CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
OFFICE OF ENGINEERING AND CONSTRUCTION

ADDENDUM NO. 4

March 31, 2026

FOR DRAWINGS, SPECIFICATIONS, PROPOSAL, CONTRACT AND BOND

FOR SANITARY CONTRACT NO. 949RR - STONY RUN WASTEWATER PUMPING STATION UPGRADES AND BROOKLYN WASTEWATER PUMPING STATION VACUUM PRIMING SYSTEM MODIFICATIONS

FOR THE MAYOR AND CITY COUNCIL OF BALTIMORE

TO BIDDERS: PLEASE ATTACH TO YOUR CONTRACT DOCUMENTS. THIS ADDENDUM IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS ON WHICH THE CONTRACT WILL BE BASED, AND IS ISSUED TO MODIFY, EXPLAIN AND/OR CORRECT THE ORIGINAL DRAWINGS AND SPECIFICATIONS. PLEASE ACKNOWLEDGE THIS ADDENDUM ON THE BID PROPOSAL PAGE WHERE INDICATED. IF THIS DOCUMENT HAS BEEN RECEIVED VIA EMAIL, A CONFIRMATION EMAIL REPLY MUST BE SENT BY BIDDER WITHIN 24 HOURS CONFIRMING RECEIPT OF THE ADDENDUM TO DPWCONTRACTADMIN@BALTIMORECITY.GOV. IF EMAIL ACKNOWLEDGMENT IS NOT RECEIVED BY DPW, YOUR BID MAY BE REJECTED.

DATE CHANGES: Change bid due date from April 15, 2026 to May 6, 2026.

APPROVED:

TIMOTHY W. WOLFE, PE, BCEE
CHIEF
OFFICE OF ENGINEERING AND CONSTRUCTION

MATTHEW GARBARK
DIRECTOR
DEPARTMENT OF PUBLIC WORKS

I – REVISIONS TO THE CONTRACT BOOK

00 02 00 NOTICE OF LETTING

DELETE the existing Section 00 02 00 Notice of Letting and **REPLACE** with the attached Section 00 02 00 Notice of Letting.

44 31 00 ODOR TREATMENT EQUIPMENT

DELETE paragraph 2.9.D in Section 44 31 00.

II – REVISIONS TO THE CONTRACT DRAWINGS

No Contract Drawing revisions included in Addendum No. 4.

III – QUESTIONS FROM BIDDERS – RESPONSE IN BOLD

1. The spec section 44 31 00 for the odor control system calls for "spare carbon" under spare parts listed in 2.9 Spare Parts. Does this mean a complete fill of replacement carbon? This would require adequate storage space on site and significant extra cost to include. The replacement carbon should be readily available when replacement is required so we don't feel this is necessary to include. Can this requirement be deleted, or at least clarified so it is clear how much spare carbon is to be included?
    a. **This requirement is being removed. See this addendum.**

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
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NOTICE OF LETTING

Sealed Bids or Proposals, in duplicate addressed to the Board of Estimates of the Mayor and City Council of Baltimore and marked for **SANITARY CONTRACT NO. 949RR-Stony Run Wastewater Water Pumping Station Upgrade and Brooklyn Wastewater Pumping Station Vacuum Priming System Modifications** will be received at the Office of the Comptroller, Room 204 City Hall, Baltimore, Maryland until 11:00 A.M. on **May 6, 2026.** Positively no bids will be received after 11:00 A.M. Bids will be publicly opened by the Board of Estimates in Room 215, City Hall at Noon. The Contract Documents may be examined, without charge, at 4 South Frederick Street, Baltimore, Maryland 21202 on the 3rd Floor (410) 396-4041 as of **February 20, 2026** and copies may be purchased for a non-refundable cost of **$118.00. Conditions and requirements of the Bid are found in the bid package.** All contractors bidding on this Contract must first be prequalified by the City of Baltimore Contractors Qualification Committee. Interested parties should call (410) 396-6883 or contact OBC at 4 S Frederick Street, Baltimore, MD 21202 on the 4th floor. **If a bid is submitted by a joint venture ("JV"), then in that event, the document that established the JV shall be submitted with the bid for verification purposes.** The Prequalification Category required for bidding on this project is **E13003 Water and/or Sewer Treatment Plants and Pumping Stations.** Cost Qualification Range for this work shall be **$10,000,000.01** to **$15,000,000.**

To purchase a bid book, please make an electronic request at: **https://publicworks.baltimorecity.gov/dpw-construction-projects-notice-letting** For further inquiries about purchasing bid documents, please contact the assigned Contract Administrator Latonia Walston: LWalston@baltimorecity.gov

