

## COMMITTEE REPORT LS2 & LS6 UPGRADE PROJECT

To: Village of Kronenwetter  
Greg Ulman & Utility Committee

From: Robert J. Roth, PE

Re: 95% Plans/Specs, Release for Bidding

Date: November 6, 2024

The Village of Kronenwetter's LS2 and LS6 upgrade project has commenced to a 95%+ design level and bid documents have been provided for reference. The Utility Committee may now direct the project to be bid out in accordance with the plans and specifications. The development of those plans also included design details as follows:

### GENERAL SCOPE

The general scope of work for each station is as follows:

Lift Station #2 (LS2): New Generator, Automatic Transfer Switch, Transformer, 3-Phase Power Service, VFD, Panel, Controls, Area Light, and Appurtenances

Lift Station #6 (LS6): New Panel Replacement, VFD for Phase Conversion, Panel, Controls, Valve Replacements, Addition of Bypass Pumping 4" with Quick Connect, Replacement Pumps, Floats/Cables, Area Light and Appurtenances.

### PERMITS/APPROVALS

WDNR approval is not required as there will be no change in the quality or quantity of flow from each station. The project can commence upon the completion of public bids, review and contracts with a suitable vendor that is offers the following:

- Knowledge of the Village's sanitary sewer system, other lift stations & controls
- Familiarity with the Village's preferred pump system
- Qualifications to complete a significant amount of electrical work
- Competitive cost quotation

## OTHER UPGRADES

LS2 has been deemed to be satisfactory in terms of wetwell condition, size, capacity. However, it is a very important station in the Village, hence the incorporation of a generator. The site access is sufficient. An area light has been added to the plans to provide lighting (switch contained in locked panel).

LS6 has also been deemed sufficient in terms of wetwell condition, size, capacity. The valve condition and overall operation of the station has been reviewed with Mark Mackey, Lead Operator, who has indicated that the valves need to be replaced in this station. Also, a bypass pumping port requires installation as there is no such ability provided in the existing station. Stainless steel piping will be bid as an alternate in the valve vault. This station will be supplied with two (2) new Shinmaywa 15hp pumps, cables, floats and a level control device in the wetwell. Shinmaywa pumps are the go-to pump manufacturer based on longevity and experience in the Village's lift stations. This will be reflected in the bid documents.

## BID FORMAT

The project will be bid and completed under one (1) contract. Work will be itemized under each lift station. Since there are no unit price items, all of the items will be bid as lump sum items. This will allow the simple pass/fail test to determine final payments.

## TIMEFRAME

If the UC moves forward with the project, a likely bid opening date would be December 2, 2024. The generator and some of the major electrical components would need to be purchased immediately as the lead time is significant, based on past experience. Therefore, a Notice to Proceed would be immediately conveyed to the selected contractor, with contract execution. The generator would be purchased by the contractor using the Village's tax-exempt status. Work would commence into 2025, and well into 2025 to finalize the generator and ATS configuration. For this reason, we have placed a completion timeframe of circa-February 2026.

I will be available at the upcoming meeting for discussion.

Sincerely,

**ROTH PROFESSIONAL SOLUTIONS**



Robert J. Roth, PE  
Project Engineer

Attachments:

- Plans
- Bid Form Document
- Bid Advertisement

(Specifications and Contract Documents  
Not Included at This Time)

