



Sheldon A. Neeley, Mayor

CITY OF FLINT PROPOSAL NO.21000549
THIRD AVE PUMPING STATION IMPROVEMENTS

Date Posted: 10/3/2020

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THIRD AVE PUMPING STATION IMPROVEMENTS

On Tuesday, March 10, 2020, Governor Gretchen Whitmer declared a State of Emergency after two individuals were confirmed testing presumptively positive for COVID-19. On Thursday, March 12, 2020, Mayor Sheldon A. Neeley declared a local State of Emergency to exist in the City of Flint as a result of the threat of COVID-19. On Sunday, March 15, 2020, effective March 17, 2020, Mayor Neeley, based on the COVID-19 public health threat, closed City Hall to the public. Residents were asked to take precautionary measures. On March 22, 2020, Mayor Neeley asked residents to participate in a voluntary shelter in place. City Council approved the continuation of the declaration of a State of Emergency.

Based on the White House guidelines issued on March 16, 2020, and these guidelines are still in place. It is recommended that people not gather in groups larger than 10 people in order to "flatten" the curve and slow the spread of the virus. On March 24, 2020, Governor Whitmer instituted Executive Order 2020-21, a temporary requirement to suspend activities that are not necessary to sustain or protect life, prohibiting "in-person" work with exceptions for essential and critical infrastructure workers.

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Sheldon A. Neeley
Mayor

Finance Department
Division of Purchases & Supplies

Joyce A. McClane
Purchasing Manager

REQUEST FOR PROPOSALS AND QUALIFICATIONS

OWNER:

THE CITY OF FLINT
DEPARTMENT OF PURCHASES AND SUPPLIES
1101 S. SAGINAW STREET, ROOM 203
FLINT, MI, 48502

Project Name: THIRD AVE PUMPING STATION IMPROVEMENTS-- ENGINEERING SERVICES

Proposal No.: 21000549

The City of Flint is soliciting Statements of Qualifications (SOQ) from qualified consulting firms to provide consulting services in support of the City's [Third Avenue Pumping Station Improvements](#).

[This is a Qualification Based Selection \(QBS\) process. Cost or billing rates will not be included in the evaluation criteria, so the consultant should exclude any references to these in the SOQ.](#)

If your firm is interested in providing the requested services, please submit one(1) original proposal AND one (1) unbound with all requested information, EXCEPT, the total price of your proposal. Outside of the envelope, the enclosed proposal should clearly identify that the information submitted is the **PROPOSAL ONLY** – With the title of the Proposal and Proposal Number.

In a separate envelope, the **TOTAL PRICE** of the proposal that is submitted must be in a **SEALED ENVELOPE**. The outside of the enclosed **TOTAL PRICE** should clearly identify that the information submitted is the **TOTAL PRICE ONLY** – **With the title of the Proposal and Proposal Number.**

For this project, faxed bids to the Purchasing Department will not be accepted. Bidding Documents shall meet requirements set forth in the Specification. Section 00 10 20, Instructions to Bidders.

A City selection committee will review the SOQ'S received and select the consultants it feels are the most qualified to furnish professional services to the City of Flint; however, the city reserves the right to conduct interviews with a short-list of firms as necessary.

The city reserved the right to reject any and or all SOQ's and waive any informalities therein. The SOQ is prepared at the consultant's expense and becomes city property, and therefore a public record. Proposal Guarantee shall provide assurance that the bidder will, upon acceptance of the bid, execute the necessary Contract with the City. No bid may be withdrawn for one hundred twenty (120) days after scheduled closing time for receiving bids.

Proposals submitted by Bidders who have been debarred, suspended, or made ineligible by any Federal Agency will be rejected. The project is funded through the State Clean Water Revolving Loan program and requirements of the program are included in the Contract Documents.

Each bidder agrees to waive any claim it has or may have against the Owner, the Architect/Engineer, and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any bid.

The City of Flint reserves the right to reject all bids and to waive irregularities in bidding.

All additional bid documents, requirements, addendums, specifications and plans/drawings (if utilized) are available on the Purchasing page of the City of Flint's web site at <https://www.cityofflint.com/finance/purchasing/> under "open bids" and the specific bid or proposal number assigned to this notice.

