

December 10, 2021

Good afternoon,

Hi David and the Village BOT,

Provided below is our list of active and pending project updates and statuses along with pending proposals:

Pending Proposals:

- Tuxedo Lake Water Main Final Design and Permitting (attached)
- Summit Road Retaining Wall Evaluation and Design (attached) (note the bulk of the proposal is the geotechnical investigation which is crucial to diagnosing the underlying issues with the existing wall and prepare a design to avoid those issues from persisting after the wall is rebuilt).
- Stormwater System GIS Mapping (attached but can be modified to meet Village's needs)

On-Going Projects:

- **DPW Relocation Programming Study and Site Sketch:** The concept sketches and letter report are in the process of being finalized and will be submitted early next week (Monday) to the Village prior to the December BOT meeting.
- **SSES Phase 3, Sub-basins 2 & 10 Construction:** The contractor has reached substantial completion as of February 22, 2020. A Certificate of Substantial Completion has been issued and Change Order No. 3 has been executed providing a credit of \$82,202 for unit price items not used. The original contract price was \$451,552 and with acceptance of Change Order No. 3, brings the contract value down to \$294,925, allowing for a credit of \$156,627 that could potentially be used for trunk sewer repairs. See Truck Sewer Investigation below.
- **Trunk Sewer Investigation:** We remobilized the subconsultant with heavy duty jetting equipment to clean the Pond 3 Truck sewer lines of debris and heavy root building. We were able to CCTV sections of the Tuxedo Lake trunk sewer. Access was limited due to a limited number of available manholes to access and the piping configuration which had bends within the lines that the camera could not pass. Based on our observations, the trunk sewer within all sections we were able to access showed the pipe was constructed with cast iron pipe (contrary to the record mapping which showed clay tile pipe) which is typically gasketed and relatively free of I/I. While the bends we found, the tuberculation within the pipe (material buildup on the wall of the pipe), and unlocated manholes (paved or buried) are not desirable, since the purpose of this study was to identify infiltration and inflow, we concluded our investigation. We will update the record mapping to show the correct pipe material. We recommend the Village DPW over time jet these lines and locate missing structures as part of regular O&M practices as this would be more cost effective than continuing that work under this contract. We will be providing our summary report shortly which will include recommended remediation approaches to the Pond 3 Sewer to prevent future root growth. The remaining funds from the SSES Phase 3, Sub-Basins 2 & 10 Construction contract may be able to be used for this project. To use these funds, Weston & Sampson will have to update the Engineering Report previously submitted to the DEC for the SSES project to gain approval to use funds for this project. We will provide an

estimate for this effort and a contract amendment/modification request to reallocate unused funds provide additional construction administration support for the Pond 3 work if the Village elects to conduct this work if approved by EFC.

- **SSES Phase 3, Sub-Basins 2 & 10 Post Construction Flow Isolation:** Flow isolation has been completed for this project. We are working on completing the draft letter to submit to the DEC. **VILLAGE ACTION ITEM: The Village BOT will need to provide guidance as to how it wishes to address I/I within private laterals (requirement of the DEC). Also, there are two manholes (not part of the recent construction) that will need new gaskets between their precast concrete joints but this is something that DPW should be able to easily handle. More details to follow on that front.**
- **Water Treatment Plant OCDOH Notice of Violation Support:** A response letter was provided to the DOH by the Village a few months ago. The Village is awaiting feedback from the DOH. We have provided the Village with documents to support responses to DOH comments 1 & 3, per our contract. To address comment No. 1, we provided Jeff Voss with a SUVA Compliance Protocol via email on January 19, 2021 and implementation should be underway. To address comment No. 3, we provided the Village with a Draft Engineer's Assessment of the WTP. Within this document we provided a recommended upgrade to the WTP to bring the plant into compliance with contact time requirements. Please note, the Engineer's Assessment includes a modest upgrade to the WTP, so if accepted by the DOH, we can provide a proposal to the Village to fully design the proposed upgrades. No response received by the DOH to-date that we are aware. This project was included within the WIIA grant submission.
- **District Area Water Meters:** In November, the Village BOT passed a resolution to purchase removable temporary water meters to help diagnosis the water loss reported by the Village (which was also cited in the OCDOH's WTP Notice of Violation), we have been asked to work on plan to help the Village target the locations of potential leaks to cost effectively investigate those areas.
VILLAGE ACTION ITEM: We are seeking formal Village direction as what level of support you would like from W&S once the meters are purchased.

Recently Completed Projects:

- **EPA Sewer Collection System O&M Manual:** The report was submitted on-time to EPA and it has been accepted. No further action is necessary.
- **Asbestos Variance Renewal:** We were able to get the Village a one-year extension to its current variance prior to the expiration deadline for no charge. No further action is necessary.
- **NYSEFC WIIA Grants for Water Projects:** WIIA grant submittal packages were successfully submitted on-time to the EFC for the East Village Water Main, Tuxedo Water Meter Relocation, Water Treatment Plant Clearwell Upgrades, and Tuxedo Lake Water Main projects. A separate supplemental submission was also made that included endorsement letters from Orange

County Executive, Steven M. Neuhaus; Supervisor of the Town of Tuxedo, Kenneth English; and New York State Assemblyman – 98th District – Deputy Minority Whip, Karl A. Brabenec. Thank you to Mayor McFadden for reaching out to get these endorsement letters.

Thank you,

Joseph M. Zongol, P.E.

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