Jones & Henry Engineers, Ltd.

Village of Hamler, Ohio

Water Treatment Plant – GAC System

ADDENDUM 1

February 13, 2026

Planholders of the Village of Hamler, Water Treatment Plant – GAC System project are hereby notified of the following amendments to the Contract Documents. This Addendum is hereby made a part of the Contract Documents.

SPECIFICATIONS

Replace C-410 – Bid Form with attached

Replace 11035 – Granular Activated Carbon Equipment with attached

Attachments: Specification C-410

Specification 11035

RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED ON PAGE C-410 - 1 OF THE BID.

BID FORM

Village of Hamler, Ohio

Water Treatment Plant - GAC System

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

Village of Hamler, Ohio

At Henry County Commissioners Office

1853 Oakwood Avenue

Napoleon, OH 43545

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER'S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

Addendum No.	**Addendum, Date**
_____	_____
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.

F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.

I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.

J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;

B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:

1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;

2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;

3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the e execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 The basis of award for the Contract will be the Base Bid Price, including Base Bid Equipment and Product Manufacturers.

A. Bid Alternate(s), Mandatory Equipment and Product Manufacturer(s), and "or equal" will be considered by the Owner, in accordance with the Contract Documents, after the award of the Contract.

5.02 Bidder shall fill in all blanks on the Bid Form.

A. The name or make of any piece of equipment or material of construction specified in the Contract Documents and identified on the following Base Bid Equipment and Product Manufacturer List shall be utilized in determining the base bid price.

B. Where two or more Equipment or Product Manufacturers are named, or the words "Or Equal" are listed in the Contract Documents and not included in the Base Bid List, Bidders may utilize any of the named or follow the "Or Equal" process outlined in the Contract Documents.

C. The Bidder shall identify their selected Equipment or Product Manufacturer on the Base Bid List as follows: **(Addendum 1, Issued 2/13/2026)**

Base Bid Equipment or Product Manufacturer List	
Specification Section	**Equipment or Product Manufacturers** Select One by Circling
11035	Calgon Carbon Corporation
11735 (Pump)	National Pump Company
11735 (Pitless Adapter)	Baker Manufacturing Company

D. The Owner will have the right to select the Equipment or Product Manufacturer in the Base Bid List if Bidder fails to make a selection where required.

5.03 Bidder shall provide pricing for the Mandatory Equipment or Product Manufacturer Alternates below.

A. Where required, Bidder shall make a selection for the "Add" or "Deduct" by circling one, indicating that the price is to be Added or Deducted from the Base Bid Price, if the Owner accepts that Equipment or Product Manufacturer Alternate. If the Bidder fails to make a selection the default will be a Deduction.

B. A Mandatory Alternate is required for each Equipment or Product Manufacturer listed.

Mandatory Alternate			
Specification Section	**Equipment or Product Manufacturers** Shall not be the same as Base Bid Provide pricing for Mandatory Alternate for all listed Equipment or Product manufacturers	**Circle One** Assumed to be a deduct unless one is circled	**Dollar Amount**
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	
		Add/Deduct	

UNIT PRICE BID

Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

Item No.	Description	Estimated Quantity	Unit	Unit Cost in Numbers		Unit Price in Words	Total Estimated Cost of Item	
1	General WTP Work	1	LS					
2	Allowances	1	LS					
Total Estimated Construction Cost:								

ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete within 600 calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within 660 calendar days after the date when the Contract Times commence to run.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

7.01 The following documents are submitted with and made a condition of this Bid:

A. List of Proposed Subcontractors

B. List of Proposed Suppliers

C. Required Bid security;

D. Evidence of authority to do business in the state of the Project; and

E. Required Bidder Qualification Statement with supporting data.

F. WSRLA Funding Documents

ARTICLE 8 – DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

_____

By:
[Signature] _____

[Printed name] _____
(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:
[Signature] _____

[Printed name] _____

_____

Title: _____

Submittal Date: _____

Address for giving notices:

_____

_____

_____

Telephone Number: _____

Fax Number: _____

Contact Name and e-mail address: _____

_____

Bidder's License No.: _____
(where applicable)

PERSONAL PROPERTY TAX AFFIDAVIT

STATE OF OHIO)

)ss.

