

**REQUEST FOR PROPOSALS  
FOR CONSULTING ENGINEERING SERVICES  
CORROSION CONTROL TREATMENT PROGRAM  
PIPE LOOP DEMONSTRATION STUDY**

**ECWA Project No. 202100012**

**General**

The Erie County Water Authority (Authority) is seeking Professional Services Proposals for consulting engineering services to complete a pipe loop demonstration study as part of the Authority's on-going Corrosion Control Treatment Program.

The Authority reserves the right to modify or cancel this Request for Proposals and/or the projects; to reject any or all proposals; and to waive any or all irregularities. This Request for Proposals does not obligate the Authority to award a contract for any of the projects or to reimburse any costs associated with the preparation of any proposal.

The Request for Proposal (RFP) is being conducted pursuant to the New York State Finance Law §§139-j and 139-k and the Erie County Water Authority's Procurement Disclosure Policy. The Procurement Disclosure Policy is available by accessing the Erie County Water Authority's web site – <http://www.ecwa.org>, under the caption "Doing Business with ECWA".

**Project Description**

The project consists of completion of a pipe loop demonstration study and shall include a work plan, pipe loop rig design, construction and inspection services, pipe loop operation and maintenance, and final report. A pipe loop demonstration shall be conducted at two locations in the Authority system, representing water quality and existing pipe scale conditions for the Sturgeon Point and Van de Water Treatment Plants. The project also includes related Corrosion Control Program assistance on an as-needed, hourly rate basis.

In response to revisions to the Lead and Copper Rule, the Authority has completed two studies to review of the Authority's current corrosion control practices. In summary, based on these studies, it was recommended that a pipe loop demonstration study be conducted to assess the impact of an orthophosphate addition on potential lead release from existing pipe scales.

**Scope of Work**

The general scope of work is described in the example Professional Services Contract included as Attachment 1. The consultant shall note that the scope of work is intended to define the minimum standard of quality. Suggestions to the project scope that would enhance the quality of the proposed demonstration study are expected.

The methods of payment shall be per the Professional Services Contract.

## **Information Requests**

All questions and requests for information are to be directed to the designated ECWA Contact Person, Michael Wymer, PE, at 716-685-8292, in accordance with New York State Finance Law §§139-j and 139-k. A pre-proposal meeting is not anticipated for this project.

## **Proposal Requirements**

Proposals are to be concise, specific and straightforward. All pertinent information is to be contained in the proposal. The use of artwork, special covers, and extraneous information in the proposals is discouraged. Proposals are to remain valid for a minimum of 60 days. Each proposal is to include the following:

- Item 1 - Qualifications and experience related to corrosion control treatment optimization, with particular focus on LCRR compliance, scale and data analysis, and pipe loop demonstration projects. Consultant shall demonstrate completion of a minimum of three (3) directly applicable projects in the past ten (10) years involving the key personnel included in Item 3 below. Include a minimum of three references for similar work including project name, summary of work performed, location, contact person, budget, date of completion and state the relevance to this project.
- Item 2 - Project understanding, technical approach and detailed scope of services. Identify any suggested revisions to and expand upon the detail of the general scope of work as outlined herein. Identify innovative ideas to improve upon the quality of the work, reduce schedule and optimize costs.
- Item 3 - Project staffing for all key personnel and subcontractors. Identify the proposed role of all staff proposed for this project. Provide a table of the current and projected workload of each proposed project staff member as it relates to availability to perform the proposed work. Provide the office of each proposed project staff member and the location(s) where work will be performed. Provide resumes of the proposed personnel with listed experience applicable to this project. Indicate personnel role on the projects listed under Item 1 above.
- Item 4 - Work performed for the Water Authority in 2018, 2019, and 2020.
- Item 5 - Current remaining workload with the Water Authority.
- Item 6 - Completed Section 139 of State Finance Law per Attachment 1, Appendix E (pp. 26-34).
- Item 7 - Proof of insurance in accordance with Erie County Water Authority Insurance Requirements for Professional Services per Attachment 1, Appendix D.
- Item 8 - Proposed project schedule, showing duration of all tasks from commencement of the Work Plan through completion of the final report.

Item 9 - Fee proposal which is to include a breakdown of engineering fees for each task showing personnel (including title/grade), hours, hourly rates (billing and direct labor), overhead rates, and subcontractor costs for each task. Include subtask items as necessary to convey effort provided by individual personnel. Provide an estimate of cashflow for engineering fees over the duration of the project. Provide information on direct costs including estimated total direct cost for non-lump sum tasks.

For Pipe Loop Rig System – Inspection, all consultants shall include rates and total calculated fee assuming 80 hours of part-time on-site inspection. Provided hours are for comparative purposes and are not a guarantee of actual contract effort.

For Pipe Loop Operation and Maintenance, all consultants shall include rates and a total calculated fee for the personnel listed in Appendix A of the example Professional Services Contract included as Attachment 1. Provided hours are for comparative purposes and are not a guarantee of actual contract effort.

For Corrosion Control Program Assistance, all consultants shall include rates and total calculated fee for the personnel listed in Appendix B of the example Professional Services Contract included as Attachment 1. Provided hours are for comparative purposes and are not a guarantee of actual contract effort.

For Special Services, all consultants shall include a lump sum cost of \$50,000.00 for the purposes of this proposal. Provide fixed hourly billing rates for applicable personnel to be included in the Professional Services Contract as Appendix C.

Proposals shall include the following form on the following page for comparison purposes:

<b>Project 202100012 – RFP for CORROSION CONTROL TREATMENT PROGRAM PIPE LOOP DEMONSTRATION STUDY</b>	
<b>Project Initiation and Reporting</b>	<b>\$</b>
<b>Pipe Loop Testing Work Plan</b>	<b>\$</b>
<b>Pipe Loop Rig System - Design</b>	<b>\$</b>
<b>Pipe Loop Rig System – Construction &amp; General Services</b>	<b>\$</b>
<b>Pipe Loop Rig System – Inspection</b>	<b>\$</b>
<b>Pipe Loop Operation and Maintenance</b>	<b>\$</b>
<b>Pipe Loop Testing Report</b>	<b>\$</b>
<b>Corrosion Control Program Assistance</b>	<b>\$</b>
<b>Special Services</b>	<b>\$ 50,000.00</b>
<b>TOTAL:</b>	<b>\$</b>

**Proposals will be accepted until 4:00 p.m. on January 15, 2021.** Five hard copies of the proposal and one digital .pdf file (on a USB flash drive) are to be delivered to Erie County Water Authority, 3030 Union Road, Cheektowaga, NY 14227 to the attention of Mr. Leonard F. Kowalski, PE, Executive Engineer. Proposals received after this time will not be considered and will be returned unopened. All proposals being mailed (including Federal Express, UPS, Priority Mail, etc.) or hand delivered shall be directed to the attention of Mr. Kowalski in a sealed envelope and be clearly marked on the outside of the mailing or hand delivered envelope as follows: “CORROSION CONTROL TREATMENT PROGRAM – PIPE LOOP DEMONSTRATION STUDY”

**Evaluation and Selection**

All proposals will be evaluated by a small in-house committee made up of Water Authority personnel familiar with the proposed project. Interviews and/or presentations of the proposals will be requested if needed. The proposals will be evaluated based on the criteria listed above.

The final scope of work and fee for the engineering services for the project will be negotiated with the selected firm(s). Professional Service Contracts will then be executed pending successful negotiation and authorization by the Water Authority Board of Commissioners. All firms submitting proposals will be notified of the selection results. It is anticipated that the selection process will be completed in January 2021, and that the agreement will be executed in February 2021.

## ATTACHMENT 1

Project No. \_\_\_\_\_

Contract \_\_\_\_\_

### PROFESSIONAL SERVICES AGREEMENT FOR ENGINEERING SERVICES

This Agreement, effective as of \_\_\_\_\_, 2021 (“Effective Date”), is by and between

#### **ERIE COUNTY WATER AUTHORITY**

295 Main Street, Room 350

Buffalo, New York 14203

hereinafter referred to as the “Authority,” and

#### **Consultant Name**

Consultant Address

hereinafter referred to as the “Engineer.”

The Authority project, for which engineering services are to be provided under this Agreement, relates to completion of a pipe loop demonstration study (the “Project”) as part of the continuation of the Authority’s overall Corrosion Control Treatment Program.

In consideration of the mutual promises set forth in this Agreement, the Authority and the Engineer agrees as follows:

#### **ARTICLE 1 – THE PROJECT**

**1.01** The Authority completed its initial corrosion control evaluation in 1994 in response to the Lead and Copper Rule (the “Rule”). The study concluded that the Authority’s existing corrosion control strategy of adjusting the finished water target pH to 8.0 was effective in meeting the requirements of the Rule.

