

**AMENDMENT NO. 1  
TO  
AGREEMENT FOR PROFESSIONAL CONSULTING SERVICES  
BETWEEN  
BROKEN ARROW MUNICIPAL AUTHORITY  
AND  
HOLLOWAY, UPDIKE, AND BELLEN, INC.  
FOR  
SANITARY SEWER LIFT STATION CONDITION ASSESSMENTS  
PROJECT NO. N/A**

THIS **AMENDMENT NO. 1**, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_ 2026, by and between the BROKEN ARROW MUNICIPAL AUTHORITY, OKLAHOMA, a municipal corporation of the State of Oklahoma, hereinafter referred to as “OWNER”, and Holloway, Updike and Bellen, Inc., hereinafter referred to as “CONSULTANT”;

**WITNESSETH:**

**WHEREAS**, OWNER and CONSULTANT entered into an AGREEMENT dated June 16, 2025 “ORIGINAL AGREEMENT” for services as set forth in said AGREEMENT; and

**WHEREAS**, said ORIGINAL AGREEMENT requires CONSULTANT to provide Professional Services to perform site visits, inspections, condition assessments and report findings at thirty-two (32) sanitary sewer lift stations located throughout the BAMA service area.

**WHEREAS**, OWNER and CONSULTANT propose to amend said ORIGINAL AGREEMENT to expand the project scope and compensation to include a condition assessment of the Old Adams Creek force main system, including inspection, evaluation, and reporting services to support future maintenance, rehabilitation, and capital improvement planning.

**WHEREAS**, the ORIGINAL AGREEMENT and Amendment No. 1 shall hereinafter collectively be referred to as the “AGREEMENT”; and

**WHEREAS**, funding is now available for said additional services; and

**WHEREAS**, CONSULTANT is prepared to provide said additional services identified in this Amendment.

**NOW THEREFORE**, in consideration of the promises contained herein, the parties hereto agree to amend the AGREEMENT as follows:

**1. PROJECT SCOPE.**

This Amendment requires CONSULTANT to provide professional services (through Subconsultant) for the Old Adams Creek Force Main Condition Assessment, including project planning and data review, field reconnaissance,

internal force main inspection, analysis of inspection results, and preparation of a technical memorandum. Services will include assessment of force main conditions, identification of air and gas pockets, leak and blockage detection, evaluation of system risks, and recommendations for future maintenance, rehabilitation, and operational improvements. See Attachment A-1 for a detailed description of project scope.

**2. CHANGE IN AGREEMENT AMOUNT.**

As compensation for the additional work, OWNER shall pay CONSULTANT in accordance with the terms as a change in the AGREEMENT amount;

Original AGREEMENT Amount executed June 20, 2016	\$89,000.00
<u>Amendment No. 1:</u>	
Subconsultant passthrough:	\$70,150.00
HUB 5% markup:	\$3,507.00
HUB fee (PA, coordination, etc.):	\$6,000.00
Deduct for unused Electrical Allowance:	-\$15,000.00
Deduct for unused Structural Allowance:	-\$5,000.00
<u>Deduct for unused Capacity Allowance:</u>	<u>-\$15,000.00</u>
Total Amendment No. 1:	\$44,657.00
Revised Total AGREEMENT Amount	\$133,657.00

Refer to Attachment C-1 for detailed description of compensation and additional services.

**3. AMENDED PROJECT SCHEDULE**

Refer to Attachment E-1 for project schedule.

**4. EFFECTIVE DATE AND AUTHORIZATION TO PROCEED.**

This Amendment No. 1 is effective upon signature of both parties.

Except as amended hereby, all terms of the AGREEMENT shall remain in full force and effect without modification or change.

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**ATTACHMENT A-1  
TO  
AMENDMENT NO. 1 FOR PROFESSIONAL CONSULTING SERVICES  
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**SCOPE OF SERVICES**

The following scope of services shall be made a part of the AGREEMENT dated the \_\_\_\_ day of June, 2026.

