



**ERIE COUNTY WATER AUTHORITY**  
**INTEROFFICE MEMORANDUM**

October 22, 2018

To: Terrence D. McCracken, Secretary to the Authority  
From: Leonard F. Kowalski, Senior Distribution Engineer *LFK*  
Subject: Contract OBG-12  
OBG-12A Sturgeon Point and Van de Water Improvements Project  
ECWA Project No. 201500169

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Attached is Amendment No. 3 to the Professional Services Contract with O'Brien & Gere Engineers, Inc. for additional engineering services for the above referenced project.

The construction modifications that were implemented under the OBG-12A, H&K Services, Inc. contract that were required to complete the contract due to unforeseen conditions encountered during construction and due to delays caused by the repair work on the 42-inch transmission main at Sturgeon Point caused additional time and effort on behalf of the consultant to complete the project. The sequence of work originally outlined in the contract had to be modified to allow the contractor to perform other work while the construction schedule was constantly modified to accommodate the Authority's construction activities associated with the 42-inch transmission main repair work.

The delays and required modifications in the project caused an increase in effort for General Services, Estimated Resident Inspection and increased effort in As-Built drawing development.

The following documents are attached:

- Blue Authorization Form - this form provides the project name and project number, the action that is being requested of the Board, and it provides a list of approvals that are required prior to being acted on by the Board.
- Three copies of the Amendment signed by the Executive Engineer.

LFK:jmf  
Attachments  
cc: R.Stoll (w/attachments)  
CONT-OBG-012-1501-I-011

ERIE COUNTY WATER AUTHORITY  
 PROFESSIONAL SERVICES CONTRACT  
 AMENDMENT No. 3

Project No. 201500169 Contract No. OBG-012  
 Job No. \_\_\_\_\_ EC No. \_\_\_\_\_  
 OWIP No. \_\_\_\_\_ Entered by/Date lfk 10/22/2018  
 Title: OBG-012-A Sturgeon point and Van de Water Improvements Project  
 Consultant: O'Brien & Gere Engineers, Inc.

Description of Change to Contract:  
Modify Scope of Services to include work added to contract due to unforeseen conditions that came up during construction and schedule delays.

Reason for Change:

The construction modifications that were implemented under the OBG-12A, H&K Services, Inc. contract that were required to complete the contract due to unforeseen conditions encountered during construction and due to delays caused by the repair work on the 42-inch transmission main at Sturgeon Point caused additional time and effort on behalf of the consultant to complete the project. The sequence of work originally outlined in the contract had to be modified to allow the contractor to perform other work while the construction schedule was constantly modified to accommodate the Authority's construction activities associated with the 42-inch transmission main repair work.

The delays and required modifications in the project caused an increase in effort for General Services, Estimated Resident Inspection and increased effort in As-Built drawing development. Revise the engineering fees as follows:

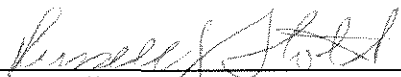
General Services – 12A – increase by \$24,700.00  
Record Drawings – 12A – increase by \$2,000  
Estimated Resident Inspection – 12A – Increase by \$7,300.00

**APPROVED BY:**

O'BRIEN & GERE ENGINEERS, INC.

ERIE COUNTY WATER AUTHORITY

\_\_\_\_\_  
 Terrance P. Madden, PE. Date  
 Senior Vice President

 10/22/18  
 \_\_\_\_\_  
 Russell J. Stoll, P.E. Date  
 Executive Engineer

Original Contract Amount- \$669,600.00  
 Amendment #1 \$32,700.00  
 Amendment #2 \$68,800.00  
 Amendment #3 \$34,000.00  
 TOTAL \$805,100.00

\_\_\_\_\_  
 Jerome D. Schad, ESQ. Date  
 Chairman

## PROFESSIONAL SERVICES CONTRACT

AGREEMENT made this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, by and between

**ERIE COUNTY WATER AUTHORITY**  
295 Main Street, Room 350  
Buffalo, New York 14203

hereinafter referred to as the "Authority", and

**O'BRIEN & GERE ENGINEERS, INC.**  
333 West Washington Street  
Syracuse, New York 13221

hereinafter referred to as "Consultant".

