAL will perform analyses of the data in accordance with Section 5 of the March 2017, Flow Metering and Data Analysis Protocol (FMDA). Analyses activities include, but are not limited to:

1. Analysis of flow and rainfall monitoring data
2. Determination of Average Daily Dry Weather Flow (ADDF)
3. Determination of high groundwater infiltration
4. Determination of inflow

5. Determination of Peak System Flow Rates vs. System Capacity
6. Preparation of Volumetric and Statistical Analyses

**Task 302** Submit Flow and Rainfall Monitoring Data Analysis Report

Submit the following for CITY review:

1. Two (2) printed copies and one PDF copy of the Draft Flow and Rainfall Monitoring Data Analysis Report for determination of I/I quantities for pre-rehabilitation conditions as described in Section 5 of the FMDA Protocol.
2. Two (2) printed copies and one PDF copy of the Final Flow and Rainfall Monitoring Data Report for determination of I/I quantities for pre-rehabilitation conditions that incorporates review comments and input from the CITY.

**TASK SERIES 400 - SMOKE TESTING AND DYED WATER TESTING**

**Task 401** Smoke Testing Notification

Daily notification of smoke testing to the City specified dispatcher and City Police and Fire Departments. Distribute smoke testing door hangers to affected residents no later than 48 hours prior to smoke testing. Notification procedures shall be conducted in accordance with requirements found in the October 2015, Smoke Testing Protocol.

**Task 402** Smoke Testing

Following receipt of system characterization data from the CITY, perform smoke testing on up to approximately 246,000 linear feet of sewer pipe on pipe segments 8" up to 54" in the project area to identify I/I sources from both the public and private sector. Develop field maps using system data provided by the CITY. Smoke testing shall be completed in accordance with requirements found in the WSD Smoke Testing Protocol, dated October 2015. Suspect inflow sources shall not be allowed to be submitted on inspection forms or in the database(s). All potential inflow sources identified during field activities shall be fully investigated at the time they are initially found to confirm whether or not the source exists. No private property building inspections shall be performed. Confirmation of repair solutions must be reviewed and confirmed during design. Payment for smoke testing shall be based on the approximate linear feet of pipe listed below on a per foot basis as listed in Attachment D.

**Task 403** Dyed Water Testing

Dyed water testing of certain confirmed and suspected I/I sources identified by smoke testing shall be performed at up to 10 public and 10 private locations in each project area to verify their direct connection to the sewer system. Obtain approval and coordinate locations for dyed water testing with CITY. Presence of dyed water in the sewer system downstream of the test verifies the I/I source connection. Dyed water testing shall be completed in accordance with requirements found in the WSD Dyed Water Testing Protocol dated September 2013 to identify I/I sources from both the public and private sector. Suspect inflow sources shall not be allowed to be submitted on inspection forms or in the database(s). All potential inflow sources identified during field activities

shall be fully investigated at the time they are initially found to confirm whether or not the source exists. Solutions on specifically what to fix or repair to remove these inflow sources shall be made by experienced personnel at the time of the field confirmation, not during office analysis. Repair solutions shall be reviewed and confirmed during design. These potential inflow sources may include downspouts, broken private lateral cleanout caps, driveway drains, area drains, exterior stairwell drains, and other public or private infrastructure. Photographic records shall be made of each confirmed source identified during dyed water testing. All dyed-water tests shall be recorded on CITY field forms. Payment for each dyed water test shall be based on a unit price basis for each test as listed in Attachment D.

**Task 404 Dye Testing Smoke Testing Defect Summary**

Summarize I/I sources identified from smoke and dye testing. A running summary of identified I/I sources during the course of the project shall be kept for progress meeting review.

**TASK SERIES 500 - FIELD DATA EVALUATIONS AND REHABILITATION RECOMMENDATIONS**

**Task 501 Field Data Review**

1. **Identify and List Defects.** Review CCTV inspection video and manhole inspection data provided by the CITY and smoke and dye testing results obtained by the DESIGN PROFESSIONAL. The reviews should identify defects in main sewers, manholes, and service lateral connections, as well as private defects. Reference the applicable WSD protocols for field data evaluation guidance and the WSD Guidance Documents for design guidance. Reference documents include:
  - a. Manhole Inspection Protocol, July 2014
  - b. Smoke Testing Protocol, October 2017
  - c. CCTV Investigation Protocol, July 2016
  - d. Dyed Water Testing Protocol, September 2013
  - e. Flow Metering and Data Analysis Protocol, March 2017
  - f. I/I Quantification and Rehabilitation Selection Guidance Document (I/I Document), July 2015
2. **Assign NASSCO Quick Rating to Assets.** Modify if necessary the NASSCO Quick Rating (QR) score assigned to each sewer main segment during CCTV inspections. Include both structural and I/I defects in the NASSCO QR. Do not consider maintenance related defects that do not contribute to I/I in the QR score.
3. **Assign I/I to Assets.** Assign I/I flow rates to each defect identified through manhole inspections and main sewer CCTV investigations. Smoke and dyed water testing data shall be used to supplement the defects identified by manhole and CCTV inspections and to help determine the severity of defects. I/I flow rates shall be assigned per the I/I Document. Follow the guidelines in the document to calculate a Project Specific



Adjustment Factor for each basin to be applied to the unit defect flow rates. Using the adjusted unit defect flow rates, calculate the I/I rate per asset.

4. **I/I Flow Balance.** An I/I flow balance shall be conducted by comparing identified I/I from source defects to actual basin flow monitoring results as determined under Task Series 300. I/I percentages for manholes and main sewers as compared to total basin I/I shall be calculated.
5. **Submittals.** The following information shall be submitted to the CITY a minimum of 10 days prior to the I/I Quantification Workshop to be performed under Task 502. The following information shall be provided per sub-basin. Example tables and graphs are included in the I/I Document and are referenced in parentheses below.
  - a. Master Defect Database (Figure 1) – Database to include line segments and manholes. Do not include costs for this submittal.
  - b. I/I Flow Rate versus Asset (Figure 2) – Provide separate graphs for line segments and manholes.
  - c. Main Sewer Segment QR Grade Classification Summary Table (Figure 3)
  - d. Manhole Condition Summary Table (Figure 5)
  - e. Monitored and Defect I/I Table (Figure 7)
  - f. Basin Characteristics

#### **Task 502 I/I Quantification Workshop**

Arrange and facilitate a workshop, up to two hours in length, with the CITY's representative to present the results of the I/I assignments and flow balance. The CITY will review the information and provide any recommendations on the I/I quantification to the DESIGN PROFESSIONAL. Document comments received during the workshop and any action items. Prepare workshop meeting minutes and submit to CITY within 10 days of the workshop.

#### **Task 503 Preliminary Assets Recommended for Repair**

1. **Identify Assets for Repair Recommendations.** Identify for further review all sewer segments that have major defects (for example pipes with a QR 4100 or greater). Also, identify sewer segments that fall within the effective area of the knee of the curve as identified at the I/I Quantification Workshop.

Identify manholes for further review if there is one or more component that receives a defect rating of "poor" or there is one or more component that receives an I/I rating of "medium" or "heavy". Also, identify manholes that fall within the effective area of the knee of the curve as identified at the I/I Quantification Workshop.

2. **Determine Repairs to Assets.** Develop recommended methods for rehabilitation of main sewer segments, manholes, and private lateral connections including:
  - a. Point repairs for localized defects
  - b. Complete replacement of manholes and main sewer segments using open cut

methods or pipe bursting

- c. Cured-in-place lining
- d. Cementitious/epoxy manhole lining
- e. Alternate CITY approved rehabilitation methods

Assign a method of repair to each main sewer segment and manhole being recommended for rehabilitation.

The connections for all private service laterals on main sewer segments identified for rehabilitation shall be identified for rehabilitation for a minimum distance of 18". Lateral rehabilitation shall address the need for repair of the lateral connection as identified during CCTV of the main sewer segment. Identify all service laterals for which reinstatement may not be needed based on CCTV inspection review. Service laterals shall be identified by service address.

3. Assign Costs. Develop asset repair costs for main sewer segments, manholes, and service laterals. The cost of rehabilitation per main sewer segment shall include the cost for service lateral rehabilitation. Cost shall be determined using rehabilitation cost data provided by the City.
4. Diminishing Returns Analysis. Calculate the cost-effectiveness ratio to remove I/I by dividing the estimated rehabilitation cost per asset by the calculated I/I flow contributed per asset.

Provide an Excel spreadsheet with the assets sorted by cost-effectiveness with the most cost-effective assets (lowest cost per I/I removed) at the top. Include in the spreadsheet the asset I/I and asset cost as well as the cumulative I/I and cumulative cost.

Prepare a graph of the cumulative dollars per gallon per day (\$/gpd) versus the percent I/I removed. Identify the point of diminishing returns on the graph. Provide a comparison of recommended segments to be rehabilitated to those determined under Task 502.

5. Maps of Assets to Repair. Prepare two maps. The first map shall include color coding of main sewer segments based on their NASSCO QR. Color coding shall be based upon the highest defect grade (3, 4, or 5), but pipes with QR ratings of 0,1, or 2 do not need to be color coded. Label segments with pipe diameter, QR, and number of defects which contribute I/I. Color code any manhole based on a condition rating of "fair" or "poor". Rating shall be based on the worst condition rating identified per manhole.

The second map will be of all main sewer segments and manholes recommended for repair. Color code the assets based on the type of recommended repair. Label segments with pipe diameter, QR, and cost-effectiveness to repair (\$/gpd).

#### **Task 504 Private I/I Source Identification**

Identify private inflow sources for possible disconnection from the sewer system. Log all defects found on each private property parcel identified by address. Private defect addresses shall also be associated with a public asset (i.e. list the public sewer main where the lateral is connected). Private property defects shall not be included in the accumulated defect flows calculated for the Public I/I

evaluation. All private I/I logs shall be provided to the CITY. Include recommendations for disconnection of inlets, area drains, and other public direct inflow sources.

**Task 505 Preliminary Design Workshop**

Arrange and facilitate a preliminary design workshop, up to two hours in length, with the CITY to present assets to be repaired, rehabilitated, or replaced, estimated I/I removal amounts, and estimated costs. CITY construction budget will be discussed. The CITY will review the information and provide input on the assets to be included in the preliminary design documents. Document comments received during the workshop and any action items. Prepare workshop meeting minutes and submit to CITY within 10 days of the workshop.

**Task 506 Finalize Assets Recommended for Repair**

Finalize asset selection for repair based on comments received at the Preliminary Design Workshop. Include the following in the recommendations:

1. Work Orders and Basement Backup Data. Consider and incorporate CITY's list of historical and outstanding work orders and basement backup data into the rehabilitation recommendations.
2. Total System Approach. Manholes on both ends of a main sewer segment identified for rehabilitation or replacement are to be rehabilitated with a lining material or replaced. A main sewer segment not recommended for rehabilitation but that is located between segments receiving rehabilitation or replacement should be evaluated to determine if it is cost effective to rehabilitate or replace.

**Task 507 Preliminary Opinion of Probable Construction Cost**

Prepare a preliminary opinion of probable construction cost for assets recommended for rehabilitation or replacement. This estimate shall be a Class 3 estimate consistent with AACE standards. The expected accuracy on the low end shall be -10 to -20 percent and the expected accuracy on the high end shall be from +10 to +30 percent.

**Task 508 Draft Preliminary Design Report**

Prepare a draft report of the findings from the field data review, I/I quantification, and preliminary recommendations for system rehabilitation for the project area as described in Tasks 501 to 507. The draft report shall include at a minimum the following sections:

1. Executive Summary
2. Introduction
3. Summary of Existing System Field Investigations
4. I/I Quantification
5. Preliminary Rehabilitation Analysis
6. Recommended Improvements

7. Estimated I/I Removal
8. Private Sector I/I
9. Preliminary Opinion of Probable Construction Cost
10. Conclusions

Prepare draft main sewer and manhole rehabilitation schedules in MS Excel format and submit as appendices to the Draft Preliminary Design Report.

Provide updated rehabilitation maps for submittal with the Draft Preliminary Design Report. The map shall include all main sewer segments and manholes recommended for repair. Color code the assets based on the type of recommended repair. Label segments with pipe diameter, QR, and cost-effectiveness to repair (\$/gpd).

Submit to the CITY two printed copies and one PDF file of the Draft Preliminary Design Report.

**Task 509 Final Preliminary Design Report**

Incorporate draft review comments into the Final Preliminary Design Report. Submit to the CITY two printed copies and one PDF file of the Final Preliminary Design Report within 30 days of receiving review comments from the CITY.

**TASK SERIES 600 - DEVELOPMENT OF 50% COMPLETE DESIGN DOCUMENTS FOR SEWER SYSTEM REHABILITATION**

**Task 601 Develop 50% Design Documents**

After submittal of the final design report and approval of recommended rehabilitation measures, prepare 50% design schedules and drawings for review by CITY. The 50% design level schedules and drawings shall include a draft of the rehabilitation maps and schedules for manhole, mainline and private lateral connection rehabilitation within the CITY right of way or permanent sanitary sewer easement.

Contract drawings are not required. Maps for rehabilitation will be generated from the CITY's GIS data. Maps will include CITY's orthophoto data or LIDAR/parcels as selected by CITY, all manhole numbers, and will highlight manholes and mainlines to be rehabilitated. Location of service laterals shall be tabulated on the maps.

The DESIGN PROFESSIONAL's services shall be based on the following understandings:

1. All of the sewer lines are located within existing permanent easements.
2. Construction Contractors shall have right of ingress and egress during construction and assume no temporary construction easements will be required.
3. Lateral line rehabilitation and repair performed in the right-of-way, if any, may be from the sewer main to sound pipe or to the approximate right-of-way line, as determined by the City. Right-of-way line shall be located based upon the City's GIS data and shall not be surveyed in the field.

4. Lateral line rehabilitation and repair performed in mainline sewer easements, if any, may consist of rehabilitation or repair of the mainline lateral connection and rehabilitation or repair of a portion of the lateral to the easement line, as determined by the City. Easement limits shall be established utilizing the City's GIS data. Research for identifying easement limits is not included in the basic scope of services and will be performed as an Optional Service once the lines recommended for rehabilitation have been determined

**Task 602 50% Opinion of Probable Construction Cost**

Prepare an updated Opinion of Probable Construction Cost based on the 50% Design documents developed and any comments received from the City from its review of the Preliminary Opinion of Probable Construction Cost. The 50% cost opinion will be Class 2 consistent with AACE standards; the expected accuracy on the low end will be -5 to -15 percent and the expected accuracy on the high end will be from +5 to +20 percent.

**Task 603 50% Submittals**

Submit the following to CITY:

1. Two (2) half-size printed and bound sets of 50% design plan sheets and schedules.
2. PDF files of plans and 50% Opinion of Probable Construction Cost.
3. Two (2) printed copies of the 50% Opinion of Probable Cost.
4. PDF files of plans and 50% Opinion of Probable Construction Cost.

The CITY will distribute plans to the appropriate CITY departments and staff for review. The DESIGN PROFESSIONAL shall conduct a review meeting with City staff, up to two hours in length, to review the 50% deliverables and the CITY's review comments. The DESIGN PROFESSIONAL shall make corrections to the 50% submittal documents and submit the following to the CITY within 14 calendar days:

1. Two (2) half-size printed and bound sets of 50% design plan sheets and schedules.
2. PDF files of plans and 50% Opinion of Probable Construction Cost.
3. Electronic 50% Drawings – Per Attachment B.

**TASK SERIES 700 - GIS**

**Task 701 GIS Update**

The DESIGN PROFESSIONAL is to prepare and provide an updated ArcGIS 10.x geodatabase that follows the geodatabase schema provided by the CITY. DESIGN PROFESSIONAL is to update the GIS database based on construction design documents by the DESIGN PROFESSIONAL following the evaluation of CCTV, manhole inspection data, smoke testing, and dyed water testing. Any updates to the GIS database will be noted on the GIS feature by the DESIGN PROFESSIONAL.

DESIGN PROFESSIONAL understands the manhole inspections and CCTV inspections provided by the CITY in the first deliverable will not contain all manholes and sewers in the project area.

Manholes that could not be located, opened, or accessed and sewers that could not be accessed will not be included in the first deliverable. Throughout the course of design and CCTV, the CITY will continue to locate, open and access these manholes and sewers and complete manholes inspections. Upon DESIGN PROFESSIONAL's receipt of the second deliverable of manhole inspections and CCTV; DESIGN PROFESSIONAL shall incorporate the system characterization attributes associated with these inspections into the GIS update prior to submitting to the CITY.

DESIGN PROFESSIONAL shall assume an additional 10-15% of the total manholes and 5-10% of the total sewers will be delivered in a second inspection package.

The DESIGN PROFESSIONAL will be provided documentation that outlines the required GIS attributes per GIS layer to be edited and valid values for the attribute information. In addition to the required attribute fields being populated, DESIGN PROFESSIONAL is to ensure pipe to structure connectivity is maintained.

If the DESIGN PROFESSIONAL recommends removing or deleting a GIS feature, that feature must be added to a deleted feature class and provided to the CITY with a description of why the feature was deleted.

#### **TASK SERIES 800 - I/I QUANTIFICATION EVALUATION SUPPORT**

##### **Task 801 I/I Quantification Evaluation Peer Review and Meetings**

Participate in up to four (4) quantification review meetings with CITY WSD and Smart Sewer and Basin Engineers to discuss field data collection and analyses related to assigning and distributing I/I flow rates to sources. Provide review of data provided prior to these meetings, or thereafter. Discuss options or modifications for assigning I/I flow to identified sources.

##### **Task 802 I/I Quantification I/I Quantification Guidance Document Update**

Review Guidance Procedures for Basin Engineers for Assigning I/I – Review effectiveness of current guidelines for distributing and assigning I/I flow to identified defects. Utilize lessons learned from completed I/I Reduction projects by Basin Engineers. Summarize findings and suggested improvements to the guidelines in memorandum form. Prepare updated guidance document detailing agreed upon method for I/I distribution and assignment to identified sources.

