



***Radnor Township Board of Commissioners
Public Works & Sewer Standing Committee***

Jack Larkin, Chair

Rich Booker

Lisa Borowski

March 7, 2019
6:30 P.M.

Agenda

1. Discussion and Update on the Sanitary Sewer Assessment Project
2. Public Participation

Meeting Notice

The ***Public Works and Sewer Committee*** of the Radnor Township Board of Commissioners will hold a meeting on Thursday, March 7, 2019 at 6:30 p.m. in the Radnorshire Room of the Township Building, [301 Iven Avenue, Wayne, PA 19087](#). The topic of discussion will be Discussion and Update on the Sanitary Sewer Assessment Project.

RESOLUTION NO. 2018-135
A RESOLUTION OF RADNOR TOWNSHIP, DELAWARE COUNTY,
PENNSYLVANIA, AWARDED GANNETT FLEMING, INCORPORATED, THE
SANITARY SEWER SYSTEM ASSESSMENT PROJECT IN THE AMOUNT OF
\$92,000.

WHEREAS, the Township wishes to assess the sanitary sewer system

WHEREAS, Gannett Fleming, Incorporated has submitted a proposal to provide said assessment

NOW, THEREFORE, be it *RESOLVED* by the Board of Commissioners of Radnor Township does hereby award Gannett Fleming, Incorporated, the Sanitary Sewer System Assessment Project in the Amount of \$92,000.

SO RESOLVED this 10th day of December, A.D., 2018

RADNOR TOWNSHIP

By: _____
Name: Lisa Borowski
Title: President

ATTEST: _____
Robert A. Zienkowski
Manager/Secretary

Radnor Township

PROPOSED LEGISLATION

DATE: December 3, 2018

TO: Radnor Township Board of Commissioners

FROM: Stephen F. Norcini, P.E., Township Engineer *SN*

CC: Robert A. Zienkowski, Township Manager
William M. White, Assistant Township Manager & Finance Director

LEGISLATION: **Resolution #2018-135: Awarding Gannett Fleming, Incorporated, the Sanitary Sewer System Assessment Project in the Amount of \$92,000.**

LEGISLATIVE HISTORY: The Board of Commissioners requested that a proposal be brought before them that would evaluate and quantify costs for the Township's sanitary sewer system.

PURPOSE AND EXPLANATION: The proposal before the Commissioners is a table top evaluation of the piping that comprises the sanitary sewer system. The criteria for pipe replacement will be the age of the pipe, as noted on page two of the proposal. The pumping stations, meter pits, and select pipe runs will be visited for a cursory inspection but will also be evaluated by age. In short, Gannett Fleming will perform the following services:

1. Using Township resources and interviews with staff, develop the inventory of the system.
2. Perform the condition assessment based on the criteria noted
3. Provide a budget level probable replacement cost
4. Update the Township's GIS system with a sanitary sewer layer
5. Present the findings to the Board of Commissioners

The above will provide the first step in assessing the sanitary sewer system. The Commissioners noted when they requested the proposal, that they did not wish to televise the entire system, due to cost. Understanding that the only true way to evaluate a sewer pipe is by televising, I respectfully recommend the Township budget funds to televise ten percent of the system each year. This would allow the costs solely determined by age (as noted in the proposal) to be further refined; although some pipe may be past their useful life on paper, by televising the pipe we can determine if other means (lining, spot repairs, etc.) may be used to address the pipe, as opposed to total replacement. Also, from an asset management standpoint, evaluating the system Township wide on a ten-year basis is a best management practice.

IMPLEMENTATION SCHEDULE: Pending Board of Commissioners approval, a purchase order request will be processed. Upon purchase order approval, Gannett Fleming will be provided a Notice To Proceed, and work will begin immediately.

FISCAL IMPACT: The cost of this project is \$92,000, to be funded by the 02 Sewer Fund.

RECOMMENDED ACTION: *The Engineering Department respectfully requests the Board of Commissioners Award Gannett Fleming, Incorporated, the Sanitary Sewer System Assessment Project in the Amount of \$92,000.*

MOVEMENT OF LEGISLATION: It is being requested the Board of Commissioners authorize the award of this project.



*Excellence Delivered **As Promised***

November 20, 2018

Stephen F. Norcini, P.E.
Township Engineer
Radnor Township
301 Iven Avenue
Wayne, PA 19087

Dear Steve:

Sanitary Sewer System Condition Assessment

Gannett Fleming, Inc. is pleased to submit the following scope of work and cost proposal for providing engineering services regarding a system wide Sanitary Sewer Condition Assessment for the Township's sanitary sewer system. The scope of services is more fully outlined below:

SCOPE OF WORK

The Engineer's Assessment report will document the conditions and estimated replacement cost of construction of Wastewater System assets. The Engineer's Assessment process will include meeting with key Township representatives to identify and confirm specific information needed to support our assessment and to prepare the report.

We will develop the inventory from institutional knowledge, available records, maps, GIS Data, work orders, debt issue closing documents funding construction projects, approved plans, and other sources to provide an inventory and listing. Our report will contain the following:

1. An inventory of the used and useful assets compiled by year of service, developed utilizing the Townships GIS platform and available records.
2. Complete a condition assessment of the identified assets;
3. Determine and/or establish an opinion of probable replacement cost of construction for each asset at a budgetary level with contingencies. Specific detailed construction cost estimates cannot be accurately developed at this level of study detail.

Condition assessment will include available repair records, internal investigation reports, useful life determination and the development of an asset management replacement schedule. Opinions of probable replacement costs will be developed based on useful life and current construction market conditions utilizing industry publications (RS Means, etc.), recent similar projects, and industry trends. Replacement criteria will be developed utilizing industry standard useful life projections. For purposes of this study, Pipeline infrastructure will assume a maximum of 100-year useful life from time of installation for



Ductile or Cast-Iron Pipe, 75 years for PVC Pipe, 50 years for Clay and Asbestos Cement pipe. Pumping Equipment and controls will be based on a 15-year replacement schedule, electrical and control equipment will be based on a 20 to 25-year replacement, and concrete vaults and other facilities being 50- year. These standards will be evaluated and revised based on condition and other criteria developed during the study.

Cursory inspections of all above ground facilities and Pumping Stations will be completed and included in the report. Following the development of the asset inventory, updates to the Township's GIS system will be completed to include the inventory with the Sanitary Sewer map.

COST

The total estimated cost of services for this scope of work will be as follows:

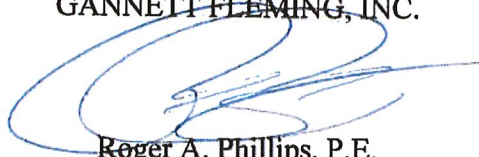
Engineering Services for the Sewer System Evaluation \$92,000.00

Costs provided is not to exceed and is estimated, and additional meetings, presentations, or additional requested out of scope services exceeding the estimated price will be billed in accordance with our current approved rate schedule. Estimated costs will not be exceeded without approval in writing. We are prepared to begin this assignment upon your authorization to proceed and anticipate completion within ninety days of authorization.

We appreciate this opportunity to offer our services. If you have any questions concerning our proposal, please contact me.

Very truly yours,

GANNETT FLEMING, INC.



Roger A. Phillips, P.E.
Senior Associate