**1.0 PROJECT UNDERSTANDING**

- 1.1 CONSULTANT understands that the OWNER has retained their professional services in order to provide professional services (through Subconsultant) for the Old Adams Creek Force Main Condition Assessment, including project planning and data review, field reconnaissance, internal force main inspection, analysis of inspection results, and preparation of a technical memorandum. Services will include assessment of force main conditions, identification of air and gas pockets, leak and blockage detection, evaluation of system risks, and recommendations for future maintenance, rehabilitation, and operational improvements.
- 1.2 The CONSULTANT is required to keep the OWNER apprised of the PROJECT costs and advise the OWNER of necessary cost reduction measures, if required, during the course of the PROJECT.

**2.0 PROJECT SCOPE**

- 2.1 CONSULTANT will perform (through subconsultant) Adams Creek NW force main assessment located at the Adams Creek NW Lift Station. Scope of work includes:
  - 2.1.1 Project Administration and Preliminary Risk Assessment:
    - a. Provide project management services including invoicing, scope, schedule, and fee tracking, and closeout services.
    - b. Meet with BAMA staff as necessary to discuss progress of the project.
    - c. Using GIS shapefiles, prepare preliminary risk assessment technical memorandum for sewer force mains in BAMA's collection system:
      - i. Estimate percentage of design life used, comparing force main age to the design life of the pipe.
      - ii. Assign a High/Medium/Low risk score for the following failure modes:
        - 1. Structural Integrity: risk of failure from increased overburden load compared to original installation conditions.
        - 2. External Corrosion: Identify risk of external pipe wall loss from soil environments.
        - 3. Internal Corrosion: Identify risk of internal pipe wall loss from wastewater environment.

4. Environmental Impact: Identify impact due to the surrounding environment resulting from a force main failure.
5. System Impact: Identify the impact to the collection system resulting from a force main failure.

#### 2.1.2 Preparatory Work & Data Review

- a. Conduct a kickoff meeting with the BAMA staff to discuss the project.
- b. Discuss pump station history, operation, and maintenance.
- c. Gather and review all available data from the BAMA regarding the lift stations and force mains, including GIS maps and databases, design and/or record drawings, maintenance, modification/rehabilitation, and repair records, past inspection data, lift station operational data, and any other related data.
  - i. Dye Test Travel Time Calculations
  - ii. Finalize Launch and Retrieval Locations
- d. Share follow-up questions with the BAMA for discussion during the site visit.
- e. Prepare for a field planning visit.
- f. INGU Data Preparation
  - i. Kickoff Meeting – RJN and INGU
  - ii. INGU Deliverables
    1. KMZ File of Force Main Paths
    2. Excel Elevation Profile(s)
    3. Questionnaire(s)
- g. Meet with BAMA staff on-site for site visit inspections. During visit, discuss any questions that arose during the data review process.
- h. Pump station field check:
  - i. Perform general assessments including verifying data from data review and accessing force main access for internal inspections.
  - ii. Observe pump operations and conduct a dye test to measure travel time.
  - iii. Discuss and confirm the ability to provide supplemental water to wet well for extended pumping of lift station to complete inspection, if necessary.
  - iv. GPS locate (mapping grade) lift station structure.
- i. Force main field check:
  - i. Visually inspect all air-release valves (ARV) and structures on the force main routes. Observe valve exercising by BAMA staff to confirm operation, if possible.
  - ii. Inspect force main outlets. Look for signs of corrosion and H<sub>2</sub>S gas and lamp up the force main pipes, as able. Determine methodology for catching Pipers.
  - iii. GPS locate ARVs, known bends, other force main structures, and downstream discharge structures using an antenna, and incorporate this data into a KMZ file
- j. Provide access to collected data on Clarity®, RJN's online data management hub.

#### 2.1.3 Force Main Inspection

- a. Discuss results of preliminary assessment with BAMA staff. Confirm that internal inspection of the force mains is feasible.
- b. Contract with INGU on the rental of Pipers multi-sensors.
- c. Provide equipment and personnel as necessary to perform internal inspection of the force mains and retrieval of the inspection tools.

Customize catching devices as necessary for force main discharge points.

- d. Work with BAMA staff to assist in the launching, the operation of the pump station and the retrieval at the discharge manhole.
  - i. Perform two Piper deployments per force main.

