



PUBLIC WORKS

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February 10th, 2023

Re: SCADA upgrades for Wrayburn and Squire's Grove Stations

In 2000, the Village installed two forced main sanitary sewer bypass stations to help prevent sewer backups from occurring in residences in two high impact neighborhoods in the Village. The prioritized areas were located near Terrace Dr (Squires Grove) and Wrayburn Rd (NE area of the Village). These areas had been notorious for sewer backups and basement damage for years during even moderate storm events.

After flooding and the larger storm events of the late 1990's, the Village hired Ruckert-Mielke to come up with a solution. Since there was so much infiltration, especially from private property laterals, the sanitary sewer conveyance system could not keep up with the volume of clear water which required the Village DPW to bypass pump from manholes into the ditches and associated waterways. With the addition of these bypass stations, there was an ability to store more volume in line while also having the automated ability of pump control and to be notified during storm events as to pump run time, volume and rain totals. This system was a great addition to help prevent backups.

Since its installation, the system has been very effective with typical wear items on the hardware being replaced as expected. However, in the last 5 years we have had some minor issues with the telemetry and software that have now become more major as we approach 23 years since the technology was installed. Last year, the task began to look at upgrading some of the components, which unfortunately are now becoming obsolete, and as a result had us looking at new options.

After searching out best options moving forward, and running it by the representative from Ruckert-Mielke who handles the current system, agrees that the system that we have quoted from Xylem (quote included in packet.) would fit our needs the best and provide the necessary monitoring and reporting that we would require (including connectivity with remote operability.)

The sales representative from Xylem, Josh Voigt, will be present at the meeting to provide information and answer any questions there may be from the committee. The hope is to gain a recommendation from the committee to the Board so we can plan on installation prior to the rainy spring season.

The project cost of \$104,571.14 exceeds the typical budgeted maintenance monies and our anticipated costs for this project.

Sincerely,

Richard Paul, Jr.
Director of Public Works
Village of Elm Grove