



GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

VIA E-MAIL

December 14, 2021

File No. 16-02032T3

Jason Bobst, Township Manager
West Norriton Township
1630 West Marshall Street
Jeffersonville, PA 19403

Reference: Estimate for Engineering Design Services
Rittenhouse Pump Station Force Main Replacement Project

Dear Mr. Bobst:

Gilmore & Associates, Inc. (G&A) is pleased to present this estimate for engineering services to West Norriton Township in response to your request, regarding the Rittenhouse Pump Station Force Main Replacement Project.

We have reviewed the Township's needs for a successful Project. The Project will be designed in accordance with Alternative #2 – Replacement of 8,500 LF of Existing Force Main with 24-inch DIP and New Pump Impellers as presented in G&A's Rittenhouse Pump Station Force Main Analysis dated November 2020. The scope of this work includes the following tasks:

- **SURVEY** – This task includes surveying the Project area to acquire additional and updated survey information to incorporate into the existing base plan information that G&A is in receipt of from Rettew. Also included in this task is deed research, existing force main stake out (based on existing plans), PA One Call and preparation of an existing features base plan.
- **DESIGN** – This task includes the preparation of construction plans to incorporate into the bidding documents. The Plans will be bid ready and include a cover sheet; notes; plan and profiles; details; and erosion and sediment control plan, notes and details.
- **PROJECT MANUAL** – This task includes the preparation of a Project Manual for public bidding. The Project Manual will conform to public bidding laws and include technical sections for the successful construction of the project.
- **PERMITTING** – This task includes the preparation and acquisition of approved permits from applicable agencies that are necessary to construct the Project. Specifically, the permits identified are PA DEP Part II Water Quality Management Permit, Montgomery County Conservation District Erosion and Sediment Control NPDES Permit, PA DEP General Permit for Stream Encroachments, PA DEP-Army Corps of Engineers Joint Permit. Permit fees are additional and anticipated to be paid by Township and therefore not included in this estimate.

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- **MEETINGS** – This task includes meetings with the Township, PA DEP, Montgomery County Conservation District, Montgomery County (for use of Schuylkill River Trail), Norristown Borough and Norristown Municipal Waste Authority as needed.
- **CONSTRUCTION ESTIMATE** – This task includes the preparation of an opinion of probable cost for construction of the project as designed.
- **BID MANAGEMENT** – This task includes assisting Township staff in the advertisement of bids, soliciting bids via PennBid, and reviewing the bids for recommendation of award to the Township.

It is estimated the above scope can be completed for approximately \$300,000.

TECHNICAL NOTES

It is not anticipated that PA DEP Act 537 Planning is required for this project, since the design hydraulic capacity listed in the PA DEP Water Quality Management Part II Permit (8.74 MGD) is slightly greater than the anticipated capacity (7.20 MGD) of the station after 8,500 linear feet of force main is replaced. It also should be noted that this replacement does not create capacity for future projects beyond those included in the 20-year projected flows in the November 2020 Analysis. Additional force main replacement and/or other alternatives and planning would be necessary to accommodate those projects. Further, the PA DEP Act 537 approved Average Daily Flow listed in the Water Quality Management Part II Permit for the pump station is 2.2 MGD. The January 2016 through October 2021 Average Daily Flow is 2.18 MGD. Flows greater than 2.2 MGD will require Act 537 approval by PA DEP. It is recommended that the flow through the Jackson Street Diversion Chamber to NMWA via gravity be maximized, as diverting more flow to NMWA via gravity would lessen the flow at Rittenhouse PS. G&A is in discussion with M&B Environmental and NMWA to see what is required to increase and maximize flows to NMWA by gravity through the Jackson Street Diversion Chamber.

Should you have any questions related to this proposal, please do not hesitate to contact our office.

Sincerely,



Thomas J. Figaniak, P.E.
Project Engineer
Water Resources

TJF/ec

cc: William K. Dingman, P.E. – Gilmore & Associates, Inc.
Alexander Dyke, P.E. – Gilmore & Associates, Inc.
Erik Garton, P.E. – Gilmore & Associates, Inc.