COUNTY OF _____)

_____, being first duly sworn, deposes and says as follows: answering whichever is applicable by placing an "X" before items 1 or 2.

1. ( ) We are not charged with any delinquent personal property taxes on the general tax list of personal property in _____ County, Ohio.

2. ( ) We are charged with delinquent personal property taxes on the general tax list of _____County, Ohio including unpaid penalties and interest in the amount of $_____.

_____
Bidder

By: _____

Title: _____

Sworn and subscribed before me this _____ day of _____ 20 _____.

_____
Notary Public in and for

_____ State

My Commission Expires:

_____ 20_____

SECTION 11035
GRANULAR ACTIVATED CARBON EQUIPMENT

PART 1 GENERAL

1.01 SCOPE

A. Under this Section, the Contractor shall furnish and install two granular activated carbon vessels arranged in one adsorption system with accessories as specified herein.

1.02 SUBMITTALS

A. Submittals shall be in accordance with the requirements of Section 01300 and shall include:

1. For Review:
    a. The Contractor shall indicate all variances from the requirement of the Contract Documents.
    b. Dimensions.
    c. Manufacturer's literature.
    d. Manufacturer's installation instructions.
    e. Manufacturer's certificates.
2. Information for the Record:
    a. Equipment supplier's written report that equipment:
        1) Has been properly installed.
        2) Has been operated and that satisfactory operation has been obtained.
    b. Complete list of all component parts including:
        1) Manufacturer's name and model number.
        2) Materials of construction.
        3) Accessories.
        4) Performance data.
    c. Catalog data.
    a. Design data.

B. Operation and Maintenance Manuals.

1.03 MANUFACTURER

A. It is the specific intent of this Section to limit the equipment furnished to a product of a major process equipment manufacturer that has substantial experience and expertise in similar size granular activated carbon systems and that will assume responsibility with respect to the overall functional capability of the equipment provided.

B. All major system components shall be furnished by a single manufacturer who has adequate experience and experimental data, in the judgment of the Engineer, concerning GAC systems of the type to be furnished for this Section.

C. It is recognized the GAC equipment manufacturer may not manufacture all the equipment specified under this Section; however, to ensure a stable and complete operating system, it is required that the equipment manufacturer furnish and be responsible of all equipment, regardless of manufacturer, furnished under this Section.

D. To establish a minimum quality required, the products furnished under this Section shall be one modular Model 8 Adsorption System by Calgon Carbon Corporation . Other vessel manufacturer are acceptable provided they meet the dimensional footprint shown on the Drawings. Drawings, vessel dimensions, and piping arrangements are based on Calgon Carbon vessels. Variations to the piping arrangement are the responsibility of the Contractor and as shall be approved by the Engineer.

E. If equipment other than that of the manufacturer shown is submitted to the Engineer for consideration as an equal, it shall be the responsibility of the Bidder wishing to make the substitution to submit with the request a revised drawing of the mechanical equipment and tank layouts acceptable to the Engineer. This revised drawing shall show the proposed location of the substitute vessels. This drawing shall also show clearances of adjacent equipment and service area required by that equipment.

PART 2 PRODUCTS

2.01 GENERAL

A. Each two-vessel system shall be capable of the removal of TTHMs from filtered and ion-exchange softened water at the series flow rate of 140 gpm when loaded at 2.8 gpm/sf and empty bed contact time of 15 minutes in each vessel. Average filtered water analysis is presented as follows:

pH	8.01 su
Total hardness (as $CaCO_3$)	129 mg/L
Alkalinity (as $CaCO_3$)	208 mg/L
Turbidity	0.06 ntu
Total Organic Carbon	1.2 mg/L
TTHM	50 ug/L

B. The building structural design was based on a single adsorber operating weight of 46,000 pounds or system weight of 92,000 pounds and each adsorber supported by

four legs. Cost of building structural redesign as a result of heavier vessels shall be borne by the Contractor.