Anticipated Bid Submission Schedule:

Date Released/Bid Posted to City's Website:	Monday, October 5, 2020
Bid Advertisement:	Monday, October 5, 2020
Final Date for Questions:	Wednesday, October 14, 2020 at 2:00 PM EST
Final Addendum:	Monday, October 19, 2020 by 5:00 PM EST
Bid Due Date:	Monday, November 2, 2020 by 2:00 PM EST

ELECTRONIC BIDS ARE NOT ACCEPTED
DROP OFF BIDS
(A MASK MUST BE WORN)

The dates provided above are estimated dates only and may be subject to change.

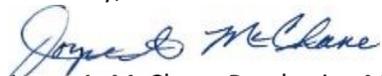
Send to: The City of Flint
Department of Purchases and Supplies
1101 S. Saginaw Street, Room 203 Flint, MI 48502

Effective immediately upon release of these Bidding Documents, and until notice of contract award, all official communications from proposers regarding the requirements of this Bid shall be directed to:

Joyce A. McClane
810-766-7340
jmcclane@cityofflint.com

The City, or designee, shall distribute all official changes, modifications, responses to questions or notices relating to the requirements of this Bid. Addendum to this Bid may be developed and shared with all Vendors. Any other information of any kind from any other source shall not be considered official, and proposers relying on other information do so at their own risk.

Sincerely,



Joyce A. McClane, Purchasing Manager

REQUEST FOR PROPOSALS AND QUALIFICATIONS FOR ENGINEERING SERVICES

THIRD AVE PUMPING STATION IMPROVEMENTS

Flint Water Pollution Control
G-4652 Beecher Road
Flint, Michigan

INSTRUCTIONS TO BIDDER- SPECIFICATION SECTION 00 10 20

INTRODUCTION

The Third Ave Pumping Station (3AvPS) is the most critical pump station in the City's system. The collection system in the downtown area of the City drains to 3AvPS where the flow is pumped to the Water Pollution Control Facility (WPCF). It is located approximately 3 miles from the WPCF.

The peak storm flows pumped from the station exceed the nominal treatment capacity of the plant. Flows above the capacity of the plant are redirected to the retention basin on the WPCF site. The station has an overflow to the Flint River which has been activated several times in the past due to power failure at 3AvPS and force main pipe failure. This results in a sanitary sewage overflow (SSO) which is prohibited under the Michigan Department of Environment, Great Lakes and Energy's regulations.

There are numerous upgrades required at the pump station, which should be done in conjunction with, or prior to, the force main work.

BUILDING ISSUES

Both buildings are in overall stable condition, but several deficient conditions were noted during inspections as part of the asset management plan and are detailed below.

The north building is of brick masonry construction with asphalt shingles on the main roof, and membrane roofing on the small flat roof at the rear of the building. Several leaks have been noted at the south edge of the main roof at the masonry chimney where the flashings have failed, this roof should be replaced. The downspouts have failed and fallen off the roof – these must be reinstalled to provide a directed path for drainage to mitigate further damage and/or erosion to the façade. Re-caulking the existing accent stone façade panels as well as repointing any brick joints that have become cracked or eroded is also recommended.

The south building is also of brick masonry construction. It has a flat roof with a ballasted built up roofing system. There were several areas where the perimeter roof flashing has become damaged or displaced, and most of the cap stone joints require repointing. There is evidence inside the building that there may be a minor roof leak. The roof should be replaced. The brick on this building is also in need of repointing at cracked and/or eroded joints.

The windows at South building have been replaced and are in good condition. Some of the windows on the North building are in poor condition. The windows on the East side and North side should be replaced with new, more energy efficient units.

ISOLATION VALVES

There is a gate valve on the 3AvPS header that controls whether the flow goes to the 72-inch or the 50-inch force main by isolating the four pumps into sets of two. Each set would then feed one or the other force main. There is no knowledge of when the valve was last operated. The valve is currently in the open position. The gate valve is on the 60-inch diameter portion of the pump station header between the second and third pumps. For operational flexibility it is important that the isolation valves at 3AvPS and the influent box are operational to allow taking either of the force mains out of service.

There are two valves required to isolate the 50-inch force main: one 48-inch valve in the basement of 3AvPS and one 48-inch valve at the influent box where the 50-inch force main manifolds with the 72-inch PCCP pipe coming from 3AvPS. These valves must be operational.

