

A G R E E M E N T

THIS AGREEMENT is made between the **CITY AND COUNTY OF DENVER**, a municipal corporation of the State of Colorado (the “City”) and **CB&I ENVIRONMENTAL & INFRASTRUCTURE, INC.**, a Louisiana corporation, with its principal place of business located at 4171 Essen Lane, Baton Rouge, LA 70809 (the “Contractor”), jointly “the parties”.

The parties agree as follows:

1. COORDINATION AND LIAISON: The Contractor shall fully coordinate all services under the Agreement with the Executive Director of Public Works, (“Manager”) or, the Manager’s Designee.

2. SERVICES TO BE PERFORMED:

a. As the Manager directs, the Contractor shall diligently undertake, perform, and complete all of the services and produce all the deliverables set forth on **Exhibit A, the Scope of Work**, to the City’s satisfaction.

b. The Contractor is ready, willing, and able to provide the services required by this Agreement.

c. The Contractor shall faithfully perform the services in accordance with the standards of care, skill, training, diligence, and judgment provided by highly competent individuals performing services of a similar nature to those described in the Agreement and in accordance with the terms of the Agreement.

3. TERM: The Agreement will commence on December 15, 2016 and will expire on July 1, 2017 (the “Term”).

4. COMPENSATION AND PAYMENT:

a. Fee: The City shall pay and the Contractor shall accept as the sole compensation for services rendered and costs incurred under the Agreement the amount of for fees. Amounts billed may not exceed the rates set forth in **Exhibit B**.

b. Reimbursable Expenses: Except as set out in Exhibit B, there are no reimbursable expenses allowed under the Agreement. All of the Contractor’s expenses are contained in the rates in Exhibit B.

c. Invoicing: Contractor shall provide the City with a monthly invoice in a format and with a level of detail acceptable to the City including all supporting documentation

required by the City. The City's Prompt Payment Ordinance, §§ 20-107 to 20-118, D.R.M.C., applies to invoicing and payment under this Agreement.

d. Maximum Contract Amount:

(1) Notwithstanding any other provision of the Agreement, the City's maximum payment obligation will not exceed **SEVEN HUNDRED AND SIXTY THOUSAND DOLLARS** (\$760,000.00) (the "Maximum Contract Amount"). The City is not obligated to execute an Agreement or any amendments for any further services, including any services performed by Contractor beyond that specifically described in **Exhibits A and B**. Any services performed beyond those in Exhibits A and B are performed at Contractor's risk and without authorization under the Agreement.

(2) The City's payment obligation, whether direct or contingent, extends only to funds appropriated annually by the Denver City Council, paid into the Treasury of the City, and encumbered for the purpose of the Agreement. The City does not by this Agreement irrevocably pledge present cash reserves for payment or performance in future fiscal years. The Agreement does not and is not intended to create a multiple-fiscal year direct or indirect debt or financial obligation of the City.

5. STATUS OF CONTRACTOR: The Contractor is an independent contractor retained to perform professional or technical services for limited periods of time. Neither the Contractor nor any of its employees are employees or officers of the City under Chapter 18 of the Denver Revised Municipal Code, or for any purpose whatsoever.

6. TERMINATION:

a. The City has the right to terminate the Agreement with cause upon written notice effective immediately, and without cause upon twenty (20) days prior written notice to the Contractor. However, nothing gives the Contractor the right to perform services under the Agreement beyond the time when its services become unsatisfactory to the Manager. Contractor shall have the right to terminate this Agreement or suspend work under this Agreement due to an act of default which remains uncured after thirty days' notice, including non-payment, by the City.

b. Notwithstanding the preceding paragraph, the City may terminate the Agreement if the Contractor or any of its officers or employees are convicted, plead *nolo contendere*, enter into a formal agreement in which they admit guilt, enter a plea of guilty or

otherwise admit culpability to criminal offenses of bribery, kick backs, collusive bidding, bid-rigging, antitrust, fraud, undue influence, theft, racketeering, extortion or any offense of a similar nature in connection with Contractor's business. Termination for the reasons stated in this paragraph is effective upon receipt of notice.

