

## RESOLUTION NO. 2020-104

**WHEREAS**, the Township Council of the Township of Aberdeen is in need of professional engineering services associated with the Atlantic Avenue Water Main Replacement; and

**WHEREAS**, CME Associates submitted a proposal on April 14, 2020 for aforementioned engineering services for a cost not to exceed the sum of \$251,362.00; and

**NOW, THEREFORE, BE IT RESOLVED** by the Township Council of the Township of Aberdeen that the Manager and Clerk are authorized to execute an agreement with CME Associates for a cost not to exceed the sum of \$251,362.00, in accordance with a proposal dated April 14, 2020, attached hereto and made part of this resolution.

This agreement is made without competitive bidding as a “professional service” under the provisions of the Local Public Contracts Law, N.J.S.A. 40A:11-5(1)a(I).

**BE IT FURTHER RESOLVED** the Director of Finance has certified to the Township Manager that there are available sufficient funds for the purpose of award of this contract in the Capital Budget under the following line item appropriation of said budget to which this contract will be properly charged: X-03-4-100-204.

JOHN H. ALLGAIR, PE, PP, LS (1983-2001)  
DAVID J. SAMUEL, PE, PP, CME  
JOHN J. STEFANI, PE, LS, PP, CME  
JAY B. CORNELL, PE, PP, CME  
MICHAEL J. McCLELLAND, PE, PP, CME  
GREGORY R. VALES, PE, PP, CME



TIM W. GILLEN, PE, PP, CME (1991-2019)  
BRUCE M. KOCH, PE, PP, CME  
LOUIS J. PLOSKONKA, PE, CME  
TREVOR J. TAYLOR, PE, PP, CME  
BEHRAM TURAN, PE, LSRP  
LAURA J. NEUMANN, PE, PP  
DOUGLAS ROHMEYER, PE, CFM, CME  
ROBERT J. RUSSO, PE, PP, CME  
JOHN J. HESS, PE, PP, CME

April 14, 2020

Mr. Bryan Russell  
Township Manager  
Township of Aberdeen  
One Aberdeen Square  
Aberdeen, New Jersey 07747

**Re: *Proposal for Professional Services for the  
Atlantic Avenue Water Main Replacement  
Township of Aberdeen  
Our File No. PAB00422.01***

Dear Mr. Russell

Thank you for considering our Firm for the above referenced work and allowing us to submit this proposal for Professional Services associated with the above referenced Project.

**INTRODUCTION**

In preparing the scope of services for this Project, a site visit was completed along Atlantic Avenue to familiarize ourselves with the current conditions.

Based upon meetings and discussions with Township Representatives, it is understood that the Township is considering the following improvements:

- Replace the existing 6-inch water main with a new 8-inch water main along Atlantic Avenue from the intersection with Church Street to the railroad crossing.

The proposed scope of improvements generally consists of the replacement of the existing 6-inch water main with approximately 2,620 LF of new 8-inch water main including new water service piping, associated valves and fittings, meter pits for each water service, installation of new hydrants, and connections to existing water mains. In addition, the scope of the proposed improvements includes asphalt pavement milling, adjusting castings to grade, traffic stripes and pavement markings, and the construction of hot mix asphalt surface pavement on the roadway within the Project limits once the water line has been installed, pressure tested, and disinfected. We have preliminarily estimated the construction cost for this project at **\$1,900,000.00**, which is dependent on the actual magnitude of improvements deemed necessary during the design phase. The construction cost also includes the costs for the milling and paving of Atlantic Avenue within the Project limits.



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SURVEY, BASE MAPPING, DESIGN, PERMITTING AND BID PHASE

Professional Services associated with the Atlantic Avenue Water Main Replacement will consist of the necessary topographic survey and base mapping, design, permitting, plan and specification preparation for the proposed improvements.

DESIGN PHASE SERVICES

**PHASE I - DESIGN**

TASK 1 – SURVEY AND BASE MAPPING

- Establish a balanced control survey (traverse) line with recoverable ties. Basis of the vertical control will be the North American Vertical Datum of 1988, respectively. Permanent points (Capped Rebar, PK Nails, etc.) will be set along the control line. A minimum of two vertical control points will be established along the Project limits. GPS methodology will be used to establish the vertical control. GPS methodology will be utilized to establish horizontal and vertical control unless existing published control, U.S.C.&G., is available within 1,000 feet of the Project site.
- Preparation of a Topographic Plan showing natural and manmade features, including: existing above and, where possible, underground utilities, survey baseline (traverse line), spot elevations and contours at an interval of 1.00-foot within and immediately adjacent to the Project limits only. Topographic Plan will be compiled from field locations and edits. Plan will be drafted at a scale of 1" = 30'.
- Underground utility information shall be based upon documents provided by the utility companies and the Township and those utilities that are visible at grade.
- We request that the Township provide any and all survey, design, as-built or construction drawings, in their possession, regarding the P.Q. and/or immediate adjoiners for our use.
- If required, the Township shall provide traffic protection/control for data collection.
- CME Associates represent that we are neither qualified nor do we accept the responsibility to identify and/or locate unwritten easements, subsurface improvements, underground storage facilities and/or hardware, and/or hazardous materials on or about this site.



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- Right-of-Way and property lines will be based upon the Tax Map, right of way plans and current deed information for those properties immediately adjacent to the project location and shall not include a complete search or survey of the subject properties.

