

111095

TO: Board of Acquisition and Contract

FROM: Hugh J. Greechan, Jr., PE
Commissioner of Public Works and Transportation

DATE: May 8, 2025

SUBJECT: Authority to Enter into Agreement No. 25-913
In the matter of Engineering Services in connection with Alternate Water Supply and Kensico-Bronx Pipeline Improvements, County Water District #1, Westchester County, New York

Consultant: Hazen and Sawyer / Sayin Engineers, P.C., Joint Venture (MBE)
Agreement Amount: \$15,498,578.00

Subconsultant Approval: Environmental Design and Research, Landscape Architecture,
Engineering and Environmental Services, D.P.C. (WBE)
Adelaide Environmental Health, LLC (WBE)
CorrTech, Inc. (WBE)
Lane Appraisals, Inc.
Terry Bergendorff Collins Land Surveying, PLLC (WBE)
Yu & Associates (MBE)

Authority of your Honorable Board is requested for the County of Westchester ("County") acting by and through its Department of Public Works and Transportation ("Department") to enter into Agreement No. 25-913 ("Agreement") with Hazen and Sawyer / Sayin Engineers, P.C., Joint Venture ("Consultant"), an MBE firm, 1 North Lexington Avenue, Suite 1525, White Plains, New York 10601, in connection with Alternate Water Supply and Kensico-Bronx Pipeline Improvements, County Water District #1, Westchester County, New York subject to an order from the Office of the New York State Comptroller ("OSC"), and further subject to approval by County Board of Legislators of an amended Bond Act in the amount of \$16,000,000 as described herein. The Consultant shall provide design services associated with this project. Design services shall include the preparation of construction contract documents (drawings and specifications), construction cost estimates, any required addenda, and a bid analysis including an evaluation of the bids to determine compliance with bidding requirements and whether the bidders are responsible so that the County may recommend award of the construction contracts. In addition, the Consultant shall provide design services during construction consisting of shop drawing and submittal review, attendance at project meetings, periodic site visits and preparation of as-built drawings. The County also reserves the right to amend this agreement with the Consultant at a future date to provide for construction phase services including but not limited to construction administration services and project close-out services.

The objective of the (Alternate Water Supply WD103) project is to provide for an alternate water supply connection at the southern end of the Kensico-Bronx pipeline ("KBP"). This is part of a multi-phased project that first provided for the installation of two Ultraviolet ("UV") facilities at the northern portion of the 48-inch KBP for County Water District #1. Phase I which included the installation of UV facilities at the Central Avenue Pumping Station ("CAPS") and the Orchard Street Pumping Station is complete. However, the Westchester County Health Department ("WCDOH") has identified some deficiencies in the emergency backup power system that would be addressed in a subsequent phase. Phase II includes the design for the southern connection and the facilities emergency backup system upgrade.

Westchester County Water District #1 ("WCWD#1") currently supplies water to the cities of White Plains, Yonkers, Mount Vernon, and Village of Scarsdale from the Kensico Reservoir and NYCDEP's Shaft 22 connections via the 48-inch Kensico-Bronx Pipe-line (KPB). The scope of work for this project is to provide engineering services for a new connection to NYCDEP Shaft 23 along with a new transmission main and rehabilitation and expansion of the existing Springer Avenue facility to accommodate chemical storage and feed systems. In addition, it is anticipated a new chlorination facility will be constructed along the new transmission route on property yet to be determined and acquired during the design phase.

In 2006, the Long Term 2 Surface Water Treatment ("LT2") Rule established regulations which would require public water suppliers to provide enhanced disinfection treatment of drinking water to reduce potential for contamination from microbial organisms (cryptosporidium and giardia). The southern portion of the KPB is fed from a connection to the NYC Delaware Aqueduct at Shaft 22/Crisfield Street Pumping Station in Yonkers. Since the NYCDEP UV water treatment facility in Eastview feeds the Delaware Aqueduct, the southern portion of the District is in compliance with the LT2 Rule for UV treated water. However, a major break in this pipe would result in a significant interruption to the water supply for both Yonkers and Mount Vernon. This alternative connection will provide redundancy and protect against the loss of water in the event of a break in the pipe.