There are two valves required to isolate the 72-inch force main: A new isolation valve should be installed before the 72-inch force main is taken out of service for rehabilitation to allow operation of all four pumps during construction. This isolation valve would be between the far east pump in the 3AvPS basement and one 48-inch valve at the influent box.

LOW FLOW PUMPING DEMANDS

The 3rd Avenue Pump Station was originally constructed in 1926, and significantly revised in 1974, with larger pumps. It currently consists of four (4) 25,000 gallon per minute (gpm) pumps, each rated for 72 feet of total dynamic head (TDH), giving the station a rated firm capacity of 108 mgd. Each pump is provided with a variable speed drive. The motors are medium voltage. A separate screening building was constructed in 1974, which includes three 5-foot wide screen channels.

The dry weather flow at the pump station ranges from approximately 4 to 10 million gallons per day (mgd), and pressures within the force main during this time are approximately 8 pounds per square inch (psi). Due to their size, it is difficult to turn down the large wet weather pumps to match dry weather flows and as a result, the City of Flint is interested in installing a smaller pump that could accommodate a flow range of roughly 5 to 10 mgd during dry weather conditions.

Reductions in water use and collection system improvements eliminating inflow and infiltration (I&I) have resulted in average dry weather flow rates far below the individual pump capacities. Peak wet weather flow rates have also been reduced.

The equipment and design no longer match current or projected future operational conditions resulting in operational difficulties. During dry weather flows (90% of the time), the oversized

pumps cannot pump low enough to maintain a stable wet well level. This results in “cycling” where the pump is running but the speed is too low to generate the head needed to actually pump water to the influent box.

The City wants to improve the control and reliability of the 3AvPS by replacing one of the existing oversized pumps with a smaller one. This improvement is intended to “right size” the station for dry weather flow, while maintaining sufficient firm capacity for wet weather events.

The City is seeking an engineering firm to evaluate its 3AvPS Pumping Station to resolve the above deficiencies, and to determine the most efficient pumping scheme.

Most of the necessary drawings of the existing facilities, piping, and electrical may be obtained from the City of Flint Water Pollution Control, Wastewater Treatment Plant (WWTP) records. The City of Flint will provide the Engineering Consultant a paper copy of all existing records the Consultant determines would be useful in their work. However, the City does not warrant that the historical records are completely adequate, accurate or that they reflect the existing conditions.

Scope of Services - The Engineering Consultant shall perform the following services:

A. Design

The Consultant shall prepare Design and Construction documents consisting of Civil, Structural, Architectural, Mechanical, Electrical, and Instrumentation drawing sheets and specifications. The Construction Documents shall be developed for the purpose of bidding the construction of the facilities and acquiring a MDEQ Part 41 Construction Permit for the improvements. Upon MDEQ approval, and receipt of the Permit, the documents shall be used to competitively bid the project for construction. The Consultant shall ensure that the Construction Documents result in a complete and operational system addressing the issues described above. The design shall incorporate the following project elements:

1. “Right Sizing” of Dry Weather Pump.
2. Improvements in operational flexibility.
3. Address building issues.
4. Design safe replacement of force main isolation valves.

B. Bidding Support Services

The Consultant shall prepare appropriate bid documents, conduct a prebid meeting with potential contractors, respond to questions during the bidding process, and prepare addenda as required during the course of bidding. The Consultant shall distribute minutes and responses to questions raised at the meeting. The Consultant shall assist in the review of the bids and make a recommendation for award of the Contract.

C. Construction Services - The Consultant shall perform the following services during construction:

1. Respond to Construction Contractor Requests for Information (RFIs).
2. Attend regularly scheduled construction meetings during the course of construction. Provide the minutes of each meeting to all attendees.
3. Insure that charges and costs are consistent with the Consultant's submitted bid and project schedule.
4. Resolve field engineering issues and provide supervision during construction. The Consultant shall include in the Proposal an anticipated level of resident engineering and onsite inspections.
5. Insure that the Construction Contractor is in compliance with all EPA and EGLE requirements for a CWSRF project. Ex. Review of Davis-Bacon payroll requirements
6. Update and correct the design drawings to produce project record drawings depicting the as-built conditions.

