



Staff Memo

Meeting Date: October 12, 2022

Memo Date: October 7, 2022
To: Utility Commission
From: JJ Larson, Deputy Administrator/Director of Public Works & Utilities
Subject: Water & Sewer Mater Plan Update

Background

Deputy Director Peterson and I met recently with the team from Strand to discuss the draft Water and Sewer Master plan the Commission was presented at the August meeting. After that meeting, Strand's team finalized the update to the Village's Water and Sewer system Master Plans and this memo serves as a high-level overview of that detailed report, which is included electronically in your packet.

Overview

Overall, our water and sanitary systems are in great condition to serve the existing population in the community for decades to come; there are no urgent replacement needs in either system. What the plan highlights are the system needs that will be required as our community continues to grow. Many of the projects in the plan will be driven by development pressures in every direction, north, south, east and west. This capital plan calls out the major improvements the Commission needs to be aware of and proactively plan for to meet the needs as the Village grows. The most significant are the needs on the sanitary system including:

- A large regional lift station to the east of the Village that would serve a significant sewer-shed in the hundreds of acres.
- A smaller regional lift station to serve development north of the interstate.
- An interceptor through the Farm golf course
- An extension of the Vilas Road interceptor (and water main) south of Bakken Park to serve annexed (or soon to be annexed) land along that corridor.

In one significant change from the discussion at the August meeting, staff and Strand's team dug deeper into what strategy would make the most sense to address capacity at the Vilas Road Lift Station when that time comes. The challenges of siting a "relief" lift station on the northern part of the Village are significant and would drive the costs above simply adding a relief forcemain to run parallel to the existing main from Vilas to Madison. We'd recommend that Commission plan for a project that installs a relief main in the existing easement for the long-term capital plan.

The Village's water system has very little immediate need, the system is capable of handling all development currently underway, planned or proposed for years. There are maintenance recommendations and best-practices to plan for at our wells, and the plan calls for a chemical room



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addition to Well #2 in future years. A significant item to note may be the planning of Well #5, given that the Village's current rate of growth may push that planning up significantly; the Commission should be prepared to begin work on identifying a site and beginning exploratory work as we near the end of this decade. The well will need to be sited in the high-pressure zone.

Recommendation

Staff recommends the Commission utilize the planning tools in this updated plan to guide system improvements in the coming years.