Growth of the Authority’s system and the proposed Lead and Copper Rule Revisions (“LCRR”) resulted in two studies to review of the Authority’s current corrosion control practices.

The recommendations of the March 2020 Corrosion Control Desktop Evaluation by Arcadis/Cornwell Engineering Group included the completion of demonstration testing to assess the effectiveness of orthophosphate addition.

The follow-up Bench-top Lead Solubility Study utilized lead coupons to screen and recommend orthophosphate dose conditions for pipe loop demonstration testing and included analysis of the relative lead solubility impacts of various blends of Authority and City of Buffalo waters to account for existing/future interconnections of the two distribution systems. The bench-top study recommended a pipe loop demonstration study be conducted using harvested lead service line materials from the distribution system to assess the impact of orthophosphate addition on lead release from existing pipe scales.

The Authority intends to continue its on-going Corrosion Control Treatment Program with the completion of a pipe loop demonstration study, the scope of which is described below. In summary, the study shall include the completion of a pipe loop demonstration testing work plan, pipe loop rig design, construction and inspection services, pipe loop operation and maintenance, and final report. Pipe loop rigs shall be located at two sites in the Authority system, representing water quality and existing pipe scale conditions for water supplied from the Sturgeon Point and Van de Water Treatment Plants. For the purposes of this RFP, the Engineer shall assume each pipe loop rig to consist of a total of fifteen (15) individual lead pipe loops (five conditions with triplicate loops).

The project includes Corrosion Control Program assistance on an as-needed, hourly rate basis.

## **ARTICLE 2 – COMPLIANCE STANDARDS**

### **2.01 Standard of Performance**

- A. ***Standard of Care:*** The standard of care for all professional engineering and related services performed or furnished by the Engineer under this Agreement will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the time and in the same locality.
- B. ***Technical Accuracy:*** The Authority shall not be responsible for discovering deficiencies in the technical accuracy of the Engineer's services. The Engineer shall correct deficiencies in technical accuracy without additional compensation, unless such corrective action is directly attributable to deficiencies in Authority-furnished information.

### **2.02 Compliance with Laws and Regulations, and Policies and Procedures**

- A. The Authority and the Engineer shall comply with all applicable federal, state or local laws and regulations and all applicable Authority policies and procedures.
- B. The Engineer shall comply with the provisions set forth in Public Authorities Law §§ 2875, 2876, and 2878 of the laws of the State of New York. In response to the Authority's Request for Proposals, the Engineer submitted and signed Forms A, B, and C, a copy of which is attached to, and incorporated in, this Agreement as Appendix E.
- C. By executing this Agreement, the Engineer affirms under the penalties of perjury that there was no collusion in the proposal submitted to the Authority, upon which forms the basis of this Agreement.
- D. The Engineer shall comply with the provisions of State Finance Law § 139-L of the laws of the State of New York. In response to the Authority's Request for Proposals, the Engineer submitted and signed the Sexual Harassment Bidding Certification, a copy of which is attached to, and incorporated in, this Agreement, as Appendix E.

- E. The Engineer shall comply with the provisions of the Shield Act, codified at General Business Law § 899-aa of the laws of the State of New York.
- F. The Authority shall provide the Engineer in writing any and all Authority policies and procedures applicable to the Engineer’s performance of services under this Agreement. The Engineer agrees to comply with such policies and procedures to the extent compliance is not inconsistent with professional practice requirements.
- G. While on Authority property, the Engineer’s employees, representatives and engineers shall comply with the specific applicable security and access rules established by the Authority’s Security Officer.

**2.03 Health Screening Questionnaire.** The State of New York (the “State”) has declared a state of emergency due to the COVID-19 pandemic. The Authority is currently operating under a Declaration of Emergency. While the Authority continues to operate under the Declaration of Emergency, the Consultant, its employees, and agents shall comply with all health safety rules and regulations adopted by the State or the Authority including, but not limited to, completing a health screening questionnaire before entering any Authority worksite.

**2.04 Unknown Conditions.** The Engineer shall not be required to sign any documents, no matter by whom requested, that would result in the Engineer having to certify, guarantee, or warrant the existence of conditions whose existence the Engineer cannot ascertain. The Authority agrees not to make resolution of any dispute with the Engineer for payment on any amount due to the Engineer in any way contingent upon the Engineer signing any such documents.

### **ARTICLE 3 – SCOPE OF SERVICE**

**3.01 Project Initiation and Reporting.** The Engineer shall provide project initiation and reporting services necessary to complete the pipe loop demonstration testing program including, but not limited to, the following:

- A. ***Preliminary Investigation and Due Diligence***
  - 1. In contemplation of the pipe loop demonstration program, the Engineer shall:
    - a. Conduct project kick-off meeting with Authority personnel. Prepare and distribute meeting agenda. Provide associated meeting minutes within ten (10) calendar days of the meeting date.
    - b. Review documents specific to the Authority’s Corrosion Control Treatment Program including recent desktop and benchtop evaluations, water quality information, monthly operating reports (MORs), and standard operating practices (SOPs).
    - c. Conduct site visits to identify potential locations for installation of the pipe loop rigs.

**B. *Meetings and Reports.***

1. Throughout the pipe loop demonstration program, the Engineer shall:
  - a. Conference with the Authority and other related Project stakeholders, as necessary and as required;
  - b. Report to the Authority bi-weekly on the progress of the work via email, with the following information:
    - i. Work performed during the previous two weeks;
    - ii. Work scheduled for the next two weeks;
    - iii. Schedule status/deliverable status, attaching an updated project schedule in Microsoft Project format, identifying all project milestones, cashflow and current project status;
    - iv. Budget status/percent completed;
    - v. Input needed from the Authority or others;
    - vi. Requests for scope changes; and
    - vii. Other issues or concerns;
  - c. Provide bi-weekly update as to the progress of the testing program including operational issues, modifications, and results of laboratory sample analyses to date.

**3.02 Pipe Loop Testing Work Plan.** The Engineer shall provide all engineering services necessary to prepare a Work Plan for the pipe loop demonstration testing program including, but not limited to, the following:

- A. Upon review of all documentation and site inspections, the Engineer shall determine, document, and recommend:
  1. The location of the two pipe rigs to be included in the demonstration program.
  2. Loop conditions to be evaluated at each location including pH, product, and product dosage. Identify any deviations from the recommendations of previous work.
  3. Number of loops per loop condition tested at each location. Identify any deviations from the recommendations of previous work.



4. Data collection requirements including test parameters and sample frequency during the conditioning and operating phases.
  5. Procedures for the harvesting of lead service line piping by Authority personnel including removing, transporting, storing and installation.
  6. Recommendations for pipe scale analysis prior to and at the conclusion of the pipe loop demonstration.
  7. Decision criteria and methodology used to evaluate the results and basis for recommendations.
- B. The Engineer shall prepare basis of design information for fabrication of the proposed pipe loop rig systems. Design information shall include the following:
1. Dimensioned drawings of the pipe loop rigs indicating layout of all components including piping, valving, instrumentation, and support structure, suitable for construction.
  2. Electrical requirements including identification of power source.
  3. Parts list of materials. Identify the number and length of required harvested lead service lines.
  4. Chemical addition equipment, operation, control and monitoring including orthophosphate, pH adjustment, fluoride and/or disinfection chemical additions.
  5. Material specifications including manufacturer's part/model number.
  6. Estimated cost for fabrication and installation of the pipe loop rigs.
- C. The Engineer shall provide plans for operating and maintaining the pipe loops during the demonstration testing period. Identify procedures for sampling and testing, data management and quality assurance/quality control.
- D. The Engineer shall prepare a Project schedule including the duration of work through completion of the project.
- E. The Engineer will conduct at least two (2) review meetings with the Authority under this task. Provide meeting minutes to the Authority within ten (10) calendar days.
- F. The Engineer shall prepare a draft Work Plan report, setting the factors considered by the Engineer including, but not limited to, those specifically identified in paragraphs A through D, of this section. The Engineer shall supply the Authority with five (5) copies of the draft Work Plan Report with supporting documentation,

along with a digital .pdf file of the draft Work Plan Report with supporting documentation.

- G. The Engineer shall meet with the Authority to review the draft Work Plan Report and will incorporate all comments into a final version. The Engineer shall supply the Authority with ten (10) copies of the final Work Plan Report with supporting documentation, along with a digital .pdf file of the final Work Plan Report with supporting documentation. The Engineer shall submit the final Work Plan Report with supporting documentation to the Erie County Health Department and New York State Health Department (as applicable) for review and approval.

**3.03 Pipe Loop Rig System - Design.** The Engineer shall provide all engineering services necessary for the design of two pipe loop rigs.