****PLEASE EMAIL THE CONTRACT ADMINISTRATOR TO SCHEDULE A TIME TO PURCHASE/EXAMINE BID DOCUMENTS****

A "Pre-Bidding Information" session will be conducted virtually via Microsoft Teams. Vendor can call 1-571-360-4685 (audio only), conference ID: 336 187 14# or Microsoft Teams Meeting ID 274 961 014 562 80, passcode d8yW3ZC7 **on March 9, 2026 at 10:00 AM**. A Pre-Bid site visit will be conducted on **March 11, 2026 at 10:00 AM and April 3, 2026 at 10:30 AM. All questions from bidders must be submitted in writing to the Project Manager, Antonio Johnson, Antonioc.johnson@baltimorecity.gov by April 14, 2026, at 5:00 PM.**

Principal Items of work for this project are:

- Provision of new pumping units
- Replacement of existing grinders, valves, and gates
- Station bypass
- Replacement and upgrade of HVAC equipment
- Replacement of electrical equipment
- Upgrades to the process controls
- Automation of the station
- Reconfiguration of the suction and discharge piping
- Miscellaneous work as shown on the Contract Documents

The MBE/DBE goal is **12%** The WBE goal is **4%**

APPROVED:

Clerk
Board of Estimates
City Hall

APPROVED:

Timothy W. Wolfe
Chief
Office of Engineering and Construction

W. Michael Mullen
Chief Solicitor
City Hall

Matthew W. Garbark
Director
Department of Public Works

Christopher R. Lundy, Esq.
Minority and Women's Business
Opportunity Office

ADDITIONAL BIDDING INFORMATION/ REQUIREMENTS AND CONDITIONS

1. Representatives from the Board of Estimates will be stationed at the Security Unit Counter just inside the Holliday Street entrance of City Hall from 10:45 a.m. to 11:00 a.m. every Wednesday to receive Bids.

2. **Bid Guarantee**: A certified check of the bidder or a bank cashier's check or a bank treasurer's check drawn on a solvent clearing house bank, made payable to the Director of Finance or a bid bond executed on the form as provided in the Bid or Proposal for an amount which is not less than that determined by multiplying the Total Bid submitted by two per cent (2%) will be required with each bid over $100,000.00. If the bid is less than or equal to $100,000.00 no Bid Bond is required.

3. Bidders interested in utilizing the **City's Self-Insurance Program** for payment and performance security for contracts not exceeding $100,000.00 may contact the Department of Finance, the Program Administrator, for eligibility requirements and premium costs.

4. **The Board of Estimates reserves the right to reject any and all Bids and/or waive technical defects, if in its judgment, the interest of the Mayor and City Council of Baltimore may so require.**

5. This contract is subject to a **Performance Evaluation** by the Department of Public Works.

6. **Attention of Bidders is called to all of the requirements outlined in the Baltimore City Code, Article 5 §29.**

7. **AS-BUILT RECORD DRAWINGS**

   As-built record drawings available in pdf format:

   SC 839RR LOWER STONY RUN INTERCEPTOR, February 2006. 63 sheets.

   SC 847 LOWER STONY RUN WASTEWATER PUMPING STATION AND FORCEMAIN, June 2006. 87 sheets.

   SC 948 BROOKLYN WASTEWATER PUMPING STATION REHABILITATION AND THIOGUARD CHEMICAL FEED FACILITY AT BALTIMORE STREET, November 2017, 82 sheets.

SECTION 44 31 00
ODOR TREATMENT EQUIPMENT

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Carbon Adsorber Vessel and Associated Hardware

B. Activated Carbon Media

C. Manufacturer's Services

1.2 RELATED SECTIONS

1.3 DEFINITIONS

A. FRP: Fiber reinforced plastic

B. PE: Polyethylene

C. PPL: Polypropylene

D. PVC Polyvinyl chloride

E. CPVC Chlorinated polyvinyl chloride

F. H_2S: Hydrogen sulfide gas

G. ppm: Parts per million by volume

H. NEMA National Electrical Manufacturer's Association

I. NFPA-70 The National Electrical Code

J. UL Underwriter's Laboratory

K. ASTM American Society for Testing and Materials

L. NBS National Bureau of Standards

M. IEC International Electrotechnical Commission

N. AMCA Air Movement and Control Association

1.4 SYSTEM DESCRIPTION

A. The Contractor shall furnish and install the odor control systems described herein. Each system includes the following:

1. Radial Carbon Reactor Vessel

2. Activated Carbon

3. Fan and Motor Assembly

4. Interconnecting FRP Ductwork (if required)

5. Manual Flow Control Damper

6. Pressure Differential Indicator

7. Selected Optional System Accessories

8. Manufacturer's Services

B. Unit Responsibility: The vessel, fan, and carbon function as a system and shall be the end products of Continental Carbon Group to achieve single source warranty and process performance responsibility as well as to achieve standardization for appearance, operation, maintenance, spare parts, and manufacturer's services.