**WHEREAS**, the Authority desires to contract with the Consultant to render professional services upon the terms and for the consideration hereinafter stated;

**WHEREAS**, the Consultant represents that it is properly qualified to render such services, and

**WHEREAS**, the parties desire to set forth herein the terms and conditions under which the said professional services will be furnished,

**NOW, THEREFORE**, in consideration of mutual promises herein set forth, the parties agree as follows:

**1. QUALIFICATIONS OF CONSULTANT:**

The Consultant shall perform its services under this agreement in a skillful and competent manner in accordance with the prevailing standards of the consulting profession. The Consultant will be responsible to the Authority for errors or omissions in the performance of its services and failure to perform thereof.

**2. SCOPE OF SERVICES:**

**A. PROJECT DESCRIPTION:**

This project consists of the engineering services for the design and construction of the following improvements at the Sturgeon Point and Van de Water Treatment Plants. The work will be completed through the following two construction contracts.

Contract OBG-12A will consist of the following.

1. Sturgeon Point coagulation basins.
  - a. Replacement of basin drain valves and sludge discharge valves.
  - b. Installation of slide strips on the sludge collection systems and replacement of baffle curtain walls.

- c. Repair concrete in cross collector troughs
- 2. Sturgeon Point filter piping.
  - a. Replacement of the filtered water piping, valves, and rate controllers.
  - b. Replacement of the filter to waste piping and valves.
  - c. Replacement of the washwater piping from the filter to and including the valve on the washwater header.
  - d. Replacement of the surface wash piping from the filter to and including the valve on the surface wash header.
- 3. Chemical feed systems.
  - a. Replace two fluosilicic acid storage tanks at Sturgeon Point including improvements to the tank fill piping, fluoride room floor, lighting, and HVAC.
  - b. Replace one fluosilicic acid storage tank at Van de Water.
  - c. Demolition of the alum storage tanks and caustic storage tank at Sturgeon Point. The tanks will not be replaced.
  - d. Replace two potassium permanganate storage tanks at Sturgeon Point.
- 4. Plant water system.
  - a. Installation of backflow prevention devices for cross connection compliance.
  - b. Reconfiguration of the plant water and potable water piping as required to provide adequate separation of the two systems..

Contract OBG-12B will consist of shoreline erosion control at the outfall structure at Sturgeon Point.

**B. ENGINEERING SERVICES:**

Consultant shall provide all engineering services necessary to design and install the improvements described in Section A, including, but not limited to, the following:

- 1. **Engineering Report**  
Prepare an engineering report which summarizes the following.
  - a. Review plans, specifications, and other records furnished by the Authority.
  - b. Verify site conditions.
  - c. Evaluation of alternatives for shoreline erosion control, and materials of construction for the coagulation basin baffle walls and chemical storage tanks.
  - d. Permitting and approval requirements.
  - e. Preliminary design of the recommended improvements.
  - f. Construction sequence for maintenance of plant operations.
  - g. Project cost estimates.
  - h. Project schedule.

2. **Design**

Upon authorization from the Authority, the Consultant shall complete the following services.

- a. Obtain field topographic survey data for the preparation construction plans required for final design of the project. Survey data is to be according to NAD83 and NGVD29 standards.
- b. Prepare detailed design drawings, specifications and contract documents. Tasks include, but are not limited to:
  - 1) Conferences with the Authority, agencies, etc.
  - 2) Review of available drawings and records furnished by the Authority.
  - 3) Preparation of base drawings in AutoCAD version 2014 from the survey data obtained in the survey phase and the available records furnished by the Authority.
  - 4) Preparation of engineering calculations to support the design of the improvements, including related civil, mechanical, electrical, structural, and architectural features of the project.
  - 5) Submission of the plans to various utility companies and agencies as required.
  - 6) Preparation of final plans, profiles, and job specific detail drawings that include editing of the Authority's standard detail drawings where appropriate.
  - 7) Preparation of contract specifications that include editing of the Authority's standard "front end" specifications and standard technical specifications where appropriate and preparation of additional technical specifications as required.
  - 8) Obtaining New York State Wage Rates and inserting them into the specifications.
  - 9) Preparation of a quantity take-off and a construction cost estimate.
  - 10) Preparation of an engineering report and submission with contract specifications, drawings, application forms and fees to Erie County Health Department for approval.
  - 11) Attendance at a final design meeting with the Authority.
- c. Prepare engineering data, where necessary, with regard to regulatory permit applications as required to obtain local, state, federal and public utility approval for the initiation and construction of the work.