The objective of the (Kensico-Bronx Pipeline Improvements WD105) project is to repair, rehabilitate and/or replace various aspects of the 48" Kensico-Bronx Pipeline (KBP) in County Water District # 1. Over the years, various issues have occurred with the 48" KBP, which is approximately 71,000 LF in length, such as breaks, joint leaks and drainage deficiencies. The drainage deficiencies have resulted in erosion of the soil under and over the pipeline. To ensure reliability and continued operation of the 48" KBP, this project was broken down into study, design and construction phases. To address this vulnerability, the County engaged the services of an engineering firm in 2010 to perform a study to investigate possible alternatives to provide a redundant supply. The study results were presented in the first report in 2012. Over the subsequent year's additional alternatives were identified and investigated with a final addendum to the original report being produced in 2022. The final recommendation from the studies was to make a redundant 36-inch diameter connection to the Delaware Aqueduct at Shaft 23 to provide an average flow of 20 mgd with a peak flow of 35 mgd. In addition, a new transmission main will be installed from Shaft 23 to a new chemical treatment facility located at Mount Vernon's existing Springer Avenue facility located in the City of Yonkers. It was also recommended to install additional isolation valves and vent hydrants along the southern section of the KBP to increase the operational resiliency (emergency water supply) for the lower KBP and its service area.

This Agreement will benefit the public as it will ensure that when NYCDEP conducts a series of shutdowns of the Delaware Aqueduct for maintenance that the southern connection portion of this project will provide an alternate water source from the KBP when the Delaware Aqueduct water supply is unavailable, thereby enhancing the health and general welfare of the residents of Westchester County.

Since the estimated fee for professional services was greater than \$250,000, in accordance with the Rules of the Professional Prequalification and Selection Boards, on May 11, 2022, a meeting of the Professional Prequalification Board was held to discuss the scope of work and request a list of qualified firms to provide the necessary services. The list was reviewed by the Professional Selection Board on February 10, 2023 whereby Arcadis of New York, Inc.; GHD Consulting Services, Inc.; Hazen and Sawyer / Savin Engineers, P.C. Joint Venture; and ARUP US, Inc. were selected to possibly perform said services. On October 24, 2024, a request for proposal ("RFP") was sent to the qualified firms and subsequently three (3) proposals were received on January 30, 2025.

After reviewing the proposals, and based on the evaluation criteria set forth in the RFP, including technical merit and net cost, the Professional Selection Board at its meeting held April 29, 2025, selected Hazen and Sawyer / Savin Engineers, P.C. Joint Venture as the number one firm to perform engineering services in connection with Alternate Water Supply and Kensico-Bronx Pipeline Improvements, County Water District #1, Westchester County, New York, for a total fee of \$15,498,578.00, pursuant to an approved budget, which represents the best possible contract for the County.

In addition, the Consultant has requested the utilization of the following subconsultants: Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C., an WBE firm, for Technical Advisor and Technical Lead/Transmission Main Lead Services, 12 Water Street, Suite 202, White Plains, New York 10601; Adelaide Environmental Health, LLC, an WBE firm, for Hazardous Material Investigation Services, 1511 Route 22, Suite C24, Brewster, New York 10509; CorrTech, Inc., an WBE firm, for Metallurgy Services, 74 Lafayette Avenue, Westbury, New York 11590; Lane Appraisals, Inc., for Land Acquisition Services, 178 Myrtle Boulevard, Suite 102, Larchmont, New York 10538; Terry Bergendorff Collins Land Surveying, PLLC, an WBE firm, for Surveying and 3D Scanning, 52 Starr Ridge Road, Brewster, New York 10509; and YU & Associates, an MBE firm, for Geotechnical Investigation Services, 5 Penn Plaza, 23rd Floor, New York, New York 10001.

The proposed has been reviewed and is judged to be responsive to the task at hand.

Your Honorable Board will note that there is currently pending before the OSC, an application for an order by the OSC pursuant to Article 5-A of the New York County Law ("Order") authorizing the issuance of bonds of the County for Alternate Water Supply WD103 and Kensico-Bronx Pipeline Improvements WD105. Therefore, your Honorable Board's authority to enter into this Agreement will be subject to an Order issued by OSC.

Your Honorable Board will further note that pursuant to Act No. 211-2024, dated October 21, 2024, the County Board of Legislators previously authorized the issuance of \$6,000,000 bonds of the County to finance the cost of design and construction management of this project, which Bond Act was subject to the aforementioned pending Order of the OSC. An Amended Bond Act will be presented to the County Board of Legislators in order to increase the amount of bonds of the County from \$6,000,000 to \$16,000,000, which Amended Bond Act will also be subject to the aforementioned pending Order of the OSC. Therefore, this Agreement is also subject to the approval of the County Board of Legislators of the Amended Bond Act.