#### **IV. OPTIONAL SERVICES**

Any work requested by the CITY that is not specifically stated in one of the Basic Scope of Services listed above shall be classified as Optional Services. DESIGN PROFESSIONAL's contract maximum upper limit for compensation includes an allowance amount for Optional Services not yet authorized by CITY that may be required throughout the course of the work. This allowance amount shall not be utilized unless specifically authorized in writing by the CITY to perform Optional Services. Optional Services shall not be performed, nor is the DESIGN PROFESSIONAL approved to utilize any of the allowance amount, unless the CITY provides written authorization to DESIGN PROFESSIONAL that includes the scope of work for each

Optional Service to be performed and a maximum billing limit for compensation that has been mutually agreed upon. Optional Services shall include, but not limited to:

- A. Performance of additional smoke testing in excess of footage quantity defined in the Basic Scope of Services.
- B. Performance of additional dyed water testing in excess of the quantity defined in the Basic Scope of Services.
- C. Additional project sites, sewer lines, and/or manholes beyond the quantification in the Base Scope of Services.
- D. Development of Final Construction Contract Documents (drawings and specifications)
- E. Meetings with local, State, or Federal agencies beyond those contemplated under the Basic Scope of Services.
- F. Appearances at public hearings or before special boards beyond those contemplated under the Basic Scope of Services.
- G. Field subsurface investigations, geotechnical investigations, environmental site assessments, or easement or right-of-way selection, preparation, negotiation, or acquisition work.
- H. Legal description and exhibits for easements obtained by CITY for point repair excavations, including topographic survey and related calls for utility locates.
- I. Assisting CITY with appraisal and/or acquisition of easements.
- J. Changes in the general scope, extent, design, or character of the project, including, but not limited to:
  - 1. Changes in size or complexity;
  - 2. CITY's project schedule, design, or character of construction;
  - 3. Method of financing or availability of funding;
  - 4. A change to the method of construction procurement, which is assumed to be a conventional procurement approach (i.e. design-bid-build) herein; and
  - 5. A change to the number of bid packages, which is assumed herein to be one package.
- K. Providing Bid and Construction Phase Services.
- L. Providing Post Construction Flow Monitoring and data analysis.

#### **V. CITY'S RESPONSIBILITIES**

CITY will furnish, as required by Basic Services and not at the expense of the DESIGN PROFESSIONAL, the following items:

- A. Provide assistance by placing at DESIGN PROFESSIONAL's disposal available information pertinent to the assignment, including GIS data, CCTV and manhole inspection data, previous reports, drawings, specifications, sewer as-built records, plats, water-in-basement complaints, and any other data relative thereto. CITY will provide sewer system characterization data as determined by completed manhole inspections within 30 calendar

days of the CITY's Notice to Proceed. The total number of completed manhole inspections will be less than the number of manholes listed in Task 501. CITY will provide completed CCTV data in a single package no later than December 1, 2018. The total footage of CCTV data to be obtained will be less than 100% of the footage listed in Task 501. All other available information will be provided within thirty (30) calendar days of receipt of a written request from the DESIGN PROFESSIONAL.

- B. CITY's Project Manager will coordinate meetings between City staff and the DESIGN PROFESSIONAL.

(End of Scope of Services)



**ATTACHMENT B**  
**. ELECTRONIC DATA REQUIREMENTS**

**A. Kansas City Plan Room - Electronic Format Requirements and Naming Conventions**

1. In addition to other deliverables included in this Contract, items listed below are requirements to accommodate posting bids documents, plans and specifications on the Kansas City Plan Room.
2. Prime Design Professional/Consultant and Sub-Consultants shall adhere to the following electronic format requirements and use the naming conventions as set out below:
  - a. **Drawings/plans**
    - (1) Drawings/plans should be rendered as 200-300 dpi PDF Format images. No files may be larger than 5 megabytes in size. Plans/Drawings numbering should follow Form 00015 List of Drawings.
    - (2) File names may not include any symbols such as < > : . " / \ | ? ' & # % ^ \* ( ) [ ] { } +
    - (3) FILE NAMES: Plans/Drawings numbering should follow Form 00015 List of Drawings. All plans should be named in the following manner: three digit sequential number-brief descriptor. For example: 001-Cover.pdf or 002-arc1.pdf
  - b. **CSI specification sections (project manuals)**
    - (1) CSI specification sections should be named by division, using DIV as a prefix.  
For example:
      - (a) DIV01.PDF (Technical, Project Specific)
      - (b) DIV02.PDF
      - (c) DIV03.PDF
  - c. **Summary:**
    - (1) Division 00 and 01 in Microsoft Word or Excel
    - (2) Division 2-16 in PDF Format
    - (3) Completed document originals of Plans and Diagrams of project must be submitted as 200-300 dpi PDF Format images.

**ATTACHMENT C**

**ENGINEER FEE SUMMARY AND  
SCHEDULE OF POSITION CLASSIFICATIONS**

Kansas City, MO  
 Water Services Department  
 Line Creek/Rock Creek Project Area 4 MI Reduction  
 By: Deron Huck  
 CH2M HILL Project #  
 April 22, 2018, revised May 8, 2018 with optional services

HRD Form	Goal
Sub Expense - SE3 (MBE)	15.00% MBE
Sub Expense - TREKK (WBE)	5.00% MBE
Sub Expense - EAE (WBE)	5.00% WBE

### Budget Estimate

Task #	Task Description	PM D Huck	Total Sub Cost	Cost	Hours	Cost Subtotal
	Average Billing Rate thru 12/31/2019	\$ 263				
<b>100</b>	<b>PROJECT MANAGEMENT AND ADMINISTRATION</b>					
101	Project Management Services (13 months)	82	\$ 12,066	\$ 37,252		
102	Monthly Invoices and Project Status Reports	28	\$ -	\$ 15,678		
103	Subcontractor Agreements and Administration	24	\$ -	\$ 8,472		
104	Quality Control	24	\$ -	\$ 12,384		
105	Project Kickoff Meeting	4	\$ -	\$ 2,280		
106	Work Plan	8	\$ -	\$ 6,208		
107	Monthly Progress Meetings	36	\$ -	\$ 14,904	504	\$ 97,158.00
<b>200</b>	<b>PUBLIC INVOLVEMENT AND COORDINATION</b>					
201	Smoke Testing Notification and Door Hangers	1	\$ 4,720	\$ 5,951		
202	Communication with Property Owners	1	\$ 4,720	\$ 5,951	90	\$ 11,518.00
<b>300</b>	<b>FLOW AND RAINFALL MONITORING PLANNING AND DATA ANALYSIS</b>					
301	Review and Analyze Flow and Rainfall Monitoring Data	24	\$ -	\$ 22,948		
302	Submit Flow & Rainfall Data Monitoring Analysis Report	8	\$ -	\$ 11,236	280	\$ 34,182.00
<b>400</b>	<b>SMOKE TESTING AND DYED WATER TESTING</b>					
401	Smoke Testing Notification		\$ 472	\$ 1,478		
402	Smoke Testing		\$ 131,900	\$ 136,248		
403	Dyed Water Testing (10 public, 10 private)		\$ 4,700	\$ 5,548		
404	Dye Testing Defect Summary	4	\$ 2,832	\$ 7,688		
405	Deliverables	4	\$ 5,564	\$ 9,118	130	\$ 160,102.00
<b>500</b>	<b>FIELD DATA EVALUATION AND REHABILITATION RECOMMENDATIONS</b>					
501	Field Data Review	18	\$ 43,860	\$ 55,932		
502	MI Quantification Workshop	18	\$ -	\$ 20,544		
503	Preliminary Assets Recommended for Repair	24	\$ 18,880	\$ 44,080		
504	Private MI Source Identification	4	\$ -	\$ 7,684		
505	Preliminary Design Workshop	18	\$ -	\$ 20,490		
506	Finalize Assets Recommended for Repair	18	\$ 10,384	\$ 24,848		
507	Preliminary Opinion of Probable Construction Cost	8	\$ -	\$ 11,500		
508	Final Preliminary Design Report	8	\$ 7,652	\$ 25,478		
509	Final Preliminary Design Report	8	\$ 2,632	\$ 14,140	1,798	\$ 225,604.00
<b>600</b>	<b>DEVELOP CONSTRUCTION CONTRACT DRAWINGS AND LIMITED SPECIFICATIONS FOR SEWER SYSTEM REHABILITATION</b>					
601	Develop 50% Design Documents	48	\$ -	\$ 63,456		
602	60% Opinion of Probable Construction Cost	8	\$ -	\$ 5,480		
603	50% Submittals	12	\$ -	\$ 9,022	688	\$ 81,938.00
<b>700</b>	<b>GIS</b>					
701	GIS Updates	2	\$ -	\$ 8,595	42	\$ 5,680.00
<b>800</b>	<b>MI QUANTIFICATION EVALUATION SUPPORT</b>					
801	MI Quantification Evaluation Peer Review and Meetings	24	\$ -	\$ 8,728		
802	MI Quantification Guidance Document Update	16	\$ -	\$ 11,254	104	\$ 19,832.00
	<b>Subtotal</b>	<b>472</b>	<b>\$ 253,862</b>	<b>\$ 637,290</b>	<b>3,822</b>	<b>\$ 637,205.00</b>
<b>IV</b>	<b>OPTIONAL SERVICES</b>					
	Miscellaneous		\$ -	\$ 77,600		
	<b>Subtotal</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 77,600</b>		<b>\$ 77,600.00</b>
	<b>Task Authorization Totals</b>	<b>472</b>	<b>\$ 253,862</b>	<b>\$ 716,000</b>	<b>3,822</b>	<b>\$ 716,800.00</b>

**ATTACHMENT C**

**I/I Reduction: Line Creek/Rock Creek Project Area 4  
Project No. 81000718  
Contract No. 1402**

**Schedule of Position Classifications**

Employee Classification	Hourly Raw Labor Rate Range	
	Minimum	Maximum
Principal	\$ 74.01	\$ 108.55
Project Manager	\$ 65.79	\$ 98.36
Quality Manager	\$ 60.86	\$ 95.39
Senior Project Engineer	\$ 52.63	\$ 74.01
Engineer III	\$ 41.12	\$ 60.86
Engineer II	\$ 32.89	\$ 49.34
Engineer I	\$ 24.67	\$ 39.47
GIS Specialist	\$ 24.67	\$ 46.05
Office Technician III	\$ 19.74	\$ 39.47
CAD Technician	\$ 19.74	\$ 52.63
Survey Manager	\$ 24.67	\$ 65.79
Field Technician	\$ 16.45	\$ 50.99
Field Manager	\$ 32.89	\$ 85.53
Project Accountant	\$ 8.22	\$ 47.70
Contracts Administrator	\$ 32.89	\$ 77.30
Health & Safety Manager	\$ 24.67	\$ 78.95
GIS Technician/Programmer	\$ 39.47	\$ 62.50
Senior Office Technician	\$ 32.89	\$ 49.34
Project Assistant	\$ 19.74	\$ 49.34
Clerical/Admin	\$ 14.80	\$ 36.18

**Notes:**

- 1) Hourly billing rates will be at the 3.04 multiplier x actual raw labor hourly rate
- 2) Rates were established for the period of calendar years 2018 and 2019
- 3) Labor rate increases may occur throughout the calendar year
- 4) Project rate ranges include variations from the average for differences in individual staff compensation

**ATTACHMENT D**  
**UNIT PRICES**

**ATTACHMENT D**

**I/I Reduction: Line Creek/Rock Creek Project Area 4  
Project No. 81000718  
Contract No. 1402**

**UNIT COST SCHEDULE**

<b>Item</b>	<b>Rate<sup>1</sup></b>
Car, Survey Truck, or Van Mileage (per mile) <sup>2</sup>	\$0.545
Smoke Testing Field Only (per linear foot)	\$0.55
Dyed Water Testing - Public Field Only (each)	\$310.00
Dyed Water Testing - Private Field Only (each)	\$160.00
Dyes Water Testing - Public Source with CCTV (per Hour)	\$300.00

**Notes:**

- 1) Rates were established for the period of calendar years 2018 and 2019
- 2) Mileage rate based on current IRS rate, subject to change periodically

## ATTACHMENT E

### CITY – LICENSED GEOGRAPHICAL INFORMATION SYSTEM DATA

CITY will provide licensed materials for Geographical Information Systems to be used for the project as follows:

**Grant of License.** CITY grants to DESIGN PROFESSIONAL and DESIGN PROFESSIONAL hereby accepts, upon the express terms and conditions contained in this Agreement, a non-exclusive License to use the information described herein in the form produced and maintained by the Geographical Information System produced and maintained by City.

**License Materials.** The materials licensed for use by DESIGN PROFESSIONAL under this Agreement are the forms which can be read or manipulated by computer of the geographical and physical characteristic information collected and assimilated in the records of City (“Licensed Materials”).

**Use of Licensed Materials.** Subject to the terms, conditions and prohibitions of this Agreement, DESIGN PROFESSIONAL shall be entitled to use the information contained in the Licensed Materials to accomplish the scope of services provided by DESIGN PROFESSIONAL. At the completion of the Agreement, DESIGN PROFESSIONAL shall return all materials to the CITY, and shall permanently remove the Licensed Materials from any media used by DESIGN PROFESSIONAL. At the end of the Agreement, DESIGN PROFESSIONAL shall provide a written certification that all materials are returned and that all Licensed Materials, including copies, have been removed from the equipment or media of DESIGN PROFESSIONAL.

**Transfer of Licensed Materials.** This license is expressly nontransferable and DESIGN PROFESSIONAL shall not transfer any interest, entitlement or obligation under this Agreement to any other person or entity.

**Data.** The data and information contained in the Licensed Materials shall be those files and systems as recorded and existing as of the time DESIGN PROFESSIONAL requests the information.

**Title.** The custody and title and all other rights and interests in the Licensed Materials are and shall at all times remain with the CITY and with the Offices or officials of the CITY having official custody of the Licensed Materials.

**Not Public Records.** The database in the form of the Licensed Materials is proprietary, intellectual property of the CITY and shall not be considered or deemed as open, public records, except as provided in §256.670, RSMo. DESIGN PROFESSIONAL shall and hereby expressly agrees that it will, recognize the property interests of CITY and CITY agrees that it is not, pursuant to this License, a custodian of any open, public records, except as may exist pursuant to §256.670 RSMo.

**Access to Materials.** Pursuant to the terms and conditions of this agreement, DESIGN PROFESSIONAL shall be provided access to obtain the Licensed Materials in a periodic basis for the term of this Agreement. As provided in this Agreement, DESIGN PROFESSIONAL, shall be entitled to any Modifications, updates, renewals or additional data or information under the License granted by this Agreement.

**Updated Material and Modifications.** CITY shall in accordance with this Agreement and upon request of the DESIGN PROFESSIONAL provide to DESIGN PROFESSIONAL updates to or modifications of all or any specific parts of the data or information in the Licensed Materials. Any such updates or modifications provided by CITY shall be covered by and subject to each and all of the terms and conditions of this Agreement. Furthermore, upon completion or termination of this Agreement, DESIGN PROFESSIONAL, will provide to CITY in a compatible form, updated information developed during the execution of the Scope of Services provided by DESIGN PROFESSIONAL.

**Data Contents.** The data contained in the materials licensed by CITY to DESIGN PROFESSIONAL under this Agreement shall include that information necessary to allow DESIGN PROFESSIONAL to perform scope of services outlined in the Agreement.

**Waiver.** The waiver of any breach of any provision of this license shall not constitute a waiver of any subsequent breach of the same or other provisions of the Agreement.

**Modifications.** Any modification to the rights provided herein for licensed materials shall be in writing executed by each party.



# **ATTACHMENT F**

## **HRD DOCUMENTS**

1. 00450 HRD Form 08: Contractor Utilization Plan & Request for Waiver
2. 00450.01: HRD Letter of Intent to Subcontract
3. 00460 HRD Form 10: Timetable for MBE/WBE Utilization
4. 00470 HRD Form 11: Request for Modification or Substitution
5. 01290.14: Contractor Affidavit for Final Payment
6. 01290.15: Subcontractor Affidavit for Final Payment



# HRD Contractor Utilization Plan Approval

Date: April 27, 2018  
 To: Mr. Phillip Yelder, Human Relations Department  
 From: Porsche Townsend, Smart Sewer Program  
 Subject: Contract/Project No.: 1402/81000748 **802**  
 Project Title: Line Creek/Rock Creek Project Area 4 Inflow and Infiltration (I/I) Reduction Project

<b>Funding:</b>	<input checked="" type="checkbox"/> City (MBE/WBE/DBE)	<input type="checkbox"/> Federal (DBE) <sup>1</sup>	<input type="checkbox"/> State (DBE) <sup>1</sup> - Grant	<input type="checkbox"/> Other:
<b>Contract Category:</b>	<input type="checkbox"/> Construction	<input type="checkbox"/> General Service	<input type="checkbox"/> Facility Repair	<input type="checkbox"/> Professional Services
	<input checked="" type="checkbox"/> Design Professional		<input type="checkbox"/> Concession	<input type="checkbox"/> Other:
<b>Bid/Proposal Closing Date:</b>	12/21/2017		<b>No. of Bidders/Proposers:</b> 13	
<b>Recommended Bid/Proposal<sup>2</sup>:</b>	\$715,000.00			
<b>Company:</b> CH2M Hill Engineers, Inc.	<b>Address:</b> 2300 Main Street, Suite 325		Kansas City, MO 64108	
<b>Contact:</b> Deron Huck	<b>Phone:</b> (816)533-7308			
<b>Contact Email:</b> <a href="mailto:deron.huck@lacoba.com">deron.huck@lacoba.com</a>	<b>Fax:</b> (816)421-5560			
<b>Additional Information:</b>				

cc: Project Manager: Willie Williams ([wwilliams@burnsmcd.com](mailto:wwilliams@burnsmcd.com)) or (816)447-9871)

<b>FOR HUMAN RELATIONS DEPARTMENT USE ONLY</b>	
The attached Contractor Utilization Plan is:	
<input checked="" type="checkbox"/> Approved	The Request for Best Faith Efforts Waiver is:
<input type="checkbox"/> Disapproved	<input type="checkbox"/> Approved
	<input type="checkbox"/> Disapproved
	<input type="checkbox"/> Not Applicable
Contractor Utilization Plan Participation: <u>15</u> % MBE & <u>10</u> % WBE or _____ % DBE	<u>05/09/18</u>
Human Relations Department	Date

<b>FOR GRANTING AGENCY USE ONLY<sup>3</sup></b>	<input type="checkbox"/> N/A
Approved by: _____	Date: _____

<sup>1</sup> DBE Programs apply to specific federal or state grant requirements.  
<sup>2</sup> The dollar figure here should match the approved Bid/Proposal recommendation or amendment preparation checklist on file with the requesting department.  
<sup>3</sup> Federal and state grant agreements may require granting agency approval of contract goals.