- d. Furnish to the Authority five (5) sets of drawings, specifications and other contract documents, for final review by the Authority and other approving agencies.
- e. Prepare documentation for compliance with New York State SEQR (Type II actions) and SWPPP.
- f. Prepare a schedule for the project utilizing the Authority's standard format. The project schedule shall be updated as needed.

3. **General Services**

Upon authorization from the Authority, the Consultant shall complete the following services.

- a. Furnish twenty (20) sets of contract drawings, final specifications, and other documents required for bidding and construction purposes for each contract.
- b. Conduct a pre-bid meeting when appropriate.
- c. Prepare and distribute addenda.
- d. Provide assistance to the Authority in securing bids, tabulating bid results, analyzing bid results, and making recommendations on the award of each construction contract.
- e. Conduct a pre-construction meeting and distribute minutes.
- f. Supply an approved contractor's schedule for construction of the project.
- g. Give consultation and advice to the Authority during construction.
- h. Prepare elementary sketches and supplementary sketches, if required, to resolve actual field conditions encountered.
- i. Interpret contract documents and resolve problems as to amount, quality, acceptability, and fitness.
- j. Review the contractor's submittals of material and/or equipment for compliance with the Consultant's design concept and take appropriate action such as but not limited to: "approved", "approved as corrected", "revise and resubmit"; or "not approved".
- k. Furnish general construction inspection as to quality and quantity of the contractor's work as the construction progresses in order to recommend partial payment.
- l. Schedule and attend progress meetings.
- m. Report to the Authority monthly on the progress of the work with a written monthly summary including daily inspector reports.
- n. Notify the Authority when a change in the work is proposed which will cause an adjustment in the contract cost. Evaluate whether the proposed change is justified and reasonable, and if necessary prepare change orders, field directives, and make recommendations for approval.

Discuss changes in the plans or procedures authorized by the Consultant with the Authority prior to implementation. Obtain approval for all change orders from the Board of Commissioners prior to implementation.

- o. 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.

4. **Resident Inspection**

Upon authorization from the Authority, the Consultant shall complete the following services.

- a. Provide technical inspection of construction by a full-time resident engineer and/or inspectors as required, who will:
  - 1) Inspect all work to determine the progress, quality, quantity and conformance of the work in accordance with contract documents.
  - 2) Prepare daily inspector reports.
  - 3) Review, verify and approve requests for monthly and final payments to contractors, based on quantities of work put in place.

5. **Record Drawings**

Upon authorization from the Authority, the Consultant shall complete the following services.

- a. Provide record drawings in AutoCAD Version 2014 of all completed work and furnish one set of mylar transparencies and all AutoCAD files on CD of these drawings to the Authority.
- b. Record Drawings and coordinates to be based on the NY State Plane Coordinate System – West Zone. Data is to be according to NAD83 and NGVD29 datums. Coordinates shall be provided in Microsoft Excel, Microsoft Access, or .dbf format. At a minimum, the coordinate file shall contain a Northing, Easting, Elevation, and Description for each feature.
- c. Submit mylar transparencies, AutoCAD files, and GPS coordinates no later than one month after final payment of the Construction Contract is recommended for approval and in accordance with Authority Standards.

**C. SPECIAL SERVICES**

The Authority may require the Consultant to provide or arrange for and assist in obtaining one or more of the following special services in carrying out the project. Because it is not possible to determine in advance the need for or the cost of such services, these are included as separate elements of cost which shall be separately negotiated. These services include:

- 1. Soils Investigations - including test borings, pavement cores, and the related analysis.