c. Upon termination of the Agreement, with or without cause, the Contractor shall have no claim against the City by reason of, or arising out of, incidental or relating to termination, except for compensation for work duly requested and satisfactorily performed as described in the Agreement.

d. If the Agreement is terminated, the City is entitled to and will take possession of all materials, equipment, tools and facilities it owns that are in the Contractor's possession, custody, or control by whatever method the City deems expedient. The Contractor shall deliver all documents in any form that were prepared under the Agreement and all other items, materials and documents that have been paid for by the City to the City. These documents and materials are the property of the City. The Contractor shall mark all copies of work product that are incomplete at the time of termination "DRAFT-INCOMPLETE".

7. **EXAMINATION OF RECORDS:** Any authorized agent of the City, including the City Auditor or his or her representative, has the right to access and the right to examine any pertinent books, documents, papers and records of the Contractor, involving transactions related to the Agreement until the latter of three (3) years after the final payment under the Agreement or expiration of the applicable statute of limitations.

8. **WHEN RIGHTS AND REMEDIES NOT WAIVED:** In no event will any payment or other action by the City constitute or be construed to be a waiver by the City of any breach of covenant or default that may then exist on the part of the Contractor. No payment, other action, or inaction by the City when any breach or default exists will impair or prejudice any right or remedy available to it with respect to any breach or default. No assent, expressed or implied, to any breach of any term of the Agreement constitutes a waiver of any other breach.

9. **INSURANCE:**

a. **General Conditions:** Contractor agrees to secure, at or before the time of execution of this Agreement, the following insurance covering all operations, goods or services provided pursuant to this Agreement. Contractor shall keep the required insurance coverage in force at all times during the term of the Agreement, or any extension thereof, during any

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

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

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

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

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

f. **Workers' Compensation/Employer's Liability Insurance:** Contractor shall maintain the coverage as required by statute for each work location and shall maintain Employer's Liability insurance with limits of \$100,000 per occurrence for each bodily injury claim, \$100,000 per occurrence for each bodily injury caused by disease claim, and \$500,000 aggregate for all bodily injuries caused by disease claims. Contractor expressly represents to the City, as a material representation upon which the City is relying in entering into this Agreement, that none of the Contractor's officers or employees who may be eligible under any statute or law to reject Workers' Compensation Insurance shall effect such rejection during any part of the term of this Agreement, and that any such rejections previously effected, have been revoked as of the date Contractor executes this Agreement.

g. **Commercial General Liability:** Contractor shall maintain a Commercial General Liability insurance policy with limits of \$1,000,000 for each occurrence, \$1,000,000 for each

personal and advertising injury claim, \$2,000,000 products and completed operations aggregate, and \$2,000,000 policy aggregate.

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

i. Additional Provisions:

- (A) For Commercial General Liability, the policy must provide the following:
 - (i) That this Agreement is an Insured Contract under the policy;
 - (ii) Defense costs are outside the limits of liability;
 - (iii) A severability of interests or separation of insureds provision (no insured vs. insured exclusion); and
 - (iv) A provision that coverage is primary and non-contributory with other coverage or self-insurance maintained by the City.

- (B) For claims-made coverage:
 - (i) The retroactive date must be on or before the contract date or the first date when any goods or services were provided to the City, whichever is earlier

- (C) Contractor shall advise the City in the event any general aggregate or other aggregate limits are reduced below the required per occurrence limits. At their own expense, and where such general aggregate or other aggregate limits have been reduced below the required per occurrence limit, the Contractor will procure such per occurrence limits and furnish a new certificate of insurance showing such coverage is in force.