- A. The Engineer shall prepare detailed design drawings and specifications at 90% and 100% design stages for two (2), fifteen (15) pipe loop rigs in accordance with the basis of design information and locations approved under § 3.02. The scope of services under this Task shall include:
1. The Engineer shall prepare engineering calculations to support the design, including related process, mechanical and electrical/instrumentation features of the project.
  2. The Engineer shall prepare final plans, profiles/sections, and project specific detail drawings where appropriate, including:
    - a. Preparation of location plan for pipe loop rigs including location of water supply, drains, and power source;
    - b. Process Flow Schematic identifying pipe loop rig components include support structure; and
    - c. Applicable construction details.
  3. The Engineer shall prepare contract specifications with edited Authority's standard "front end" specifications and standard technical specifications where appropriate, including:
    - a. Prepare additional technical specifications, as required;
    - b. Prepare a control description for automatic operation of the pipe loop rigs; and
    - c. Obtain New York State Prevailing Wage Rates and inserting such rates into the specifications.
  4. The Engineer shall prepare a quantity take-off and opinion of probable construction cost.

5. The Engineer shall prepare and update, as needed, a schedule for the project.
- B. After completion of the project, the pipe loop rigs shall remain in-place. All materials and equipment shall remain the property of the Authority.

### 3.04 Pipe Loop Rig System - Construction Services

- A. **Construction Bids.** Upon authorization from the Authority, the Engineer shall:
1. Assist Authority personnel in preparing bid invitation and contract documents;
  2. Refrain from discussing the Project or the bid process with anyone outside of the Authority prior to the advertisement of bids and during the restricted period for the submission and award of bids;
  3. Furnish twenty (20) sets of contract drawings, final specifications, and other documents required for bidding and construction purposes for each contract;
  4. Conduct, at the appropriate time, a pre-bid meeting:
    - a. Prepare and distribute addenda for pre-bid meeting;
    - b. Record, publish, and distribute minutes from the pre-bid meeting; and
    - c. Prepare, if necessary, publish, and distribute any addendum to the bid invitation and contract documents;
  5. Evaluate and determine whether substituted materials and equipment proposed in a bid submission of a prospective contractor is acceptable and at least equal to the materials and equipment set forth in bid and contract documents; and
  6. Assist the Authority in securing bids, bid results, analyzing bid results, and making recommendations on the award of each construction contract.
- B. **Pre-Construction.** Prior to construction, the Engineer shall:
1. Provide pre-construction meeting notice to all municipalities, utility companies, fire districts, and all other interested stakeholders;
  2. Conduct a pre-construction meeting:
    - a. Prepare and distribute agenda for pre-bid meeting; and
    - b. Record, publish, and distribute minutes from the pre-bid meeting.

C. ***Construction.***

1. The Engineer is not responsible for the construction means, methods, techniques, sequences or procedures, time of performance, programs or for any safety precautions in connection with the construction work (the “Work”). The Engineer shall not be held liable to the Authority for the failure of the construction contractor (the “Contractor”) to execute the Work in accordance with the contract documents (the “Contract Documents”).
2. The Engineer shall notify the Authority of all permanent Work which does not conform to the result required in the Contract Documents, prepare a written report describing any apparent non-conforming permanent Work and make recommendations to the Authority for its correction and when requested by the Authority, have recommendations implemented by the Contractor.
3. The Engineer shall have responsibility over the following:
  - a. Defective Work:
    - i. Based on the Engineer’s observations, if the Engineer believes that the Work is defective under the terms and standards set forth in the Contract Documents, the Engineer shall reject the Work and provide the Authority with its recommendations regarding whether the Contractor should correct such Work or remove and replace such Work, or whether the Authority should consider accepting such Work as provided in the Contract Documents.
  - b. Compatibility with Design Concept:
    - i. If the Engineer has actual knowledge a specific part of the Work, although not defective under the terms and standards set forth in the Contract Documents, but nonetheless is not compatible with the design concept of the completed Project as a functioning whole, the Engineer will inform the Authority of such incompatibility, and provide recommendations for addressing such Work.
  - c. Clarifications and Interpretations:
    - i. When the Contractor and the Authority submits to the Engineer any question concerning the requirements of the Contract Documents, including any requests for information (RFIs), or relating to the acceptability of the Work under the Contract Documents, the Engineer shall, with reasonable promptness, render a written clarification, interpretation, or decision on the

issue submitted, or initiate an amendment or supplement to the Contract Documents.

d. Differing Site Conditions:

- i. When the Contractor notifies the Engineer of differing site conditions, including conditions relating to underground facilities such as utilities, and hazardous environmental conditions, the Engineer shall promptly review the condition and prepare findings, conclusions, and recommendations to the Authority as to how to address the condition.

e. Substitutes and “Or-equal”:

- i. The Engineer shall evaluate and determine the acceptability of substitute or “or-equal” materials and equipment proposed by Contractor.

f. Change Orders:

- i. The Engineer shall notify the Authority when a change in the Work is proposed, which will cause an adjustment in the contract cost.
- ii. The Engineer will evaluate whether the proposed change is justified and reasonable, and if necessary, prepare change orders, field directives, and make recommendations for approval by the Authority’s Board of Commissioners.
- iii. The Engineer shall discuss changes in the plans or procedures recommended by the Engineer with the Authority prior to implementation.
- iv. The Engineer must obtain approval for all change orders from the Board of Commissioners prior to implementation.

g. Change Proposals and Claims:

- i. Review and respond to Change Proposals.
  - (a) The Engineer shall review each submitted Change Proposal from Contractor and either deny the Change Proposal in whole, approve it in whole, or deny it in part and approve it in part.

- (b) Such actions shall be in writing, with a copy provided to the Authority and Contractor.
- (c) If the Change Proposal does not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters, the Engineer will notify the parties that the Engineer will not resolve the Change Proposal.

ii. Reporting of Claims

- (a) When the Engineer becomes aware of a situation from which a legal dispute or claim (“Claim”) could be filed by a contractor, subcontractor, property owner or other third party against the Authority, the Engineer will promptly report the situation to the Authority.
  - (b) Upon request, the Engineer will assist the Authority’s Legal Department in its investigation and examination of any Claim. The Engineer will provide the names and, if available, addresses and phone numbers of individuals involved or having knowledge of the Claim.
  - (c) The Engineer will also gather information or data to the Authority regarding engineering or technical matters pertaining to the Claim.
4. The Engineer shall consult, report and advise appropriate Authority personnel as to all relevant and pertinent matters relating or affecting the progress of construction.
  5. The Engineer shall review and determine the acceptability of any and all schedules that the Contractor is required to submit to the Engineer, including a Progress Schedule, Schedule of Submittals, and Schedule of Values.
  6. The Engineer shall supply the Authority with a construction schedule, which has been submitted by the Contractor and approved by the Engineer.
  7. The Engineer will prepare elementary sketches and supplementary sketches, when necessary or required, to resolve issues with actual field conditions encountered.
  8. The Engineer shall interpret Contract Documents and resolve problems as to amount, quality, acceptability, and fitness.

9. The Engineer will review the Contractor's submittals of material and/or equipment for compliance with the design concept and take appropriate action such as but not limited to: "approved", "approved as corrected", "revise and resubmit"; or "not approved".
10. The Engineer shall check installation for preparation of record drawings.

**D. *Construction Meetings and Reports.***

1. The Engineer will schedule and attend progress meetings with the pertinent Authority personnel, the Contractor, subcontractors and other interested stakeholders at a minimum every two (2) weeks.
2. The Engineer will report to the Authority monthly on the progress of the Work with a written monthly summary including daily inspector reports.
3. The Engineer will report, via email, to the Authority bi-weekly on the progress of the Work with the following information:
  - a. Summary of the Work performed in the previous two-week period;
  - b. Updated project schedule, attached and in Microsoft Project format, identifying all project milestones and current project status;
  - c. Forecast of all upcoming work and project costs expected for the project, including the identification of any contract items which may exceed bid quantities; and
  - d. Copies of final inspection reports attached in .pdf format for reports in the previous two-week period.
4. As previously stated in paragraph C, subparagraphs 3f and 3g of this section, the Engineer shall notify the Authority when a change in the work is proposed which will cause an adjustment in the contract cost and will:
  - a. Evaluate whether the proposed change is justified and reasonable, and if necessary, prepare change orders, field directives, and make recommendations for approval.
  - b. Discuss changes in the plans or procedures authorized by the Engineer with the Authority prior to implementation.
  - c. Obtain approval for all change orders from the Authority's Board of Commissioners prior to implementation.

5. The Engineer will make a final inspection, furnish a report on project completion, and make recommendations for final payments to contractors and for the release of retained amounts, if any.