# CONTRACTOR UTILIZATION PLAN/REQUEST FOR WAIVER

Project Number 8100718

Project Title I/I Reduction: Line Creek/Rock Creek Project Area 4

8100718 Water Services  
(Department Project) Department

CH2M HILL Engineers, Inc.  
(Bidder/Proposer)

STATE OF Missouri )  
 ) ss  
COUNTY OF Jackson )

I, Deron Huck, of lawful age and upon my oath state as follows:

1. This Affidavit is made for the purpose of complying with the provisions of the MBE/WBE submittal requirements on the above project and the MBE/WBE Program and is given on behalf of the Bidder/Proposer listed below. It sets out the Bidder/Proposer's plan to utilize MBE and/or WBE contractors on the project.
2. The project goals are 15 % MBE and 10 % WBE. Bidder/Proposer assures that it will utilize a minimum of the following percentages of MBE/WBE participation in the above project:

**BIDDER/PROPOSER PARTICIPATION: 15 % MBE 10 % WBE**

3. The following are the M/WBE subcontractors whose utilization Bidder/Proposer warrants will meet or exceed the above-listed Bidder/Proposer Participation. Bidder/Proposer warrants that it will utilize the M/WBE subcontractors to provide the goods/services described in the applicable Letter(s) of Intent to Subcontract, copies of which shall collectively be deemed incorporated herein. *(All firms must currently be certified by Kansas City, Missouri)*

- a. Name of M/WBE Firm SE3, LLC. (MBE)  
Address 5806 Brighton, Kansas City, MO 64130  
Telephone No. 816-272-5545  
I.R.S. No. 20-1307980

- b. Name of M/WBE Firm TREKK Design Group, Inc. (WBE)  
 Address 1411 E 104<sup>th</sup> St. Kansas City, MO 64131  
 Telephone No. 816-874-4655  
 I.R.S. No. 49-1953275
  
- c. Name of M/WBE Firm Environmental Advisors and Engineers, Inc. (WBE)  
 Address 19211 W. 64<sup>th</sup> Terrace, Shawnee, KS 66208  
 Telephone No. 913-599-4326  
 I.R.S. No. 43-1806626
  
- d. Name of M/WBE Firm \_\_\_\_\_  
 Address \_\_\_\_\_  
 Telephone No. \_\_\_\_\_  
 I.R.S. No. \_\_\_\_\_
  
- e. Name of M/WBE Firm \_\_\_\_\_  
 Address \_\_\_\_\_  
 Telephone No. \_\_\_\_\_  
 I.R.S. No. \_\_\_\_\_
  
- f. Name of M/WBE Firm \_\_\_\_\_  
 Address \_\_\_\_\_  
 Telephone No. \_\_\_\_\_  
 I.R.S. No. \_\_\_\_\_

*(List additional M/WBEs, if any, on additional page and attach to this form)*

4. The following is a breakdown of the percentage of the total contract amount that Bidder/Proposer agrees to pay to each listed M/WBE:

**MBE/WBE BREAKDOWN SHEET**

**MBE FIRMS:**

Name of MBE Firm	Supplier/Broker/Contractor	Subcontract Amount*	Weighted Value**	% of Total Contract
<u>SE3, LLC</u>	<u>Contractor</u>	<u>\$107,250</u>	<u>\$107,250</u>	<u>15%</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

\_\_\_\_\_

\_\_\_\_\_

**TOTAL MBE \$ / TOTAL MBE %:** \$ 107,250 15 %

**WBE FIRMS:**

Name of WBE Firm	Supplier/Broker/Contractor	Subcontract Amount*	Weighted Value**	% of Total Contract
TREKK Design Group, Inc.	Contractor	<u>\$35,750</u>	<u>\$35,750</u>	<u>5%</u>
<u>Environmental Advisors</u>				
and Engineers, Inc.	Contractor	<u>\$35,750</u>	<u>\$35,750</u>	<u>5%</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
<b>TOTAL WBE \$ / TOTAL WBE %:</b>		<u>\$ 71,500</u>		<u>10 %</u>

\*“Subcontract Amount” refers to the dollar amount that Bidder/Proposer has agreed to pay each M/WBE subcontractor as of the date of contracting and is indicated here solely for the purpose of calculating the percentage that this sum represents in proportion to the total contract amount. Any contract amendments and/or change orders changing the total contract amount may alter the amount due an M/WBE under their subcontract for purposes of meeting or exceeding the Bidder/Proposer participation.

\*\*“Weighted Value” means the portion of the subcontract amount that will be credited towards meeting the Bidder/Proposer participation. See HRD Forms and Instructions for allowable credit and special instructions for suppliers.

- Bidder/Proposer acknowledges that the monetary amount to be paid each listed M/WBE for their work, and which is approved herein, is an amount corresponding to the percentage of the total contract amount allocable to each listed M/WBE as calculated in the MBE/WBE Breakdown Sheet. Bidder/Proposer further acknowledges that this amount may be higher than the subcontract amount listed therein as change orders and/or amendments changing the total

contract amount may correspondingly increase the amount of compensation due an M/WBE for purposes of meeting or exceeding the Bidder/Proposer participation

6. Bidder/Proposer acknowledges that it is responsible for considering the effect that any change orders and/or amendments changing the total contract amount may have on its ability to meet or exceed the Bidder/Proposer participation. Bidder/Proposer further acknowledges that it is responsible for submitting a Request for Modification or Substitution if it will be unable to meet or exceed the Bidder/Proposer participation set forth herein.
7. If Bidder/Proposer has not achieved both the M/WBE goal(s) set for this Project, Bidder/Proposer hereby requests a waiver of the MBE and/or WBE goal(s) that Bidder/Proposer has failed to achieve
8. Bidder/Proposer will present documentation of its good faith efforts, a narrative summary detailing its efforts and the reasons its efforts were unsuccessful when requested by the City.
9. I hereby certify that I am authorized to make this Affidavit on behalf of the Bidder/Proposer named below and who shall abide by the terms set forth herein:

Bidder/Proposer primary contact: Deron Huck  
Address: 2300 Main Street, Suite 325  
Kansas City, Missouri 64108  
Phone Number: 816-533-7308  
Facsimile number: 816-421-5560  
E-mail Address: deron.huck@jacobs.com OR deron.huck@ch2m.com

By: *Deron Huck*  
Title: Business Vice President  
Date: 4/24/2018  
(Attach corporate seal if applicable)

Subscribed and sworn to before me this 24 day of April, 2018  
My Commission Expires: 7/30/19 *Christine Esser*  
Notary Public





# LETTER OF INTENT TO SUBCONTRACT

Project Number 81000718

Project Title I/I Reduction: Line Creek/Rock Creek Project Area 4

CH2M HILL Engineers, Inc. ("Prime Contractor") agrees to enter into a contractual agreement with Environmental Advisors and Engineers, Inc. (WBE) ("MW/DBE Subcontractor"), who will provide the following goods/services in connection with the above-referenced contract:

(Insert a brief narrative describing the goods/services to be provided. Broad categorizations (e.g., "electrical," "plumbing," etc.) or the listing of the NAICS Codes in which MW/DBE Subcontractor is certified are insufficient and may result in this Letter of Intent to Subcontract not being accepted.)

Review of field data, rehabilitation prioritization, and report development.

for an estimated amount of \$ 35,750 or 5 % of the total estimated contract value.

MW/DBE Subcontractor is, to the best of Prime Contractor's knowledge, currently certified with the City of Kansas City's Human Relations Department to perform in the capacities indicated herein. Prime Contractor agrees to utilize MW/DBE Subcontractor in the capacities indicated herein, and MW/DBE Subcontractor agrees to work on the above-referenced contract in the capacities indicated herein, contingent upon award of the contract to Prime Contractor.

Signature: Prime Contractor

Deron Huck

Print Name

Business Vice President

Title

04/23/2018

Date

Signature: MW/DBE Subcontractor

Jill R. Biesma

Print Name

President 4/24/18

Title

Date



## LETTER OF INTENT TO SUBCONTRACT

Project Number 81000718

Project Title I/I Reduction: Line Creek/Rock Creek Project Area 4

CH2M HILL Engineers, Inc. ("Prime Contractor") agrees to enter into a contractual agreement with SE3, LLC. (MBE) ("M/W/DBE Subcontractor"), who will provide the following goods/services in connection with the above-referenced contract:

(Insert a brief narrative describing the goods/services to be provided. Broad categorizations (e.g., "electrical," "plumbing," etc.) or the listing of the NAICS Codes in which M/W/DBE Subcontractor is certified are insufficient and may result in this Letter of Intent to Subcontract not being accepted.)

Smoke Testing of sanitary sewer mains

for an estimated amount of \$107,250 or 15 % of the total estimated contract value.

M/W/DBE Subcontractor is, to the best of Prime Contractor's knowledge, currently certified with the City of Kansas City's Human Relations Department to perform in the capacities indicated herein. Prime Contractor agrees to utilize M/W/DBE Subcontractor in the capacities indicated herein, and M/W/DBE Subcontractor agrees to work on the above-referenced contract in the capacities indicated herein, contingent upon award of the contract to Prime Contractor.

Signature: Prime Contractor

Deron Huck  
Print Name

Business Vice President      04/23/2018  
Title                                      Date

Signature: M/W/DBE Subcontractor

Vernal Stewart  
Print Name

President                              04/25/2018  
Title                                      Date





# LETTER OF INTENT TO SUBCONTRACT

Project Number 81000718

Project Title I/I Reduction: Line Creek/Rock Creek Project Area 4

CH2M HILL Engineers, Inc. ("Prime Contractor") agrees to enter into a contractual agreement with TREKK Design Group, Inc. (WBE) ("M/W/DBE Subcontractor"), who will provide the following goods/services in connection with the above-referenced contract:

(insert a brief narrative describing the goods/services to be provided. Broad categorizations (e.g., "electrical," "plumbing," etc.) or the listing of the NAICS Codes in which M/W/DBE Subcontractor is certified are insufficient and may result in this Letter of Intent to Subcontract not being accepted.)

Coordination of smoke testing with large property owners, review of field data, rehabilitation prioritization, and report development.

for an estimated amount of \$ 35,750 or 5 % of the total estimated contract value.

M/W/DBE Subcontractor is, to the best of Prime Contractor's knowledge, currently certified with the City of Kansas City's Human Relations Department to perform in the capacities indicated herein. Prime Contractor agrees to utilize M/W/DBE Subcontractor in the capacities indicated herein, and M/W/DBE Subcontractor agrees to work on the above-referenced contract in the capacities indicated herein, contingent upon award of the contract to Prime Contractor.

*Deron Huck*  
Signature: Prime Contractor  
Deron Huck  
Print Name  
Business Vice President 04/23/2018  
Title Date

*Lukas Gillen*  
Signature: M/W/DBE Subcontractor  
LUKAS GILLEN  
Print Name  
ASSOCIATE 4/23/18  
Title Date

**TIMETABLE FOR MBE/WBE UTILIZATION**

*(This form should be submitted to the City after contract award.)*

I, Deron Huck acting in my capacity as Business Vice President  
*(Name)* *(Position with Firm)*  
of CH2M HILL Engineers, Inc. with the submittal of this Timetable, certify that  
*(Name of Firm)*  
the following timetable for MBE/WBE utilization in the fulfillment of this contract is correct and true to the best of my knowledge.

**ALLOTTED TIME FOR THE COMPLETION OF THIS CONTRACT**

*(Check one only)*

15 days	___	75 days	___	135 days	___
30 days	___	90 days	___	150 days	___
45 days	___	105 days	___	165 days	___
60 days	___	120 days	___	180 days	___
Other	<u>945 days</u>	<i>(Specify)</i>			

Throughout <u>All Subcontractors</u>	Beginning 1/3	_____	
Middle 1/3	Final 1/3	_____	
Beginning 1/3 <u>33%</u>	Middle 1/3 <u>34%</u>	Final 1/3	<u>33%</u>

**PLEASE NOTE:** Any changes in this timetable require approval of the Human Relations Department in advance of the change.

If you have any questions regarding the completion of this form, please contact the Department of Human Relations at: (816) 513-1818.



\_\_\_\_\_  
**(Signature)**

Business Vice President  
**(Position with Firm)**

04/23/2018  
**(Date)**



# REQUEST FOR MODIFICATION OR SUBSTITUTION

*(This Form must be submitted to HRD to request substitutions for an MBE/WBE listed in the Contractor Utilization Plan or for modification of the amount of MBE/WBE participation listed in the Contractor Utilization Plan. This Form shall be an amendment to the Contractor Utilization Plan.)*

**BIDDER/PROPOSER/CONTRACTOR:** \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
**PROJECT NUMBER OR TITLE:** \_\_\_\_\_  
**AMENDMENT/CHANGE ORDER NO: (if applicable)** \_\_\_\_\_

**Project Goals:** \_\_\_\_\_ % MBE \_\_\_\_\_ % WBE  
**Contractor Utilization Plan:** \_\_\_\_\_ % MBE \_\_\_\_\_ % WBE

1. I am the duly authorized representative of the above Bidder/Contractor/Proposer and am authorized to request this substitution or modification on behalf of the Bidder/Contractor/Proposer.

2. I hereby request that the Director of HRD recommend or approve: (check appropriate space(s))

a. \_\_\_\_\_ A substitution of the certified MBE/WBE firm \_\_\_\_\_  
(Name of new firm)  
to perform \_\_\_\_\_  
(Scope of work to be performed by new firm)

for the MBE/WBE firm \_\_\_\_\_ which is currently  
(Name of old firm)  
listed on the Bidder's/Contractor's/Proposer's Contractor Utilization Plan to  
perform the following scope of work: \_\_\_\_\_  
(Scope of work of old firm)

b. \_\_\_\_\_ A modification of the amount of MBE/WBE participation currently listed on the Bidder's/Contractor's/Proposer's Contractor Utilization Plan from  
\_\_\_\_\_ % MBE \_\_\_\_\_ % WBE (Fill in % of MBE/WBE Participation currently listed on Contractor Utilization Plan)

**TO**

\_\_\_\_\_ % MBE \_\_\_\_\_ % WBE (Fill in New % of MBE/WBE Participation requested for Contractor Utilization Plan)

- c. Attach 00450.01 Letter of Intent to Subcontract letter for each new MBE/WBE to be added.
- d. Attach a copy of the most recent 00485.01 or on-line M/WBE Monthly Utilization Report

3. Bidder/Contractor/Proposer states that a substitution or modification is necessary because: (check applicable reason(s) )

\_\_\_ The MBE/WBE listed on the Contractor Utilization Plan is non-responsive or cannot perform.

\_\_\_ The MBE/WBE listed on the Contractor Utilization Plan has increased its previously quoted price without a corresponding change in the scope of work.

\_\_\_ The MBE/WBE listed on the Contractor Utilization Plan has committed a material default or breach of its contract.

\_\_\_ Requirements of the scope of work of the contract have changed and make subcontracting not feasible or not feasible at the levels required by the goals established for the contract.

\_\_\_ The MBE/WBE listed on the Contractor Utilization Plan is unacceptable to the City contracting department.

\_\_\_ Bidder/Contractor/Proposer has not attempted intentionally to evade the requirements of the Act and it is in the best interests of the City to allow a modification or substitution.

4. The following is a narrative summary of the Bidder's/Contractor's/Proposer's good faith efforts exhausted in attempts to substitute the MBE/WBE firm named above which is currently listed on the Contractor Utilization Plan with other qualified, certified MBE/WBE firms for the listed scope of work or any other scope of work in the project:

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5. Bidder/Proposer/Contractor will present documentation when requested by the City to evidence its good faith efforts.

Dated: \_\_\_\_\_

\_\_\_\_\_  
(Bidder/Proposer/Contractor)

By: \_\_\_\_\_  
(Authorized Representative)



# CONTRACTOR AFFIDAVIT FOR FINAL PAYMENT

Project Number \_\_\_\_\_

Project Title \_\_\_\_\_

STATE OF \_\_\_\_\_ )

)SS

COUNTY OF \_\_\_\_\_ )

The Undersigned, \_\_\_\_\_ of lawful  
(Name)

age, being first duly sworn, states under oath as follows:

1. I am the \_\_\_\_\_ of \_\_\_\_\_ who is the general  
(Title) (CONTRACTOR)  
CONTRACTOR for the CITY on Project No. \_\_\_\_\_ and Project Title \_\_\_\_\_

2. All payrolls, material bills, use of equipment and other indebtedness connected with the Work for this Project have been paid and all Claims of whatever nature have been satisfied, as required by the Contract.

3 (✓) \_\_\_\_\_ Prevailing wage does not apply; or

(✓) \_\_\_\_\_ All provisions and requirements set forth in Chapter 290, Section 290.210 through and including 290.340, Missouri Revised Statutes, pertaining to the payment of wages to workmen employed on public works projects have been fully satisfied and there has been no exception to the full and complete compliance with these provisions and requirements and the Annual Wage Order contained in the Contract in carrying out the Contract and Work. CONTRACTOR has fully complied with the requirements of the prevailing wage law as required in the Contract and has attached affidavits from all Subcontractors on this Project, regardless of tier, affirming compliance with the prevailing wage law as stipulated in the Contract.

4. I hereby certify that (a) at project completion and pursuant to contractor's final request for payment, contractor achieved (\_\_\_\_%) Minority Business Enterprise (MBE) participation and (\_\_\_\_%) Women Business Enterprise (WBE) participation on this contract, and (b) listed herein are the names of all certified M/WBE subcontractors, regardless of tier, with whom I, or my subcontractors contracted.

1. Name of MBE/WBE Firm \_\_\_\_\_  
Address \_\_\_\_\_  
Telephone Number (\_\_\_\_) \_\_\_\_\_  
IRS Number \_\_\_\_\_  
Area/Scope\*of Work \_\_\_\_\_  
Subcontract Final Amount \_\_\_\_\_

2. Name of MBE/WBE Firm \_\_\_\_\_  
Address \_\_\_\_\_  
Telephone Number (\_\_\_\_) \_\_\_\_\_  
IRS Number \_\_\_\_\_  
Area/Scope\*of Work \_\_\_\_\_  
Subcontract Final Amount \_\_\_\_\_

List additional subcontractors, if any, on a similar form and attach to the bid.

Supplier\*\* Final Amount: \_\_\_\_\_

\*Reference to specification sections or bid item number.

- \_\_\_ Met or exceeded the Contract utilization goals; or
- \_\_\_ Failed to meet the Contract utilization goals (attach waiver, substitution or modification); or
- \_\_\_ No goals applied to this Project.

5. CONTRACTOR certifies that each Subcontractor has received full payment for its respective work in connection with the Contract.
6. If applicable, I hereby certify that (a) at project completion and pursuant to contractor's final request for payment, contractor achieved, company-wide, at least ten percent (10%) minority workforce participation and two percent (2%) women workforce participation and (2) a true and accurate copy of my final project workforce monthly report (HRD Form 00485.02 and final company-wide workforce monthly report (HRD Form 00485.03) are attached. **NOTE: This paragraph is only applicable if you completed a construction contract that was estimated by the City, prior to solicitation, as requiring more than 800 construction labor hours and costing in excess of \$324,000.01. If applicable you MUST attach copies of your final monthly workforce reports.**
7. This affidavit is made in behalf of the CONTRACTOR for the purpose of securing from Kansas City, Missouri, the certification of completion of the Project and receiving payment therefore.
8. If the Contract amount exceeded \$150,000, CONTRACTOR has submitted proof of compliance with the City tax ordinances administered by the City's Commissioner of Revenue and has on file proof of tax compliance from all Subcontractors. If the Contract term exceeded one (1) year, CONTRACTOR has provided proof of compliance with the City tax ordinances administered by the City's Commissioner of Revenue prior to receiving final payment and has on file proof of tax compliance from all Subcontractors prior to the Subcontractor receiving final payment from CONTRACTOR.

