



September 5, 2023

Mike Yoder  
Town Manager  
Town of Bristol  
303 E Vistula St.  
Bristol, IN 46507

**Re: Wastewater Design – Engineering Services Amendment**

Dear Mr. Yoder:

We are submitting this letter to provide you with a formal update on the design of the Wastewater Treatment Plant Improvements project. We have completed the preliminary design phase for the new SBR treatment plant with influent pump station, headworks, 3-basin SBR, UV disinfection, and post aeration, improvements to the existing aerated sludge holding tank, and the conversion of the existing primary clarifier to a new aerated sludge holding tank. We have also completed preliminary design of the three (3) collection system lift station replacements. Several items have changed since the original scope of work was identified, and we discussed these changes at our Preliminary Design Review Meeting on July 14<sup>th</sup> where an amendment was requested.

During Preliminary Design, we identified that Lift Station 8 should be replaced fully rather than replacing only the pumps and controls. At our Preliminary Design Review Meeting, we discussed that replacing the existing 5-foot diameter wet well with a new Onelift wet well will provide additional response time in the event of power outages or pump failure. The lift station also experiences severe corrosion and the Town would like us to design a dosing system for a chemical corrosion inhibitor (likely ozone) to protect the new equipment from corrosive gases. The wet well replacement and corrosion inhibitor will require additional survey, soil boring, and engineering.

The Wastewater Superintendent notified us that the Town is paying significant expense towards their current sludge bagging system, which was designed and constructed between 2019 and 2021. The amount of sludge being produced is much higher than anticipated and results in more disposable bags being required. The Town has requested we conduct a cost-benefit analysis in the form of a technical memo to compare the cost of the existing system to potential alternative sludge processing systems. The deliverable for this task will be a memorandum summarizing the options and the present worth cost of each. This task does not include design of alternate sludge handling / disposal methods.

We are formally requesting an amendment to our Engineering Services Agreement to include this work which we feel will provide the best end-product for the Town.

We would like to request Town Council consideration for an amendment to our contract of \$34,330 to complete these additional items.

Lift Station 8 Replacement Design (Lump Sum) .....	\$24,242
Technical Memo – Sludge Processing (Lump Sum) .....	\$10,088
<b>Total All Services .....</b>	<b>\$34,330</b>

If the above amendment proposals are acceptable, please let us know and we will submit a formal engineering agreement amendment for approval. If there are further questions or concerns, please don't hesitate to contact our office.

Respectfully yours,

**COMMONWEALTH ENGINEERS, INC.**



Andrew M. Robarge, P.E.  
Project Manager