10. DEFENSE AND INDEMNIFICATION

a. Contractor agrees to defend, indemnify, reimburse and hold harmless City, its appointed and elected officials, agents and employees for, from and against all liabilities,

claims, judgments, suits or demands for damages to persons or property arising out of, resulting from, or relating to the work performed under this Agreement (“Claims”), unless such Claims have been specifically determined by the trier of fact to be the sole negligence or willful misconduct of the City. This indemnity shall be interpreted in the broadest possible manner to indemnify City for any acts or omissions of Contractor or its subcontractors either passive or active, irrespective of fault, including City’s concurrent negligence whether active or passive, except for the sole negligence or willful misconduct of City.

b. Contractor’s duty to defend and indemnify City shall arise at the time written notice of the Claim is first provided to City regardless of whether Claimant has filed suit on the Claim. Contractor’s duty to defend and indemnify City shall arise even if City is the only party sued by claimant and/or claimant alleges that City’s negligence or willful misconduct was the sole cause of claimant’s damages.

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

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

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

11. TAXES, CHARGES AND PENALTIES: The City is not liable for the payment of taxes, late charges or penalties of any nature, except for any additional amounts that the City may be required to pay under the City’s prompt payment ordinance D.R.M.C. § 20-107, *et seq.* The Contractor shall promptly pay when due, all taxes, bills, debts and obligations it incurs performing the services under the Agreement and shall not allow any lien, mortgage, judgment or execution to be filed against City property.

12. ASSIGNMENT; SUBCONTRACTING: The Contractor shall not voluntarily or involuntarily assign any of its rights or obligations, or subcontract performance obligations, under this Agreement without obtaining the Manager's prior written consent. Any assignment or subcontracting without such consent will be ineffective and void, and will be cause for termination of this Agreement by the City. The Manager has sole and absolute discretion whether to consent to any assignment or subcontracting, or to terminate the Agreement because of unauthorized assignment or subcontracting. In the event of any subcontracting or unauthorized assignment: (i) the Contractor shall remain responsible to the City; and (ii) no contractual relationship shall be created between the City and any sub-consultant, subcontractor or assign.

13. INUREMENT: The rights and obligations of the parties to the Agreement inure to the benefit of and shall be binding upon the parties and their respective successors and assigns, provided assignments are consented to in accordance with the terms of the Agreement.

14. NO THIRD PARTY BENEFICIARY: Enforcement of the terms of the Agreement and all rights of action relating to enforcement are strictly reserved to the parties. Nothing contained in the Agreement gives or allows any claim or right of action to any third person or entity. Any person or entity other than the City or the Contractor receiving services or benefits pursuant to the Agreement is an incidental beneficiary only.

15. NO AUTHORITY TO BIND CITY TO CONTRACTS: The Contractor lacks any authority to bind the City on any contractual matters. Final approval of all contractual matters that purport to obligate the City must be executed by the City in accordance with the City's Charter and the Denver Revised Municipal Code.

16. SEVERABILITY: Except for the provisions of the Agreement requiring appropriation of funds and limiting the total amount payable by the City, if a court of competent jurisdiction finds any provision of the Agreement or any portion of it to be invalid, illegal, or unenforceable, the validity of the remaining portions or provisions will not be affected, if the intent of the parties can be fulfilled.

17. CONFLICT OF INTEREST:

a. No employee of the City shall have any personal or beneficial interest in the services or property described in the Agreement. The Contractor shall not hire, or contract

for services with, any employee or officer of the City that would be in violation of the City's Code of Ethics, D.R.M.C. §2-51, et seq. or the Charter §§ 1.2.8, 1.2.9, and 1.2.12.

b. The Contractor shall not engage in any transaction, activity or conduct that would result in a conflict of interest under the Agreement. The Contractor represents that it has disclosed any and all current or potential conflicts of interest. A conflict of interest shall include transactions, activities or conduct that would affect the judgment, actions or work of the Contractor by placing the Contractor's own interests, or the interests of any party with whom the Contractor has a contractual arrangement, in conflict with those of the City. The City, in its sole discretion, will determine the existence of a conflict of interest and may terminate the Agreement if it determines a conflict exists, after it has given the Contractor written notice describing the conflict.