**3.05 Pipe Loop Rig System – Inspection:**

- A. Upon authorization from the Authority, the Engineer shall furnish a part-time Project Inspector (Inspector) who will conduct technical inspection of the Work relating to the Project;
  1. *Inspector's duties and responsibilities:* The Engineer, through the Inspector's observations, shall protect the Authority against defects and deficiencies in the Work.
  2. *Inspector's duties and responsibilities:*
    - a. The Inspector shall not:
      - i. Authorize any deviation from the Contract Documents or substitution of materials or equipment (including "or-equal" items), without written approval by the Authority and the Engineer;
      - ii. Exceed limitations of the Engineer's authority as set forth in this Agreement;
      - iii. Undertake any of the responsibilities of the Contractors, subcontractors, or suppliers;
      - iv. Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences or procedures of the Contractor's work;
      - v. Advise on, issue relating, or assume control over security or safety practices, precautions, and programs in connection with the activities of the Authority or its Contractors;
      - vi. Participate in specialized field or laboratory tests or inspections conducted off-site by others; or
      - vii. Accept shop drawings or sample submittals from anyone other than the Contractor.
    - a. The Inspector shall:
      - i. Review the progress schedule, schedule of Shop Drawing and Sample submittals, schedule of values prepared by the



- Contractor and consult with the Engineer concerning acceptability;
- ii. Attend meetings with Contractor and subcontractors, such as preconstruction conferences, progress meetings, job conferences, and other Project-related meetings;
  - iii. Provide email updates to the Engineer and the Authority regarding meetings with Contractor and subcontractors;
  - iv. Conduct periodic on-site inspections of all Work in progress;
  - v. Prepare inspection reports to determine if the Work is progressing in accordance with Contract Documents;
  - vi. Report to the Authority and the Engineer whenever the Inspector believes any portion of the Work will not produce a completed Project, conforming with the Contract Documents, or will imperil the integrity of the Project design as a functioning whole as indicated in the Contract Documents, or has been damaged, or does not meet the requirements of any inspection, test or approval required to be made;
  - vii. Advise the Authority and the Engineer whether any part of the Work in progress should be corrected or rejected or should be uncovered for observations, or requires special testing, inspection, or approval;
  - viii. Verify that tests, equipment, and systems start-ups and operating and maintenance training are conducted in the presence of appropriate Authority personnel, and that the Contractor maintains adequate records relating to the same;
  - ix. Observe, record, and report to the Engineer appropriate details relative to the test procedures and systems start-ups;
  - x. Report to the Engineer and the Authority when clarifications and interpretations of the contract documents are needed and transmit to the Contractor clarifications and interpretations as issued by the Engineer;
  - xi. Advise the Engineer and the Contractor of the commencement of any portion of the Work requiring a Shop Drawing or Sample submittal for which Inspector believes that the submittal has not been approved by the Engineer; and

- xii. Submit, via email, bi-weekly updates to the Authority summarizing the inspection costs and projecting further inspection costs for the duration of the Work.

### **3.06 Pipe Loop Rig System - General Services:**

#### **A. *Contractor's Request for Payment:***

1. As a general service to the Authority, the Engineer will review applications for payment with the Contractor for compliance with the established procedure for their submission and forward recommendation to the Authority, noting particularly the relationship of the payment requested to the schedule of values, work completed, and materials and equipment delivered to the Project site but not incorporated in the work.
2. Based on the Engineer's observations and on review of Applications for Payment and accompanying supporting documentation, the Engineer shall:
  - a. Determine the amounts that the Engineer recommends Contractor be paid;
  - b. Recommend reductions in payment based on the provisions stated in the Construction Documents;
  - c. Such recommendations of payment will be in writing and will constitute the Engineer's representation to the Authority, based on such observations and review, that, to the best of the Engineer's knowledge, information and belief, the Contractor's Work has progressed to the point indicated, the Work is generally in accordance with the Contract Documents:
    - i. Subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, and to any other qualifications stated in the recommendation, and
    - ii. Subject to the conditions precedent that permits a Contractor to receive payment based on the Work performed, which has been reviewed and accepted by the Engineer;
  - d. In the case of unit price Work, the Engineer's recommendations of payment will include final determinations of quantities and classifications of the Work subject to any subsequent adjustments allowed by the Contract Documents.

**B. *Standards for Certain Construction-Phase Decisions:***

1. The Engineer will render decisions regarding the requirements of the Contract Documents, and judge the acceptability of the Work, pursuant to the specific procedures set forth in the Contract for initial interpretations, Change Proposals, and acceptance of the Work.
2. In rendering such decisions and judgments, the Engineer will not show partiality to the Authority or the Contractor, and will not be liable to the Authority, Contractor, or others in connection with any proceedings, interpretations, decisions, or judgments conducted or rendered in good faith.

**C. *Certificates, Operation and Maintenance Materials:***

1. During the course of construction, as a general service, the Engineer will verify whether materials and equipment certificates, operation and maintenance manuals and other data required by the Contract Documents to be assembled and furnished by the Contractor are applicable to the items actually installed and in accordance with the Contract Documents.
2. After receipt from the Contractor, the Engineer will review and transmit to the Authority:
  - a. Any maintenance and operating instructions,
  - b. Schedules,
  - c. Guarantees, bonds, certificates or other evidence of insurance required by the Contract Documents,
  - d. Certificates of inspection, tests and approvals, and
  - e. Shop Drawings, Samples, and other data as required.
3. Upon receipt from the Contractor, the Engineer will review and transmit to the Authority the annotated record documents which are to be assembled by Contractor in accordance with the Contract Documents to obtain final payment.
4. The Engineer must deliver to the Authority those documents described in subparagraph 2 of this paragraph, prior to the payment for such work.

D. *Completion:*

1. Upon authorization from the Authority, as general services, the Engineer shall:
  - a. Participate in visits to the Project to determine substantial completion, assist in the determination of substantial completion and the preparation of lists to be completed or corrected;
  - b. Participate in a final visit to the Project with Authority personnel; and prepare a final list of items to be completed and deficiencies to be remedied; and
  - c. Observe whether all items on the final list have been completed or corrected and make recommendations to the Authority concerning acceptance of the Project and final payment.
  
2. *Substantial Completion:*
  - a. After a notice has been given by the Contractor as to the substantial completion or completion of Work, the Engineer will promptly visit the Project site to review the Work and determine the status of completion.
  - b. The Engineer will follow the procedures in the Contract Document regarding the following:
    - i. the preliminary certificate of Substantial Completion;
    - ii. punch list of items to be completed;
    - iii. objections made by the Authority;
    - iv. notice to Contractor, and issuance of a final certificate of Substantial Completion.
  - c. The Engineer will assist Authority regarding any remaining engineering or technical matters affecting Authority's use or occupancy of the Work following Substantial Completion.
  
3. *Final Notice of Acceptability of the Work:*
  - a. After conducting a final visit to the Project, the Engineer will determine if the Work is complete and acceptable so that the Engineer may recommend, in writing, final payment to the Contractor.

- b. Accompanying the recommendation for final payment, the Engineer shall also provide a notice to the Authority and the Contractor that the Work is acceptable to the best of the Engineer's knowledge, information, and belief, and based on the extent of the services provided by the Engineer under this Agreement.

**3.07 Pipe Loop Operation and Maintenance.** The Engineer shall provide all engineering services necessary to operate, sample and analyze, monitor and maintain the pipe loop rigs as part of the overall pipe loop demonstration testing program including, but not limited to, the following:

**A. *Conditioning of Pipe Loops:***

1. The Engineer shall prepare harvested pipe loop segments (provided by the Authority) for installation into the pipe loop rigs.
2. The Engineer will conduct pre-conditioning phase scale analysis as recommended in the Work Plan. The Engineer shall include the cost for pre-conditioning pipe scale analysis in their proposal assuming analysis of two (2) pipe loops from each pipe rig (a total of four (4) pre-conditioning analyses).
3. The Engineer will supervise the conditioning of the pipe loops in preparation for the study. The Engineer shall complete analysis of sampling results to determine when the harvested pipe segments have formed a suitable scale and the demonstration study may commence. The Engineer shall assume a six (6) month conditioning period.

**B. *Operation and Monitoring of Pipe Loops***

1. The Engineer shall provide operation and monitoring of pipe loop rigs. The Engineer shall assume a twelve (12) month operation period.
2. The Engineer shall collect and analyze the pipe loop samples in accordance with the Work Plan. The Engineer shall interpret the sample results.
3. The Engineer shall troubleshoot and adjust the operation of the pipe loop rigs accordingly to meet the operating requirements identified in the Work Plan.
4. The Engineer will conduct post-testing scale analysis as recommended in the Work Plan. The Engineer shall include the cost for post-testing pipe scale analysis in their proposal assuming analysis on six (6) pipe loops from each pipe rig (a total of twelve (12) post-testing analyses).

**C. *Sampling***

1. The Engineer shall obtain, transport/deliver, and interpret all samples during the conditioning and operating period in accordance with the approved Work Plan. The Engineer shall include the cost for sample

collection and laboratory analysis in their proposal assuming a six (6) month conditioning period and twelve (12) month operating period.