2.02 SCHEDULE OF EQUIPMENT AND MATERIALS

A. The following equipment and materials shall be included:

1. Carbon adsorbers with internals for carbon retention.
2. Influent, effluent and backwash piping with valves.
3. Carbon fill and discharge piping with valves and hoses of sufficient length to reach farthest vessel to permanent wall mounted fill and discharge sleeves.
4. Vent and pressure relief piping.
5. Water piping and utility connections.
6. Accessories described herein.
7. Sampling nozzles and accessories.

B. Granular activated carbon shall be furnished and installed by Calgon Carbon. No other manufacturers are acceptable. A cost for their work is included in Section 4.

2.03 CARBON ADSORBER VESSELS

A. Each adsorber vessel shall be fabricated of carbon steel, conforming to ASTM A516 grade 70, 8 feet-0-inch diameter by 8 feet-0-inch straight side height with 2:1 elliptical top and bottom heads. The overall equipment height shall not exceed 16-feet-6-inches. The vessels are designed, constructed and stamped in accordance with ASME Section VIII, Division 1 and registered with the National Board for a design pressure rating of 125 psig at 140 degrees F. Each vessel shall be provided with one 20-inch diameter round manway located on the lower straight side portion of the vessel and one 14-inch by 18-inch elliptical manway located on the bottom head. The vessels shall be free standing vessels with four structural steel support legs.

B. The structural aspects of the vessel shall be sufficient to meet seismic design requirements as shown on the Drawings.

C. Each vessel shall be equipped with an internal cone bottom (45-degree angle) underdrain system equipped with polypropylene or stainless-steel underdrain nozzles to provide a minimum of one nozzle for every nominal square foot of vessel cross section.

D. All surfaces will be degreased prior to sandblasting. The adsorber internal surface that will be lined shall be blasted to a white metal surface (SSPC-SP5) to provide a 3 to 4 mil anchor pattern. The exterior of the adsorber will be power tool cleaned to the degree specified by SSPC-SP3-63.

E. The interior surfaces of each vessel shall be lined with a nominal 35 to 45 mil dry film thickness (dft) using Carboline's Plasite 4110 series vinyl ester lining materials. The

interior surfaces under the internal cone bottom will also be lined with 10 to 12 mil dft using Carboline's Plasite "4000 series" vinyl ester lining materials. Plasite "4000 series" materials meet the requirements of the U. S. Federal Register, Food and Drug Regulations Title 21, Chapter 1, Paragraph 175.300.

F. The exterior surface of the adsorbers shall be painted to a dry film thickness of 5 to 7 mil with a high solids epoxy paint material using Sherwin Williams 646 Macropoxy or equal.

2.04 PROCESS AND UTILITY PIPING

A. The process and utility piping on the adsorption system shall include influent water to the system, treated water, backwash supply and discharge, adsorber vent lines and granular activated carbon fill and discharge piping.

B. The influent and effluent pipe network allows series (lead/lag) and parallel only operating modes. Lead/lag operation allows either; a) flow from the influent flange, to Adsorber A, to the pipe module, to Adsorber B, to the pipe module then to the effluent flange, or b) flow from the influent flange, to Adsorber B, to the pipe module, to Adsorber A, to the pipe module then to the effluent flange. The change in flow pattern is accomplished with a change of valve positions. The purpose of lead/lag operation allows an adsorber to act as an on-line backup and/or provides for sufficient contact time to allow adsorption of the contaminants of concern.

C. Process piping (influent, effluent and backwash) shall be 6-inch diameter, constructed of Schedule 40 carbon steel, ASTM A53 Grade B materials with 125-pound ASTM A126 Class B cast iron flanged fittings.