CONTRACTOR \_\_\_\_\_

By \_\_\_\_\_  
(Authorized Signature)

Title \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, before me  
appeared \_\_\_\_\_ to me personally known to be the  
\_\_\_\_\_ of the \_\_\_\_\_

and who executed the foregoing instrument and acknowledged that (s)he executed the same on behalf of  
\_\_\_\_\_ as its free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on the day and year first above written.

My commission expires:

\_\_\_\_\_  
Notary Public



KANSAS CITY  
MISSOURI

# SUBCONTRACTOR AFFIDAVIT FOR FINAL PAYMENT

Project Number \_\_\_\_\_

Project Title \_\_\_\_\_

STATE OF MISSOURI )

) ss:

COUNTY OF \_\_\_\_\_ )

After being duly sworn the person whose name and signature appears below hereby states under penalty of perjury that:

1. I am the duly authorized officer of the business indicated below (hereinafter Subcontractor) and I make this affidavit on behalf of Subcontractor in accordance with the requirements set forth in Section 290.290, RSMo.

Subcontractor has completed all of the Work required under the terms and conditions of a subcontract as follows:

Subcontract with: \_\_\_\_\_ Contractor

Work Performed: \_\_\_\_\_

Total Dollar Amount of Subcontract and all Change Orders: \$ \_\_\_\_\_

City Certified  MBE  WBE  DBE  NA

List certifications: \_\_\_\_\_

2. Subcontractor fully complied with the provisions and requirements of the Missouri Prevailing Wage Law set forth in Sections 290.210, RSMo through 290.340, RSMo.

**Business Entity Type:**

- Missouri Corporation
- Foreign Corporation
- Fictitious Name Corporation
- Sole Proprietor
- Limited Liability Company
- Partnership
- Joint Venture
- Other (Specify)

**Subcontractor's Legal Name and Address**

\_\_\_\_\_

Phone No. \_\_\_\_\_

Fax: \_\_\_\_\_

E:mail: \_\_\_\_\_

Federal ID No. \_\_\_\_\_

I hereby certify that I have the authority to execute this affidavit on behalf of Subcontractor.

By: \_\_\_\_\_

(Signature)

\_\_\_\_\_

(Print Name)

(Title)

\_\_\_\_\_

(Date)

**NOTARY**

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

My Commission Expires: \_\_\_\_\_

By \_\_\_\_\_

Print Name

Title

**ATTACHMENT G**

**EMPLOYEE ELIGIBILITY VERIFICATION AFFIDAVIT**

(Required for any contract with the City of Kansas City, Missouri in excess of \$5,000.00)

STATE OF Missouri )  
 ) ss  
 COUNTY OF Jackson )

On this 24th day of May, 2018, before me appeared Deron Huck, personally known by me or otherwise proven to be the person whose name is subscribed on this affidavit and who, being duly sworn, stated as follows:

I am of sound mind, capable of making this affidavit, and personally swear or affirm that the statements made herein are truthful to the best of my knowledge. I am the Business Vice President (title) of CH2M HILL Engineers, Inc. (business entity) and I am duly authorized, directed or empowered to act with full authority on behalf of the business entity in making this affidavit.

I hereby swear or affirm that the business entity does not knowingly employ any person in connection with the contracted services who does not have the legal right or authorization under federal law to work in the United States as defined in 8 U.S.C. § 1324a(h)(3).

I hereby additionally swear or affirm that the business entity is enrolled in an electronic verification of work program operated by the United States Department of Homeland Security (E-Verify) or an equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, under the Immigration Reform and Control Act of 1986, and that the business entity will participate in said program with respect to any person hired by the business entity to perform any work in connection with the contracted services. I have attached hereto documentation sufficient to establish the business entity's enrollment and participation in the required electronic verification of work program.

I am aware and recognize that unless certain contractual requirements are satisfied and affidavits obtained as provided in Section 285.530, RSMo, the business entity may face liability for violations committed by its subcontractors, notwithstanding the fact that the business entity may itself be compliant.



I acknowledge that I am signing this affidavit as the free act and deed of the business entity and that I am not doing so under duress.

*[Handwritten Signature]*  
Affiant's signature

Subscribed and sworn to before me this 24<sup>th</sup> day of May, 2018.

*Holly M. Long*  
Notary Public

My Commission expires:



**ATTACHMENT H**

**Truth-In-Negotiation Certificate**

**City of Kansas City, Missouri Overflow Control Plan ("OCP")**

**Civil Action No. 4:10-cv-0487-GAF**

STATE OF MISSOURI )

) ss.

COUNTY OF JACKSON )

I, Deron Huck, having full authority to act on behalf of CH2M HILL Engineers, Inc., do solemnly swear under oath to the following:

1. This Certificate is executed and given by the undersigned as a condition precedent to entering into a Design Professional Agreement with the City of Kansas City, Missouri for the project known as Line Creek/Rock Creek Project Area 4 I/I Reduction
2. This Certificate shall be attached to and constitute an integral part of the above said Design Professional Agreement as provided in Part II, Sec. 24.
3. I certify under penalty of law that the wage rates, other factual unit costs, and expenses supporting the compensation for this Design Professional Agreement was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted, and that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
4. The truth of the statements made herein may be relied upon by the City and the undersigned is fully advised of the legal effect and obligations imposed upon him by the execution of this instrument.

  
\_\_\_\_\_

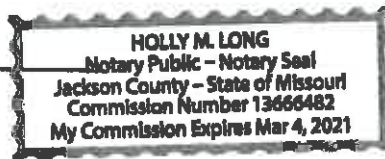
Signature of affiant

On this 24<sup>th</sup> day of May, 2018 before me, Dawn Huck, a Notary Public in and for said state, personally appeared (Dawn Huck), known to me to be the person who executed the within affidavit, and acknowledge to me that he/she executed the same for the purposes therein stated.

Holly M. Long

Notary Public

My commission expires:



Company ID Number: 40635  
Client Company ID Number: 123606

**MEMORANDUM OF UNDERSTANDING BETWEEN THE  
DEPARTMENT OF HOMELAND SECURITY, SOCIAL SECURITY ADMINISTRATION,  
EMPLOYER, AND DESIGNATED AGENT  
REGARDING E-VERIFY**

**ARTICLE I**

**PURPOSE AND AUTHORITY**

This Memorandum of Understanding (MOU) sets forth the terms by which the Social Security Administration (SSA), and the Department of Homeland Security, U.S. Citizenship and Immigration Service (DHS-USCIS) will provide information through E-Verify on behalf of CH2M Hill Engineers, Inc. (Employer) in order to confirm the employment eligibility of all newly hired employees of CH2M Hill Engineers, Inc. (Employer) following completion of the Employment Eligibility Verification Form (Form I-9).

Authority for E-Verify is found in Title IV, Subtitle A, of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), Pub. L. 104-208, 110 Stat. 3009

**ARTICLE II**

**FUNCTIONS TO BE PERFORMED**

**A. RESPONSIBILITIES OF THE SSA**

1. Upon completion of the Form I-9 by the employee and the Employer, and provided the Employer complies with the requirements of this MOU, SSA agrees to provide the Designated Agent on behalf of the Employer with available information that will allow the Employer to confirm the accuracy of Social Security Numbers provided by all newly hired employees and the employment authorization of some newly hired employees.
2. The SSA agrees to provide to the Designated Agent appropriate assistance with operational problems that may arise during the Employer's participation in E-Verify. The SSA agrees to provide the Designated Agent with names, titles, addresses, and telephone numbers of SSA representatives to be contacted during participation in E-Verify.
3. The SSA agrees to safeguard the information provided by the Employer through E-Verify procedures, and to limit access to such information, as is appropriate by law, to individuals responsible for the confirmation of Social Security Numbers and for evaluation of E-Verify or such other persons or entities who may be authorized by

**Attachment I**

**Affidavit of Compliance With the Federal Consent Decree Regarding the  
City of Kansas City, Missouri Overflow Control Plan ("OCP")**

**Civil Action No. 4:10-cv-0487-GAF**

STATE OF MISSOURI )

) ss.

COUNTY OF JACKSON )

I, Deron Huck, having full authority to act on behalf of CH2M HILL Engineers, Inc., do solemnly swear under oath to the following:

I certify, under penalty of law, that the City has made an electronic copy of this Consent Decree available to this organization at the following web location:  
<https://www.kcwaterservices.org/wp-content/uploads/2013/04/Consent-Decree.pdf>. I further certify that the Consent Decree, along with appendices, have been reviewed in their entirety and that said review has been performed under my direction or supervision in accordance with a system designed to assure that qualified personnel properly evaluated and fully understand the information contained in this Consent Decree upon execution of any contract relating to such work, including, but not limited to, subcontractors, equipment providers, material suppliers, or sub-consultants.

Deron Huck

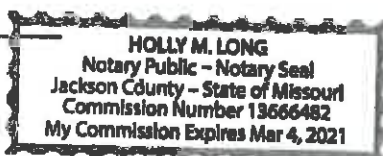
Signature of affiant

On this 24<sup>th</sup> day of May, 2018 before me, Deron Huck, a Notary Public in and for said state, personally appeared ( Deron Huck ), known to me to be the person who executed the within affidavit, and acknowledge to me that he/she executed the same for the purposes therein stated.

Holly M. Long

Notary Public

My commission expires: \_\_\_\_\_



# ATTACHMENT J

## Non-Construction Subcontractors Listing

Contractor shall submit Subcontractor information on this form prior to Subcontractor beginning Work. Contractor shall update this listing and keep it current for the life of the Contract.

	Company Name Contact Name and Email	Address Phone No. and Fax No.
1.	<b>SE3, LLC</b> Name: <u>Vernal Stewart</u> Email: <u>vstewart@se3.us</u>	Address: <u>5806 Brighton, Kansas City, MO 64130</u> Phone: <u>816-272-5545</u> Fax: <u>816-817-0747</u>
2.	<b>Environmental Advisors and Engineers, Inc.</b> Name: <u>Jill Biesma</u> Email: <u>jbiesma@eaei.com</u>	Address: <u>19211 W. 64th Terrace - Shawnee, KS 66218</u> Phone: <u>913-599-4326</u> Fax: <u>913-631-6011</u>
3.	<b>TREKK Design Group, LLC</b> Name: <u>Lucas Gillen</u> Email: <u>lgillen@trekkdesigngroup.com</u>	Address: <u>1411 E 104th Street, Kansas City, MO 64131</u> Phone: <u>816-874-4655</u> Fax: <u>816-874-4667</u>
4.	Name: _____ Email: _____	Address: _____ Phone: _____ Fax: _____
5.	Name: _____ Email: _____	Address: _____ Phone: _____ Fax: _____
6.	Name: _____ Email: _____	Address: _____ Phone: _____ Fax: _____
7.	Name: _____ Email: _____	Address: _____ Phone: _____ Fax: _____
8.	Name: _____ Email: _____	Address: _____ Phone: _____ Fax: _____
9.	Name: _____ Email: _____	Address: _____ Phone: _____ Fax: _____
10.	Name: _____ Email: _____	Address: _____ Phone: _____ Fax: _____

**Contractor – Company Name:** CH2M HILL Engineers, Inc  
**Submitted By:** Deron Huck  
**Title:** Business Vice President  
**Telephone No.:** 816-533-7308  
**Fax No.:** 816-421-5560  
**E-mail:** deron.huck@jacobs.com  
**Date:** May 24, 2018

**DESIGN PROFESSIONAL SERVICES**  
**AMENDMENT NO. 1**  
**CONTRACT NO. 1402      PROJECT NO. 81000802**  
**LINE CREEK/ROCK CREEK AREA 4 INFLOW AND INFILTRATION (I/I)**  
**REDUCTION**  
**WATER SERVICES DEPARTMENT**

This amendment is between KANSAS CITY, MISSOURI, a constitutionally chartered municipal corporation (City), and CH2M Hill Engineers, Inc. (Design Professional). The parties amend the Agreement entered into on July 26, 2018, as follows:

WHEREAS, City has previously entered into a contract dated July 26, 2018 in the amount of \$715,000.00; and

WHEREAS, the City desires to execute Amendment No. 1, in the amount of \$127,000.00, to amend the total contract amount to \$842,000.00;

NOW, THEREFORE, in consideration of the payments and mutual agreements contained in this Amendment No. 1, City and Design Professional agree as follows:

**Sec. 1. Sections Amended.** The Contract is amended as follows:

- A. Add the following section(s):
  - a. Attachment A1 – Scope of Services for Final Design
  - b. Attachment C1 – Engineering Fee Summary for Final Design
- B. Delete the following section(s):
  - a. Attachment A – Scope of Services, Task Series 700 - GIS
- C. Delete and replace the following section(s):
  - a. Delete Part I, Sec. 4.A and replace with the following Part I, Sec. 4.A:  
The amount the City will pay Design Professional under this Agreement is **\$842,000.00** as follows, which includes \$77,800.00 in Optional Services from the Original Agreement:
  - b. Delete Part I, Sec. 4.A.1. and replace with the following Part I, Sec. 4.A.1.:  
**\$500,908.00** for the services performed by Design Professional under this agreement.
  - c. Delete Part I, Sec. 4.A.3. and replace with the following Part I, Sec. 4.A.3:

Actual reasonable expenses incurred by Design Professional directly related to Design Professional's performance under this Agreement, to include only the following, in an amount not to exceed \$263,292.00. The following are the reimbursable expenses that City has approved: subcontractor direct costs paid by Design Professional, outside reproduction of final deliverables, local transportation in the project area, and public outreach materials. Subcontractor's office personnel labor costs shall be included in the unit prices for field investigation work. Compensation for subcontractor field investigations shall be based on the unit prices listed in Attachment D.

**Sec. 2. Sections not Amended.** All other sections of the Agreement shall remain in full force and effect.

**Sec. 3. Authorization.** If the amount of the original Agreement plus the amount of any amendments to the original Agreement total over \$400,000.00, then this amendment requires City Council authorization. Notwithstanding the foregoing, City Council authorization is not required if (1) the total amount of the original Agreement plus the amount of any amendments to the original Agreement are within ten percent (10%) of the maximum amount authorized by the City Council or (2) a previous ordinance or Resolution authorized amendments without further City Council approval.

**Sec. 4. Effectiveness; Date.** This amendment will become effective when the City's Director of Finance has signed it. The date this amendment is signed by the City's Director of Finance will be deemed the date of this amendment.



Each party is signing this amendment on the date stated opposite that party's signature.

**DESIGN PROFESSIONAL**

I hereby certify that I have authority to execute this document on behalf of Design Professional

Date: 01-23-2020

By: 

Name: MICHAEL M<sup>C</sup>CARTY

Title: VICE PRESIDENT

**KANSAS CITY, MISSOURI**

Date: 3/9/2020

By: 

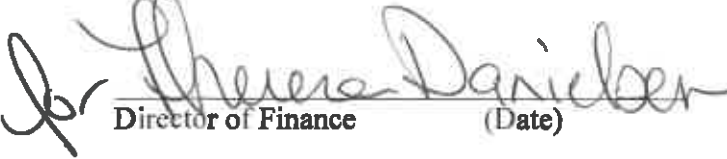
Name: Sean Hennessy

Title: Deputy Director

Approved as to form:

  
Assistant City Attorney

I hereby certify that there is a balance, otherwise unencumbered, to the credit of the appropriation to which the foregoing expenditure is to be charged, and a cash balance, otherwise unencumbered, in the Treasury, to the credit of the fund from which payment is to be made, each sufficient to meet the obligation hereby incurred.

 3-23-2020  
Director of Finance (Date)

**ATTACHMENT A1  
SCOPE OF SERVICES FOR FINAL DESIGN**

Design Professional: CH2M Hill Engineers, Inc.  
Owner: City of Kansas City, Missouri  
Project: Line Creek/Rock Creek Basin Project Area 4 Inflow and Infiltration (I/I) Reduction Project  
City Contract No: Amendment No. 1 to Contract 1402  
City Project No: 81000802

**I. GENERAL**

The following paragraphs provide a general description of the Work and Scope of Services required of this Follow-on Phase 1 under provisions of the Design Professional Services Agreement, Section 1.D of Attachment A Scope of Services. Subsequent paragraphs describe in detail the additional scope of professional services to be provided by DESIGN PROFESSIONAL to facilitate the implementation of rehabilitation recommendations for reducing inflow and infiltration (I/I) flows into the sanitary sewer system in the Line Creek/Rock Creek Basin Project Area 4 Inflow and Infiltration (I/I) Reduction Project, Kansas City, Missouri.

- A. **The Project.** The City of Kansas City (CITY), Missouri, intends to reduce I/I flows in the sanitary sewer system by implementing rehabilitation recommendations in the Line Creek/Rock Creek Basin Project Area 4 Inflow and Infiltration (I/I) Reduction Project. As such, the CITY is contracting with DESIGN PROFESSIONAL to provide the necessary professional services.
- B. **Federal Consent Decree.** This Project is included in the Federal Consent Decree pertaining to the City of Kansas City, Missouri's Overflow Control Program. As such, requirements of the Federal Consent Decree must be adhered to by the DESIGN PROFESSIONAL and its subconsultants and subcontractors.
- C. **Background Information.** The CITY is undertaking this Project as mandated by the Federal Consent Decree to prepare construction contract documents for the Line Creek/Rock Creek Basin Project Area 4 Inflow and Infiltration (I/I) Reduction Project as part of the Smart Sewer Program. This project will be combined with Line Creek/Rock Creek Basin Project Area 3 I/I Reduction Project and advertised for bid as a single construction contract. The combined project will focus on I/I reduction through rehabilitation of public sanitary sewers and manholes within the project areas. The estimated footage of sewer pipe and number of manholes in the combined project area is approximately:
  - a. Line Creek/Rock Creek Basin Project Area 3: 213,000 linear feet of 8-inch to 48-inch diameter sewer mains and 1,000 manholes.
  - b. Line Creek/Rock Creek Basin Project Area 4: 246,00 linear feet of 6-inch to 54-inch diameter sewer mains and 1,359 manholes.