2. Detailed mill, shop and/or laboratory inspection of materials and equipment.
3. Land surveys, maps, plates, descriptions and title investigations which may be required to acquire lands, easements, and rights-of-way for the proposed facilities.
4. Additional copies of reports, contract drawings and documents.
5. Extra travel and subsistence for the Consultant and his staff beyond that normally required under ordinary circumstances, when authorized by the Authority.
6. Assistance to the Authority serving as an expert witness in litigation arising from project development or construction.
7. New York State SEQR (Type I and Unlisted Actions).
8. Air, water, and/or soil sampling, testing, and/or analysis.
9. Incorporation of equipment data, specifications, and operation and maintenance information into an asset management system.
10. Start-up services.
11. Hazardous material testing and assessment.
12. Wetlands investigations, delineation, and mitigation.
13. Arc flash, short circuit, and coordination studies, and field data collection.
14. Replacement of the Filter Washwater Pumps.

3. **PAYMENT FOR SERVICES:**

A. The Consultant agrees to accept a lump sum payment for all services to be provided herein except for Resident Inspection which shall be paid on a cost plus fixed fee basis per the schedule included in paragraph 3.D. The methods of payment are as follows.

1. **Engineering Report**

For services described under Section 2B1, Engineering Report, the Authority shall pay Consultant a lump sum which will include all expense, labor, and cost associated with this task. Payment will be made monthly based on the percentage of completion up to 70% of the total lump sum amount. After submission by the Consultant to the Authority of a draft report, 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 report is submitted to the Authority.

2. **Design**

For services described under Section 2B2, Design, the Authority shall pay Consultant a lump sum which will include all expense, labor, and cost associated with this task. Payment will be made monthly based on the percentage of completion up to 70% of the total lump sum amount. After submission by the Consultant 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.



3. **General Services**  
For services described under Section 2B3, General Services, the Authority shall pay Consultant a lump sum which will include all expense, labor and cost associated with this task. Payment will be made monthly based on the percentage of completion up to 100% of the total lump sum amount.
4. **Resident Inspection**  
For services described under Section 2B4, Resident Inspection, the Authority shall pay Consultant the direct cost of labor, times a multiplier based on the hours worked at straight time (without overtime premium) and direct non-salary expenses or subcontractor fixed hourly rates and direct non-salary expenses. Payment for Resident Inspection labor and expenses will be made monthly based on actual costs.
5. **Record Drawings**  
For services described under Section 2B5, Record Drawings, the Authority shall pay Consultant a lump sum which will include all expense, labor and cost associated with this task. Payment will be made monthly based on the percentage of completion up to 70% of the total lump sum amount. After submission by the Consultant to the Authority of draft record drawings, 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 record drawings are submitted to the Authority.

**B. SPECIAL SERVICES**

For services described under Section 2C, Special Services, the Authority shall pay Consultant an amount to be negotiated at the time such service is required.

**C. AUDIT**

The Authority reserves the right to audit the Consultant's records to verify bills submitted and representations made. For this purpose, the Consultant 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 Consultant's final bill to complete its audit. If the audit establishes an overcharge, Consultant agrees to refund the excess.

**D. ENGINEERING COST SCHEDULE**

1. Engineering Costs:	<u>OBG-12A</u>	<u>OBG-12B</u>
Engineering Report	\$50,800	\$20,500
Design	\$188,700	\$43,500
General Services	\$90,700	\$39,500
Estimated Resident Inspection	\$178,500	\$18,000
Record Drawings	\$10,200	\$4,200
Estimated Special Services	\$20,000	\$5,000
	<hr/>	<hr/>
TOTAL ENGINEERING COST	\$538,900	\$130,700

2. Other Costs:

Direct Labor Cost Multiplier	2.70
Mileage	IRS rate
Subcontractor Expenses	Cost plus 5% maximum
All Other Direct Non-Salary Costs	At Cost