**3.08 Pipe Loop Testing Report.** The Engineer shall provide all engineering services necessary to prepare a Pipe Loop Testing Report for the pipe loop demonstration testing program including, but not limited to, the following:

- A. The Engineer shall prepare a report summarizing the pipe loop demonstration project findings and making recommendations for the best course of action to ensure compliance with LCRR in consideration of other drinking water quality regulations.
- B. The Engineer shall supply the Authority with four (4) copies of the draft Pipe Loop Testing Report with supporting documentation, along with a digital .pdf file of the draft Pipe Loop Testing Report with supporting documentation.
- C. The Engineer shall meet with the Authority to review the draft Pipe Loop Testing Report and will incorporate all comments into a final version. The Engineer shall supply the Authority with ten (10) copies of the final Pipe Loop Testing Report with supporting documentation, along with a digital .pdf file of the final Pipe Loop Testing Report with supporting documentation. The Engineer shall submit the final Pipe Loop Testing Report with supporting documentation to the Erie County Health Department and New York State Health Department (as applicable) for review and approval.
- D. The Engineer will conduct at least two (2) review meetings with the Authority under this task. Provide meeting minutes to the Authority within ten (10) calendar days.

**3.09 Corrosion Control Program Assistance.** The Engineer may employ one or more of the following corrosion control program related services in carrying out the Project, subject to the Authority's approval.

- A. ***Lead Service Line Inventory.***
  - 1. Inventory development including preparation of public access database.
  - 2. Field investigations and cataloguing of Authority and customer side service line materials.
  - 3. Communications with public including customers identified with lead service lines.
  - 4. Annual inventory update; website content and posting.
- B. ***Lead Service Line Replacement Program.***
  - 1. Development and maintenance of lead service line replacement plans.

2. Customer communication and educational materials.
- C. Water Quality Monitoring and Interpretation
1. Supplemental water quality sampling and interpretation.
  2. Assistance with regulatory reporting.
- D. Monitoring and reporting related to Child Care Facilities.

### 3.10 Special Services.

- A. The Engineer may employ one or more of the following special services in carrying out the Project, subject to the Authority's approval:
1. Air, water, and/or soil sampling, testing, and/or analysis beyond that required by the base scope of work;
  2. Detailed mill, shop and/or laboratory inspection of materials and equipment not specifically identified elsewhere in the scope of services;
  3. Hazardous material testing and assessment;
  4. Technical assistance with operation and maintenance manuals;
  5. Start-up services relating to equipment to be installed by others;
  6. Assistance with grant research, completion of grant applications, and reporting/documentation after award;
  7. Extra travel and subsistence for the Engineer and its staff beyond that normally required under ordinary circumstances, when authorized by the Authority;
  8. Assistance with public relations and communications;
  9. Other services, as deemed necessary by the Authority's Chief Operating Officer and Chief Financial Officers.
- B. **Reliance on Others.** Subject to the standard of care set forth in § 2.01, paragraph A, the Engineer and its special services consultants may use or rely upon design elements and information ordinarily or customarily furnished by others including, but not limited to, specialty contractors, manufacturers, suppliers and the publishers of technical standards.
- C. **Expert Witness Assistance.** The Engineer agrees to assist the Authority as an expert witness in litigation arising from the project development and construction,

even if such assistance is requested by the Authority after the expiration or termination of this Agreement.

**3.11 Service Timeframe.** Unless otherwise extended by mutual agreement of the parties, the Engineer will render professional services relating to this Project within the following timeframe:

- A. All services under § 3.02 of this Agreement, Task 2- Pipe Loop Testing Work Plan, shall be completed and delivered to the Authority within 90 days of the issuance of the Authority's notice to proceed;
- B. All services under § 3.03 of this Agreement, Task 3 - Pipe Loop Rig System - Design, shall be completed and delivered to the Authority within 90 days of the conclusion of the scope of work of § 3.02 of this Agreement, Pipe Loop Testing Work Plan;
- C. All services under § 3.08 of this Agreement, Task 8 - Pipe Loop Testing Report, shall be completed and delivered to the Authority within 120 days following the conclusion of the scope of work of § 3.07 of this Agreement, Pipe Loop Operation and Maintenance.

#### **ARTICLE 4 – PAYMENT OF PROFESSIONAL SERVICES**

**4.01 Lump Sum Payments:** The Engineer agrees to accept a lump sum payment for the following services:

- A. ***Project Initiation and Reporting:*** For services described under § 3.01 of this Agreement, the Authority shall pay Engineer a lump sum which will include all expense, labor and cost associated with this service. Payment will be made monthly based on the percentage of completion up to 100% of the total lump sum amount.
- B. ***Pipe Loop Testing Work Plan:*** For services described under § 3.02 of this Agreement, the Authority shall pay Engineer a lump sum which will include all expense, labor and cost associated with this service. Payment will be made monthly based on the percentage of completion up to 100% of the total lump sum amount.
- C. ***Pipe Loop Rig System - Design:*** For services described under § 3.03 of this Agreement, the Authority shall pay Engineer a lump sum which will include all expense, labor and cost associated with this service. Payment will be made monthly based on the percentage of completion up to 70% of the total lump sum amount. After submission by the Engineer to the Authority of a draft set of Contract Documents, payment will be made monthly based on the percentage of completion up to 90% of the total lump sum amount. The balance will be paid when the final Contract Documents are submitted to the Authority.
- D. ***Pipe Loop Rig System – Construction and General Services:*** For services described under § 3.04 and § 3.06 of this Agreement, the Authority shall pay



Engineer a lump sum which will include all expense, labor and cost associated with this service. Payment will be made monthly based on the percentage of completion up to 100% of the total lump sum amount.

- E. ***Pipe Loop Testing Report:*** For services described under § 3.08 of this Agreement, the Authority shall pay Engineer a lump sum which will include all expense, labor and cost associated with this service. Payment will be made monthly based on the percentage of completion up to 100% of the total lump sum amount.

**4.02 Pipe Loop Rig System – Inspections:** For services described under § 3.05 of this Agreement, the Authority shall pay the Engineer the payable hourly rates listed under §4.06, paragraph B and direct non-salary expenses. Overtime premium will be paid at 50% of the Inspectors’ direct hourly rate in addition to the payable hourly rate listed under §4.06, paragraph B. Payment for Inspection and expenses will be made monthly.

**4.03 Pipe Loop Operation and Maintenance Services:** For services described under § 3.07 of this Agreement, the Authority shall pay the Engineer at the fixed rates included in Appendix A of this Agreement and direct non-salary expenses. Payment will be made monthly. Payments for services will be based on detailed actual hours worked with a total cost not to exceed <insert total value from table in Appendix A>.

**4.04 Corrosion Control Program Assistance:** For services described under § 3.08 of this Agreement, the Authority shall pay the Engineer at the fixed rates included in Appendix B of this Agreement and direct non-salary expenses. Payment will be made monthly. Payments for services will be based on detailed actual hours worked with a total cost not to exceed <insert total value from table in Appendix B>.

**4.05 Special Services:** For services described under § 3.09 of this Agreement, the Authority shall pay the Engineer for special services pre-approved by the Authority’s Chief Operating Officer in an amount approved by the Authority’s Chief Financial Officer.

- A. When the Engineer is performing the special services described in § 3.09 of this Agreement, such services will be billed at the fixed rates included in Appendix C of this Agreement.
- B. When the Engineer obtains special services from a third party, the Engineer will be reimbursed based on the actual invoice cost paid by the Engineer, plus 5%.

**4.06 Engineering Cost Schedule:**

**A. *Engineering Costs:***

1. Lump Sum – Project Initiation and Reporting < insert cost >
2. Lump Sum – Pipe Loop Testing Work Plan < insert cost >
3. Lump Sum – Pipe Loop Rig System – Design < insert cost >
4. Lump Sum – Pipe Loop Rig System – Construction/General Svcs. < insert cost >
5. Lump Sum – Task 5 – Pipe Loop Testing Report < insert cost >

TOTAL LUMP SUM COST:

< insert cost >

**B. Inspection Costs:**

	Payable Hourly Rate	Employee Direct Hourly Rate
< Insert Staff Title >	< insert cost >	< insert cost >

The Dollar amount for Estimated Inspection is based fixed hour estimate of 80 hours of < insert staff title > Payable Hourly Rate during the duration of the Pipe Loop Rig System construction. Payment will be made for actual hours worked during the duration of construction. Actual hours will vary based on production rates of the Contractor during construction, unforeseen circumstances that develop during construction, and weather conditions.