The Department will track scheduling and accomplishments by the Consultant and perform on-site inspections to ensure the successful completion of this project.

This matter has been reviewed by the Deputy County Executive and the Commissioner of the Department of Environmental Facilities, and they are in concurrence.

I recommend adoption of the attached proposed Resolution.

HJG/VFK/LR/cg

RESOLUTION

Upon communication from the Commissioner of Public Works and Transportation, be it hereby

RESOLVED, that approval for the County of Westchester (“County”) acting by and through its Department of Public Works and Transportation (“Department”) is hereby granted to enter into Agreement No. 25-913 (“Agreement”) with Hazen and Sawyer / Savin Engineers, P.C., Joint Venture (“Consultant”), an MBE firm, 1 North Lexington Avenue, Suite 1525, White Plains, New York 10601, for engineering services associated with Alternate Water Supply and Kensico-Bronx Pipeline Improvements, County Water District #1, Westchester County, New York. The Consultant shall provide design services associated with this project. Design services shall include the preparation of construction contract documents (drawings and specifications), construction cost estimates, any required addenda, and a bid analysis including an evaluation of the bids to determine compliance with bidding requirements and whether the bidders are responsible so that the County may recommend award of the construction contracts. In addition, the Consultant shall provide design services during construction consisting of shop drawing and submittal review, attendance at project meetings, periodic site visits and preparation of as-built drawings. The County also reserves the right to amend this agreement with the Consultant at a future date to provide for construction phase services including but not limited to construction administration services and project close-out services; and be it further

RESOLVED, that for services rendered in accordance with the Consultant’s proposal, a total compensation of \$15,498,578.00, shall be provided, pursuant to an approved budget; and be it further

RESOLVED, that the use of the following subconsultants also be approved: Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services, D.P.C., an WBE firm, for Technical Advisor and Technical Lead/Transmission Main Lead Services, 12 Water Street, Suite 202, White Plains, New York 10601; Adelaide Environmental Health, LLC, an WBE firm, for Hazardous Material Investigation Services, 1511 Route 22, Suite C24, Brewster, New York 10509; CorrTech, Inc., an WBE firm, for Metallurgy Services, 74 Lafayette Avenue, Westbury, New York 11590; Lane Appraisals, Inc., for Land Acquisition Services, 178 Myrtle Boulevard, Suite 102, Larchmont, New York 10538; Terry Bergendorff Collins Land Surveying, PLLC, an WBE firm, for Surveying and 3D Scanning, 52 Starr Ridge Road, Brewster, New York 10509; and YU & Associates, an MBE firm, for Geotechnical Investigation Services, 5 Penn Plaza, 23rd Floor, New York, New York 10001; and be it further

RESOLVED, that the Agreement shall commence upon the Consultant's receipt of written notice from the Commissioner of the Department or his designee and that the completion date shall be December 31, 2030; and be it further

RESOLVED, that the County Executive or his duly authorized designee is hereby authorized and empowered to execute any and all documents necessary or appropriate to effectuate the purposes hereof; and be it

RESOLVED, that this Resolution is subject to, and conditioned upon, an order of the Office of the New York State Comptroller (“Order”) that is currently pending pursuant to an application required by Article 5-A of the New York County Law authorizing the issuance of bonds of the County for Alternate Water Supply WD103 and Kensico-Bronx Pipeline Improvements WD105 and the authority to enter into the Agreement is subject to the issuance of such Order; and be it further

RESOLVED, that this Resolution is subject to, and conditioned upon, approval by the County Board of Legislators of an Amended Bond Act in the amount of \$16,000,000 and the authority to enter into the Agreement is subject to said approval.

RESOLUTION

Agreement No. 25-913

Account to be
Charged/Credited

Fund	Dept	Major Program, Program & Phase or Unit	Object/ Sub Object	Bond Act No.	Dollars
324	60	WD103	6120-03	TED	\$13,840,727.00
324	60	WD105	6120-03	BA-212-2024	\$1,657,851.00

Budget Funding Year(s): 2025 Start Date: 5/15/2025 End Date: 12/31/2030
(must match resolution)

Funding Source: Tax Dollars: 100% County Contractor Federal I.D. No./
State Aid: _____ Social Security No.: _____
Vendor No.: _____
\$15,498,578.00 Federal Aid: _____
(must match resolution) Other: _____ Encumbrance No.: _____