#### 2.1.4 Data Evaluation and Technical Memorandum (TM)

- a. Review and analyze inspection results and recommendations.
  - i. Pipers' technology includes the following results:
    - 1. Acoustic leak detection
    - 2. Air and gas pocket detection
    - 3. High resolution pressure sensing
    - 4. Deposit, debris, and blockage locating
- b. Include a summary of the work completed and results of the internal screening.
- c. Prepare a GIS map of the force main systems, including findings from the site inspections, document review, and internal screening.
- d. Provide recommendations for further inspections, rehabilitation/repair, and/or maintenance of the force mains.
- e. Provide high-level budgetary estimates and recommended implementation timeline based on urgency.
- f. Technical Memorandum (TM) Submittal:
  - i. Provide a digital draft of TM,
  - ii. Revise draft based on BAMA staff comments and submit a digital and two hard copies (if desired) of final TM.
  - iii. Provide digital copies of all data, results, and photographs from inspections.
  - iv. Upload final report to Clarity and submit a digital and two hard copies (if desired).

#### 3.1 Items Requested from the OWNER

- 1. Updated GIS geodatabases and/or shape files for the sanitary sewer collection system.
- 2. Copies of available plan sets, specifications, record/as-built drawings, hydraulic profiles, pump records, or other documents related to the lift stations and force mains.
- 3. Access to sanitary structures for inspection. Assistance locating and opening seized/buried manholes and valve vaults/boxes as required.
- 4. If necessary, vacuum out structures that are inundated with infiltration.
- 5. We request the City operate pump station and valves and pumps during Pipers launch and assist by opening launch locations and inserting Pipers.
- 6. Provide supplemental water for continuous pumping of the lift station during the tests, if necessary.
- 7. Assistance with traffic control in high traffic areas, as necessary.

**ATTACHMENT C-1  
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**COMPENSATION AND ADDITIONAL SERVICES**

The following compensation and hourly rates shall apply as described and shall be made a part of the AGREEMENT dated the \_\_\_ day of June, 2026.

**1.0 Basic Compensation**

The basic compensation for the Professional Consultant to perform all duties and responsibilities associated with the Scope of Services as described in Attachment A-1 shall be in accordance with the following payment breakdown

- 1.1 Project Management & Preliminary Risk Assessment: The OWNER shall pay the CONSULTANT a lump sum amount of \$12,510.00 for the completion of the Project Management & Preliminary Risk Assessment. This amount includes all labor, material, overhead and profit associated with the Scope of Services.
- 1.2 Preparatory Work, Data Review & Planning: The OWNER shall pay the CONSULTANT a lump sum amount of \$20,212.00 for the completion of the Preparatory Work, Data Review & Planning. This amount includes all labor, material, overhead and profit associated with the Scope of Services.
- 1.3 Force Main Inspection: The OWNER shall pay the CONSULTANT a lump sum amount of \$26,775.00 for the completion of the Force Main Inspection. This amount includes all labor, material, overhead and profit associated with the Scope of Services.
- 1.4 Data Evaluation and Technical Memorandum: The OWNER shall pay the CONSULTANT a lump sum amount of \$20,160.00 for the completion of the Data Evaluation and Technical Memorandum. This amount includes all labor, material, overhead and profit associated with the Scope of Services.

**2.0 ADDITIONAL SERVICES BASED ON TIME**

Additional work and compensation shall be performed upon joint approval by the OWNER and CONSULTANT in the form of an Amendment.

**3.0 REPRODUCTION**

All charges for reproduction shall be included in Basic Compensation Fee of the CONSULTANT. No separate payment will be made for these expenses.

#### **4.0 MILEAGE**

All direct costs shall be included in the Basic Compensation of the CONSULTANT. No separate payment will be made for these expenses.

#### **5.0 DIRECT COSTS**

All direct costs shall be included in the Basic Compensation of the CONSULTANT. No separate payment will be made for these expenses.

#### **6.0 ADJUSTMENT CLAUSE**

The rates and costs described in this AGREEMENT shall not be revised annually, unless mutually agreed upon by both parties.

**ATTACHMENT E-1  
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**PROJECT SCHEDULE**

The following schedule shall be made a part of the AGREEMENT dated the \_\_\_\_ day of June, 2026.

**1.0 Field Reconnaissance Visit**

1.1 Will be completed following the kickoff meetings with OWNER and INGU. To be Completed within two (2) month of a signed agreement.

**2.0 Internal Inspections**

2.1 To be completed within two (2) months of a successful field reconnaissance visit.

**3.0 Technical Memorandum**

3.1 To be completed within two (2) months of successful Internal Inspection.