- D. Follow-On Phases. At the discretion of the CITY, the DESIGN PROFESSIONAL may be requested to provide construction phase services for the project.
- E. General Description of Activities. The Basic Scope of Services to be performed by DESIGN PROFESSIONAL shall include additional professional services for the development of final construction documents and bidding assistance for the implementation of rehabilitation recommendations for reducing I/I flow and volume in the project area. The Work consists of the following additional professional services:
1. 2019 Flow and Rainfall Data Analyses
  2. 2019 Smoke Testing
  3. I/I Quantification and Rehabilitation Recommendation Update
  4. Development of Final Construction Contract Documents
  5. Use of Work Tracking Application
  6. GIS Updates
  7. Bid Phase Services
- F. Task Series Listing. The Basic Scope of Services is organized under the following Task Series:
1. Task Series 110 - Project Management and Administration
  2. Task Series 310 - 2019 Flow and Rainfall Data Analyses
  3. Task Series 410 - 2019 Smoke Testing
  4. Task Series 510 – I/I Quantification and Rehabilitation Recommendation Update
  5. Task Series 610 - Develop Final Construction Contract Drawings and Limited Specifications for Sewer System Rehabilitation
  6. Task Series 620 - Work Tracking Application
  7. Task Series 700 – GIS
  8. Task Series 900 - Bid Phase Services
- G. Explicit Responsibilities. The Basic Scope of Services explicitly sets forth what DESIGN PROFESSIONAL shall perform and does not implicitly put any additional responsibilities or duties upon DESIGN PROFESSIONAL. The DESIGN PROFESSIONAL agrees to provide the specific Basic Services as identified herein. Work not specifically discussed herein shall not be performed without an amendment or shall be provided as Optional Services upon written authorization from the CITY.
- H. Capital or Annual Cost Opinions. All opinions of probable construction cost developed shall generally follow the recommendations of the Association for the Advancement of Cost Engineering (AACE) International Recommended Practice No. 18R-97 with regard to methodology and accuracy. Since DESIGN PROFESSIONAL has no control over the cost of labor, material or equipment furnished by others not under contract to DESIGN PROFESSIONAL, DESIGN PROFESSIONAL's opinion of probable cost for construction of the Work shall be made on the basis of experience and qualifications as a DESIGN

PROFESSIONAL. DESIGN PROFESSIONAL does not guarantee that proposals, bids or actual project cost will not vary from DESIGN PROFESSIONAL's opinions of probable construction cost. The cost opinions' level of accuracy presented by DESIGN PROFESSIONAL shall be as noted for in subsequent paragraphs of this Scope of Services.

## **II. PROJECT MILESTONES AND CITY REVIEW REQUIREMENTS**

- A. DESIGN PROFESSIONAL shall complete Task Series 310 within 60 calendar days of Amendment No. 1 Notice to Proceed; Task Series 510 and 610 on or before July 15, 2020; and Task Series 110, 620, 700, and 900 within 90 calendar days thereafter. DESIGN PROFESSIONAL's completion schedule will be extended by the CITY for delays beyond the reasonable control of the DESIGN PROFESSIONAL as approved by the CITY.
- B. The CITY hereby commits to review deliverables and provide comments within twenty-one (21) calendar days after receipt of deliverables from DESIGN PROFESSIONAL. CITY will endeavor to provide consolidated written review comments to DESIGN PROFESSIONAL within a twenty-one (21) calendar day period. A review meeting will be scheduled and conducted by DESIGN PROFESSIONAL no more than fourteen (14) calendar days after receipt of written consolidated CITY review comments, unless a mutually agreed upon date outside this schedule window is selected.

## **III. BASIC SCOPE OF SERVICES**

The following Task Series describe the Basic Scope of Services to be provided by the DESIGN PROFESSIONAL under the Project.

### **TASK SERIES 110 - PROJECT MANAGEMENT AND ADMINISTRATION**

The purpose of Project Management and Administration will be to extend management, direction and oversight of each element of Basic Services identified herein and subcontractors employed by the DESIGN PROFESSIONAL in completion of the additional Work. The following management activities will be provided by DESIGN PROFESSIONAL.

#### **Task 111 Project Management Services**

Provide project management services necessary throughout the project to successfully manage and complete the work, including project correspondence and consultation with CITY Staff; supervision and coordination of services; implementation of a project specific Work Plan; scheduling and assignment of personnel resources; continuous monitoring of work progress; and maintenance of project controls. Existing Project Schedule shall be revised and maintained in Primavera (P6) or later version or Microsoft Project.

#### **Task 112 Monthly Invoicing, Project Status Reports, and Project Schedule**

Prepare and submit monthly invoices on a form acceptable to the CITY and provide a monthly project status report and updated project schedule, which shall accompany the monthly invoice submittal. A PDF copy of the invoice, project status report, and project schedule shall be uploaded to the CITY's Aconex document management system. The CITY will provide a template for the

project status report. Each invoice by the DESIGN PROFESSIONAL and subcontractors shall have labor hours and fee and unit price items broken down by task series and shall be in general conformance with the invoice template provided by CITY. The monthly project status report shall identify work performed by the DESIGN PROFESSIONAL, the work activities anticipated to be performed the next month, action items required by CITY, potential project scope variances with corrective action, a general assessment of the DESIGN PROFESSIONAL's ability to meet M/WBE participation goals and project schedule milestones, including identification of any delays beyond its control, an estimate of work percent completion for each Task Series in the Basic Scope of Services based on the work completed, and the earned value of the completed work for each task series. The schedule shall be updated to reflect the progress reported in the status report. A short narrative shall be provided to describe the work activity performed for each task within each Task Series.

1. If schedule is produced in Primavera the layout shall include the following, in order.
  - a. Activity ID, Activity Name, Original Duration (OD), Remaining Duration (RD), Percent Complete, Start, Finish, Late Start, Late Finish, Total Float (TF), Baseline Variance (BL VAR), Predecessors, Successors, Resource ID (if requested).
2. If schedule is produced in Microsoft Project the layout shall include the following, in order.
  - a. Task ID, Activity Name, Original Duration (OD), Remaining Duration (RD), Percent Complete, Actual Start, Actual Finish, Start, Finish, Late Start, Late Finish, Free Slack, Baseline Variance, Predecessors, Successors, Resource ID (if requested).
3. Schedule shall be submitted in an Aconex workflow, on a monthly basis, one week prior to invoicing for approval. DP shall include the approved schedule with the monthly invoice submittal.
4. If the schedule falls behind contractual dates, DP shall propose a recovery schedule and plan for approval.

### **Task 113 Subconsultant Agreements and Administration**

Prepare a scope, budget, schedule, and agreement for its subconsultants involved in the Project. Conduct coordination meetings as required to prepare subconsultant agreements, to review deliverables, and to execute the defined scope of work. Provide administration of subconsultant agreements and subconsultant work including deliverables, subcontractor invoicing, and schedule maintenance. Prepare monthly M/WBE subcontractor utilization reports and submit in the required format to the CITY's Human Relations Department.

### **Task 114 Quality Control**

DESIGN PROFESSIONAL's Quality Control Program will be implemented on all phases of the project to provide an independent review of the work. Quality control reviews will include checks for conformance with regulatory agency requirements, completeness and correctness of evaluations, design accuracy, feasibility of implementing recommendations, and adherence to contract requirements.

### **Task 115 Monthly Progress Meetings**

Participate in up to twelve (12) progress meetings with CITY to provide updates on work progress, budget and schedule status, current issues, variances in the potential scope of work. Anticipated future activities and CITY action items shall be discussed. DESIGN PROFESSIONAL shall prepare and submit an agenda to CITY prior to each meeting and prepare/distribute meeting minutes.

## **TASK SERIES 310 – 2019 FLOW AND RAINFALL DATA ANALYSES**

### **Task 311 Review and Analyze Flow and Rainfall Monitoring Data**

DESIGN PROFESSIONAL shall review the pre-rehabilitation flow and rainfall data for nine flow meters and up to three rain gauge locations within Line Creek/Rock Creek Project Area 4. Flow and rainfall data (from the 2019 monitoring period) will be provided by CITY. DESIGN PROFESSIONAL will perform analyses of the data in accordance with Section 5 of the November 2018, Flow Metering and Data Analysis Protocol (FMDA). Analyses activities include, but are not limited to:

1. Analysis of flow and rainfall monitoring data
2. Determination of Average Daily Dry Weather Flow (ADD)
3. Determination of high groundwater infiltration
4. Determination of inflow
5. Determination of Peak System Flow Rates vs. System Capacity
6. Preparation of Volumetric and Statistical Analyses

### **Task 312 Submit Flow and Rainfall Monitoring Data Analysis Report**

Submit the following for CITY review:

1. Two (2) printed copies and one PDF copy of the Draft Flow and Rainfall Monitoring Data Analysis Report for determination of I/I quantities for pre-rehabilitation conditions as described in Section 5 of the FMDA Protocol.
2. Two (2) printed copies and one PDF copy of the Final Flow and Rainfall Monitoring Data Report for determination of I/I quantities for pre-rehabilitation conditions that incorporates review comments and input from the CITY.

## **TASK SERIES 410 – 2019 SMOKE TESTING**

### **Task 411 Smoke Testing Notification and Door Hangers**

Prior to mobilizing for smoke testing activities, the DESIGN PROFESSIONAL shall distribute mailers to all affected properties owners. DESIGN PROFESSIONAL shall provide City with a project boundary and the City will provide mailing addresses from the customer service system.

Prior to beginning smoke testing activities, DESIGN PROFESSIONAL shall distribute a project-specific door hanger providing notification of smoke testing. The City will be responsible for drafting the door hanger. The DESIGN PROFESSIONAL shall be responsible for printing and distribution of the door hangers.

**TASK SERIES 510 – I/I QUANTIFICATION AND REHABILITATION RECOMMENDATION UPDATE**

**Task 511 I/I Quantification**

DESIGN PROFESSIONAL shall update I/I flow rates and I/I flow balance. This update will include the 2019 flow monitoring results and smoke testing results. A comparison to the previous I/I quantification shall be provided to The CITY and they shall review and provide recommendations on the final I/I quantification to the DESIGN PROFESSIONAL.

**Task 512 Diminishing Returns Analysis**

DESIGN PROFESSIONAL shall update the diminishing returns analysis and list of cost-effective assets to repair. The CITY shall be provided with a comparison of the updated list of assets to those from the previous analysis and they shall review and provide recommendations to the DESIGN PROFESSIONAL.

**Task 513 Final Rehabilitation Recommendation Update**

DESIGN PROFESSIONAL shall finalize assets selected for rehabilitation based on CITY recommendations. The final list of assets will be included in the Final Preliminary Design Report in Task 509.

**TASK SERIES 610 - DEVELOP FINAL CONSTRUCTION CONTRACT DRAWINGS AND LIMITED SPECIFICATIONS FOR SEWER SYSTEM REHABILITATION**

**Task 611 Plan in Hand Walk Through**

DESIGN PROFESSIONAL and CITY shall perform a one (1) day plan in hand walk through at or before the 90% Final Design completion. The purpose of the walk through is to verify and analyze the accessibility of the proposed work and to identify any special conditions to be included in the contract documents. DESIGN PROFESSIONAL shall document all special conditions, take photographs, and propose solutions and specifications for the CITY to review. Submit two hard copies and a PDF of the special conditions, photographs, and proposed solutions and specifications for CITY review.

**Task 612 Develop 90% Construction Contract Documents**

The 90% design submittal is intended to be a complete, bid-ready set of construction documents. The purpose of the 90% design submittal is to provide the CITY and Smart Sewer Team the opportunity to review the plans, specifications, and appurtenant material prior to bidding the project for construction. DESIGN PROFESSIONAL shall prepare and submit 90% contract documents for review by CITY. The 90% documents shall include the final plans, rehabilitation maps and schedules for manhole, mainline and private lateral connection rehabilitation within the

CITY right of way or permanent sanitary sewer easements. Incorporate review comments from CITY's review of the 50% design documents and the 90% Plan in Hand Walk Through.

Development of plans shall be made with the Design Professional of Line Creek Rock Creek 3 Basin to develop a uniform set of contract documents based on 2 coordination meetings to discuss plans, contract documents and opinion of probable cost. Coordination efforts will update project specifications as follows:

- a. Bid Form 00412 shall be developed by the Design Professional for Line Creek Rock Creek Area 3 and will be modified by the DESIGN PROFESSIONAL to include Line Creek Rock Creek Area 4 project quantities.
- b. The Design Professional for Line Creek Rock Creek Area 3 will initially develop Sections 01015 and 01270 and the DESIGN PROFESSIONAL will review and edit to assure consistency with construction methods and subsidiary items.

CITY staff shall be responsible for development of the Project Manual (specifications), including the standard "front end" documents and Divisions 1 through 16 (CSI format).. CITY shall submit the Project Manual to DESIGN PROFESSIONAL for review and comment.

**Task 613 Submit Opinion of Probable Construction Cost**

Prepare an updated opinion of probable construction cost based on the 90% Design Plans developed and any comments received from the CITY of its review of the 50% Opinion of Probable Cost submitted. The 90% cost opinion shall be Class 1 consistent with AACE standards; the expected accuracy on the low end shall be -3 to -10 percent and the expected accuracy on the high end shall be from +3 to +15 percent. The opinion of probable construction cost shall include a break-down of work that could be subcontracted by a general contractor to women and minority business enterprise (WBE and MBE) firms.

**Task 614 Submit 90% Construction Contract Documents**

Submit the following for City review:

1. One (1) printed and bound set of 90% plans, maps, and schedules.
2. One (1) printed and bound set of 90% technical specifications.
3. One (1) printed and bound set of the 90% Opinion of Probable Cost.
4. PDF files of plans, specifications, and 90% Opinion of Probable Cost

The City will distribute plans to the appropriate City departments and staff for review. Conduct a two-hour review meeting with the City to discuss any comments or final changes to the 90% design documents. Incorporate review comments into the final Construction Contract Documents as necessary.

**Task 615 Final Construction Contract Documents**

Address review comments received from the CITY related to the 90% design completion submittal and prepare final design documents including rehabilitation drawings, maps, schedules, and specifications.

Prior to submittal of the signed and sealed Construction Contract Documents, the DESIGN



PROFESSIONAL shall submit one (1) hard copy of the corrected final documents for review and acceptance by the CITY.

**Task 616 Opinion of Probable Construction Cost**

Update the 90% Class 1 cost opinion based on the Final Bidding and Construction Contract Documents and any comments received from the CITY on the 90% design submittal.

**Task 617 Deliverables**

Submit the following final deliverables:

1. Drawings, Maps, and Schedules: 2 copies; "D" size and sealed by a registered professional engineer licensed in the State of Missouri.
2. Electronic Contract Drawings: 1 copy; Per Attachment B and AutoCAD (.dwg) files.
3. Electronic Contract Specifications: 1 copy; all copies – PDF and WORD.
4. Final Opinion of Probable Cost.

**TASK SERIES 620 - WORK TRACKING APPLICATION**

**Task 621 Work Tracking Application**

DESIGN PROFESSIONAL shall enter final scheduled rehabilitation assets for the Project into the CITY's web-based work order management application for work order creation. DESIGN PROFESSIONAL shall follow the work tracking application user protocol provided by the CITY.

**TASK SERIES 700 – GIS**

**Task 701 GIS Update**

The DESIGN PROFESSIONAL is to prepare and provide an updated ArcGIS 10.x geodatabase that follows the geodatabase schema provided by the CITY. DESIGN PROFESSIONAL is to update the GIS database based on construction as-built documents by the DESIGN PROFESSIONAL following the evaluation of CCTV, manhole inspection data, smoke testing, and dyed water testing. Any updates to the GIS database will be noted on the GIS feature by the DESIGN PROFESSIONAL.

Manhole inspections and CCTV inspections provided by the CITY in the first deliverable will not contain all manholes and sewers in the project area. Throughout the course of design and CCTV, the CITY will continue to locate, open and access manholes and sewers and complete manhole inspections. Manholes that could not be located, opened, or accessed and sewers that could not be accessed for the first deliverable will be provided by the CITY in a second deliverable. Upon DESIGN PROFESSIONAL's receipt of the second deliverable of manhole inspections and CCTV; DESIGN PROFESSIONAL shall incorporate the system characterization attributes associated with these inspections into the GIS update prior to submitting to the CITY.

DESIGN PROFESSIONAL shall assume an additional 10-15% of the total manholes and 5-10% of the total sewers will be delivered in a second inspection package.

The DESIGN PROFESSIONAL will follow the August 2019 GIS Update Protocol that outlines the required GIS attributes per GIS layer to be edited and valid values for the attribute information. In addition to the required attribute fields being populated, DESIGN PROFESSIONAL is to ensure pipe to structure connectivity is maintained.

If the DESIGN PROFESSIONAL recommends removing or deleting a GIS feature, that feature must be added to a deleted feature class and provided to the CITY with a description of why the feature was deleted.

## **TASK SERIES 900 - BID PHASE SERVICES**

### **Task 901 Pre-Bid Conference**

Assist CITY in presenting a pre-bid meeting, respond to questions regarding interpretation of contract drawings, specifications and technical issues, and issue addenda associated with DESIGN PROFESSIONAL's Project area. Project advertisement will have a duration of approximately 30 days.

### **Task 902 Submit Engineer's Opinion of Probable Construction Cost**

If required, update the Final Class 1 cost opinion submitted under Task 616 to reflect items impacted by addenda changes or changes in market conditions, as required. The cost opinion shall be submitted on the bidding form included in the bidding documents and provided to the CITY in a sealed envelope. The level of accuracy shall be the same as that for the final estimate.

### **Task 903 Bid Assistance**

Assist the CITY with interpretation of the Contract Documents and develop addenda (up to three) as required during the bid advertisement period to clarify Contract Documents. CITY will post the addenda.