18. NOTICES: All notices required by the terms of the Agreement must be hand delivered, sent by overnight courier service, mailed by certified mail, return receipt requested, or mailed via United States mail, postage prepaid, if to Contractor at the address first above written, and if to the City at:

Executive Director of Public Works or Designee
201 West Colfax Avenue, Dept. 608
Denver, Colorado 80202

With a copy of any such notice to:

Denver City Attorney's Office
1437 Bannock St., Room 353
Denver, Colorado 80202

Notices hand delivered or sent by overnight courier are effective upon delivery. Notices sent by certified mail are effective upon receipt. Notices sent by mail are effective upon deposit with the U.S. Postal Service. The parties may designate substitute addresses where or persons to whom notices are to be mailed or delivered. However, these substitutions will not become effective until actual receipt of written notification.

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

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

b. The Contractor certifies that:

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

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

c. The Contractor also agrees and represents that:

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

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

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

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

(5) If it obtains actual knowledge that a subconsultant or subcontractor performing work under the Agreement knowingly employs or contracts with an illegal alien, it will notify such subconsultant or subcontractor and the City within three (3) days. The Contractor shall also terminate such subconsultant or subcontractor if within three (3) days after such notice the subconsultant or subcontractor does not stop employing or contracting with the illegal alien, unless during such three-day period the subconsultant or subcontractor provides information to establish that the subconsultant or subcontractor has not knowingly employed or contracted with an illegal alien.

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

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

20. DISPUTES: All disputes between the City and Contractor arising out of or regarding the Agreement will be resolved by administrative hearing pursuant to the procedure established by D.R.M.C. § 56-106(b)-(f). For the purposes of that administrative procedure, the City official rendering a final determination shall be the Manager as defined in this Agreement.

21. GOVERNING LAW; VENUE: The Agreement will be construed and enforced in accordance with applicable federal law, the laws of the State of Colorado, and the Charter, Revised Municipal Code, ordinances, regulations and Executive Orders of the City and County of Denver, which are expressly incorporated into the Agreement. Unless otherwise specified, any reference to statutes, laws, regulations, charter or code provisions, ordinances, executive orders, or related memoranda, includes amendments or supplements to same. Venue for any legal action relating to the Agreement will be in the District Court of the State of Colorado, Second Judicial District (Denver District Court).

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

23. COMPLIANCE WITH ALL LAWS: Contractor shall perform or cause to be performed all services in full compliance with all applicable laws, rules, regulations and codes of the United States, the State of Colorado; and with the Charter, ordinances, rules, regulations and Executive Orders of the City and County of Denver.

24. LEGAL AUTHORITY: Contractor represents and warrants that it possesses the legal authority, pursuant to any proper, appropriate and official motion, resolution or action

passed or taken, to enter into the Agreement. Each person signing and executing the Agreement on behalf of Contractor represents and warrants that he has been fully authorized by Contractor to execute the Agreement on behalf of Contractor and to validly and legally bind Contractor to all the terms, performances and provisions of the Agreement. The City shall have the right, in its sole discretion, to either temporarily suspend or permanently terminate the Agreement if there is a dispute as to the legal authority of either Contractor or the person signing the Agreement to enter into the Agreement.

25. NO CONSTRUCTION AGAINST DRAFTING PARTY: The parties and their respective counsel have had the opportunity to review the Agreement, and the Agreement will not be construed against any party merely because any provisions of the Agreement were prepared by a particular party.

26. ORDER OF PRECEDENCE: In the event of any conflicts between the language of the Agreement and the exhibits, the language of the Agreement controls.

