



Request for Proposals

RFP # 22-7-2

COMBINED SEWER SEPARATION, DRAINAGE
IMPROVEMENTS AND STORM WATER UPGRADES,
LEAD WATER SERVICE REPLACEMENT AND
UPGRADES, AND WASTEWATER TREATMENT PLANT
CONSOLIDATION STUDY

Deadline to submit proposals:

Friday, August 26, 2022 1:00 pm CST

Please submit proposals to the below address.

Village of Addison

Attn: Anna Hendrey, Purchasing Agent

1 Friendship Plaza

Addison, IL 60101

(630) 693-7507

ahendrey@addison-il.org

VILLAGE OF ADDISON

REQUEST FOR PROPOSAL NO.22-7-2

COMBINED SEWER SEPARATION, DRAINAGE IMPROVEMENTS AND STORM WATER UPGRADES, LEAD WATER SERVICE REPLACEMENT AND UPGRADES, AND WASTEWATER TREATMENT PLANT CONSOLIDATION STUDY

SPECIFICATIONS

A. BACKGROUND

Addison continues to operate a combined sewer system in the Village, but is pursuing its ongoing program of removing as many storm water tributary areas and storm water inlets from the combined sewer system as it can for the purpose of reducing basement backups, street flooding, and combined sewer overflows (CSO) discharges. The Village has identified the need to upgrade and improve the reliability of the combined sewer system south of Lake Street through partial separation and installation of a new separate storm sewer system to serve a drainage area of approximately 200 acres. The study will encompass the area between Lake Street to the north, Fullerton Road to the south, Addison Road to the west, and Villa Avenue to the east, excluding Normandy Dr. and Princeton St. Due to the size of the identified area and the anticipated cost, a phased approach to the separation will be required. In addition alternatives for the existing combined sewer treatment and overflow facilities, as well as the AJL Facility will need to be evaluated.

In 2017, a Phosphorus Removal Feasibility Study for both wastewater treatment plants in the Village was prepared. The National Pollution Discharge Elimination System (NPDES) permit for the AJL Facility and North WWTP includes an effluent total phosphorus discharge limit of 0.5 mg/L by 2030. The estimated capital cost to meet this limit at the AJL Facility was roughly \$25.85M. Considering the financial impact of these upgrades and the overall condition of the AJL Facility, it would be more beneficial for the Village to consolidate the plants and utilize the North WWTP to convey the flow of sanitary water for the entire town. The Village would like to investigate decommissioning the AJL Facility and developing a plan to convey all AJL sanitary wastewater to the North WWTP, evaluate plant expansion at the North WWTP, and design a plan for phosphorus and nitrogen removal to meet future NPDES discharge limits. An evaluation of the costs related to capital, operation and maintenance (O&M), as well as non-economic benefits to consolidate the two treatment plants will be evaluated in this study. This study will also develop a capital improvement plan for the Diversey Avenue Pump Station (DAPS) to ensure that it can effectively pump the additional storm water that would be directed to it because of the sewer separation.

B. SCOPE OF WORK

The preliminary engineering study for the separation of combined sewers, wastewater treatment plant consolidation, and drainage improvements to the Cherokee Park area. This study will take place in the area between Lake St. to Fullerton Ave. and Addison Rd. to Villa Ave, excluding Normandy Dr. and Princeton St. The study shall provide storm sewer sizing to accommodate a 10-year storm using the most current data. The sewer separation study shall also address any upgrade required at the Diversey Ave. Pump Station. It is also required to provide an analysis for lead water service line replacement in the combined sewer area.