C. There will be (1) adsorber systems required, as delineated below:

System ID / Name	Quantity	Air Flow required - maximum (cubic feet per minute)	Fan Horsepower required	Static pressure required for Duct Losses (including losses before and after odor control system) – max, inches WC	Static pressure required for Odor Control System Losses: includes vessel, GF/ME and raincap if supplied - max, inches W.C.
O-310	1	5,000	6.884	1.5	4.5

D. Electrical work associated with the installation and wiring of fans shall be performed by others (unless system is supplied as a skid-mounted unit).

1.5 MANUFACTURER'S QUALIFICATIONS

A. Design Basis: Equipment indicated on the drawings is based on Continental Carbon Group's "TITAN" carbon adsorption system. The Contractor shall be responsible for determining any changes to mechanical, civil and electrical design necessitated by the use of an alternate system. Any design changes shall be the Contractor's responsibility and all design and construction costs associated with any design changes necessitated shall be borne by the Contractor. All design changes shall be subject to review and approval by the Engineer.

B. Substitutions: Any substitutions or deviations in equipment or arrangement from that shown on the drawings or specified Manufacturer herein shall be the responsibility of the Manufacturer or Contractor. Any deviations must be accompanied by detailed structural, mechanical, and electrical drawings and data for review by the Engineer. All costs associated with review of substitutions or deviations and costs associated with project drawing changes as a result of approval of such shall be borne by the Manufacturer or Contractor. There shall be no additional costs to the Owner due to substitutions or deviations.

1.6 SUBMITTALS AND O&M'S

A. Manufacturer's standard submittal format shall be acceptable for the Odor Control System contingent upon the inclusion of the specified content below.

B. The following submittal are required:

1. Documentation to demonstrate that the reaction system is the standard product of the supplier.

2. Shop drawings and/or catalog cuts of supplied items.

3. Installation Instructions

4. Operation and Maintenance Instructions

5. Certified Fan Drawings

PART 2 - PRODUCTS

2.1 GENERAL

A. The Contract Documents indicate specific *required* features of the equipment, but do not purport to cover *all* details of design and construction.

2.2 CARBON REACTOR VESSEL(S)

A. The reactor vessel shall be a TITAN, Model T80-5000, as supplied by Continental Carbon Group or approved equal.

B. The reactor vessel shall be manufactured of vinyl-ester, fire-retardant epoxy resin (AOC K022 or equivalent).

C. The reactor vessel shall be designed such that odorous air enters through the outside surface of the annular carbon bed (via an air inlet in the vessel sidewall), is processed through the carbon bed, and exits through the center top outlet.

D. The reactor vessel must be designed such that personnel entry into the reactor vessel for the purposes of loading, leveling, and unloading the activated carbon media is not required.

E. The reactor vessel to have been designed based upon computational fluid dynamics (CFD) to determine optimal utilization of the carbon bed.

F. CARBON SUPPORT SYSTEM: The support system for the annular carbon bed shall be as designed by the reactor vessel designer. The system shall consist of structural components and media retaining screens. All components of this system shall be constructed of VE-FRP and PP.

G. STANDARD REACTOR VESSEL APPURTENANCES:

1. The following appurtenances shall be provided with the vessel:

a. Drain Piping Assembly, with ball valve, PVC construction.

b. Lifting and Hold Down Lugs.
c. All piping shall be Schedule 80.
d. Grounding Device

2.3 ACTIVATED CARBON

A. TYPE: Product shall be Continental Carbon Group **CC-HC30** pelletized activated carbon, or equal, as supplied by Continental Carbon Group.

B. Sufficient activated carbon shall be provided to fill the reactor vessel to the height of the vessel. The activated carbon shall be suitable for the vapor phase adsorption of sewage treatment odors. The activated carbon shall have the following specifications:

1.	Hardness No.	95 min
2.	Mean Pellet Diameter, mm	4 min
3.	H2S Breakthrough Capacity, g H2S removed/cc Carbon[1]	0.30 min

[1] The determination of H2S breakthrough capacity will be made by passing a moist (85% R.H.) air stream containing 1% H2S at a rate of 1,450 cc/min. through a 1 inch diameter by 9 inch deep bed of uniformly packed activated carbon and monitored to 50 ppm breakthrough. Results are expressed in grams H2S removed per cc of carbon. Test shall be performed per ASTM Test method D-6646, without modification or addition.

2.4 FAN AND MOTOR ASSEMBLY

A. The fan shall be a centrifugal industrial FRP fan that is AMCA certified and licensed to bear the AMCA seal. All parts of the fan that are exposed to the airstream shall be encapsulated in FRP to insure corrosion resistance.