27. INTELLECTUAL PROPERTY RIGHTS: The City and Contractor intend that all property rights to any and all materials, text, logos, documents, booklets, manuals, references, guides, brochures, advertisements, URLs, domain names, music, sketches, web pages, plans, drawings, prints, photographs, specifications, software, data, products, ideas, inventions, and any other work or recorded information created by the Contractor and paid for by the City pursuant to this Agreement, in preliminary or final form and on any media whatsoever (collectively, “Materials”), shall belong to the City. The Contractor shall disclose all such items to the City and shall register such items in the name of the City and County of Denver unless the Manager directs otherwise in writing. To the extent permitted by the U.S. Copyright Act, 17 USC § 101, *et seq.*, the Materials are a “work made for hire” and all ownership of copyright in the Materials shall vest in the City at the time the Materials are created. To the extent that the Materials are not a “work made for hire,” the Contractor (by this Agreement) sells, assigns and transfers all right, title and interest in and to the Materials to the City, including the right to secure copyright, patent, trademark, and other intellectual property rights throughout the world and to have and to hold such rights in perpetuity.

28. SURVIVAL OF CERTAIN PROVISIONS: The terms of the Agreement and any exhibits and attachments that by reasonable implication contemplate continued performance, rights, or compliance beyond expiration or termination of the Agreement survive the Agreement

and will continue to be enforceable. Without limiting the generality of this provision, the Contractor's obligations to provide insurance and to indemnify the City will survive for a period equal to any and all relevant statutes of limitation, plus the time necessary to fully resolve any claims, matters, or actions begun within that period.

29. ADVERTISING AND PUBLIC DISCLOSURE: The Contractor shall not include any reference to the Agreement or to services performed pursuant to the Agreement in any of the Contractor's advertising or public relations materials without first obtaining the written approval of the Manager. Any oral presentation or written materials related to services performed under the Agreement will be limited to services that have been accepted by the City. The Contractor shall notify the Manager in advance of the date and time of any presentation. Nothing in this provision precludes the transmittal of any information to City officials.

30. CONFIDENTIAL INFORMATION:

a. City Information: Contractor acknowledges and accepts that, in performance of all work under the terms of this Agreement, Contractor may have access to Proprietary Data or confidential information that may be owned or controlled by the City, and that the disclosure of such Proprietary Data or information may be damaging to the City or third parties. Contractor agrees that all Proprietary Data, confidential information or any other data or information provided or otherwise disclosed by the City to Contractor shall be held in confidence and used only in the performance of its obligations under this Agreement. Contractor shall exercise the same standard of care to protect such Proprietary Data and information as a reasonably prudent contractor would to protect its own proprietary or confidential data. "Proprietary Data" shall mean any materials or information which may be designated or marked "Proprietary" or "Confidential", or which would not be documents subject to disclosure pursuant to the Colorado Open Records Act or City ordinance, and provided or made available to Contractor by the City. Such Proprietary Data may be in hardcopy, printed, digital or electronic format.

31. CITY EXECUTION OF AGREEMENT: The Agreement will not be effective or binding on the City until it has been fully executed by all required signatories of the City and County of Denver, and if required by Charter, approved by the City Council.

32. AGREEMENT AS COMPLETE INTEGRATION-AMENDMENTS: The Agreement is the complete integration of all understandings between the parties as to the subject

matter of the Agreement. No prior, contemporaneous or subsequent addition, deletion, or other modification has any force or effect, unless embodied in the Agreement in writing. No oral representation by any officer or employee of the City at variance with the terms of the Agreement or any written amendment to the Agreement will have any force or effect or bind the City.

33. USE, POSSESSION OR SALE OF ALCOHOL OR DRUGS: Contractor shall cooperate and comply with the provisions of Executive Order 94 and its Attachment A concerning the use, possession or sale of alcohol or drugs. Violation of these provisions or refusal to cooperate with implementation of the policy can result in contract personnel being barred from City facilities and from participating in City operations.

34. ELECTRONIC SIGNATURES AND ELECTRONIC RECORDS: Contractor consents to the use of electronic signatures by the City. The Agreement, and any other documents requiring a signature under the Agreement, may be signed electronically by the City in the manner specified by the City. The Parties agree not to deny the legal effect or enforceability of the Agreement solely because it is in electronic form or because an electronic record was used in its formation. The Parties agree not to object to the admissibility of the Agreement in the form of an electronic record, or a paper copy of an electronic document, or a paper copy of a document bearing an electronic signature, on the ground that it is an electronic record or electronic signature or that it is not in its original form or is not an original.

