

EAST GOSHEN MUNICIPAL AUTHORITY

February 13, 2023

7:00

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE

- a. Ask if anyone will be taping the meeting

2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS

3. SEWER REPORTS

- a. Director of Public Works Report
b. Pennoni Engineer's Report
c. Big Fish Environmental Report

4. APPROVAL OF MINUTES

- a. January 9, 2023

5. APPROVAL OF INVOICES

Exeter Supply Co	Invoice #371365	\$5,025.79 (paid)
Exeter Supply Co	Invoice #371359	\$2,642.00 (paid)
Excelsior Blower Systems	Invoice #0912367-IN	\$5,221.00 (paid)
Pennoni	Invoice #1155970	\$8,690.50
Pennoni	Invoice #1155971	\$2,294.00

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. January

8. OLD BUSINESS

9. 2023 Goals:

Goal	Status
Ridley Creek Plant Compliance	January and February were in compliance and met all requirements *Note DEP Annual Insp.
Continue to Monitor Upgrades at WGSTP and Westtown Way Pump Station	On – going, Generator and transformers are in place Actively working on the building
Continue to Implement Infiltration and Inflow for the Sewer System	On-going
Caustic Soda Project	Public Works installing pad and piping
Replace sewer line Hershey Mill Estate trunk line replacement	Contractor is laying pipe, I give the residents a weekly up date.
Three new meters for Ridley Creek Collection	Blacksmith Shop (2023) Line Road – (2024)

10. NEW BUSINESS

- a. East Strasburg Road Sewer Extension – Pennoni
- b. Sign the Maillie audit

11. CAPACITY REQUESTS

12. ANY OTHER MATTER

13. CORRESPONDENCE AND REPORTS OF INTEREST

14. PUBLIC COMMENT

15. ADJOURNMENT

**EAST GOSHEN MUNICIPAL AUTHORITY
EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199**

To: Municipal Authority

From: Mark Miller

Re: February 13, 2023, Monthly Report

Monthly Flows: The average daily flow to West Goshen was 814,520 per day.

Meters: The meters were read on a daily basis with no problems to report.

C.C. Collection: All pump stations were visited on a daily basis; we cleaned and televised 25,450 LF of sanitary sewer in Quad 4, which is most of Ashbridge Farms. The lines were in very good condition. We had five laterals that were taking in water, they were hand dug and repaired. We also installed a dozen sewer caps. We did not have any problems on the system. We also televised and additional 2400 LF of pipe in Waterview and Milltown. We found three infiltration locations at the manhole, they have all been repaired.

C.C. Interceptor: We began plugging and televising the 21" line from Baldwin Drive down to the reservoir which was 3000 LF of pipe. We located several significant infiltration leaks.

The following repairs have been done:

- 18 Reservoir Road, two laterals (pictures attached). We excavated and found SDR pipe tees were broken.
- 20 Reservoir Road (picture attached): The lateral off the main SDR pipe tee split.

Remaining Repairs:

The following manholes are leaking: CO31, CO33, CO34, CO36.
We also have three joints leaking and three laterals where they tie into main are leaking.
We need to camera the creek crossing at Reservoir Road.

R.C. Collection: The pump stations were visited on a daily basis and routine maintenance was done. The contractor has started laying pipe on the Hershey Mill Trunk line.

Ridley Creek Plant: Public Works assisted with loading soda ash. We also performed routine maintenance by cleaning and sealing the concrete floors.

Alarms: We responded to 11 alarms for January.

PA 1 Calls: We responded to over 60 PA One Calls for the month January.

Monthly Rainfall: 4.95 inches of rain for the month of January.

Lateral repairs or Caps: We had eight lateral repairs and 12 caps replaced in January.



#18 Reservoir Rd.
Both lateral's leaking
repaired.



18 Reservoir RD
2nd Lateral.



#20 Reservoir Rd.
Tee blown out.

**EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT**

February 9, 2023

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic Soda Conversion – No activity by Pennoni since our last report. We will provide assistance as needed during the Township's construction of the system.
- UV Disinfection System – We responded to Glasco on questions regarding minor modifications to the UV fabrication design. The system is being fabricated, and delivery was expected in late February or early March 2023. We will request an updated schedule from Glasco and request if delivery can be rescheduled to April-May timeframe per the schedule below.