4. **SUBCONTRACT AND ASSIGNMENT:** The Consultant may not subcontract or delegate any of the work, services, and/or other obligations of the Consultant without the express written consent of the Authority. The Authority and the Consultant bind themselves and their successors, administrators and assigns to the terms of this Agreement. The Consultant shall not assign, sublet or transfer its interest in the Agreement without the written consent of the Authority.
5. **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.
6. **RIGHT TO TERMINATE:** The Authority reserves the right to terminate the Consultant's services at any time, without cause, based on seven (7) days' written notice. Consultant shall not be entitled to lost profit and shall perform only such services, after notification of termination, as the Authority directs.
7. **INDEMNIFICATION:** The Consultant shall indemnify the Authority against any and all claims arising from the services performed by the Consultant herein and shall defend and hold harmless the Authority from and against all claims, suits, actions, costs, counsel fees, expenses, damages, judgments or decrees based upon or arising out of damage to property or injury to persons or other tortious conduct caused or contributed to it by the Consultant or anyone under its direction or control or on its behalf in the course of its performance under this Agreement. The Consultant further agrees to indemnify, defend and hold harmless the Authority from any and all claims in reference to the services performed by the Consultant hereunder which may infringe on a patent, copyright, trade secret or other proprietary right of any third party.
8. **CONFIDENTIAL INFORMATION:** In order to assist the Consultant in the performance of this Agreement, the Authority may provide the Consultant with confidential information including, but not limited to information relative to the services to be performed. All information received by the Consultant in any fashion and under any conditions resulting from the rendering of the services in consideration of this agreement, are considered confidential. The Consultant shall hold in confidence and not disclose to any person or any entity, any information regarding information learned during the performing of services including but not limited to information relative to the services to be performed.

The Consultant 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 Consultant shall use confidential information only in the performance of this Agreement. No other use of the confidential information whether for the consultant's benefit or for the benefit of others shall be permitted.

In no event is the Consultant authorized to disclose confidential information without the prior written approval of the Authority. Consultant may provide such information to its subconsultants 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. The terms of this paragraph shall be binding during and subsequent to the termination of this agreement.

9. **INSURANCE:** The Consultant 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 Exhibit "A". The Consultant shall provide and maintain insurance that will provide coverage for claims arising out of the negligent performance of its services. The Consultant shall provide Certificates of Insurance certifying the coverage required by this provision.
10. **COPYRIGHTS, TRADEMARKS, AND LICENSING:** All materials produced under this Agreement, whether produced by the Consultant alone or with others, and whether or not produced during regular working hours, shall be considered work made for hire and the property of the Authority. The Consultant 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 or not registered.

In performing work under this agreement, the Consultant may be granted access to the Authority's GIS data, documents, and other information. The Consultant understands and agrees that the use of such data, documentation and information shall be treated as confidential information and the Consultant shall abide by the terms and conditions of any confidentiality and copyright leasing agreements (attached as Exhibit "B").

11. **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 Consultant 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.

12. **CONFLICTS OF INTEREST:** The Consultant 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 Consultant from carrying out the terms of this Agreement or which would present a significant opportunity for the disclosure of confidential information. The Consultant 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 further liability of the Consultant, except to pay for services actually rendered.
13. **ADDITIONAL CONDITIONS:** The Consultant 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.
14. **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 agreement hereafter 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 thereby.
15. **INDEPENDENT STATUS:** Nothing contained in the Agreement shall be construed to render either the Authority or the Consultant a 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 Consultant shall remain an independent contractor responsible for its own actions. The Consultant is retained by the Authority only for the purpose and to the extent set forth in this Agreement.

The Consultant is free to choose the aggregate number of hours worked and substantially all of the scheduling of such hours as it shall see fit at its discretion within the limitations set forth hereinbefore in Paragraph 2.

Neither the Consultant 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.

In providing the services under this Agreement, the Consultant 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 Consultant agrees to furnish copies of documentation to the Authority

evidencing its compliance with such laws. The Consultant further represents and warrants that any income accruing to the Consultant and its employees from the Agreement shall be reported as such to the appropriate taxation authorities.

16. **COMPLIANCE:** The Consultant agrees that the Agreement herein shall be in compliance with and governed by the provisions of Section 2875, 2876 and 2878 of the Public Authorities Law of the State of New York. The Consultant further affirms under the penalties of perjury that there was no collusion in the proposal submitted herein to ECWA which forms the basis of the within Agreement.
17. **GRATUITIES:** The Consultant prohibits its employees from using their positions for personal financial gain, or from accepting any personal advantage from anyone under circumstance which might reasonably be interpreted as an attempt to influence the recipients in the conduct of their official duties. The Consultant 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.
18. **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.
19. **SEVERABILITY:** If any provision of this agreement shall be held invalid or unenforceable, in whole or in part, such provision shall be modified to the minimum extent necessary to make it valid and enforceable, and the validity and enforceability of all other provisions of this agreement shall not be affected thereafter.
20. **TERMINATION:** The Authority reserves the right to terminate this contract in the event it is found that the Certification filed by the Consultant 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 Consultant in accordance with the written notification terms of this contract.