#### TASK 2 - DESIGN OF IMPROVEMENTS, PLANS AND SPECIFICATIONS

With regard to the Design Phase for the Project, we anticipate meeting with representatives of the Township prior to commencing the design phase in order to review the Project schedule and other preliminary issues. We also understand that the milling and resurfacing of the roadway will not include the design of any drainage improvements or surface grading modifications to alleviate any ponding conditions as per the Township's direction.

In addition, we anticipate the design work in this phase will include the preparation of the necessary Construction Plans and Bid Documents for the specified Scope of Work and will include::

- Formulate a basis of the design based upon the existing site conditions, evaluations, and the recommendations and requirements of the Township;
- Coordinate the work associated with the water main extension with the applicable utilities;
- Perform field investigation to verify locations of existing water mains, valves, hydrants and utilities in order to develop base drawings and review proposed improvements with the Township;
- Prepare Plan and Profile drawings for the proposed water main extension;
- Prepare Construction Details for the improvements as well as pavement restoration in accordance with the Township requirements;
- Prepare Construction Details and Specifications for the improvements including asphalt pavement milling and resurfacing, adjusting castings to grade, traffic stripes and pavement markings;
- Prepare Bid Documents, including Plans and Profiles, Details, Specifications and Engineer's Estimate of construction costs.

#### PHASE I - COST PROPOSAL



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Accordingly, based upon the above outlined scope of services, we find that the necessary surveying, base map preparation, design, plan and specifications for Atlantic Avenue Water Main Improvements can be provided for the lump sum fee indicated below based upon the following breakdown:

Task 1 - Surveying and Base Mapping	\$ 19,667.00
<u>Task 2 - Design, Plans and Specifications</u>	<u>\$ 85,869.00</u>

**Phase I Subtotal \$ 105,536.00**

#### **PHASE II – PERMIT ACQUISITION**

Concerning the permit acquisition phase of the Project, we anticipate submitting complete applications for the permits outlined below, and our scope of services will include one (1) plan revision to comply with review agency comments. In addition, we will request the required application fees, and we understand the Township will provide these expenses to CME separate from this contract.

#### **TASK 1 - SOIL EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION**

We anticipate submitting the required applications for Soil Erosion and Sediment Control Plan Certification to the Freehold Soil Conservation District and Request for Authorization (RFA) for stormwater discharge associated with construction activity to the New Jersey Department of Environmental Protection as necessary, in accordance with the above Scope of Services.

#### **TASK 2 – NJDEP BUREAU OF WATER SYSTEM ENGINEERING APPROVAL**

We anticipate obtaining approval from the NJDEP Bureau of Water System Engineering for the construction permit for the proposed water system improvements.

#### **PHASE II - COST PROPOSAL**

Accordingly, based upon the above outlined Scope of Services, we find that the necessary permit application and plan preparation associated with the Soil Erosion and Sediment Control Plan Certification and the NJDEP Bureau of Water System Engineering approvals can be provided for the lump sum fee indicated below:

Task 1 – Soil Erosion & Sediment Control Plan Certification	\$ 3,444.00
<u>Task 2 – Bureau of Water System Engineering Approval</u>	<u>\$ 5,500.00</u>

**Phase II Subtotal \$ 8,974.00**



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### **PHASE III - BID PHASE SERVICES**

We anticipate that Bid Phase Services will generally include the furnishing of twenty (20) sets of plans and specifications prior to advertisement for bids; coordination with prospective bidders during the bid period; issuance of any addenda required; attendance at the bid opening, and the preparation of a report recommending award of the project.

### **PHASE III - COST PROPOSAL**

Accordingly, based upon the above outlined scope of services, we find that the necessary bid phase services can be provided for the lump sum fee indicated below:

<b>Phase III Subtotal</b>	<b><u>\$ 8,253.00</u></b>
<b>Phase I, II and III Total</b>	<b>\$ 122,763.00</b>

### **CONSTRUCTION PHASE SERVICES**

We will provide construction phase services based on our attached hourly rate schedule and the actual time necessary to provide these services since same could vary considerably depending upon the contractor awarded the Project and the final scope of work.

For budgeting purposes, we have preliminarily estimated the cost for anticipated **construction phase services at \$128,599.00**, based upon the required tasks and the anticipated contract completion time of 180 calendar days.

### **SUMMARY**

Our hourly rates shall be firm until January 1, 2021 after which they may be subject to re-negotiation. Invoices shall be paid within 30 days of presentation of same.

Our contract documents will include wording that requires the contractor to be responsible for all applicable OSHA and other regulatory agency requirements, as well as safety, construction means and methods, and the usual other requirements that are normally included in our standard specifications.

Please note that the above estimate does not include costs associated with easement and/or right of way acquisition mapping and metes and bounds descriptions for property acquisition, nor do they include bonding fees, or legal fees. In addition, the above costs do not include



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subsurface investigations.

Our proposal does not include permit fees or the preparation of permits other than those listed, nor does it include demonstration of offsite stability if required by the Freehold Soil Conservation District.

Your return of a signed copy of this proposal indicating your acceptance to the terms and conditions presented herein will represent your authorization for us to proceed.

Thank you again for permitting our Firm to submit this proposal, and we look forward to serving your municipality.

Should you have any questions regarding this matter, do not hesitate to contact this office.

Very truly yours,  
CME Associates

Michael J. McClelland, P.E., P.P., CME  
Township Engineer's Office

ACCEPTED BY: \_\_\_\_\_

THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2020

ATTESTED BY: \_\_\_\_\_

THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2020