D. Start-up Services

The Consultant shall assist the Contractor and Owner's staff during the start-up period and shall provide oversight and engineering during the start-up period. The Consultant shall include in the Proposal an anticipated level of office engineering, inspections, and onsite start-up services.

E. Deliverables - The Consultant shall provide the following:

1. Pre-design draft report, five copies for review.
2. Final pre-design report, five copies.
3. 50% design submittals, five copies.
4. Specification documents and drawings. Drawings shall be in AutoCAD format.
5. 90% design submittals, five hard copies and specifications.
6. 100% design submittals, five hard copies and specifications.
7. Bid drawing sets, five hard copies, 24" X 36" drawings, five copies of 11" X 17" drawings, and specifications.

8. Record Drawing Set - one hard copy, 24" X 36" drawings and one electronic AutoCAD copy.

F. Contents of the Proposal- The proposal shall be issued in the following format:

1. **Project Team-** Provide an organizational chart with a listing of the Consultant's project team members. Resumes of key project team members shall be attached to the proposal. Sub-consultant resumes shall be included. Consultants shall agree not to substitute key members without written authorization of the City.
2. **Approach and Design Concept-** Describe the Consultant's proposed approach to the pre-design and design of the facilities.
3. **Scope of Services-** Provide a detailed list of all task items to be performed in the conformance with the Scope of Services work herein.
4. **Project Schedule-** Provide a detailed project schedule listing pre-design, design, bidding, and anticipated construction period.
5. **References-** Provide references for any previous projects of this nature or for demonstration of the efficacy of the design concept.
6. **Insurance-** State the insurance types and limits to be maintained by the Consultant during the course of the project.

G. General Bid and Proposal Requirements

The formal detailed proposal is being solicited to provide engineering design and construction management services. Proposal statements must include the following:

1. The name, address, telephone number, and fax number of the consulting engineering firm.
2. The name, telephone number, and e-mail address of the primary contact person for the proposal.
3. Composition of the team proposed to provide the consulting engineering firm's design and construction services, including any subcontractors. The team description should include:
 - a. Specific discipline covered by each team member; that is, mechanical, process, structural, electrical, instrumentation and controls, etc.
 - b. Resumes demonstrating related work experience.

- c. Indication of the current workload of specific team members, and hours available for this project. Please note that subsequent substitution of proposed team members without City concurrence may result in rejection of the firm for this project.
4. A description of the qualifications of the project manager proposed to lead this project.
5. Ability of the consulting engineering firm and any sub consultants to dedicate proposed project team members to provide the necessary services. Subsequent substitution of proposed team members without City concurrence may result in rejection of the firm for this project.
6. A summary statement indicating the vendor's understanding of the project, its goals and purposes, and the constraints or limitations that must be observed while achieving them.
7. A listing of equipment the consultant envisions needing to obtain the project goals.
8. The design concept and approach to be used to achieve a successful project.
9. A detailed Project Scope of Services. References to related experiences on previous projects may be included.
10. A schedule providing milestone dates after a "Notice To Proceed", and expected completion for each phase of the services to be provided.

Detailed responses to the RFP shall be submitted to the City Purchasing Department on or before the deadline date and time specified.

Failure to supply all requested information and documentation listed under proposal statements shall result in bid disqualification.

List any value-added considerations or alternate proposal on a separate sheet of paper.

The proposals will be rated to determine the best value for the City. Ratings will be based on the following factors:

- Qualifications of the firm and the team members to be dedicated to this project, including project-related experience
- Qualifications of the project manager to be dedicated to this project.
- Ability of the firm and dedicated personnel to provide the services.
- Understanding of the project, its goals, purposes, and related constraints.
- Quality of the design, design concept, and the potential for achieving project goals.
- Quality of the proposal, including level of detail and presentation.

These items are not of equal importance. Responding firms will be scored on each category, and a composite rating calculated based on the rating form below. The City reserves the right to reject any and all proposal submittals.

Proposal Statement Evaluation Form			
Item	Score	Weight (%)	Rating
1. Qualifications of firm, project manager, and personnel to be dedicated for provision of services		25	
2. Ability of the firm and dedicated personnel to provide the services (workload)		10	
3. Understanding of the project and its goals		30	
4. Design concept		30	
5. Quality of the proposal, including level of detail and presentation		5	
<i>Total</i>		<i>100</i>	