**ERIE COUNTY WATER AUTHORITY**

By \_\_\_\_\_  
Earl L. Jann, Chairman

**O'BRIEN & GERE ENGINEERS, INC.**

By \_\_\_\_\_  
Terrance P. Madden, P.E., Senior Vice President

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

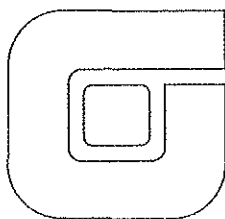
On the \_\_\_\_\_ day of \_\_\_\_\_, in the year 20\_\_\_\_, before me personally came Earl J. Jann, to me known, who, being by me duly sworn, did depose and say that he resides in Aurora, New York, that he is the Chairman of the Corporation described in the above instrument; and that he signed his name thereto by order of the Board of Directors of said Corporation.

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

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

On the \_\_\_\_\_ day of \_\_\_\_\_, in the year 20\_\_\_\_, before me personally Terrance P. Madden, to me known, who, being by me duly sworn, did depose and say that he resides in Syracuse, New York, that he is the Senior Vice President 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



September 26, 2017

**Leonard Kowalski**  
Director of Engineering  
Erie County Water Authority  
3030 Union Rd  
Buffalo, NY 14227

RE: OBG -12A, Proposal for Additional Scope Items  
FILE: 04424/ 61988/Agreement/Amendments

Dear Len:

We are pleased to provide this proposal for additional scope items for the Sturgeon Point and the Van De Water Treatment Plant Improvements Project being completed under Contract OBG-12A.

#### **SCOPE OF SERVICES**

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Since the 90% Design Review Meeting for the above referenced project, the agreed upon Scope of Work has been modified to include several changes at both Sturgeon Point WTP and Van De Water Treatment Plant. Organized by location or category of work, the following changes have been included in Scope of Work of this Contract:

#### **WENDEL RECOMMENDATIONS**

Based on Wendel's Memo dated 07/27/16, O'Brien & Gere (OBG) incorporated the following modifications into Contract OBG-12A:

- In-line Sludge Level Analyzer Demonstration Testing
- Manual Sludge Measurement Access Points
- Coagulation-Sedimentation Basin Nos. 1 and 2 Access Hatches
- Sludge Removal - Coagulation Basin Influent Channel
- Coagulation Basin Influent Channel Sluice Gates (Basin Nos. 3, 4 and 5)

#### **CHEMICAL SYSTEM MODIFICATIONS**

The following changes have been incorporated into the chemical systems at both the Sturgeon Point WTP and the Van De Water Treatment Plant.

- **Potassium Permanganate System**
  - » Replace Potassium Permanganate Pumps (including facilitating test pump)
  - » Modifications to Potassium Permanganate and Carrier Water Piping and Accessories
  - » Modifications to Containment Area Drain Line (motorized valves & trenches)



- » Control Panel Modifications during Construction Phase
- » Piping and Valve Modifications in the Filter Gallery

#### ☒ **Caustic System**

- » Caustic system control panel coordination during Construction Phase
- » Replacement of header and discharge piping for caustic pumps
- ☒ Modifications to Fluoride Containment area (trenches and drain lines)
- ☒ Interconnection to Plant Water Piping in Delivered Water Pumping Station
- ☒ Bulk Sodium Bisulfite system - Design Input to Date

#### **SEPARATION OF CONTRACT DOCUMENTS**

- ☒ At 90% Submittal Phase, OBG removed the filter piping improvements from the Contract Documents per request of the ECWA. This resulting in modifications to the Project Manual and Drawings.
- ☒ Additional investigations to determine condition and remaining life of filter system valves.