(End of Scope of Services)

**ATTACHMENT C1**

**ENGINEERING FEE SUMMARY FOR FINAL DESIGN**

Kansas City, MO  
 Water Services Department  
 Live Creek/Rock Creek Project Area 4 M Reduction  
 By: Deron Huck  
 CH2M HILL, Project #708217CH  
 April 22, 2018, revised January 10, 2020

Pipe Length 248,000 ft  
 Manholes 1,359 ea

**Budget Estimate**

Task #	Task Description	Average Billing Rate thru 12/31/2019											Hours
		PM D Huck	Qual Mgr W Miller	Field Mgr D Ferguson	Engr3 R Vanaman	Engr2 S Beer	Engr1 various	Engr3 SES MRE	Engr2 THINA WRE	Engr1 EAD VBC	Office		
		\$ 293	\$ 293	\$ 237	\$ 151	\$ 118	\$ 85	\$ 118	\$ 118	\$ 118	\$ 118	\$ 80	
<b>110</b>	<b>PROJECT MANAGEMENT AND ADMINISTRATION</b>												
111	Project Management Services (12 months)	84											
112	Monthly Invoices and Project Status Reports	24						84					48
113	Subcontract Agreements and Administration												
114	Quality Control		24										
115	Monthly Progress Meetings	24			24								
<b>318</b>	<b>2019 FLOW AND RAINFALL DATA ANALYSIS</b>												
311	Review and Analyze Flow and Rainfall Monitoring Data	8			40			80					
312	Submit Flow & Rainfall Data Monitoring Analysis Report	2			16			40					
<b>410</b>	<b>SMOKE TESTING</b>												
411	Smoke Testing Notification												3
<b>610</b>	<b>FIELD DATA EVALUATION AND REHABILITATION RECOMMENDATIONS</b>												
611	01 Quantification	2			34			24					
612	02 Ominishing Returns Analysis	2			34			24					30
613	03 Final Rehabilitation Recommendation Update	2			16			16					54
<b>610</b>	<b>DEVELOP FINAL CONSTRUCTION CONTRACT DRAWINGS AND LIMITED SPECIFICATIONS FOR SEWER SYSTEM REHABILITATION</b>												
611	01 Plan in Hand Workthrough	24			24			24					
612	02 Develop 80% Design Documents	4	16		50			50					72
613	03 90% Opinion of Probable Construction Cost	4			8			8					180
614	04 Submit 90% Construction Contract Documents	2			8			8					28
615	05 Final Construction Contract Documents	4	8		40			40					18
616	06 Final Opinion of Probable Construction Cost	4			8			8					32
617	07 Final Deliverables	2			8			8					28
<b>620</b>	<b>WORK TRACKING APPLICATION AND GIS UPDATES</b>												
621	Work Tracking Application				40								40
<b>700</b>	<b>GIS</b>												
701	GIS Update				40								40
<b>900</b>	<b>BID PHASE SERVICES</b>												
901	Pre-Bid Conference	8			24								
902	Submit Engineer's Opinion of Probable Construction Cost	4			8			8					32
903	Bid Assistance				8			8					12
	Subtotal	254	48	0	440	16		424	0	0	0	48	1,200
<b>IV</b>	<b>OPTIONAL SERVICES</b>												
	Months												0
	Subtotal	0	0	0	0	0	0	0	0	0	0	0	0
<b>Amendment Task Administration Totals</b>		254	48	0	440	16		424	0	0	0	48	1,200

**DESIGN PROFESSIONAL SERVICES**  
**AMENDMENT NO. 2**  
**CONTRACT NO. 1402      PROJECT NO. 81000802**  
**PROJECT TITLE – LINE CREEK/ROCK CREEK AREA 4 INFLOW AND**  
**INFILTRATIONS (I/I) REDUCTION**  
**WATER SERVICES DEPARTMENT**

This amendment is between KANSAS CITY, MISSOURI, a constitutionally chartered municipal corporation (City), and CH2M Hill Engineers, Inc. (Design Professional). The parties amend the Agreement entered into on July 26, 2018, as follows:

WHEREAS, City has previously entered into a contract dated July 26, 2018, in the amount of \$715,000.00; and

WHEREAS, City has executed Amendment No. 1, in the amount of \$127,000.00 to amend the total contract to \$842,000.00; and

WHEREAS, the City desires to execute Amendment No. 2, in the amount of \$323,000.00, to amend the total contract amount to \$ 1,165,000.00; and

NOW, THEREFORE, in consideration of the payments and mutual agreements contained in this Amendment No. 2, City and Design Professional agree as follows:

**Sec. 1. Sections Amended.** The Contract is amended as follows:

- A. Add the following section(s):
  - a. Under Attachment A – Scope of Services, add Attachment A2 – Scope of Services for Construction Phase Services, attached herein;
  - b. Under Attachment C – Engineering Fee Summary, add Attachment C2 – Engineering Fee Summary for Construction Phase Services, attached herein;
  - c. Sec. 8. Responsibilities of City., Subparagraph F:  
Evaluate Contractor’s performance at key contractual milestones per the City’s Water Services Department's (WSD) Design Professional Evaluation Process. WSD may elect to have additional evaluations during construction phase services or at the end of construction phase if applicable. Evaluations shall be submitted by the WSD Project Manager to the Contractor’s Project Manager and Project Principal responsible for delivering the contractual obligations of this Agreement. Contractor shall have the opportunity to comment on the evaluation and request a meeting to discuss the evaluation.
  
- B. Delete and replace the following section(s):
  - a. Delete Sec. 4. Compensation and Reimbursables, Subparagraphs 1-4 and replace with the following Sec. 4. Compensation and Reimbursables, Subparagraphs 1-4:
    - A. The maximum amount that City shall pay Design Professional under this

Agreement is \$1,165,000.00 as follows:

1. \$765,934.00 for the services performed by Design Professional under this Agreement.
2. For Design Professional services described in the Scope of Services, City shall pay Design Professional compensation amounting to actual salary of personnel for time charges directly to the project, times an Approved Multiplier. The multiplier to be used shall not exceed 3.04. Engineering Fee Summary and Schedule of Position Classifications and the salary range for each position is included as a part of **Attachment C**. In addition, field investigation labor will be compensated on a unit price basis using the unit prices listed in **Attachment D**.

Design Professional and approved subcontractors may negotiate to revise their Schedules of Hourly Rates and Expenses annually and will submit the revised Schedule of Hourly Rates and Expenses to the City each year that this Agreement is in effect. Revisions will only be made after 12 months have passed from the contract execution date or the most recent rate revision. Subject to City approval, the revised Schedule of Hourly Rates and Expenses shall become effective with regard to this Agreement and the Services performed under any particular Contract Amendments on the date the City approves the revised Schedule.

3. Actual reasonable expenses incurred by Design Professional directly related to Design Professional's performance under this Agreement, to include only the following, in an amount not to exceed \$321,266.00. The following are the reimbursable expenses that City has approved: subcontractor direct costs paid by Design Professional, outside reproduction of final deliverables, local transportation in the project area, and public outreach materials. Subcontractor's office personnel labor costs be included in the unit prices for field investigation work. Compensation for subcontractor field investigations shall be based on the unit prices listed in **Attachment D**.
4. Design Professionals' maximum amount shown in Sec. 4, Compensation and Reimbursables, includes a total allowance amount of seventy-seven thousand eight hundred dollars (\$77,800.00) for Optional Services not yet authorized by the City that may be required throughout the course of work. This allowance amount will not be utilized by Design Professional unless specifically authorized in writing by the City to perform Optional Services. Optional Services will not be performed, nor is the Design Professional approved to utilize any allowance monies unless the City provides written authorization to Design Professional that includes the scope of work for each optional task to be performed and a maximum billing limit for compensation that has been mutually agreed upon.

**Sec. 2. Sections not Amended.** All other sections of the Agreement shall remain in full force and effect.

**Sec. 3. Authorization.** If the amount of the original Agreement plus the amount of any amendments to the original Agreement total over \$400,000.00, then this amendment requires City Council authorization. Notwithstanding the foregoing, City Council authorization is not required if (1) the total amount of the original Agreement plus the amount of any amendments to the original Agreement are within ten percent (10%) of the maximum amount authorized by the City Council or (2) a previous ordinance or Resolution authorized amendments without further City Council approval.

**Sec. 4. Effectiveness; Date.** This amendment will become effective when the City’s Director of Finance has signed it. The date this amendment is signed by the City’s Director of Finance will be deemed the date of this amendment.

Each party is signing this amendment on the date stated opposite that party’s signature.

**DESIGN PROFESSIONAL**

I hereby certify that I have authority to execute this document on behalf of Design Professional

Date: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

**KANSAS CITY, MISSOURI**

Date: \_\_\_\_\_

By: \_\_\_\_\_

Name: Srimi Vallabhaneni

Title: Smart Sewer Officer

Smart Sewer & Stormwater Divisions

Approved as to form:

\_\_\_\_\_  
Assistant City Attorney

I hereby certify that there is a balance, otherwise unencumbered, to the credit of the appropriation to which the foregoing expenditure is to be charged, and a cash balance, otherwise unencumbered, in the Treasury, to the credit of the fund from which payment is to be made, each sufficient to meet the obligation hereby incurred.

\_\_\_\_\_  
Director of Finance (Date)

**ATTACHMENT A2**  
**SCOPE OF SERVICES**  
**CONSTRUCTION PHASE SERVICES**

**DESIGN PROFESSIONAL:** CH2M HILL ENGINEERS, INC.

**OWNER:** CITY OF KANSAS CITY, MISSOURI  
WATER SERVICES DEPARTMENT

**PROJECT:** LINE CREEK/ROCK CREEK AREA 4 INFLOW  
AND INFILTRATION (I/I) REDUCTION PROJECT

**WSD CONTRACT NO:** AMENDMENT NO. 2 TO CONTRACT NO. 1402

**WSD PROJECT NO:** 81000802

**I. GENERAL**

The following paragraphs provide a general description of the work required of this Scope of Services. Subsequent paragraphs describe in detail the Construction Phase Services to be provided by DESIGN PROFESSIONAL to facilitate rehabilitation of the sanitary sewer system located in the Line Creek/Rock Creek Basin in Kansas City, Clay and Platte County, Missouri.

- A. The Project. The Water Services Department (WSD) of the City of Kansas City (CITY), Missouri, intends to rehabilitate sanitary sewers 8-inch to 24-inch in diameter, related manholes and service laterals within the Line Creek/Rock Creek Basin watershed. The project, Inflow and Infiltration (I/I) Reduction: Line Creek/Rock Creek Areas 3 & 4 comprises two separate projects - Line Creek/Rock Creek Area 3 Inflow and Infiltration (I/I) Reduction and Line Creek/Rock Creek Area 4 Inflow and Infiltration (I/I) Reduction – located in two separate areas, Area 3 and Area 4, and contracted to two separate Design Professionals. The Design Professional for this Scope of Services herein referred to as DESIGN PROFESSIONAL. Line Creek/Rock Creek Area 3 Inflow and Infiltration (I/I) Reduction herein referred to LC/RC3 and Line Creek/Rock Creek Area 4 Inflow and Infiltration (I/I) Reduction herein referred to LC/RC4.

The DESIGN PROFESSIONAL has developed Construction Contract Documents for LC/RC4 and under this Amendment No. 2, the CITY is contracting with DESIGN PROFESSIONAL to perform Construction Phase Services for LC/RC4 and support select tasks on LC/RC3. Select tasks for this Scope of Services is herein referred to as SELECT TASKS. DESIGN PROFESSIONAL is required to provide support to the Design Professional for LC/RC3 on SELECT TASKS for LC/RC4. SELECT TASKS shall require coordination with Design Professional for the LC/RC3 Project Area.



- B. Federal Consent Decree. This project is included in the Federal Consent Decree pertaining to the City of Kansas City, Missouri's Smart Sewer Program. As such, requirements of the Federal Consent Decree must be adhered to by the DESIGN PROFESSIONAL and its subconsultants and subcontractors.
- C. Background Information. The CITY is undertaking this Project as mandated by the Federal Consent Decree to prepare construction contract documents for this project as part of the Smart Sewer Program. The project will focus on infiltration reduction improvements through rehabilitation of public sanitary sewers and manholes within the project area.

The DESIGN PROFESSIONAL shall conduct the work in accordance with the most recent version of WSD's protocols. This scope of work shall take precedence over the protocols, in case of discrepancies.

- D. Task Series Listing. This Scope of Services to be performed by DESIGN PROFESSIONAL is organized under the following Task Series:

Construction Phase Services

1. Task Series 1100 – Project Management and Administration
2. Task Series 1200 – Public Involvement and Coordination
3. Task Series 1300 – Construction Phase Engineering Services
4. Task Series 1400 – Resident Project Representative Services
5. Task Series 1500 – Project Close Out

- E. Follow-On Phases. At the discretion of the CITY, the DESIGN PROFESSIONAL may be requested to provide additional services concerning the Project.
- F. Explicit Responsibilities. This Scope of Services explicitly sets forth what DESIGN PROFESSIONAL shall perform and does not implicitly put any additional responsibilities or duties upon DESIGN PROFESSIONAL.
- G. Out of Scope Services. DESIGN PROFESSIONAL agrees to provide the specific Scope of Services as identified herein. Work, not specifically discussed herein, shall not be performed without an amendment or shall be provided as Optional Services upon written authorization from the CITY.
- H. Responsibilities of CITY and SMART SEWER PROGRAM MANAGEMENT TEAM (SSP Team).
  1. The CITY's assigned project manager will coordinate communication and all activities with all CITY staff including other City Departments.
  2. The CITY's assigned project manager will serve as the primary point of contact with the DESIGN PROFESSIONAL.
  3. CONTRACTOR will provide a construction office for use by DESIGN

PROFESSIONAL's Resident Project Representative (RPR) and DESIGN PROFESSIONAL's Assistant Resident Project Representatives (ARPRs).

4. The DESIGN PROFESSIONAL shall be responsible for site safety of DESIGN PROFESSIONAL's staff and subcontract employees. The DESIGN PROFESSIONAL shall supply the required safety equipment and shall ensure that all DESIGN PROFESSIONAL employees and subcontractor employees are properly equipped and trained in all safety procedures and precautions.
  5. The CITY will provide one CONSTRUCTION MANAGER (CM) that will support the CITY's Project Manager (PM). CM will support the PM in facilitating the timely resolution of construction related issues that arise working collaboratively with DESIGN PROFESSIONAL and its RPR, Field Operations Managers (FOM) and Contractors.
  6. The CITY will provide FOMs to monitor the performance of RPRs and serve as a field resource to the CM and the CITY's PM to assist with the review of contractor pay applications, work change directives, and change orders, resolving field construction issues, and evaluating contractor claims. FOMs will also monitor the performance of the DESIGN PROFESSIONAL's RPRs and verify they understand their roles and responsibilities and are performing them to the CITY's satisfaction.
  7. The SSP Team is defined as the specific employees of the CITY and the CITY's Smart Sewer program management consultant and their sub-consultants responsible for oversight of the Smart Sewer Program on behalf of the CITY. SSP Team does not include all employees of the various CITY departments that will be involved in the project development. The DESIGN PROFESSIONAL will work directly with the SSP Team throughout the development of the project.
  8. Evaluate Contractor's performance at key contractual milestones per the City's Water Services Department's (WSD) Design Professional Evaluation Process. WSD may elect to have additional evaluations during construction phase services or at the end of construction phase if applicable. Evaluations shall be submitted by the WSD Project Manager to the Contractor's Project Manager and Project Principal responsible for delivering the contractual obligations of this Agreement. Contractor shall have the opportunity to comment on the evaluation and request a meeting to discuss the evaluation.
- I. Limits of Authority. DESIGN PROFESSIONAL shall make reasonable efforts to ensure that the completed work shall conform to the Construction Contract Documents. On the basis of site visits and on-site observations, DESIGN PROFESSIONAL shall keep CITY informed of the progress of the work and shall endeavor to guard CITY against defective work. DESIGN PROFESSIONAL's site visits and on-site observations are subject to all the limitations on DESIGN PROFESSIONAL's authority and responsibility set forth below.
1. DESIGN PROFESSIONAL shall furnish RPR staff for LC/RC4 to assist DESIGN PROFESSIONAL in providing more extensive observation of the work. The

responsibilities, authority and limitations thereon of any such RPR and assistants shall be as provided herein.

2. DESIGN PROFESSIONAL's authority or responsibility under this agreement shall not create, impose or give rise to any duty owed by DESIGN PROFESSIONAL to Design Professional of LC/RC3 Project Area, CONTRACTOR, any subcontractor, any supplier, any other person or organization, or to any surety for or employee or agent of any of them.
3. DESIGN PROFESSIONAL shall not supervise, direct, control or have authority over or be responsible for CONTRACTOR's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws or Regulations applicable to the furnishing or performance of the work. DESIGN PROFESSIONAL shall not be responsible for CONTRACTOR's failure to perform or furnish the work in accordance with the construction contract documents.
4. DESIGN PROFESSIONAL shall have authority to disapprove or reject work which DESIGN PROFESSIONAL believes to be defective, that DESIGN PROFESSIONAL believes will not produce a completed project that conforms to the construction contract documents, or that will prejudice the integrity of the design concept of the completed project as a functioning whole as indicated by the construction contract documents.
5. DESIGN PROFESSIONAL shall not be responsible for the acts or omissions of CONTRACTOR or of any subcontractor, any supplier, or of any other person or organization performing or furnishing any of the work.
6. DESIGN PROFESSIONAL's review of the final Application for Payment and accompanying documentation, and all maintenance and operating instructions, schedules, guarantees, bonds and certificates of inspection, tests and approvals and other documentation required to be delivered shall only be to determine generally that their content complies with the requirements of the contract documents. In the case of certificates of inspections, tests and approvals, DESIGN PROFESSIONAL will generally determine that the results certified indicate compliance with the contract documents.

The limitations upon authority and responsibility set forth in this agreement shall also apply to DESIGN PROFESSIONAL's consultants, subconsultants, RPR's and assistants.

## **II. PROJECT MILESTONES AND CITY REVIEW REQUIREMENTS**

- A. DESIGN PROFESSIONAL shall complete the Task Series within the following calendar days. It is understood that the project milestones for this project shall be determined by the CITY and the CONTRACTOR:

1. Task Series 1100. DESIGN PROFESSIONAL shall complete this Task Series 1100 within four hundred and fifty (450) calendar days after authorization by CITY.
2. Task Series 1200. DESIGN PROFESSIONAL shall complete Task Series 1200 within three hundred and sixty (360) calendar days after authorization by CITY.
3. Task Series 1300 to 1400. DESIGN PROFESSIONAL shall complete Task Series 1300 to 1400 within three hundred and sixty (360) calendar days after CITY's issuance of a Notice to Proceed to CONTRACTOR.
4. Task Series 1500. DESIGN PROFESSIONAL shall complete Task Series 1500 within ninety (90) calendar days of either the CONTRACTOR's Submittal of Construction Record Markups, or DESIGN PROFESSIONAL's review of CONTRACTOR's Final Application for Payment, whichever occurs later.
5. DESIGN PROFESSIONAL's completion schedule may be extended by the CITY for delays beyond the reasonable control of the DESIGN PROFESSIONAL or as approved by the CITY.

### **III. BASIC SCOPE OF SERVICES FOR CONSTRUCTION PHASE SERVICES**

The following Task Series describe the Basic Scope of Services for Construction Phase Services to be provided by the DESIGN PROFESSIONAL under the Project. Tasks required for coordination with the Design Professional for LC/RC3 will be noted as SELECT TASKS.