- 1. Estimated Inspection < insert cost >
- 2. TOTAL NOT TO EXCEED INSPECTION: < insert cost >

**C. Hourly Costs (not to exceed)**

- 1. Pipe Loop Operation and Maintenance < insert cost Appendix A >
- 2. Corrosion Control Program Assistance < insert cost Appendix B >

**D. Special Services (not to exceed)**

**\$50,000.00**

**E. Other Costs:**

- 1. Estimated Mileage (IRS rate) < insert cost >/mile
- 2. Estimated Copy Costs (per copy) < insert cost >/sheet
- 3. Prints (per print) < insert cost >/print
- 4. Subcontractor Expenses, invoiced as special services Cost plus 5% maximum
- 5. Other Direct Non-Salary Costs At cost

Total Estimated Direct Non-Salary Costs (not to exceed) < insert cost >

**4.07 Audit:** The Authority reserves the right to audit the Engineer’s records to verify bills submitted and representations made. For this purpose, the Engineer agrees to make company records available for inspection upon written notice by the Authority. The Authority shall have two years from the date of the Engineer’s final bill to complete its audit. If the audit establishes an overcharge, the Engineer agrees to refund the excess.

**ARTICLE 5 – GENERAL PROVISIONS**

**5.01 Subcontract and Assignments:** The Engineer may not subcontract or delegate any of the work, services, and/or other obligations of the Engineer without the express written consent of the Authority. The Authority and the Engineer bind themselves and their successors, administrators

and assigns to the terms of this Agreement. The Engineer shall not assign, sublet or transfer its interest in the Agreement without the written consent of the Authority.

**5.02 Amendments:** No modification or variation from the terms of this Agreement shall be effective unless it is in writing and authorized by a resolution of the Board of Commissioners of the Authority and signed by all parties.

**5.03 Right to Terminate:** The Authority reserves the right to terminate the Engineer's services at any time, without cause, based on seven (7) days' written notice. The Engineer shall not be entitled to lost profit and shall perform only such services, after notification of termination, as the Authority directs.

**5.04 Indemnification:**

- A. To the fullest extent permitted by law, the Engineer agrees to indemnify and hold the Authority harmless from all third party claims, liabilities, damages and costs (including all reasonable attorney's fees, and cost of defense) to which the Authority, its officers, directors and employees may be subject to, arising out of the death or bodily injury to any person or the destruction or damage to any property to the extent caused by the negligent acts, errors or omissions, or willful misconduct of the Engineer's performance of professional services provided under this Agreement and those of its subcontractors or anyone for whom the Engineer is legally liable.
- B. To the fullest extent permitted by law, the Authority agrees to indemnify and hold the Engineer harmless from all third party claims, liabilities, damages and costs (including all reasonable attorney's fees and cost of defense) to the extent caused by the negligent acts, errors or omissions of the Authority, its contractors, engineers, or anyone for whom the Authority is legally liable.

**5.05 Confidential Information:**

- A. In order to assist the Engineer in the performance of this Agreement, the Authority may provide the Engineer with confidential information including, but not limited to information relative to the services to be performed. All information received by the Engineer in any fashion and under any conditions resulting from the rendering of the services in consideration of this agreement, are considered confidential. The Engineer shall hold in confidence and not disclose to any person or any entity, any information regarding information learned during the performance of services including but not limited to information relative to the services to be performed.
- B. The Engineer shall use at least the same degree of care to protect and prevent unauthorized disclosure of any confidential information as it would use to protect and prevent unauthorized disclosure of its own proprietary information. The Engineer shall use confidential information only in the performance of this Agreement. No other use of the confidential information whether for the Engineer's benefit or for the benefit of others shall be permitted.

- C. In no event is the Engineer authorized to disclose confidential information without the prior written approval of the Authority. The Engineer may provide such information to its subcontractors for the purpose of performing the services; or disclose such information, with notice to the Authority, if such information is required to be disclosed by law or court order.
- D. The terms of this section shall be binding during and subsequent to the expiration or termination of this Agreement.

**5.06 Insurance:**

- A. The Engineer shall secure and maintain such insurance as will protect itself from claims under the Workers' Compensation Act; claims for damages because of bodily injury, including personal injury, sickness or disease, or death of any of its employees or of any person other than its employees; and from claims for damages because of injury to or destruction of property including loss of use resulting therefrom in the amounts indicated on Appendix D.
- B. The Engineer shall provide and maintain insurance that will provide coverage for claims arising out of the negligent performance of its services.
- C. The Engineer shall provide Certificates of Insurance certifying the coverage required by this provision.
- D. The Engineer shall provide the name of an employee who will be responsible for providing the Authority with current and updated Certificates of Insurance. The Authority will require the name of the employee, the employee's phone number and email address.

**5.07 Copyrights, Trademarks and Licensing:** All materials produced under this Agreement, whether produced by the Engineer alone or with others, and regardless of whether produced during regular working hours, shall be considered work made for hire and the property of the Authority. The Engineer shall, during and subsequent to the terms of this Agreement, assign to the Authority, without further consideration, all right, title and interest in all material produced under this Agreement. All material produced under this Agreement shall be and remain the property of the Authority whether registered or not.

**5.08 New York Law and Jurisdiction:** Notwithstanding any other provision of this Agreement, any dispute concerning any question of fact or law arising under this Agreement which is not disposed of by agreement between the Engineer and the Authority shall be governed, interpreted and decided by a court of competent jurisdiction of the State of New York in accordance with the laws of the State of New York.

**5.09 Conflicts of Interest:** The Engineer represents that it has advised the Authority in writing prior to the date of signing this Agreement of any relationships with third parties, including competitors of the Authority, which would present a conflict of interest with the rendering of the services, or which would prevent the Engineer from carrying out the terms of this Agreement or which would present a significant opportunity for the disclosure of confidential information. The

Engineer will advise the Authority of any such relationships that arise during the term of this Agreement. The Authority shall then have the option to terminate the Agreement without being subject to further obligations under its terms, except for the payment of services already rendered by the Engineer. So long as the Engineer reports such a conflict as required by this section, the Engineer will have no further obligations for completing the scope of services under the terms of this Agreement.

**5.10 Additional Conditions:** The Engineer and the Authority acknowledge that there may be additional conditions, terms and provisions which shall apply specifically to the services to be performed. The parties agree to negotiate in good faith to agree upon such additional terms.

**5.11 Entire Agreement:** This Agreement constitutes the entire understanding of the parties and no representations or agreements, oral or written, made prior to its execution shall vary or modify the terms herein. This Agreement supersedes all prior contemporaneous communications, representations, or agreements, whether oral or written with respect to the subject matter hereof and has been induced by no representations, statements or agreements other than those herein expressed. No subsequent agreement made between the parties shall be binding on either party unless reduced to writing and signed by an authorized officer of the party sought to be bound by such agreement.

**5.12 Independent Status:**

- A. Nothing contained in the Agreement shall be construed to render either the Authority or the Engineer, an owner, member, officer, partner, employee or agent of the other, nor shall either party have authority to bind the other in any manner, other than as set forth in this Agreement, it being intended that the Engineer shall remain an independent contractor responsible for its own actions. The Engineer is retained by the Authority only for the purpose and to the extent set forth in this Agreement.
- B. The Engineer is free to choose the aggregate number of hours worked and the scheduling of such hours as it shall see fit at its discretion within the limitations set forth in Article 4.
- C. Neither the Engineer nor its employees shall be considered under the provisions of this Agreement or otherwise as having an employee, servant or agency status or as being entitled to participate in any plans, arrangements or distributions of the Authority.
- D. In providing the services under this Agreement, the Engineer represents and warrants that it has complied with all applicable federal, state and local laws particularly with respect to licenses, withholdings, reporting and payment of taxes. The Engineer agrees to furnish copies of documentation to the Authority evidencing its compliance with such laws. The Engineer further represents and warrants that any income accruing to the Engineer and its employees from the Agreement shall be reported as such to the appropriate taxation authorities.

**5.13 Doing Business Status:** The Engineer represents it is qualified to do business in the State of New York and has registered with the New York Secretary of State.

**5.14 Force Majeure:** Engineer shall not be liable to the Authority for any failure to perform the Services if any such failure is caused by forces beyond Engineer's reasonable control, including without limitation, actions or inactions of any governmental agencies, changes in law, strikes, lockouts, or other industrial disturbances, acts or omissions of third-parties, civil disturbances, fires, floods, earthquakes, acts of God, acts of a public enemy or terrorism, epidemics or pandemics, including issues arising out of the COVID-19 pandemic, which may include without limitation, workforce shortages, lack of necessary supplies or Personal Protective Equipment, travel restrictions, and other restrictions resulting from public guidance and emergency orders.

**5.15 Gratuities:** The Engineer shall prohibit its agents, employees and consultants from using their positions for personal financial gain, or from accepting any personal advantage from anyone under circumstances which might reasonably be interpreted as an attempt to influence the recipients in the conduct of their official duties. The Engineer or its employees shall not, under circumstances which might be reasonably interpreted as an attempt to influence the recipients in the conduct of their duties, extend any gratuity or special favor to employees of the Authority.