Attachments

Exhibit A-Scope of Work

Exhibit B-Pricing

Exhibit C-Certificate of Insurance

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Contract Control Number:

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

SEAL

CITY AND COUNTY OF DENVER

ATTEST:

By _____

APPROVED AS TO FORM:

REGISTERED AND COUNTERSIGNED:

By _____

By _____

By _____



Contract Control Number: PWADM-201631264-00

Contractor Name: CB&I ENVIRONMENTAL & INFRASTRUCTURE
INC

By: Thomas J. Quasius

Name: THOMAS QUASIUS
(please print)

Title: DIRECTOR
(please print)

ATTEST: [if required]

By: _____

Name: _____
(please print)

Title: _____
(please print)



City & County of Denver

Streetlight Inventory – Scope Document

This document serves as an overview of the anticipated scope of services CB&I Environmental & Infrastructure, Inc. (CB&I) is to provide to the City and County of Denver on the inventory of an estimated 55,000 streetlights located in the City Right-of-Ways, parks and trails. The scope of services has been broken into the following tasks:

1. Safety and Project Development
2. GIS Application Configuration and Support
3. Survey
4. Report, Database and Electronic Map

Safety and Project Development

This task of the project will occur in the initial few weeks after contract execution in which we will develop and finalize project plans. The project plans will address project execution strategy, work plan, quality management and health, safety and security, to drive and ensure successful project execution. During the Project Kick-off Meeting, CB&I will present the draft Project Execution Plan (PEP), Health and Safety Plan (H&SP) and the Quality Plan (QP). The submitted plans will be finalized and resubmitted for review based on feedback from the City on its project requirements and specifications. These reviewed PEP, H&SP and QP Plans will be finalized and approved in writing by the Project Manager on or before January 19, 2017.

GIS Application Configuration and Support

At the same time as the project plans are being developed, planning for the GIS Application and Website development will commence. The initial list of criteria and attributes, as provided in this scope document, will be used as the foundation for data requirements. At the Kick-off meeting, CB&I will confirm all necessary attributes that are to be collected. In addition to this upfront development, the CB&I GIS Department and Advoco InforEAM will provide continuous project support for troubleshooting or if additional drop down options are required.

CB&I intends to use any existing GIS data as a starting point for this project. In addition to these existing data, CB&I will overlay the city boundary map with 1-mile by 1-mile grid sections (or another size if deemed more appropriate). We will schedule the field survey workload based on the grid sections and move through the city based on the 11 City Council Districts, to be finalized at the Project Kick-off meeting based on input provided by the city.

The grid sections will be able to be printed with the updated pole collections daily and distributed to the teams, ensuring full data capture. The GIS Analyst will be responsible for compiling the GIS layers from the city, overlaying the grid section and building a query to print the maps as pdfs.

Survey

An orientation/training session will kick off the first week of the field survey with both in-the-classroom and in-the-field training conducted. Once training is complete, the field survey will be conducted using

Exhibit A

10 staff in five (5) teams of two (2) members each. The field teams will work through assigned sections of the City each week day to accurately, and safely, record the streetlight characteristics and location data that meets the City's data requirements. The exact data requirements and process for collecting the data will be finalized during the kick-off meeting, in order to ensure the City's requirements are met, while also addressing potential safety issues.

The field team will record information from each pole (and lamp) into the Collector for ArcGIS application loaded on iPad. Current scope of work includes: residential and commercial roadways, alleyways, viaducts under bridges and all parks and trails within in the City limits of Denver.