The engineer shall be required to conduct an analysis on the wastewater treatment plants to determine the best method for treatment plant consolidation. The study shall include a plan to decommission the AJ LaRocca Facility and convey all flow to the North Waste Water Treatment Plant. It shall be required to determine the most efficient route to convey the wastewater to the North WWTP. It shall be required to develop a plan for plant expansion at the North WWTP as well as capacity and treatment for a combined sewer overflow (CSO). It shall be required to provide an overview on the entire treatment process for the North WWTP to take on the additional flow and comply with phosphorus removal regulations. The study shall state the method for phosphorus removal to comply with a 1.0 mg/L, 0.5 mg/L, and 0.1 mg/L limits.

To reduce overland flooding it shall be required to develop a drainage plan for the area north of Cherokee Park. Cherokee Park is owned by the Village of Addison and Addison Park District. It shall be required to determine the amount of land required for retention, the method to hold and release storm water, and provide adequate calculations for retention.

C. PROPOSAL REQUIREMENTS

C.1 COMBINED SEWER SEPARATION

- Information gathering and topographic surveys of select areas of the drainage area south of Lake Street to identify existing drainage and sanitary structures, elevations, and right-of-way lines. Inverts of sanitary and storm sewers as well as water main tops of pipes and other visible utility improvements will also be surveyed. This information will be used to record existing conditions, verify the right-of-way and analyze utility crossing conflicts along the approved storm sewer route.
- Prepare a Memorandum of Design (MOD) for separating the combined sewer system in the area south of Lake Street summarizing the preliminary design parameters, material selection, pipe installation method, and recommended standards for the Village's review and approval. Potential routes will also be

explored for the proposed storm sewers and potential outfall locations to be reviewed and selected by the Village.

- Perform a hydrologic and hydraulic (H&H) analysis of the approved storm sewer route. This analysis will consider data for 10-year storm events using updated current rainfall data.
- Perform an analysis on DAPS to determine what upgrades will be required to handle the additional storm water flow when the combined system is separated and the storm water flows are directed to it.
- Perform a water main analysis to eliminate all existing lead service lines to buildings and comply with the Lead and Copper Rule (LCR) requirements. Develop a method for pipe installation, recommended standards, and estimated cost for the Village's review and approval.
- Upon completion of the MOD and H&H analysis, prepare a draft Preliminary Engineering Report (PER) for the Village to review and comment. The PER will include a summary of the project, information contained in the MOD, H&H analysis, discussion on staging of the project, preliminary EOPC, project schedule, and exhibits.

C.2 WASTEWATER TREATMENT PLANT CONSOLIDATION

- Evaluate alternatives for existing CSO facility at AJL site.
- Develop procedures for plant consolidation utilizing the North WWTP as the only treatment plant in Addison.
- Prepare capital costs and O&M cost savings to decommission AJL
- Prepare capital costs and O&M costs to expand North WWTP
- Evaluate the flow analysis and determine a new Daily Average Flow (DAF) when the plants are consolidated to ensure proper upgrades for the North WWTP.
- Prepare an expansion plan at the North WWTP to account for the increased sanitary flow from the AJL facility.
- Prepare a plan for future nutrient removal and provide information on the capital cost of each method as well as O&M costs.
- Prepare capital, O&M costs, and a site layout for the North WWTP showing all upgrades and modifications that will be made to the plant during expansion and renovation.
- Compare the 20-year net present value of consolidating the plants to the 20-year net present value of upgrading and continued operation of both plants.
- Assess NPDES permit implications associated with combining the plants.
- Evaluate the non-economic impacts of each alternative.
- Provide an overall recommendation regarding the proposed WWTP consolidation.
- Provide funding options in detail.

C.3 CHEROKEE PARK DRAINAGE AND RETENTION

- Prepare a preliminary plan for drainage improvements in the area of Harvard Avenue and Wrightwood Avenue
- Provide one (1) to three (3) plans that could work for reducing flooding and improving drainage in this area
- Provide initial calculations for storm water detention in the area of Cherokee Park.