**5.16 Notice:** Any notices required by this Agreement or otherwise shall be delivered by United States Postal mail or personal delivery upon the addresses hereinbefore stated. Any change in such addresses shall be required to be in writing to the other party and acknowledged as such.

## **ARTICLE 6 – SEVERABILITY**

**6.01** Any provision or part of the Agreement held to be void or unenforceable by a court of competent jurisdiction shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the parties, which agrees that the Agreement shall be reformed to replace such stricken provisions or part thereof with a valid enforceable provision that comes as close as possible to expressing the intent of the stricken provision. The validity and enforceability of all other provisions of this Agreement shall not otherwise be affected.

## **ARTICLE 7 – TERMINATION**

**7.01** The Authority reserves the right to terminate this Agreement in the event it is found that the Certification filed by the Engineer in accordance with New York State Finance Law §139-k was intentionally false or intentionally incomplete. Upon such finding, the Authority may exercise its termination right by providing written notification to the Engineer in accordance with the written notification terms of this Agreement.

**ERIE COUNTY WATER AUTHORITY**

By \_\_\_\_\_  
Jerome D. Schad, Chair

< *insert name of Engineer* >

By \_\_\_\_\_

**STATE OF NEW YORK )**  
**COUNTY OF ERIE ) ss:**

On the \_\_\_\_\_ day of \_\_\_\_\_, in the year 2021, before me personally came Jerome D. Schad, to me known, who, being by me duly sworn, did depose and say that he resides in Amherst, New York, that he is the Chair of the Board of Commissioners for the Erie County Water Authority described in the above instrument; and that he signed his name thereto by order of the Board of Commissioners.

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

**STATE OF NEW YORK )**  
**COUNTY OF NEW YORK ) ss:**

On the \_\_\_\_\_ day of \_\_\_\_\_, in the year 2021, before me personally came \_\_\_\_\_, to me known, who, being by me duly sworn, did depose and say that he resides in \_\_\_\_\_, New York, that he is the \_\_\_\_\_ of the Corporation described in the above instrument; and that he signed his name thereto by order of the Board of Directors of said Corporation.

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

**APPENDIX A**

**PIPE LOOP OPERATION AND MAINTAINENCE  
CONSULTANT ENGINEER FIXED HOURLY BILLING RATES**

<b>Title/Grade</b>	<b>Hourly Billing Rate (through 2022)</b>	<b>Quantity (hrs)</b>	<b>Cost</b>
Principal	<insert>	8	<insert>
Project Manager	<insert>	40	<insert>
Senior Process Engineer	<insert>	200	<insert>
Project Engineer	<insert>	2000	<insert>
Junior Engineer/Chemist	<insert>	400	<insert>
Design Tech/Drafter	<insert>	40	<insert>
Administration/Word Processing	<insert>	40	<insert>
<b>Estimate Non-Direct Costs</b>			<b>\$12,000</b>
<b>Total Estimated Cost</b>			<b>&lt;insert&gt;</b>



**APPENDIX B**

**CORROSION CONTROL PROGRAM ASSISTANCE  
CONSULTANT ENGINEER FIXED HOURLY BILLING RATES**

<b>Title/Grade</b>	<b>Hourly Billing Rate (through 2022)</b>	<b>Quantity (hrs)</b>	<b>Cost</b>
Principal	<insert>	8	<insert>
Project Manager	<insert>	20	<insert>
Senior Process Engineer	<insert>	80	<insert>
Project Engineer	<insert>	120	<insert>
Junior Engineer/Chemist	<insert>	80	<insert>
Design Tech/Drafter	<insert>	20	<insert>
Administration/Word Processing	<insert>	20	<insert>
<b>Estimated Non-Direct Costs</b>			<b>\$5,000.00</b>
<b>Total Estimated Cost</b>			<insert>

**APPENDIX C**

**FIXED RATES FOR SPECIAL SERVICES**

<b>Grade</b>	<b>Hourly Billing Rate</b>
<insert>	<insert>
<insert>	<insert>
<insert>	<insert>
<insert>	<insert>
<insert>	<insert>
<insert>	<insert>
<insert>	<insert>
<insert>	<insert>
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<insert>	<insert>
<insert>	<insert>
<insert>	<insert>

## APPENDIX D

### INSURANCE REQUIREMENTS FOR PROFESSIONAL SERVICES CONTRACT FOR CONSULTING ENGINEERING SERVICES

#### CORROSION CONTROL TREATMENT PROGRAM PIPE LOOP DEMONSTRATION STUDY

ECWA Project No. 202100012

#### Insurance Specs:

The following minimum insurance requirements shall apply to vendors providing services to the Erie County Water Authority (the "Authority"). If a service or project, in the opinion of the Authority, represents an unusual or exceptional risk, the Authority may establish additional insurance requirements for that service or project. All insurance required herein shall be obtained at the sole cost and expense of the contractor, including deductibles and self-insured retentions, and shall be in full force and effect on the contract commencement date and for the duration of the contract. These requirements include but are not limited to the minimum insurance requirements.

#### Insurance Requirements:

**a. Workers Compensation:**

Part 1: Workers Compensation: Statutory

Part 2: Employers Liability: \$1,000,000.

Note: If New York State domiciled employees are used, coverage to be New York Statutory for both Parts 1 and 2

**b. New York Disability Benefits Liability:** Statutory coverage if New York State domiciled employees are used.

**c. Commercial General Liability:**

- \$2,000,000. General Aggregate
- \$2,000,000. Products/Completed Operations Aggregate
- \$1,000,000. Each Occurrence
- \$1,000,000. Personal Injury/Advertising Liability
- Per Project/Job Aggregate Limit Required
- Erie County Water Authority to be scheduled as an Additional Insured for both on-going and completed operations (attach Additional Insured endorsement to Certificate of Insurance)
- Insurance to be primary and non-contributory

**d. Automobile Liability:**

- \$1,000,000. Each Accident
- Erie County Water Authority to be scheduled as an Additional Insured.

**e. Umbrella Liability:**

- \$1,000,000. Each Occurrence

- \$1,000,000. Aggregate
- Per Project/Job Aggregate Limit Required

**e. Professional Liability, Liability/Errors & Omissions:**

- \$2,000,000 Per Claim
- \$2,000,000 Aggregate

Certificates of Insurance to be provided to the Authority prior to start of work as follows:

ACORD 25 including copy of Additional Insured Endorsement

Note: If coverage provided for NYS domiciled employees require Forms C 105.2 and DB 120.1 for Workers Compensation and NYS DBL.

Certificates of Insurance, on forms approved by the New York State Department of Insurance, must be submitted to the Authority prior to the award of contract. Renewals of Certificates of Insurance, on forms approved by the New York State Department of Insurance, must be received by the Authority 30 days prior to the expiration of the insurance policy period.

Certificates of Insurance and renewals, on forms approved by the New York State Department of Insurance, must be submitted to the Authority prior to the award of contract. Each insurance carrier issuing a Certificate of Insurance shall be rated by A. M. Best no lower than "A-" with a Financial Strength Code (FSC) of at least VII. The professional service provider shall name the Authority, its officers, agents and employees as additional insured on a Primary and Non-Contributory Basis, including a Waiver of Subrogation endorsement (form CG 20 26 11 85 or equivalent), on all applicable liability policies. Any liability coverage on a "claims made" basis should be designated as such on the Certificate of Insurance. Such insurance shall continue through the term of this Agreement and vendor shall purchase at his sole expense either 1) an Extended Reporting Endorsement (also, known as Tail Coverage); or 2) Prior Acts Coverage from new insurer with a retroactive date back to the date of, or prior to, the inception of this Agreement; or 3) demonstrate through Certificates of Insurance that vendor has Maintained continuous coverage with the same or original insurer. Coverage provided under items; 1), 2), or 3) will continue as long as the law allows.

To avoid confusion with similar insurance company names and to properly identify the insurance company, please make sure that the insurer's National Association of Insurance Commissioners (N.A.I.C.) identifying number or A. M. Best identifying number appears on the Certificate of Insurance. Also, at the top of the Certificate of Insurance, please list the project number.

Acceptance of a Certificate of Insurance and/or approval by the Authority shall not be construed to relieve the outside vendor of any obligations, responsibilities or liabilities.

Certificates of Insurance should be e-mailed to [mmusarra@ecwa.org](mailto:mmusarra@ecwa.org) or mailed to Ms. Molly Jo Musarra, Claim Representative/Risk Manager, Erie County Water Authority, 295 Main Street, Room 350, Buffalo, New York 14203-2494, or If you have any questions you can contact Ms. Musarra by e-mail or phone (716) 849-8465.