For each pole in the scope, the field teams will collect, at a minimum, the following required data:

1. **Pole tag number**
 - a. Text String
 - b. Null
2. **Installation Date**
 - a. Date String MM/DD/YYYY
3. **Pole type**
 - a. Street light only
 - b. Pedestrian light
 - c. Street/Pedestrian light combination
 - d. Utility distribution
4. **Pole material**
 - a. Wood
 - b. Steel
 - c. Galvanized Steel
 - d. Aluminum
 - e. Concrete
 - f. Fiberglass
5. **Pole Color**
 - a. Federal Green
 - b. Black
 - c. Gray
 - d. Bronze
 - e. Brown
6. **Pole height**
 - a. 10
 - b. 15
 - c. 20
 - d. 25
 - e. 30
 - f. 35
- g. 65
- h. 70
7. **Roadway type**
 - a. Alley
 - b. Arterial/Commercial
 - c. Collector/Intermediate
 - d. Highway
 - e. Residential
 - f. Trail
8. **Foundation**
 - a. Precast Concrete
 - b. Steel Helix
 - c. Decorative
 - d. Cast Iron
 - e. High Mast
9. **Mast Arm Style**
 - a. Single Light
 - b. Dual Light
 - c. Null
10. **Mast Arm Size**
 - a. 1'
 - b. 4'
 - c. 6'
 - d. 8'
 - e. 10'
11. **Mast Arm Bracket Size**
 - a. 3"
 - b. 8"
 - c. None
12. **Mast Arm adapter type**

Exhibit A

- a. Round
 - b. Oblong
13. **Light fixture mounting height**
- a. 10' – 70' dropdown options
 - b. Null
14. **Lamp type**
- a. High pressure sodium
 - b. Metal halide
 - c. LED
 - d. Mercury Vapor
 - e. Incandescent
 - f. Fluorescent
15. **Direction the light fixture is facing**
- a. Towards street
 - b. Private property
 - c. Park
16. **Luminaire**
- a. Curvilinear
 - b. Cobra Flat
 - c. Rectilinear
 - d. Post Top
 - e. Wall Pack
 - f. Ceiling Mount
 - g. Acord
 - h. Opal Globe
 - i. Pendant
 - j. High Mast
17. **Lamp Wattage**
- a. 28
 - b. 70
 - c. 100
 - d. 150
 - e. 250
 - f. 400
 - g. 1000
18. **Condition**
- a. Good
 - b. Moderate
 - c. Poor
 - d. Hazardous
19. **Power Source**
- a. Overhead
 - b. Underground
20. **Banner Type**
- a. Standard
 - b. Smart
 - c. Null
21. **Banner Capacity**
- a. Single
 - b. Double
 - c. Null
22. **Banner Attachment Type**
- a. Fixed
 - b. Adjustable
 - c. Null
23. **Attachments (assumed yes if selected, assumed no if not selected – can break out individually at a later date)**
- a. Camera
 - b. Antennas
 - c. Wi-Fi
 - d. Motion Sensor
 - e. Dimmer
 - f. Traffic Control
 - g. Small Cell
 - h. Other
- Photos**
- i. Image
 - j. Null
24. **Comments**
- a. Text string
 - b. Null
25. **Latitude/Longitude**
- a. Auto generated at entry
26. **Council District**
- a. Auto generated by GIS Analyst

Exhibit A

27. Street light splice box location near pole

- a. Yes
- b. No
- c. Latitude/Longitude (see above)
- d. Council District (see above)

The above is a representation of attributes to capture but will be finalized prior to project execution plan is finalized. In addition to the field survey layer, there will be a separate QAQC layer created for the Quality Manager and Quality Lead to use to monitor and report QAQC related activities.

Report, Database and Electronic Map

At project completion, and after verification of data by the quality assurance/quality control (QA/QC) lead, CB&I will deliver a final report and database.