#### **TASK SERIES 1100 - PROJECT MANAGEMENT AND ADMINISTRATION**

The purpose of Project Management and Administration shall be to manage, direct and oversee each element of the Basic Scope of Services identified herein and subcontractors employed by the DESIGN PROFESSIONAL in completion of the work. The management tasks listed below shall be provided by DESIGN PROFESSIONAL. Project management and administration for Task Series 1100 through 1500 is included in Task Series 1100. It is assumed that construction phase services and design services will be concurrent. SELECT TASKS are specified herein under this Task Series.

##### **Task 1101 Project Management Services**

DESIGN PROFESSIONAL shall provide project management services necessary throughout the project to successfully manage and complete the work. This includes project correspondence and consultation with CITY staff related to DESIGN PROFESSIONAL's Scope of Services; supervision and coordination of services; scheduling and assignment of personnel resources; and continuous monitoring of DESIGN PROFESSIONAL's work progress. DESIGN PROFESSIONAL's Quality Control Program shall be implemented on all phases of the project to provide an independent review of the work. Quality control reviews shall include checks for completeness and correctness of evaluations, change order design accuracy, feasibility of implementing recommendations, and adherence to contract requirements. Level of effort is based on nine (9) months.

### **Task 1102 Monthly Invoicing**

DESIGN PROFESSIONAL shall prepare and submit monthly invoices on a form acceptable to the CITY. PDF copies of monthly invoices shall be uploaded to the CITY's web-based document management system. Ten (10) invoices are assumed.

### **Task 1103 Monthly Project Status Report**

DESIGN PROFESSIONAL shall prepare and submit a monthly project status report on forms acceptable to the CITY. PDF copies of each project status report shall be uploaded to the CITY's web-based document management system (eBuilder). A project status report shall accompany each monthly invoice submittal. The monthly progress status reports shall document, at the Task Series level, work progress, the percentage of completed work, schedule status, and budget status. The monthly project status report shall identify work performed by DESIGN PROFESSIONAL, the work activities anticipated to be performed the next month, action items required by CITY, potential project scope variances with corrective action, a general assessment of DESIGN PROFESSIONAL's ability to meet HRD approved M/WBE participation goals and project schedule milestones, including identification of any delays beyond its control, and an estimate of work percent completion for each Task Series in the Scope of Services based on the work completed. A short narrative shall be provided to describe the work activity performed for each task within each Task Series.

Provide a detailed invoice forecast schedule for performance of all work through the end of the contract period. The invoice forecast schedule, including a breakdown of monthly DESIGN PROFESSIONAL, MBE, and WBE invoice amounts versus forecasted monthly amounts, shall indicate the planned value of work to be invoiced on a monthly basis through project completion. The DESIGN PROFESSIONAL shall provide a tracking graph of the forecast and results to date of invoice period that clearly shows progress to date.

### **Task 1104 Subconsultant Agreements and Administration**

Prepare a scope, budget, schedule, and agreement for its subconsultants involved in the Project. Conduct coordination meetings as required to prepare subconsultant agreements, to review deliverables, and to execute the defined scope of work. Provide administration of subconsultant agreements and subconsultant work including deliverables, subcontractor invoicing, and schedule maintenance. Prepare monthly M/WBE subcontractor utilization reports and submit in the required format to the CITY's Human Relations Department.

## **TASK SERIES 1200 - PUBLIC INVOLVEMENT AND COORDINATION**

SELECT TASKS are specified herein under this Task Series.

### **Task 1201 Public Meeting**

DESIGN PROFESSIONAL shall work with CITY facilitate one public meeting prior to the start of construction. The CITY shall coordinate the public meeting. The purpose of the public meeting is to introduce the CONTRACTOR and DESIGN PROFESSIONAL/RPR, present

CONTRACTOR's preliminary schedule and milestones, construction specifics, and to inform the public of what to expect during construction. DESIGN PROFESSIONAL's project manager, and RPR will attend the meeting. CITY shall prepare for the public meeting with the assistance of the DESIGN PROFESSIONAL. DESIGN PROFESSIONAL shall assist the CITY by providing two (2) exhibits on presentation board, two (2) D-size LC/RC4 Construction Contract Drawings and responding to questions. Travel expense is budgeted from the DESIGN PROFESSIONAL's office to the Public Meeting location. Actual mileage up to 30 miles each way shall be charged.

**Task 1202 Correspondence and Tracking 311 Cases**

Task 1202 is a SELECT TASK. DESIGN PROFESSIONAL shall respond to 311 cases, if necessary, and will track all 311 cases regarding the LC/RC4 Project Area. DESIGN PROFESSIONAL shall track the date the 311 case was given to the DESIGN PROFESSIONAL, RPR and CONTRACTOR, address(es) involved, the specific issue, how it was resolved, and when it was resolved. All open 311 cases will be discussed at each monthly progress meeting. Four (4) 311 cases are assumed with a level of effort of one (1) hour of Project Manager time and one (1) hour of administrative time each. Additional time spent by RPR or ARPR shall be captured under Task Series 1400.

**TASK SERIES 1300 - CONSTRUCTION PHASE ENGINEERING SERVICES**

The DESIGN PROFESSIONAL's Project Manager and RPR will provide support to the Design Professional for LC/RC3 Project Area, who will act as the primary point of contact with the CONTRACTOR. All contractual written communication regarding scope, schedule and costs with the CONTRACTOR will be authorized by the CITY's Project Manager. Other project and field related written communications, such as RFI's, Shop Drawings, etc. can be submitted between the CONTRACTOR and DESIGN PROFESSIONAL and all written communication of any kind shall be copied to the CITY's Project Manager. All major project decisions related to potential design modification, construction schedule extensions, and contract price adjustments must be approved in writing by the CITY. All the correspondence identified in this paragraph and during construction shall be maintained on eBuilder, the CITY's document management system. SELECT TASKS are specified herein under this Task Series.

**Task 1301 Review CONTRACTOR's Schedules**

Task 1301 is a SELECT TASK. RPR shall coordinate with and provide support to the Design Professional for LC/RC3 Project Area to review CONTRACTOR's schedule.

**Task 1302 Meetings, Conferences, and Site Visits**

Task 1302 is a SELECT TASK

1. DESIGN PROFESSIONAL shall assist the Design Professional for LC/RC3 Project Area to facilitate a two (2) hour pre-construction conference with the CITY and CONTRACTOR to review the project communication, coordination and other procedures and discuss the CONTRACTOR's general work plan and requirements for the project. DESIGN PROFESSIONAL shall coordinate with Design Professional

for LC/RC3 Project area and provide the necessary information required to support the execution of this Task .

2. DESIGN PROFESSIONAL shall attend up to nine (9) monthly progress meetings, with CITY and CONTRACTOR, when necessary, to review and discuss construction procedures and progress scheduling, construction administration procedures and other matters concerning the project. CONTRACTOR shall be required to distribute updated schedules and agendas in advance of the monthly progress meeting, keep notes during the meeting, and distribute notes for comment prior to issuing final meeting notes to all parties in attendance. DESIGN PROFESSIONAL shall review CONTRACTOR meeting notes and provide comments to CITY, or if directed by CITY, provide comments directly to CONTRACTOR.
3. DESIGN PROFESSIONAL shall visit the site to observe the construction activities for general conformance with the intent of the technical specifications and drawings prior to certification of applications of payment and to assist with resolution of field issues during the project. The DESIGN PROFESSIONAL shall perform up to nine (9) periodic one-hour site visits. Periodic site visits are in addition to site visits that coincide with monthly progress meetings, the Achievement of Full Operation inspection, and the final completion inspection.

### **Task 1303 Document Management and Work Tracking Application**

DESIGN PROFESSIONAL shall utilize the CITY's web-based document management system (eBuilder) for managing, tracking and storing documents associated with the project. DESIGN PROFESSIONAL, RPR, and staff shall attend training on CITY's web-based document management system prior to start of construction. Documents will include, but are not limited to, shop drawings, submittals, correspondence, change orders, work change directives, project status reports, pay requests, inspection reports, daily logs, meeting minutes, progress photos, and correspondence between the CONTRACTOR, DESIGN PROFESSIONAL and CITY produced during construction. DESIGN PROFESSIONAL shall comply with file protocols and procedures for the web-based document management system provided by the CITY.

DESIGN PROFESSIONAL shall enter final scheduled rehabilitation assets for LC/RC4 Project Area into the CITY's web-based work order management application for work order creation. DESIGN PROFESSIONAL shall follow the work tracking application user protocol provided by the CITY. DESIGN PROFESSIONAL shall update the work orders on a monthly basis as construction is completed and notify the CITY when work orders may be closed.

### **Task 1304 Shop Drawings and Data Submittals**

Task 1304 is a SELECT TASK. RPR shall coordinate with and provide support to submit shop drawings and other required data for LC/RC4 to the Design Professional for LC/RC3 Project Area.

### **Task 1305 Payment Requisitions**

Task 1305 is a SELECT TASK. DESIGN PROFESSIONAL shall coordinate with Design Professional for LC/RC3 Project area and provide the necessary information required to support the execution of this Task.

### **Task 1306 Interpretations of Contract Documents**

DESIGN PROFESSIONAL shall issue with reasonable promptness written clarifications or interpretations (which may be in the form of Drawings) of the requirements of the Construction Contract Drawings and Specifications prepared by the DESIGN PROFESSIONAL. Interpretation of documents prepared by the CITY shall be performed by the CITY. DESIGN PROFESSIONAL's interpretations, proposed responses to RFIs, and clarifications shall be provided to the CITY for review and approval. The final version will be distributed by the DESIGN PROFESSIONAL to the CONTRACTOR, CITY, and RPR.

### **Task 1307 Assist in Evaluating Claims and Preparation of Allowance Authorizations and Change Order Requests**

Task 1307 is a SELECT TASK. DESIGN PROFESSIONAL shall coordinate with Design Professional for LC/RC3 Project area and provide the necessary information required to support the execution of this Task.

### **Task 1308 Post-Rehabilitation Submittal Reviews**

1. DESIGN PROFESSIONAL shall review up to 6,000 linear feet of post-rehabilitation CIPP CCTV inspection records and associated full wrap CIPP Short or Long Liner service connections as submitted by the CONTRACTOR throughout the project in LC/RC4 Project Area prior to approving CONTRACTOR's monthly pay application. DESIGN PROFESSIONAL's staff reviewing the CCTV inspection records shall be PACP certified.
2. DESIGN PROFESSIONAL shall review up to 6,000 linear feet in the LC/RC4 Project Area, of the Contractor's final completion post rehabilitation CCTV submittal package prior to achievement of full operation, including all full wrap CIPP Short or Long Liner and open cut lateral connection replacements post-rehabilitation CCTV records, as submitted by the CONTRACTOR at the end of the project for final acceptance. DESIGN PROFESSIONAL shall provide a summary of the condition of the CCTV inspected assets and any defects recorded for the Punch List. DESIGN PROFESSIONAL's staff shall be PACP certified.

### **Task 1309 Achievement of Full Operation Review and Final Completion Inspection**

Task 1309, Subtask 3 is a SELECT TASK.

1. Achievement of Full Operation Review: DESIGN PROFESSIONAL shall perform an inspection to determine the status of completion and develop a punch list of deficiencies requiring completion or correction at achievement of full operation. DESIGN



PROFESSIONAL shall submit to the CITY a statement of achievement of full operation for LC/RC4 Project Area.

2. Final Completion Inspection: DESIGN PROFESSIONAL shall perform a final inspection of the work and shall complete a punch list of deficiencies requiring completion or correction. DESIGN PROFESSIONAL shall submit to the CITY a statement of final completion for LC/RC4 Project Area.
3. DESIGN PROFESSIONAL shall coordinate with and support the Design Professional for the LC/RC3 Project Area review of the Final Application for Payment submitted by CONTRACTOR.

### **TASK SERIES 1400 - RESIDENT PROJECT REPRESENTATIVE SERVICES**

DESIGN PROFESSIONAL shall provide a full time Resident Project Representative (RPR) to provide field observation services. The duration of RPR services is based on a three hundred and sixty (360) calendar day period to Achievement of Full Operation and a ninety (90) calendar day closeout period for the project. This contract period is based on the entire project including LC/RC3 and LC/RC4 project areas. The assumptions for the RPR hours are based on the LC/RC4 Project Area constituting 50% of the overall project work. DESIGN PROFESSIONAL shall submit the resumes of proposed RPR candidates to CITY for its consideration and selection of RPRs to perform RPR services. CITY reserves the right to conduct informal interviews of the proposed RPR candidates and select the candidate(s) that CITY concludes to be qualified to perform RPR services.

The role of the RPR will be that of the lead observer and primary liaison with the CITY and CONTRACTOR's Superintendent. DESIGN PROFESSIONAL's RPR services include site visits for observation, attendance at monthly progress meetings, and an Achievement of Full Operation review. After Achievement of Full Operation, the RPR will participate in the Final Inspection, review the final Application for Payment, and review the CONTRACTOR'S final record drawing submittal. On a monthly basis, RPR shall review for accuracy and completeness the Contractor's record drawings.

RPR is DESIGN PROFESSIONAL's Agent at the site, shall act as directed by and under the supervision of DESIGN PROFESSIONAL, and shall confer with DESIGN PROFESSIONAL regarding their actions. RPR's dealing in matters pertaining to the on-site work shall in general be only with DESIGN PROFESSIONAL and CONTRACTOR, and dealings with subcontractors shall only be through or with the full knowledge of the CONTRACTOR.

1. Anticipated RPR Level of Effort on LC/RC4: To establish the basis for DESIGN PROFESSIONAL's compensation for resident inspection, the RPR's effort for Task Series 1400 is limited to 1150 hours. This is based on the assumption that a total of 2,300 RPR hours will be required for the entire project and the LC/RC4 project area constitutes 50% of the overall hours. The RPR's effort for the entire project is based on six (6) weeks at 20 hours per week, forty (40) weeks at 40 hours per week, ten (10) weeks at 50 hours per week, and an eight (8) weeks final completion at 10 hours per week for total of 2300 RPR hours will be required for the entire project. Travel time up to an hour to

and from the site and undefined travel within the site is included in the RPR level of effort.

2. DESIGN PROFESSIONAL shall manage the effort associated with Tasks so that the work is completed within the allotted budgets based on the anticipated durations for RPR services. DESIGN PROFESSIONAL shall coordinate with the CITY on the desired level of effort on each task to provide the CITY with the services desired and achievable with the budgeted hours
3. General Responsibilities: RPR shall be present for pre-construction photography/video and as necessary from the CONTRACTOR's mobilization until final completion of the work or up to the budgeted number of hours indicated herein. The RPR shall be responsible to perform site observation and liaison tasks with the CONTRACTOR, CITY, DESIGN PROFESSIONAL, public and other agencies; tasks involving monthly progress meetings, daily and weekly reporting, document review and maintenance and conducting Achievement of Full Operation review and final completion inspections of the work.

#### **Task 1401 Contractor Schedules**

RPR shall review the CONTRACTOR's monthly construction schedules for conformance of work completed to date and activity sequences. RPR shall provide comments to DESIGN PROFESSIONAL, who shall review comments and include with DESIGN PROFESSIONAL's review comments to the CITY concerning acceptability of schedules. CITY shall have final approval authority.

#### **Task 1402 Preconstruction Conference, Meetings, and Field Conferences**

Task 1402 is a SELECT TASK. DESIGN PROFESSIONAL and RPR shall attend the two-hour preconstruction conference and up to six (6) one-hour monthly progress meetings and up to two (2) other one-hour meetings with CITY and CONTRACTOR, when necessary, to review and discuss construction procedures and progress scheduling, construction administration procedures and other matters concerning the project. RPR shall also meet for one (1) hour monthly for 12 months with RPR from LC/RC3 to review CONTRACTOR'S Schedule and Pay Application. CONTRACTOR shall be required to distribute updated schedules and agendas in advance of the meeting, keep notes of the meeting, and distribute notes for comment prior to issuing final meeting notes to all parties in attendance. The RPR is assumed to already be on-site for the monthly project and RPR meetings.

#### **Task 1403 Liaison**

RPR shall serve as the CITY's and DESIGN PROFESSIONAL's liaison with CONTRACTOR, working principally through CONTRACTOR's superintendent to assist CONTRACTOR in understanding the intent of the Contract Documents. RPR shall provide the following liaison services, as limited by the budgeted hours.

1. Discuss work activities on site with the CONTRACTOR on a daily basis. When the CONTRACTOR does not perform work in the field, provide a report to the CITY

indicating that there was no work performed. Track weather conditions on days when the CONTRACTOR does not perform work on the site, include weather conditions in the report.

2. Be aware of construction site activities while on-site and document for the CITY in a daily report. Awareness of job site activities, at times when the RPR is not on-site, is limited to that which is reported to the RPR by the CONTRACTOR by telephone.
3. Track the CONTRACTOR's progress on a daily basis and document in a daily report to be submitted to CITY. Keep a running record of work performed. Record shall be in sufficient detail that it will be useful in evaluating the CONTRACTOR's status reports and applications for payment. Track which assets have been replaced or constructed, street address of service laterals replaced or rehabilitated, and manholes that have been rehabilitated, constructed or replaced. Record shall include quantities for payment (by asset, daily totals and to-date totals), and dates of rehabilitation, construction or replacement of each asset. Since RPR will not be observing all of the construction work, record will rely upon daily conversations with the CONTRACTOR to obtain work performed and quantities constructed. Maintain the record in Microsoft Excel and on a hard copy map; provide copies of the Excel file and hard copy map with the monthly report.
4. Provide a monthly summary of work completed by the CONTRACTOR on CITY approved record documents in the Monthly Construction Phase Services Project Status Report.
5. Witness and document testing performed by the CONTRACTOR.
6. Inspection and approval of open cut point repairs, service line repair/replacement, and manhole lining shall be the CITY's standard inspection method, by the RPR. Construction quantities, addresses, dates, etc., shall be tracked by the RPR.
7. Assist the City's Project Manager in addressing 311 action center cases. RPR shall document all public communications and coordinate all issues directly with the City's Project Manager.
8. Review claims and support DP and City PM in preparing Allowance Authorizations and Change Requests.

#### **Task 1404 Review of Work, Rejection of Defective Work, Inspections and Test**

1. RPR shall conduct on-site observations of the work in progress to assist CITY and DESIGN PROFESSIONAL in determining if the work, in general, is proceeding in accordance with the contract documents.
2. RPR shall report to DESIGN PROFESSIONAL whenever they believe that any work is unsatisfactory, faulty or defective or does not conform to the contract documents, or does not meet the requirements of any inspections, tests or approval required to be made or has been damaged prior to final payment; and advise DESIGN PROFESSIONAL when they believe that work should be corrected or rejected or should be uncovered for observation, or requires special testing, inspection or approval. DESIGN PROFESSIONAL shall report unsatisfactory work to the CITY.