**APPENDIX E**  
**RESPONSE TO RFP**  
**STATE FINANCE LAW REQUIRED FORMS**

*< Engineer's RFP response including the following required forms to be inserted here >*

## FORMS A, B, and C

### STATE FINANCE LAW REQUIREMENTS

The Erie County Water Authority (the “Authority”) is a government entity, as that term is defined in State Finance Law §§ 139-j(1)(a) and 139-k(1)(a). When the Authority seeks to procure goods or services by means of an Invitation or Notice to Bid, or a Request for Proposals, the State Finance Law imposes certain restrictions on anyone who may wish to offer goods or services to the Authority as an Offerer, as that term is defined in §§ 139-j(1)(h) and 139-k(1)(h).

During the Restricted Period, as defined in §§ 139-j(1)(f) and 139-k(1)(f), when bids or proposals are being solicited, the Authority will designate a contact person with whom the Offerer may contact for information and other authorized purposes as set forth in §139-j of the State Finance Law. The designated contact is identified in the Notice to Bidders, or in the Request for Proposal. An Offerer is authorized to contact the Authority’s designated contact for such purposes as set forth in § 139-j(3).

Pursuant to the State Finance Law, the Authority is also required to make certain findings before making any determinations as to the qualifications and eligibility of those seeking a procurement contract, as that term is defined in State Finance Law §§ 139-j(1)(g) and 139-k(1)(g). Certain findings of non-responsibility can result in rejection for contract award and in the event of two findings of non-responsibility occurring within a 4-year period, the Offerer will be debarred from obtaining procurement contracts with the Authority. Further information about these requirements can be found in §§139–j and 139–k of the New York State Finance Law and the Erie County Water Authority’s Procurement Disclosure Policy.

The following forms will be used by the Authority to make such findings:

Form A - Offerer’s Affirmation of Understanding of, and Agreement to Comply with, the Authority’s Permissible Contact Requirements During the Restricted Period.

Form B - Offerer’s Certification of Compliance with State Finance Law.

Form C - Offerer’s Disclosure of Prior Non-Responsibility Determinations.

**FORM A**

**Offerer's Affirmation of Understanding of, and Agreement to Comply  
with, the Permissible Contact Requirements During the Restricted Period**

**Instructions:**

The Erie County Water Authority (the "Authority") is a government entity, as that term is defined in State Finance Law §§ 139-j(1)(a) and 139-k(1)(a). The Authority must obtain a written affirmation of understanding and agreement to comply with procedures regarding permissible contacts with the Authority in the restricted period for a procurement contract in accordance with State Finance Law §139-j and §139-k. It is required that this affirmation be obtained as early as possible in the procurement process, but no later than when the Offerer submits its proposal.

Offerer affirms that it understands and agrees to comply with the procedures of the Authority relative to permissible contacts as required by State Finance Law §139-j(3) and §139-j(6)(b).

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

Name: \_\_\_\_\_

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

Contractor Name: \_\_\_\_\_

Contractor Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**FORM B**

**Offerer's Certification of Compliance  
With State Finance Law §139-k(5)**

**Instructions:**

The Erie County Water Authority (the "Authority") is a government entity, as that term is defined in State Finance Law §§ 139-j(1)(a) and 139-k(1)(a). The Authority must obtain a Certification that the information submitted for a procurement contract is complete, true, and accurate regarding any prior findings of non-responsibility, such as non-responsibility pursuant to State Finance Law §139-j. The Offerer must agree to sign the Certification, under penalty of perjury, and to provide the Certification to the Authority. The Certification should be obtained as early as possible in the process, but no later than when an Offerer submits its proposal.

**Offerer Certification:**

*I certify that all information provided to the Authority relating to the awarding of a procurement contract is complete, true, and accurate.*

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

Name: \_\_\_\_\_

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

Contractor Name: \_\_\_\_\_

Contractor Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**FORM C****Offerer's Disclosure of Prior  
Non-Responsibility Determinations****Background:**

The Erie County Water Authority (the "Authority") is a government entity, as that term is defined in State Finance Law §§ 139-j(1)(a) and 139-k(1)(a). New York State Finance Law §139-k(2) obligates the Authority to obtain specific information regarding prior non-responsibility determinations with respect to State Finance Law §139-j. In accordance with State Finance Law §139-k, an Offerer must be asked to disclose whether there has been a finding of non-responsibility made within the previous four (4) years by any Governmental Entity due to: (a) a violation of State Finance Law §139-j; or (b) the intentional provision of false or incomplete information to a Government Entity.

The terms "Offerer" and "Governmental Entity" are defined in State Finance Law §§139-j(1) and §139-k(1). These sections also set forth detailed requirements about the restrictions on contacts during the procurement process. A violation of State Finance Law §139-j includes, but is not limited to, an impermissible contact during the restricted period (for example, contacting a person or entity other than the designated contact person, when such contact does not fall within one of the exemptions).

As part of its responsibility determination, State Finance Law §139-k(3) mandates consideration of whether an Offerer fails to timely disclose accurate or complete information regarding the above non-responsibility determination. In accordance with law, no Procurement Contract shall be awarded to any Offerer that fails to timely disclose accurate or complete information under this section, unless a finding is made that the award of the Procurement Contract to the Offerer is necessary to protect public property or public health safety, and the Offerer is the only source capable of supplying the required Article of Procurement, as that term is defined in State Finance Law §§ 139-j(1)(b) and 139-k(1)(b), within the necessary timeframe. See State Finance Law §139-j(10)(b) and §139-k(3).

**Instructions:**

The Authority must include a disclosure request regarding prior non-responsibility determinations in accordance with State Finance Law §139-k in its solicitation of proposals or bid documents or specifications or contract documents, as applicable, for procurement contracts. The attached form is to be completed and submitted by the individual or entity seeking to enter into a Procurement Contract. It shall be submitted to the Authority conducting the Governmental Procurement no later than when the Offerer submits its proposal.





## **CONTRACT TERMINATION PROVISION**

### **Instructions:**

A Contract Termination Provision will be included in each procurement contract governed by State Finance Law §139-k. New York State Finance Law §139-k(5) provides that every procurement contract award subject to the provisions of State Finance Law §§139-k and 139-j shall contain a provision authorizing the governmental entity to terminate the contract in the event that the certification is found to be intentionally false or intentionally incomplete. This statutory contract language authorizes, but does not mandate, termination. “Government Entity” and “procurement contract” are defined in State Finance Law §§ 139 j(1) and 139-k(1).

This required clause will be included in a covered procurement contract.

A sample of the Termination Provision is included below. If a contract is terminated in accordance with State Finance Law §139-k(5), the Erie County Water Authority, as a governmental entity, is required to include a statement in the procurement record describing the basis for any action taken under the termination provision.

### **Sample Contract Termination Provision**

The Erie County Water Authority, as a governmental entity, reserves the right to terminate this contract in the event it is found that the certification filed by the Offerer in accordance with New York State Finance Law §139-k was intentionally false or intentionally incomplete. Upon such finding, the Authority may exercise its termination right by providing written notification to the Offerer in accordance with the written notification terms of this contract.

SECTION 139-L OF THE STATE FINANCE LAW  
STATEMENT RELATING TO SEXUAL HARASSMENT POLICY

1. "Bidder" has the same meaning as the term, "Offerer," as that term is defined in State Finance Law § 139-k(1)(h), and includes anyone who submits a bid or proposal.
2. Every proposal or bid hereafter made and submitted to the Erie County Water Authority, where competitive bidding or a sealed proposal is required by statute, rule or regulation, for work or services performed or to be performed or goods sold or to be sold, shall contain the following statement subscribed by the Bidder and affirmed by such Bidder as true under penalty of perjury:

SEXUAL HARASSMENT BIDDING CERTIFICATION

- (a) "By submission of this bid/proposal, EACH BIDDER AND EACH PERSON SIGNING ON BEHALF OF ANY BIDDER CERTIFIES, AND IN THE CASE OF A JOINT BID EACH PARTY THERETO CERTIFIES AS TO ITS OWN ORGANIZATION, under penalty of perjury, that the Bidder has and has implemented a written policy addressing sexual harassment prevention in the workplace and provides annual sexual harassment prevention training to all its employees. Such policy shall, at a minimum, meet the requirements of Section two hundred one-g of the Labor Law."
3. A bid/proposal shall not be considered for award nor shall any award be made to a Bidder who has not complied with subdivision one of this section; provided, however, that if in any case the Bidder cannot make the foregoing certification, the Bidder shall so state and shall furnish with the bid/proposal a signed statement which sets forth in detail the reasons therefore.

The undersigned CERTIFIES, under penalty of perjury, that he is authorized to make this bid/proposal and execute this statement on sexual harassment; that he is familiar with the statements contained in ¶2(a) of this document, as well as the provisions of State Finance Law §139-L and Labor Law §201-g, and such statements are true and have been complied with by the Bidder.

\_\_\_\_\_  
(Name of Individual, Partnership or Corporation)

By \_\_\_\_\_  
(Person authorized to sign)

(SEAL)