#### **CONSTRUCTION MODIFICATIONS (IN PROGRESS OR COMPLETED)**

- ☒ Chlorine Room Stair and Platform Replacement
- ☒ Modified Framing and Support Plan for MAU-1 on Control Building Roof
- ☒ Modifications to 20" Drain Lines in Coagulation Basins
- ☒ Coordination of Sludge Lagoon Cleaning
- ☒ Chlorinator Room – Ductwork & EF replacement

#### **VAN DE WATER TREATMENT PLANT**

- ☒ Sludge Mixing Tank and Sludge Bunker Improvements
- ☒ Fiber Optic Conduit Installation
- ☒ Equalization Bunker Improvements

#### **PROPOSED FEE**

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The proposed fee for design, construction, and resident inspection services to complete the additional scope items for the Sturgeon Point WTP and the Van De Water WTP is presented below for consideration.





## DESIGN SERVICES

<b>Additional Scope Item</b>	<b>Fee</b>
Wendel Recommendations	\$3,100
Separation of Contract Documents	\$9,500
<b>Total Design Services</b>	<b>\$12,600</b>

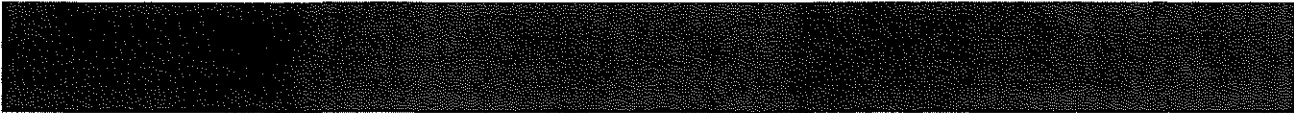
## CONSTRUCTION SERVICES

<b>Additional Scope Item</b>	<b>Fee</b>
Wendel Recommendations	\$4,900
Chemical System Modifications	\$15,900
Chlorine Room Stair and Platform Replacement	\$7,000
Modified Framing and Support Plan for MAU-1	\$2,800
20" Drain Lines in Coagulation Basins	\$1,200
Sludge Lagoon Cleaning	\$1,500
Chlorinator Room – Ductwork & EF replacement	\$300
Van De Water Treatment Plant	\$18,900
<b>Total Construction Services</b>	<b>\$46,500</b>

## RESIDENT INSPECTION SERVICES

<b>Additional Scope Item</b>	<b>Fee</b>
Chemical System Modifications	\$5,200
20" Drain Lines in Coagulation Basins	\$500
Sludge Lagoon Cleaning	\$800
Chlorinator Room – Ductwork & EF replacement	\$500
Van De Water Treatment Plant	\$2,700
<b>Total Resident Inspection Services</b>	<b>\$9,700</b>





If this proposal is acceptable to the Authority, please provide written authorization. Feel free to contact me at (585) 295-7711 or Michelle McEntire at (585) 233-1717 with any questions.

Very truly yours,  
O'BRIEN & GERE ENGINEERS, INC.



**Michael E. Manning, PE**  
Project Manager

cc: Michelle McEntire, PE – O'Brien & Gere

ERIE COUNTY WATER AUTHORITY  
PROFESSIONAL SERVICES CONTRACT  
AMENDMENT No. 1

Project No.	<u>201500169</u>	Contract No.	<u>OBG-12</u>
Job No.	<u></u>	EC No.	<u></u>
OWIP No.	<u></u>	Entered by/Date	<u>LFK 06/10/2016</u>
Title:	<u>OBG-12A Sturgeon Point and Van DeWater Improvements Project</u> <u>OBG-12B Sturgeon Point Outfall Rehabilitation</u>		

Consultant: O'Brien & Gere Engineers, Inc.

Description of Change to Contract:

Add the following to the scope of work:

Coagulation Basins - design of new blow down piping.

Potassium Permanganate - design of additional tank, new lighting, and new carrier water line.

Delivered Water Pump Station - design of new pumps for caustic system.

Chemical Systems - design of new fill station and design of new blow down system to clear plugs in filter aid piping.

Plant Water System - reconfiguration of flooring system for new RPZs.

Specifications for removal and disposal of asbestos fume hood at VanDeWater.