3. RPR shall verify that tests are conducted as required by the contract document and in the presence of the required personnel, and that CONTRACTOR maintains adequate records thereof; observe, record and report to DESIGN PROFESSIONAL appropriate details relative to the test procedures and startups. This task is limited to that which the RPR can perform when the RPR is on site.
4. RPR shall accompany visiting inspectors representing public or other agencies having jurisdiction over the project, record the outcome of these inspections, and report to DESIGN PROFESSIONAL and CITY. This task is limited to that which the RPR can perform when the RPR is on site.

All RPR travel expense is budgeted under this task and based on travel from the DESIGN PROFESSIONAL's office for two hundred and twenty-five (225) calendar days at the site. Actual mileage up to 30 miles each way will be charged

#### **Task 1405 Records**

1. RPR shall maintain in the trailer, orderly files for correspondence, reports of job conferences, shop drawings and samples submissions, reproductions of original Contract Documents, including all addenda, change orders and work change directives, field orders, additional drawings issued subsequent to the execution of the Contract, DESIGN PROFESSIONAL's clarifications, and interpretations of the contract documents, progress reports, and other project-related documents.
2. RPR shall keep a diary or logbook, recording CONTRACTOR hours on the job site, weather conditions, data relative to questions of extras or deductions, list of visiting officials and representatives of manufacturers, fabricators, suppliers and distributors, daily activities, decisions, observations in general and specific observations in more detail as in the case of observing test procedures. This task is limited to that which the RPR can perform when the RPR is on site, or as indicated by the CONTRACTOR when the RPR is not on site.
3. RPR shall record names, addresses, and telephone numbers of all contractors, subcontractors, and major suppliers of materials and equipment. This task is limited to that which the RPR can perform when the RPR is on site, or as indicated by the CONTRACTOR when the RPR is not on site.
4. Maintain a marked set of Drawings and Specifications at the site. This information will be combined with information from the record documents maintained by the CONTRACTOR, and a marked record set of conforming to construction documents will be provided to the CITY. The CONTRACTOR will be responsible for maintaining record drawings to be used for Construction Record Drawings as part of Task 1501.

#### **Task 1406 Reports and Document Review**

1. Submit to DESIGN PROFESSIONAL via the web-based document management system a daily report of RPR observed events at the job site, including the following information.

- a. Hours the CONTRACTOR worked on the job site.
  - b. CONTRACTOR and subcontractor personnel on job site (Daily Labor Force Report received from CONTRACTOR).
  - c. Construction equipment on the job site.
  - d. Observed delays and potential causes.
  - e. Weather conditions.
  - f. Data relative to claims for extras or deductions.
  - g. Daily construction activities and condition of the work.
  - h. Daily sign-off of quantities of work completed for unit price items (separate CITY-provided form shall be used).
  - i. Observations pertaining to the progress of the work. Materials received on job site.
  - j. Construction issues and resolutions or proposed resolutions to issues
2. Furnish DESIGN PROFESSIONAL and CITY periodic reports as required by the DESIGN PROFESSIONAL and/or CITY to detail progress of the work and CONTRACTOR's compliance with the approved progress schedule and schedule of shop drawing submissions.
  3. Consult with DESIGN PROFESSIONAL and CITY in advance of scheduled major tests, inspections, or start of important phases of the work.
  4. Report immediately to DESIGN PROFESSIONAL and CITY upon the occurrence of any accident.
  5. All reports shall be prepared using CITY-provided forms and uploaded to the web-based document management system.
  6. This task is limited to that which the RPR can perform when the RPR is on site, or as indicated by the CONTRACTOR when the RPR is not on site.

#### **Task 1407 Payment Requisitions**

RPR shall review up to 12 applications for payment with CONTRACTOR for compliance with the CITY's established procedure for their submission noting particularly their relation to the schedule of values, work completed and materials and equipment delivered at the site but not incorporated in the work.

#### **Task 1408 Achievement of Full Operation and Final Completion**

1. Achievement of Full Operation:

- a. Before DESIGN PROFESSIONAL reviews CONTRACTOR's progress towards Achievement of Full Operation, and after CONTRACTOR certifies project is ready for Achievement of Full Operation, RPR shall provide the DESIGN PROFESSIONAL with an opinion as to the project's readiness.
- b. RPR and DESIGN PROFESSIONAL shall conduct review of Achievement of Full Operation in the company of the CITY and CONTRACTOR. RPR and DESIGN PROFESSIONAL shall prepare a punch list of items to be completed or corrected by the CONTRACTOR. The punch list shall be submitted to the CITY for review and approval prior to distribution by the CITY or by the DESIGN PROFESSIONAL if requested by the CITY.

## 2. Final Completion

- a. RPR and DESIGN PROFESSIONAL shall conduct Final Completion inspection in the company of the CITY and CONTRACTOR. RPR and DESIGN PROFESSIONAL shall prepare a punch list of items to be completed or corrected by the CONTRACTOR. The punch list shall be submitted to the CITY for review and approval prior to distribution by the CITY or by the DESIGN PROFESSIONAL if requested by the CITY.
- b. RPR and DESIGN PROFESSIONAL shall verify that all items on punch list have been completed or corrected and make recommendations to the CITY concerning final acceptance.

### **TASK SERIES 1500 - PROJECT CLOSEOUT**

SELECT TASKS are specified herein under this Task Series.

#### **Task 1501 Construction Records Drawings**

Upon Achievement of Full Operation and the CONTRACTOR's submittal of record drawing markups, DESIGN PROFESSIONAL shall prepare a set of construction record drawings for LC/RC4 Project Area showing record information based on the drawings and other record documents furnished by the CONTRACTOR and the DESIGN PROFESSIONAL's RPR that show changes to original drawings made during construction. DESIGN PROFESSIONAL is not responsible for any errors or omissions in the information from others that is incorporated into the record drawings. DESIGN PROFESSIONAL shall provide one (1) D-size paper copy, an electronic version of LC/RC4 Project Area GIS and CAD files, and a PDF of LC/RC4 Project Area full size drawings. One revision of the documents is assumed in response to comments.

#### **Task 1502 Furnish CONTRACTOR'S Completion Documents**

Task 1502 is a SELECT TASK.

1. The RPR will close out the construction contract including punch list items, warranties, liens, functional and performance testing results, outstanding claims, and final payment

using the eBuilder document management system RPR will review these items with the Design Professional of LC/RC3 Project Area.

2. All RPR documents and records shall be provided to the CITY.

Task shall require coordination with the Design Professional for the LC/RC3 Project Area.

### **Task 1503 Project Closeout Documentation**

Task 1503 is a SELECT TASK. The DESIGN PROFESSIONAL shall review and submit applicable documents required by the CITY to the Design Professional for LC/RC3 pertaining to the project and turn over required documents from the RPR to the Design Professional for LC/RC3. DESIGN PROFESSIONAL will gather and consolidate its project files for long-term record storage. CITY's HRD project completion forms will be submitted with DESIGN PROFESSIONAL's final invoice. All documents will be provided electronically through the CITY's web-based document management system (eBuilder) for managing, tracking and storing documents associated with the project.

### **Task 1504 Update GIS**

The DESIGN PROFESSIONAL shall prepare and provide an updated ArcGIS geodatabase that follows the geodatabase update protocol provided by the CITY. DESIGN PROFESSIONAL shall update the GIS database based on construction record or "as-built" drawings provided by the CONTRACTOR. Updates to the GIS items such as: CIPP lining, full pipe replacement material/diameter changes, manhole rehabilitation, and new manholes. Any updated to the GIS database will be noted on the GIS feature by the DESIGN PROFESSIONAL in accordance with the GIS update protocol.

DESIGN PROFESSIONAL will be provided documentation that outlines the required GIS attributes per GIS layer to be edited and valid values for the attribute information. In addition to required attribute fields being populated, DESIGN PROFESSIONAL shall ensure pipe to structure connectivity is maintained within the database.

DESIGN PROFESSIONAL shall verify that data source/data flagging attribute fields in the GIS database template have been updated based on manhole inspections (completed by others), CCTV, smoke testing, and other field verifications. DESIGN PROFESSIONAL shall update any data source/data flagging attribute field that have not previously been entered for both City performed, and DESIGN PROFESSIONAL performed investigations.

## **IV. OPTIONAL SERVICES**

Any work requested by the CITY that is not specifically stated in the Basic Services listed above will be classified as Optional Services. DESIGN PROFESSIONAL's contract upper limit includes an Optional Services Allowance. This allowance is for additional professional services that may be required during the Project. Optional Services will not be performed nor is the DESIGN PROFESSIONAL approved to utilize any allowance monies unless specifically authorized in writing by the CITY. Compensation for Optional Services will be as mutually agreed upon and included in CITY's written authorization that will include the specific scope of work for each Optional Services task to be performed. Optional Services may include the following:

- A. Review of Requests for Substitutions submitted by the CONTRACTOR beyond those identified under the Basic Scope of Services.
- B. Additional meetings beyond those identified under the Basic Scope of Services.
- C. Review of submittals/shop drawings beyond those identified under the Basic Scope of Services.
- D. Assistance with development and evaluation of work change directives or change order requests beyond those identified under the Basic Scope of Services.
- E. Review of additional post-rehabilitation CCTV inspection records beyond those identified under the Basic Scope of Services.
- F. Resident Project Representative services in excess of the hours specified under the Basic Scope of Services.
- G. Meetings with public and local, State, or Federal agencies beyond those Specified under the Basic Scope of Services.
- H. Attendance at public meetings beyond those specified under the Basic Scope of Services.

(End of Scope of Services)



Attachment C2 - Amendment No. 2

Tasks	CH2M HILL Labor										MBE Subconsultants				CH2M HILL Expenses		
	3.04	PM	Project Acct/Contracts	Project Assistant	Project Engr	RPR	Field Engineer	QC	H&S MGR	CH2M HILL	MBE	MBE	Expenses	Sub. Labor	Photocopies, Shipping, Repro, Field Truck, Field Truck Fuel, Cell Phone, Hotspot, Etc.	Expenses	Task
	Name	JMcNiff	PA	K Albert	R Vasudevan	R Vasudevan	S Sieler	S Sieler	S Wehrspann	Task Labor	T&B PM	T&B RPR	Expenses	Subtotal	1	Subtotal	Subtotal
	Billing Rate	\$237.29	\$62.37	\$132.73	\$166.47	\$166.47	\$152.96	\$152.96	\$249.68	Subtotal	\$ 135.00	\$ 81.00					
<b>1100 Project Management and Admin</b>																	
1101 Project Management Services		36						9	8	\$ 11,917	16			\$ 2,160		\$ -	\$ 14,077
1102 Monthly Invoicing		20	10		20					\$ 8,699	8			\$ 1,080		\$ -	\$ 9,779
1103 Monthly Status Report		20			20					\$ 8,075				\$ -		\$ -	\$ 8,075
1104 Subconsultant Agreements and Administration		16	16	40						\$ 10,104	8			\$ 1,080		\$ -	\$ 11,184
<b>Task Series 1100 Labor Hour Subtotals</b>		<b>92</b>	<b>26</b>	<b>40</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>8</b>		<b>32</b>	<b>0</b>					
<b>Task Series 1100 Labor Fee Subtotals</b>		<b>\$ 21,831</b>	<b>\$ 1,622</b>	<b>\$ 5,309</b>	<b>\$ 6,659</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,377</b>	<b>\$ 1,997</b>	<b>\$ 38,794</b>	<b>\$ 4,320</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,320</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 43,114</b>
<b>1200 Public Involvement and Coordination</b>																	
1201 Public Meeting		4			16					\$ 3,613				\$ -	\$ 300	\$ 300	\$ 3,913
1202 Correspondence and Tracking 311 Cases		4			4					\$ 1,615				\$ -		\$ -	\$ 1,615
<b>Task Series 1200 Labor Hour Subtotals</b>		<b>8</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>					
<b>Task Series 1200 Labor Fee Subtotals</b>		<b>\$ 1,898</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,329</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,228</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 300</b>	<b>\$ 300</b>	<b>\$ 5,528</b>
<b>1300 Construction Phase Engineering Services</b>																	
1301 Review Contractor's Schedules		18				9				\$ 5,769				\$ -		\$ -	\$ 5,769
1302 Meetings, Conferences, and Site Visits		40				2				\$ 9,825				\$ -	\$ 400	\$ 400	\$ 10,225
1303 Document Management and Work Tracking Application		27			18		54			\$ 17,663				\$ -		\$ -	\$ 17,663
1304 Shop Drawings and Data Submittals					24					\$ 3,995				\$ -		\$ -	\$ 3,995
1305 Payment Requisitions		18								\$ 4,271				\$ -		\$ -	\$ 4,271
1306 Interpretations of Contract Documents		18					18			\$ 7,025				\$ -		\$ -	\$ 7,025
1307 Assist in Evaluating Claims and Preparation of Allowance Authorizations and Change Order Requests		27								\$ 6,407				\$ -		\$ -	\$ 6,407
1308 Post-Rehabilitation Submittal Reviews					32		36			\$ 10,834				\$ -		\$ -	\$ 10,834
1309 Achievement of Full Operation Review and Final Completion Inspection		8				40				\$ 8,557				\$ -		\$ -	\$ 8,557
<b>Task Series 1300 Labor Hour Subtotals</b>		<b>156</b>	<b>0</b>	<b>0</b>	<b>74</b>	<b>51</b>	<b>108</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>					
<b>Task Series 1300 Labor Fee Subtotals</b>		<b>\$ 37,017</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 12,319</b>	<b>\$ 8,490</b>	<b>\$ 16,520</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 74,346</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 400</b>	<b>\$ 400</b>	<b>\$ 74,746</b>
<b>1400 Resident Project Representative Services</b>						600				\$ 99,882		550	\$ 3,680	\$ 48,230	\$ 4,015	\$ 4,015	\$ 152,127
1401 Contractor Schedules										\$ -				\$ -		\$ -	\$ -
1402 Preconstruction Conference, Meetings, and Field Conferences										\$ -				\$ -		\$ -	\$ -
1403 Liaison										\$ -				\$ -		\$ -	\$ -
1404 Review of Work, Rejection of Defective Work, Inspections and Test										\$ -				\$ -		\$ -	\$ -
1405 Records										\$ -				\$ -		\$ -	\$ -
1406 Reports and Document Review										\$ -				\$ -		\$ -	\$ -
1407 Payment Requisitions										\$ -				\$ -		\$ -	\$ -
1408 Achievement of Full Operation and Final Completion Inspection										\$ -				\$ -		\$ -	\$ -
<b>Task Series 1400 Labor Hour Subtotals</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>550</b>					
<b>Task Series 1400 Labor Fee Subtotals</b>		<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 99,882</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 99,882</b>	<b>\$ -</b>	<b>\$ 44,550</b>	<b>\$ 3,680</b>	<b>\$ 48,230</b>	<b>\$ 4,015</b>	<b>\$ 4,015</b>	<b>\$ 152,127</b>

LCRC4  
 Construction Phase Services  
 6/1/2022

Attachment C2 - Amendment No. 2

Tasks	CH2M HILL Labor										MBE Subconsultants				CH2M HILL Expenses		
	3.04	PM	Project Acct/Contracts	Project Assistant	Project Engr	RPR	Field Engineer	QC	H&S MGR	CH2M HILL	MBE	MBE			Photocopies, Shipping, Repro, Field Truck, Field Truck Fuel, Cell Phone, Hotspot, Etc.		Task
	Name	JMcNiff	PA	K Albert	R Vasudevan	R Vasudevan	S Sieler	S Sieler	S Wehrspann	Task Labor	T&B PM	T&B RPR	Expenses	Sub. Labor	1	Expenses	Task
Tasks	Billing Rate	\$237.29	\$62.37	\$132.73	\$166.47	\$166.47	\$152.96	\$152.96	\$249.68	Subtotal	\$ 135.00	\$ 81.00		Subtotal		Subtotal	Subtotal
1500	<b>Project Closeout</b>																
1501	Construction Records Drawings	4			60		60			\$ 20,115				\$ -	\$ 250	\$ 250	\$ 20,365
1502	Furnish CONTRACTOR'S Completion Documents					24				\$ 3,995				\$ -		\$ -	\$ 3,995
1503	Project Closeout Documentation	8			8					\$ 3,230				\$ -		\$ -	\$ 3,230
1504	Update GIS				80		40			\$ 19,436				\$ -		\$ -	\$ 19,436
	<b>Task Series 1500 Labor Hour Subtotals</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>148</b>	<b>24</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>				
	<b>Task Series 1500 Labor Fee Subtotals</b>	<b>\$ 2,847</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 24,638</b>	<b>\$ 3,995</b>	<b>\$ 15,296</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 46,776</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 250</b>	<b>\$ 250</b>	<b>\$ 47,026</b>
	<b>Labor Hour Subtotal</b>	<b>268</b>	<b>26</b>	<b>40</b>	<b>282</b>	<b>675</b>	<b>208</b>	<b>9</b>	<b>8</b>	<b>32</b>	<b>550</b>						
	<b>Labor Fee Subtotal</b>	<b>\$ 63,594</b>	<b>\$ 1,622</b>	<b>\$ 5,309</b>	<b>\$ 46,945</b>	<b>\$ 112,367</b>	<b>\$ 31,816</b>	<b>\$ 1,377</b>	<b>\$ 1,997</b>	<b>\$ 265,026</b>	<b>\$ 4,320</b>	<b>\$ 44,550</b>	<b>\$ 3,680</b>	<b>\$ 52,550</b>	<b>\$ 4,965</b>	<b>\$ 4,965</b>	<b>\$ 322,541</b>
IV	<b>OPTIONAL SERVICES</b>																
	Miscellaneous	0	0	0	0	0	0	0	0	\$ -	0	0	\$ -	\$ -		\$ -	\$ -
	<b>Optional Services Hour Subtotal</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>				
	<b>Optional Services Fee Subtotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
	<b>Amendment Task Authorization Total Hours</b>	<b>268</b>	<b>26</b>	<b>40</b>	<b>282</b>	<b>675</b>	<b>208</b>	<b>9</b>	<b>8</b>	<b>32</b>	<b>550</b>						
	<b>Amendment Task Authorization Total Fee</b>	<b>\$ 63,594</b>	<b>\$ 1,622</b>	<b>\$ 5,309</b>	<b>\$ 46,945</b>	<b>\$ 112,367</b>	<b>\$ 31,816</b>	<b>\$ 1,377</b>	<b>\$ 1,997</b>	<b>\$ 265,026</b>			<b>\$ 3,680</b>	<b>\$ 52,550</b>	<b>\$ 4,965</b>	<b>\$ 4,965</b>	<b>\$ 322,541</b>
																	<b>Amendment #2 Fee (Tasks 1100-1500) \$ 323,000</b>
																	<b>Amendment #1 Contract Fee \$ 842,000</b>
																	<b>New Contract Fee \$ 1,165,000</b>