1. The fan shall be equipped with the following features and accessories:

a. Flanged outlet
b. Graphite Impregnated
c. Stainless Steel fan shaft with FRP Sleeve
d. Drain with plug
e. Shaft seal, Viton
f. Inspection port
g. Safety belt guards
h. Lifting eyes
i. Epoxy-coated heavy-gauge all-welded steel base
j. Constant-speed V-belt drive
k. Vibration Isolation

B. **MOTOR:** The fan motor shall be a TEXP (totally enclosed explosion proof) unit, with a 1.0 service factor, with the following ratings: 3 phase / 60 Hertz / 230-460 Volt.

2.5 INTERCONNECTING FRP DUCTWORK

A. Ductwork, if required, between the reactor vessel and the exhaust fan shall be provided by the odor control manufacturer. Ductwork assembly and design shall be compatible with the fan and vessel. Ductwork shall be of VE-FRP construction.

B. An expansion joint shall be included in the ductwork and installed at the outlet of the exhaust fan. The expansion joint shall dampen axial, lateral, and vibrational duct movement. The expansion joint shall be resistant to ultraviolet degradation and to the corrosive gases being processed. The expansion joint shall be of a flanged design with stainless steel backer bars fastened to the ductwork.

2.6 FLOW CONTROL DAMPER

A. A manually operated damper shall be supplied to regulate airflow through the reactor vessel. The damper shall be supplied loose and be ready for installation into the reactor system supply ductwork. The damper shall be positioned on the inlet side of the fan, if possible (3) pipe diameters upstream, when assembled. The damper shall be furnished by the manufacturer of the odor control system.

2.7 DIFFERENTIAL PRESSURE INDICATOR:

A. Each reactor vessel shall include a magnehelic gauge sufficient to give a direct read-out of differential pressure in inches water column across the inlet and outlet air nozzles. The magnehelic shall be a Dwyer Series 2000 or equal.

2.8 SYSTEM OPTIONS:

A. GREASE FILTER/MIST ELIMINATOR: A grease filter/mist eliminator (GF/ME) shall be supplied. This unit shall consist of a woven 304 stainless steel pad for grease and particulate filtration in front of a woven PPL pad with 304 stainless steel grid for mist elimination, housed inside a VE-FRP enclosure. The pads shall be removable for cleaning and the housing shall have a cover, to allow removal and replacement of the filter pads. A Dwyer Series 2000 Magnehelic differential pressure gauge shall be provided to indicate pressure drop through the unit. The GF/ME unit shall ship loose and be ready for installation into the reactor system supply ductwork. (CAUTION! The filter's connection dimensions may not be the same as the system's fan inlet connection. The GF/ME is not self-supporting.)

B. SOUND ATTENUATION PACKAGE: The system shall be provided with a sound attenuation package. This package shall consist of a corrosion resistant acoustical enclosure placed over the fan assembly. This enclosure shall have access to allow for operator maintenance of the fan assembly. All access areas shall be equipped with heavy duty hardware and with seals to minimize noise leakage. Flashing shall be provided to enclose the penetrations in the enclosure for the fan inlet and outlet ducting. On skid mounted systems, inlet spool piece provided to penetrate the enclosure. The enclosure shall be fitted with a louvered vent(s) for heat dissipation/ventilation.

C. FAN CONTROL PANEL - Hazardous Location:

1. A NEMA Type 7 & 9 bolted enclosure Combination Motor Starter shall be provided to operate the fan.

2. The panel shall include a circuit breaker disconnect, motor starter equipped with a solid-state overload relay assembly, start and stop pushbuttons, and a white "ON" transformer type pilot light.

3. Pushbuttons and pilot light shall be door and/or flange mounted and be NEMA Type 7 & 9.

4. Combination starter shall be as manufactured by Allen-Bradley, Schneider, or equal.

D. RAINCAP: VE-FRP raincap to be provided with PP birdscreen.

2.9 SPARE PARTS

A. Fan belts

B. Fan bearings

C. Spare grease/mist filter pad

PART 3 - EXECUTION

3.1 MANUFACTURER'S SERVICES

A. A manufacturer's trained specialist, experienced in the installation of odor control systems, shall be present at the jobsite and / or classroom designated by the Owner / Contractor for two (2) man-days on one (1) trip to the job site for the following services:

1. Inspection of the installed equipment

2. Supervision of carbon loading

3. Start-up assistance

4. Trouble shooting

5. Operator training

3.2 QUALITY ASSURANCE

A. The engineer may provide and direct inspectors to inspect the equipment at the place of manufacture or upon arrival at the job site. The manufacturer shall furnish all reasonable assistance, if required by the engineer or inspector, for the proper inspection of the work. Inspection shall not relieve the manufacturer from any obligation to perform the work strictly in accordance with this specification. Work not so performed shall be replaced by the manufacturer at his own expense.

END OF SECTION