We continued preparation of the mechanical and electrical construction bid document including a field scoping meeting for electric work with a contractor. The tentative schedule follows:

- Bid Advertisement – late February
- Bids Due – late March
- Award Consideration – April 10, 2023 at the Municipal Authority Meeting
- Generator #2 Replacement – We obtained CoStars pricing from Premium Power Services for a Cummins' 500 kW and 600 kW diesel generators. The 500 kW was recommended as it is the same size as the existing generator, and no additional loads are projected to necessitate an increased size. The 500 kW unit, ATS, and supporting equipment was ordered, and we are awaiting shop drawings for review. The lead times on the generator and ATS are 43 weeks and 22 weeks respectively.
- Operating Cost Analysis – As requested by the MA, we are evaluating the operating costs of the RCSTP in an effort to benchmark against other WWTP's. Dave Ware has provided financial data that we will analyze, and we will provide our observations upon completion of the analysis.

Westtown Way Pump Station

- No update since our last report.

Sanitary Sewer Pipe Rehab

- Supplee Valley – No have updated the construction scope and construction cost estimate for pipe lining the remainder of the asbestos cement sewers in the neighborhood and will submit to the Township for review. We anticipate bidding the project in March 2023 with construction in mid-2023.
- Hershey's Mill Estates – We reviewed additional shop drawings, coordinated with the Township to purchase additional piping and fittings, and provided additional pre-construction and construction coordination assistance.

The contractor, Joao & Bradley, mobilized on January 16. Erosion and sediment controls have been installed, and they started pipe installation at the downstream end on February 8. They constructed the first pipe run of approximately 224 LF and a manhole replacement the first day. We are performing nearly full-time inspection during the pipe installation work.

We also prepared a PADEP GP-8 permit application for the additional wetland crossing at the upstream end of the project site to allow for additional construction access off of Tanglewood Drive

and are awaiting their direction. The permit application is being coordinated with Township for electronic submission to PADEP.

- Ridley Creek Exposed Sewer Rehab – A full PADEP permit application has been prepared and will be submitted to PADEP in follow-up to the emergency authorization now that construction has been completed.
- Chester Creek Interceptor – Mark provided TV videos of the recent cleaning and televising of the downstream end of the interceptor that we will review to evaluate need for repairs.

New Connections

- 301 Reservoir Road – No activity by Pennoni since our last report.
- 1671 and 1681 Strasburg Road – We prepared a study to evaluate extension of public sewer that is submitted under separate cover.

Chapter 94 Reports

- We have begun preparation of the 2022 reports for the Ridley Creek, Chester Creek (West Goshen), and Westtown systems.

END OF REPORT



Executive Summary

The Ridley Creek sewage treatment plant outfall 001 met all effluent limitations regarding water quality for January 2023. All supplemental reports were submitted for the month of December with the eDMR Discharge to the Applebrook irrigation lagoon remaining offline. Chemical usage utilized for total alkalinity remained consistent with previous months. Aluminum sulfate solution volumes increased to a daily average of 74.4 compared to the previous month at 72.6 gpd to achieve phosphorus removal. No significant mechanical or operational issues were observed during the sludge dewatering equipment or SBR treatment process. Sludge dewatering continued at 524,613 gallons or more per month. There were no odor complaints during the month.