The final report will include an executive summary and will be organized in sections to describe the survey methodology and results. The final report will include but will not be limited to the following tally of attributes:

- Number of street lights counted
- Number of pedestrian lights counted
- Number of poles by condition
- Number of poles with attachments
- Number of cobra head fixtures by wattage
- Number of ornamental fixtures by wattage
- Type and number of fixtures by road type (i.e. arterial, collector, highway, residential, etc.)
- Poles/light fixtures that are most substandard/worst condition,
- Priority areas and phasing for LED conversion,
- Best locations to develop a smart technology network,
- Best corridors/areas for differential/adjustable lighting levels

EXHIBIT B

CB&I Pricing Street Light Inventory

Project Labor			
Position	Hours Required for 55,000 Poles	Price Per Hour	TOTAL FOR PROJECT
Project Manager	227	\$165 Hr	\$37,455.00
Supervisor	2,028	\$120 Hr	\$243,360.00
Counter of Poles	5,616	\$60 Hr	\$336,960.00
TOTAL LABOR COST			\$617,775

Project Expenses					
Description	Cost to CB&I	City Markup	Cost to City	Total	
Field Staff and QA/QC Monthly Vehicle Rentals	\$293 per car (6) per week for 14 weeks	0%	\$24,600	\$24,600	\$24,600
Gasoline	\$210/wk for 14 weeks	0%	\$2,940	\$2,940	\$2,940
Parking	\$25/day per car (6) for 14 weeks	0%	\$8,400	\$8,400	\$8,400
iPad Air 2 with 64 GB (Number: 11)	\$500 for 11 iPads (10 field, 1 QA/QC)	10%	\$6,050	\$6,050	\$6,050
Verizon Wireless Service (Number: 11)	Data service for 11 iPads for 4 months at \$50/mo	10%	\$2,420	\$2,420	\$2,420
Trimble GPS Unit Rental (Number: 11)	\$500/month for 11 units for 14 weeks	10%	\$21,175	\$21,175	\$21,175
TOTAL PROJECT EXPENSES					\$65,585

TOTAL LABOR COST	\$617,775
TOTAL PROJECT EXPENSES	\$65,585
TOTAL ALL-IN COST FOR STREET LIGHT INVENTORY	\$683,360

EXHIBIT C



CERTIFICATE OF LIABILITY INSURANCE

7/1/2017

DATE (MM/DD/YYYY)

10/26/2016

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

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

PRODUCER LOCKTON COMPANIES 444 W. 47TH STREET, SUITE 900 KANSAS CITY MO 64112-1906 (816) 960-9000	CONTACT NAME: PHONE (A/C, No, Ext): E-MAIL: ADDRESS:		FAX (A/C, No):
	INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED 1315326 CB&I ENVIRONMENTAL & INFRASTRUCTURE, INC. A SUBSIDIARY OF CHICAGO BRIDGE & IRON CO. 2103 RESEARCH FOREST DRIVE THE WOODLANDS TX 77380	INSURER A: Greenwich Insurance Company		22322
	INSURER B: XL Specialty Insurance Company		37885
	INSURER C:		
	INSURER D:		
	INSURER E:		
INSURER F:			

COVERAGES **CERTIFICATE NUMBER:** 14344019 **REVISION NUMBER:** XXXXXXXX

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> BROAD FORM PD <input checked="" type="checkbox"/> CONT. LIAB & XCU GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y	N	CGD7409489	7/1/2016	7/1/2017	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY	Y	N	CAD7409490	7/1/2016	7/1/2017	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$			NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX AGGREGATE \$ XXXXXXXX \$ XXXXXXXX
B B B	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	CWD7409487 (AOS) CWR7409488 INCLUDES STOP GAP	7/1/2016 7/1/2016 7/1/2016	7/1/2017 7/1/2017 7/1/2017	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 CB&I PN: 201631264. THE CITY AND COUNTY OF DENVER, ITS ELECTED AND APPOINTED OFFICIALS, EMPLOYEES AND VOLUNTEERS ARE NAMED AS ADDITIONAL INSURED WITH RESPECTS TO GENERAL LIABILITY AND AUTO LIABILITY POLICIES, WHERE REQUIRED BY WRITTEN CONTRACT.

CERTIFICATE HOLDER 14344019 CITY AND COUNTY OF DENVER, DEPT. OF PUBLIC WORKS ATTN: TERRI GOODWIN 201 W. COLFAX AVENUE, DEPT. 608 DENVER CO 80202	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE:
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