D. Vent piping shall be 3-inch diameter, constructed of Schedule 40 carbon steel, ASTM A53 Grade B materials.

E. Carbon fill piping shall be 3-inch diameter, constructed of Type 304 stainless steel.

F. Carbon discharge piping shall be 3-inch diameter, constructed of Type 304 stainless steel with flanged fittings.

G. Utility piping will be constructed of threaded Schedule 80 carbon steel, ASTM 53 Grade B materials.

H. All piping surfaces will be power tool cleaned and grease removed and given the manufacturer's standard coating system prior to assembly to ensure minimum oxidation at flanged connections.

I. The piping network will be provided with a structural steel support frame for support of the piping module.

2.05 PROCESS AND UTLITIY VALVES

A. The process and utility piping; excluding GAC fill and discharge piping shall be equipped with cast iron wafer type butterfly valves for flow control. A total of ten 6-inch diameter butterfly valves shall be supplied for each two-vessel system to accommodate

the process and backwash control functions. Two valves are needed for backwash control, two valves are needed for influent isolation, two valves for effluent isolation, two valves for staging of the vessels and two valves for the vent function.

B. The carbon fill and discharge valves are 3-inch diameter full port ball valves, 316 stainless steel construction with TFE seats and seals. A total of four valves are supplied for each two-vessel system, two for carbon fill and two for carbon discharge.

C. Six-inch valves shall be furnished with lever actuators. 4-inch and 3-inch valves shall be furnished with lever actuators.

D. Utility valves for the compressed air supply will be bronze or brass or barstock brass body regular port ball valves.

2.06 INSTRUMENTATION

A. Pressure relief will be provided by a 3-inch rupture disk constructed of impervious graphite and designed to relieve pressure at the MAWP of the vessel. The rupture disks will be mounted off the vessel vent line. A total of two will be provided for each system.

B. The process piping shall be equipped with pressure gauges to indicate the pressure entering and exiting each adsorber and to provide information on pressure drop across each adsorber and the system. The pressure gauges shall have 4-1/2-inch face diameter with a stainless-steel bourdon tube in a phenolic case housing (1 to 100 psig range). A total of three will be provided for each system.

2.07 MISCELLANEOUS

A. The carbon fill and discharge shall be fitted with hose connections, such that carbon transfer to and from the adsorbers can be facilitated using carbon transfer hoses. These connectors will be 4 inch Quick Disconnect Adaptors constructed of corrosion resistant materials (nylon) as manufactured by Dover Corp., Kamlock connectors or equal.

B. Two flush connections shall be provided on each GAC fill line, one upstream and one downstream of the valve. One flush connection shall be provided on each GAC discharge line, downstream of the valve. The connections shall be welded into the steel or stainless-steel pipe or screwed into solid propylene “spacers” for the lined pipe. Flush connections will consist of a short section of 3/4 inch pipe, a 3/4-inch full port ball valve and a 3/4 inch quick disconnect adaptor to match with water hose fittings.

C. Each adsorber shall be provided with three 2-inch side sample nozzles for use with in-bed water sample probes. Sample probes consist of a 12-inch stainless steel pipe with a stainless-steel slotted nozzle to collect a water sample from within the carbon bed. The sample probe will be inserted through a 2-inch flanged nozzle (flanged nozzle to assure adequate coverage of the internal lining); and will be provided with a drop line and shutoff valve external to the adsorber.

D. Provide two 4-inch transfer hoses with appropriate Kamlock connectors. Hoses shall be of sufficient length to connect the farthest contactor to the permanent wall sleeve installed near the exterior access door to the GAC room. Two hose lengths shall be 100 feet.

2.08 GRANULAR ACTIVATED CARBON

A. The granular activated carbon shall be Calgon Carbon Corporation Filtrasorb 400 (F400). No other media will be considered. Ten thousand (10,000) pounds of carbon shall be provided and installed within each adsorber vessel (20,000 pounds total per system).

