


RESOLUTION 2022 - 105

**A RESOLUTION OF THE MAYOR AND COUNCIL OF THE BOROUGH OF
MOUNT ARLINGTON, COUNTY OF MORRIS, STATE OF NEW JERSEY,
AUTHORIZING EXECUTION OF A PROPOSAL FOR ENGINEERING
AND PROCUREMENT SERVICES WITH CP ENGINEERS, LLC FOR
I-BANK CLEAN WATER PROJECT 1426005-004, CP PROPOSAL
NO. 22-045, BOOSTER STATION IMPROVEMENTS**

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and Council of the Borough of Mount Arlington, County of Morris, State of New Jersey, that the Mayor is authorized to execute and submit a Proposal for Engineering and Procurement Services with CP Engineers, LLC for I-Bank Clean Water Project Number 1426005-004, CP Proposal No. 22-045, Booster Station Improvements under the New Jersey Infrastructure Bank (I-Bank) program, a copy of which is attached hereto as **Exhibit A**.

This Resolution shall take effect immediately.

I HEREBY CERTIFY this to be a true and correct Resolution of the Mayor and Borough Council of the Borough of Mount Arlington and adopted on July 5, 2022.



Matthew N. Bansch, Borough Clerk

Exhibit A



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Sparta, New Jersey 07871
Phone (973) 300-9003
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May 16, 2022

Carolyn Rinaldi
Municipal Administrator
Borough of Mt. Arlington
419 Howard Boulevard
Mt. Arlington, New Jersey 07856

Re: Proposal for Professional Engineering Services
Replacement of High-Pressure Zone Booster Station
Engineering and Procurement Services
Mt. Arlington Borough, Morris County, New Jersey

CP Proposal No. 22-045

Dear Ms. Rinaldi:

CP Engineers, LLC (CP) is pleased to provide this Proposal for professional engineering services to the Borough of Mount Arlington (Borough) for the engineering design and procurement services for the replacement of the High-Pressure Zone Booster Station. We thank you for this opportunity to submit this proposal and for allowing CP to provide our services to you.

Background

Mount Arlington Borough entered into a short-term loan agreement with the I-Bank as part of the Drinking Water Asset Management Planning Loan Program. As part of the loan terms, the Borough identified the rehabilitation of the Schmitz Terrace Water Tank an eligible capital project. The water tank is the sole storage tank for Mount Arlington's water system high-pressure zone. In order to rehabilitate the water tank, the booster station that supplies water to the high-pressure zone of the Mount Arlington Water System needs to be upgraded to be able to provide reliable water to the residents of the high-pressure zone in all operating scenarios. This includes supply during both peak and high demand usage as well as fire protection.

The booster station is located on an easement at the corner of Howard Boulevard and Kadel Drive. It was installed in the year 2003. The booster station has a small enclosure for the booster pumps, which are not rated for variable speed operation, and the electrical panels are located on the back side of a brick pier located in front of the booster station to hide it from view. The booster station has a manual connection for a use of temporary emergency generator power should power be lost.

Scope of Services

The replacement of the high-pressure zone booster pump station will consist of preparing construction documents to identify or install means to bypass water around the pump station, removal of the existing booster station, and replacing the station with a pre-packaged pump station.

The pre-packaged pump station will be sized to enclose the new booster pumps, piping, instrumentation, electrical power equipment variable speed drives and associated control and monitoring instrumentation and systems. There will also be a permanent natural gas fired emergency power generator for the station with an automatic transfer switch. In cases of a loss of power, the automatic transfer switch will activate and have the booster station power be supplied by the emergency generator. The booster station will be approximately 12 feet by 10 feet in size and be designed to appear as a small building/shed. The exterior of the station will be fabricated with a finish that is visually appealing and in coordination and input from the Borough of Mount Arlington.

Part of the replacement activities will be the removal of the brick pier that currently hides the pump station from the view of drivers and install vegetation around the pump station. In addition, an extra fire hydrant or connection point will need to be added upstream of the booster station to allow for connection and bypass around the booster station. During the replacement of the booster station, this bypass would be used to provide water to the Schmitz Terrace Water Tank. When the Schmitz Terrace Water Tank is being rehabilitated, this bypass would be used for a temporary fire pump to provide a large volume of water to the high-pressure zone for fire protection.

CP will provide the following services:

1. Conduct an on-site visual inspection of the existing high-pressure booster station
2. Contract a licensed surveyor to identify property and easement boundaries.
3. Identify and locate water, gas and electric utilities based on discussions with the utility providers.
4. Prepare an engineering bid package for the replacement of the high-pressure booster station, which includes the following:
 - a. Design for new piping bypass around Kadel booster station
 - b. Provisions for supplying water to the high-pressure zone during installation such as a temporary booster pump with backup generator
 - c. Demolition plan for the existing booster station
 - d. Installation plan and details for the new booster station.
 - e. Technical Specifications for the new booster station and all associated equipment, piping, and utilities.
5. Provide Bid Phase Services consisting of the following for each of the contracts:
 - a. Provide Advertisement to Bidders and coordinate advertisement with the Borough.
 - b. Respond to Bidder questions during the bidding period.
 - c. Prepare for, conduct, and document a Pre-Bid Meeting.
 - d. Prepare and issue addenda, as appropriate.
 - e. Analyze and tabulate the bid results.
 - f. Prepare a Summary of Bids Received and Bid Review Report and furnish a written Recommendation of Award.

6. Coordinate with the NJDEP on the creation of the project for the NJDEP I-Bank. As part of the project creation, CP will prepare the Environmental Planning Document and Social and Economically Disadvantaged (SED) aspects of the I-Bank submittals and prepare any documentation as required to satisfy the above aspects.
7. Development of estimated capital and soft costs for the design, procurement and execution of the high-pressure booster station.

Clarifications

CP is not preparing the I-Bank loan documentation as that is to be prepared by the Bond Council.

CP is assuming that a Level 1 Environmental Planning Document would be required based on discussions with the NJDEP.

This proposal does not include construction administration and inspection activities. CP will provide a separate proposal for the construction administration and inspection. CP estimates that the station replacement activities will be approximately one month in duration and that the construction administration and inspection activities will cost approximately \$35,000. This proposal will be submitted prior to the replacement project is award to a contractor.

Cost

It is proposed to conduct the work as a time and expense (T&E) project with a not to exceed amount of \$45,000. CP will bill the Borough on the basis of actual time expended and expenses incurred.

Schedule

Work will begin once the authorization from the Borough is granted. We anticipate the design work will be completed approximately seven weeks from authorization to proceed.

Authorization

CP proposes to perform these services under the terms and conditions of our current agreement. If this proposal meets with your approval, kindly indicate your acceptance by providing a resolution incorporating this proposal as reference or by signing and returning a copy of this document to our office.

Please feel free to call me with any questions or comments.



Very truly yours,

CP ENGINEERS, LLC

Handwritten signature of Matthew T. Peles in blue ink.

Matthew T. Peles, P.E.
Project Manager

Handwritten signature of Amy Breitwieser in blue ink.

Amy Breitwieser, P.E.
Vice President

Accepted this 5th day of July, 2022

By (Signature): Handwritten signature of Michael Stanzilis in blue ink.

By (Printed): Michael Stanzilis

Title: Mayor

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