Reason for Change:

Coagulation Basins - new piping will be used to effectively clear plugs in the sludge withdrawal risers.

Potassium Permanganate - increased storage capacity will reduce time spent batching chemicals.

New lighting will be added to increase visibility and are more energy efficient.

Delivered Water Pump Station - the current pumps have reached the end of their useful life.

Chemical Systems - the existing fill station has reached the end of its useful life. The new blow down system will help plant staff effectively clear plugs in the filter aid piping.

Plant Water System - the floor of the selected location for the new RPZs requires modifications to accommodate the new equipment.

Fume hood contains asbestos and needs to be properly disposed of.

Compensation:

Revise the engineering fees as follows:

Design - 12A – increase by \$26,900.00

General Services - 12A – increase by \$5,800.00

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**APPROVED BY:**

O'BRIEN & GERE ENGINEERS, INC.

ERIE COUNTY WATER AUTHORITY

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Terrance P. Madden, P.E.                      Date  
Senior Vice President

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Russell J. Stoll, P.E.                      Date  
Executive Engineer

Original Contract Amount      \$669,600.00  
Amendment No.1                      \$32,700.00  
New Contract Amount                      \$702,300.00

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Earl L. Jann, Jr.                      Date  
Chairman

ERIE COUNTY WATER AUTHORITY  
PROFESSIONAL SERVICES CONTRACT  
AMENDMENT No. 2

Project No.	<u>201500169</u>	Contract No.	<u>OBG-012</u>
Job No.	<u></u>	EC No.	<u></u>
OWIP No.	<u></u>	Entered by/Date	<u>lfk 11/15/2017</u>
Title:	<u>OBG-012-A Sturgeon point and Van de Water Improvements Project</u>		

Consultant: O'Brien & Gere Engineers, Inc.

Description of Change to Contract:  
Modify Scope of Services as delineated in original contract and amendment #1 to include the Scope of Services as outlined in the attached letter dated 09/26/2017.

Reason for Change:

Wendel Recommendations -- recommendations were incorporated into the project. They included sludge analyzers, access hatches to the coagulation-sedimentation basins 1 and 2, sludge and zebra mussel removal from the coagulation basin influent channel and new coagulation basin influent channel sluice gates for basins 3, 4 and 5.

Chemical System Modifications -- several changes were requested by ECWA prior to the bidding of the project and unforeseen conditions discovered during construction had to be addressed. Coordination of pump tests and replacement of potassium permanganate pumps. Modifications to potassium permanganate carrier water piping and accessories. Modifications to chemical containment area trenches and drain lines due to existing leaks. Control panel modifications to accommodate new pumps. Piping and valve modifications to facilitate the use of either chlorine or potassium permanganate.

Separation of Contract Documents -- ECWA requested that the filter gallery piping be removed from the construction documents. Additional work was also requested to determine the condition and estimate the remaining life of the filter systems valves.

Construction Modifications -- ECWA requested additional items during construction. New concrete stairs and platform replacement at Sturgeon Point. A new support plan was developed for MAU-1 on the Control Building due to safety concerns of original location. Modifications were required on the 20" drain line operators for the coag basins. Coordination of sludge removal from lagoons at Sturgeon Point. Remove and replace asbestos ductwork and replace exhaust fan in chlorinator room at Sturgeon Point.

Van de Water Treatment Plant -- ECWA requested modifications to the sludge mixing tank and sludge bunker be incorporated into the project. This included a new tank mixer, fiber optic installation and electrical and HVAC improvements in the sludge bunker.

Revise the engineering fees as follows:

Design - 12A - increase by \$12,600.00

General Services - 12A - increase by \$46,500.00

Estimated Resident Inspection - 12A - Increase by \$9,700.00

**APPROVED BY:**

O'BRIEN & GERE ENGINEERS, INC.

ERIE COUNTY WATER AUTHORITY

Terrance P. Madden, PE. Date  
Senior Vice President

Russell J. Stoll, P.E. Date  
Executive Engineer

Original Contract Amount- \$669,600.00  
Amendment #1 \$32,700.00  
Amendment #2 \$68,800.00  
TOTAL \$771,100.00

Robert Anderson Date  
Chairman