D. ASSUMPTIONS

- To estimate the capital costs for a force main or lift stations.
- Determine one route if force main is selected.
- Determine best route(s) if lift stations are selected.
- Sizing for the storm water collection system will account for a 10-year storm using the current updated rainfall data.
- Costs from the Master Plan and Feasibility Study will be scaled and used for comparison.
- O&M costs will be estimated using the Village operational budgets and previous studies (provided by the Village).
- Conceptual Layouts will be prepared to estimate capital costs.
- The Village will operate using one NPDES permit (North WWTP) unless it is determined an excess flow facility must be operated at the existing AJL Facility

E. MEETINGS AND REPORTS SCHEDULE

- An initial meeting will be held to discuss expectations, gather institutional knowledge, and disseminate information.
- A minimum of three, in-person, progress meetings with minutes and action item discussions, including final presentation shall be conducted.
- Large format presentation materials are recommended.
- Monthly progress report emails will be required.
- Participate in three (3) meetings throughout the study to present all materials and gather additional information.
- Upon final presentation, questions will be submitted for clarification.
- The final written report shall include all information required for the study, including an appendix with the questions and answers from the final presentation meeting.
- Five (5) printed copies of the report shall be provided as well as a printable PDF via flash drive or cloud service.

F. PROPOSAL SUBMITTAL AND QUESTION INSTRUCTIONS

Submittal Deadline

Completed RFP's must be received on or before 1:00 PM CST, **Friday, August 26, 2022.**

Submittal Instructions

You may submit your RFP in person, by carrier (Fed Ex, UPS, USPS) to the Village of Addison, Attention Purchasing Department, 1 Friendship Plaza, Addison, IL 60101, or digitally, prior to the submittal deadline. If submitting in person or by carrier please clearly mark your envelope "RFP 22-7-2".

Digital copies may be sent via email to Anna Hendrey, Purchasing Agent, ahendrey@addison-il.org. An email confirmation will be sent once the RFP is received. It is your responsibility to make sure the RFP is received prior to the deadline. We encourage you to call the purchasing agent if you do not receive a confirmation of receipt prior to the deadline. The number to reach Anna Hendrey, Purchasing Agent is (630)693-7507.

Contact Information

Technical questions concerning the RFP may be directed to:
Ryan Hayden, Superintendent of Public Works: rhayden@addison-il.org

Questions concerning the RFP documents and submittal may be directed to:
Anna Hendrey, Purchasing Agent, ahendrey@addison-il.org

G. SELECTION PROCESS

The Village of Addison seeks to select a proposal submission based upon the following criteria:

1. Responsiveness of the proposal to the scope of work, as demonstrated by providing thorough responses to the scope and project requirements.
2. Past dealings with the Village of Addison, and familiarity with IEPA stormwater regulations, IEPA wastewater regulations, best management practices, nutrient removal strategies, large scale wastewater treatment plant upgrades, wastewater treatment plant consolidations, and collection system/pumping station upgrades.

3. Demonstrated experience in successful completion of collection system and pumping station upgrades, drainage projects, nutrient removal implementation plans, wastewater treatment plant consolidation projects, and wastewater treatment plant upgrades.
4. The contractor(s) experience and approach to completing the project in a timely manner.
5. The quality and relevance of project references for projects of similar scope.

The Village reserves the right to conduct pre-award discussions and/or pre-contract negotiations with any, or all responsive and responsible vendors who submit proposals determined to be reasonably acceptable. Vendors shall be accorded fair and equal treatment with respect to any opportunity for discussion and revision of proposals, and such revisions may be permitted after submission of proposals and prior to award of a contract.

The Village may conduct negotiations with the top Vendor(s) if required to determine the acceptability of the proposal in regards to specifications, terms and conditions and cost; therefore, the proposal(s) submitted should contain the vendor's most favorable terms and conditions as well as cost with detailed specifications as proposed, since the selection and award may be made without discussion.

If the Village finds that all of the proposals submitted fail to meet the needs and requirements, the Village is not obligated to enter into an agreement to purchase.