B. The activated carbon shall be virgin, granular and manufactured from select grades of bituminous coal combined with suitable binders to provide a re-agglomerated granular product by a domestic (United States) manufacturing facility. The GAC shall conform to AWWA B604 standard for GAC and comply with ANSI/NSF Standard 61. The activated carbon shall be manufactured to the following specification:

Product Specification	**Value**	**Test Method**
Iodine Number (mg/g), min.	1000	TM-4, ASTM D4607
Moisture, weight %, max.	2	TM-1, ASTM D2867
Effective size, mm	0.55 – 0.75	TM-47, ASTM D2862
Uniformity coefficient, max.	1.9	TM-47, ASTM D2862
Abrasion No., min.	75	TM-9, AWWA B604
Screen Size by Weight, US Series		
On 12 mesh, max.	5%	TM-8, ASTM D2862
Through 40 mesh, max.	4%	TM-8, ASTM D2862
Typical Property	**Value**	
Apparent Density, g/cc	0.57	TM-7, ASTM D2862
Water Soluble Ash	<1%	AWWA B604
Non-Wettable	<1%	AWWA B604

C. An analysis sheet certifying compliance with the specifications and indicating point of manufacture will accompany the delivered activated carbon.

PART 3 EXECUTION

3.01 INSTALLATION

A. The GAC equipment shall be installed in accordance with the manufacturer's recommendations, Engineer's instructions, and the Contract Documents.

B. After the equipment is installed, the Contractor shall clean each vessel and pipe system and perform a hydrostatic test of the assembled system. Upon successful hydrostatic test, the Contractor shall disinfect the system by chlorination in accordance with AWWA C653.

C. The Contractor shall load the GAC following accepted trade practices and manufacturer's instructions. The Contractor shall provide ancillary equipment such as air compressor, piping and hoses required for the filling process.

3.02 INSPECTION, STARTUP, AND TRAINING

A. The Contractor shall furnish the services of a manufacturer's factory service person for final inspection, GAC loading assistance and startup of all equipment furnished by the manufacturer and to instruct Owner and Contractor personnel in proper operation and maintenance procedures. A minimum of two trips, for a total of six, eight-hour workdays shall be required.

B. Inspection, startup, and training services shall consist of an equipment check, startup, and training of operating personnel. The Contractor shall ensure that all equipment is in operating condition and ready for service.

C. Within two weeks of start-up, the manufacturer shall submit to the Engineer a written report (minimum 4 copies) covering the representative's inspection and start-up of the equipment. This report shall include the manufacturer's certification that the installation is correct and that the equipment is operating satisfactorily.

D. After the installation and operation of the equipment has been certified, the manufacturer's representative shall train the Owner's personnel for one, eight-hour day in the proper operation and maintenance of the equipment. The Owner may videotape the training.

PART 4 SPECIAL PROVISIONS

4.01 GAC MEDIA PRICING

A. Calgon Carbon will furnish and deliver to the job site the F400 media. Other items included with the media shall include the shop drawings, installation information, unloading of media, supervision and items required in 2.08.

B. The Contractor shall include in the bid a price **$51,600** for the GAC F400 media. **(Addendum 1, issued 2/13/2026)**

4.02 INITIAL FILLING OF GAC VESSELS

A. It is expected the first 100,000 gallons of flow through the new GAC media in each vessel will be filtered to waste. Filter to waste can be achieved via the backwash pump and piping or a temporary 4-inch hose to be discharged to the backwash catch basin. The initial flow will need to be completed in stages to allow the WTP clearwells to fill and supply the flow to the vessels.

4.03 BULK UNLOADING OF GAC

A. The GAC supplier will provide means for pressuring the delivery truck via an air compressor supplied with the trailer. A 2-inch hose thread will be installed at the GAC

building for use by delivery personnel. Any variations required by the tank manufacturer shall be identified prior to Bidding. Cost for delivery and unloading of initial GAC loads are included in this Section.

END OF SECTION