

May 18, 2021

Mr. Joel Hanenburg
Georgetown Charter Township
PO Box 769
Jenison, MI 49429

RE: Proposed Locations for Georgetown Charter Township Pump Station Meters

Dear Joel:

Prein&Newhof is pleased to submit our analysis of where the proposed locations for pump station meters should be within Georgetown Charter Township. The addition of meters to your pump stations will provide accurate flow data and a better understanding of how these stations will be impacted by future growth in your township. The stations described below also have variable frequency drives (VFDs) connected to the pumps (Maplewood, Bauer, Fillmore, and Chicago Drive) and often multiple pumps running concurrently (Maplewood, Port Sheldon and Chicago Drive) resulting in the inability to precisely decipher the flow leaving these stations and thus the capacity remaining in these pump stations. The proposed locations of these meters and how they were selected are provided in more detail below:

1. Maplewood Pump Station – future growth is anticipated to the north (near Bauer Road and Fillmore Street) and the long-term master plan to install sewer in the plats west of Cottonwood between Sycamore Drive (south end) and Oakbrook Drive on the north end (north of Bauer Road) will result in increasing flows toward this pump station. This growth will provide additional flow to a station that has reached approximately 66% of its capacity.
2. Bauer Pump Station – future growth is anticipated in this pump station service area which will provide additional flow to this pump station that has reached approximately 92% of its capacity. It is also our understanding that continued development of Lowing Woods will likely exceed the capacity of this station when it has reached full development.
3. Port Sheldon Pump Station – future growth is anticipated primarily to the northwest portion of the township and the long-term master plan to install sanitary sewer in the Georgetown Forest Plats No. 2 and No. 3 (neighborhoods west of 40th Avenue and north of Blair Street) will result in higher flows to this pump station. This growth will provide additional flow to a station that has reached approximately 49% of its capacity.
4. Fillmore Pump Station – continued growth to the north and west is anticipated which will provide additional flow to this pump station that has reached approximately 61% of its capacity.
5. Chicago Drive Pump Station -- this pump station is integral to the growth in the southern and western portions of Georgetown Township and Jamestown Township and has reached approximately 53% of its flow capacity.

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The possibility of growth and higher flows for these five (5) pump stations results in these stations being the most advantageous for meters per our analysis. Georgetown Shores, Fairway, and 12th Avenue should be considered as the next round of stations requiring meters to factor in possible growth in the southern portion of the township, which appears to have less growth potential than the northern and western portions of the township. 28th Avenue pump station, which appears to be at full capacity, should continue to be monitored closely by the Township but its pump station service area does not appear to have any additional room for developments to be constructed.

If the Township would like to proceed, our office would review available records and site plans to review the feasibility of adding flow meters to these stations and provide the Township with cost estimates for each site. We anticipate the cost to do a meter analysis to be estimated at \$2,000 per pump station.

Please contact us if you have any questions. Prein&Newhof appreciates the opportunity to provide you with this analysis.

Sincerely,

Prein&Newhof

A handwritten signature in cursive script that reads "Lucas J. Timmer". The signature is written in black ink and is positioned above the typed name.

Lucas J. Timmer, P.E.

LJT/ljt