Table 1

January 2023- Final Effluent - Outfall 001																
NPDES Permit Discharge Limitations	Flow	CBOD ₅		Total Nitrogen		TSS		NH ₄ -N		Total Phosphorus		Fecal Coliform		Ultraviolet light intesity	Copper, Total	Zinc, Total
	MGD		lbs/		lbs/		lbs/		lbs/		lbs/	Geo	Geo			
	Average	mg/L	month	mg/L	month	mg/L	month	mg/L	month	mg/L	month	Mean	Mean			
	0.75	10	62	Report	Report	10	62	2.5	44	0.5	3	200	1,000			
Inst. Max	20	94			15	94	5		1				Report	Report	Report	
Sample Date																
January 10, 2023	0.383	2.0	6.4	5.81	18.6	7.0	22.4	0.10	0.32	0.12	0.38	9	0.9542	NS	NS	NS
January 17, 2023	0.335	2.0	5.6	7.50	21.0	7.0	19.6	0.10	0.28	0.11	0.31	6	0.7782	NS	NS	NS
January 24, 2023	0.364	2.0	6.1	5.52	16.8	6.5	19.7	0.10	0.30	0.15	0.46	21	1.3222	NS	NS	NS
January 31, 2023	0.396	2.0	6.6	9.21	30.4	6.0	19.8	0.10	0.33	0.10	0.33	1	0.0000	NS	NS	NS
Average	0.370	2.0	6.2	7.01	21.7	6.6	20.4	0.10	0.31	0.12	0.37	9	0.7637	NA	NA	NA
Minimum	0.335	2.0	5.6	5.52	16.8	6.0	19.6	0.10	0.28	0.10	0.31	1	0.0000	NA	NA	NA
Maximum	0.396	2.0	6.6	9.21	30.4	7.0	22.4	0.10	0.33	0.15	0.46	21	1.3222	NA	NA	NA

Treatment Process Operation

Table 1 illustrates the final effluent composite sample data reported for outfall 001 January 2023. The month-to-date average total phosphorus was reported as 0.12 mg/L compared to the permit limitation of 0.50 mg/L. The TSS samples were consistently in single digits. The results remain below the weekly maximum of 15 mg/L. The draft monthly average TSS is reported as 6.5 mg/L compared to the discharge limitation of 10 mg/L.

The final effluent test results demonstrate that the biological treatment performed well during January. The sequencing batch reactors (SBRs) numbered 2, 3, and 4 were in service. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS, and total phosphorus. Daily analysis of the final effluent flow equalization grab sample for total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

Discharge to the Applebrook irrigation lagoon, outfall 002 remains offline.

The influent wastewater pollutant concentrations and loading entering the wastewater treatment facility generally remained within the design concentration and organic loading values. The TSS and CBOD₅ monthly average weekly concentrations were generally observed to be less than the design parameters for the treatment process.

Table 2 presents the pollutant data for the influent wastewater collected at the doghouse manhole during January 2023.

Table 2

January 2023 - Influent Wastewater													
Design Basis	Flow	BOD ₅		CBOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total mg/L	
	MGD Average	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
		335	2,098	NA	NA	320	2,001	32	200	48	301	9.1	57
		Sample Date											
January 10, 2023	0.291	262	637	229	556	266	646	32.4	79	41.8	102	6.1	14.8
January 17, 2023	0.377	499	1,571	186	585	176	554	32.0	101	42.0	132	5.57	17.5
January 1, 1900	0.419	102	356	112	391	112	391	22.2	77	24.7	86.2	2.88	10.1
January 31, 2023	0.448	237	886	218	815	242	905	29.4	110	42.0	157	4.85	18.1
Average	0.384	275	862	186	587	199	624	29	92	37.6	119	4.85	15.1
Minimum	0.291	102	356	112.0	391	112	391	22	77	24.7	86	2.88	10.1
Maximum	0.448	499	1,571	229	815	266	905	32	110	42.0	157	6.08	18.1

The foam on the SBR surface remained consistent with December, with approximately 15% to 20% coverage of the surface area. The foam thickness is approximately 2 inches and is light to medium brown. These conditions may contribute to a decrease in clarity within the final effluent post-flow equalization basins; however, the clarity is improved after passing through the disc filters. The operation strategy is to lower the MLSS to maintain a F:M ratio of 0.06 while ensuring the ammonia effluent discharge concentration remains within the seasonal limit of 2.5 mg/L.

PA DEP

No activity

Pennoni Associates

Provided effluent and influent monthly reports for the Chapter 94 report.

Significant Rainfall

During January, there were Thirteen (13) days when rainfall. There were three (3) events where the rainfall exceeded 0.5 inches in 24 hours.

20 January 0.80 inches

23 January 0.85 inches

26 January 1.13 inches

The total rainfall for the month of January was a total 3.89 inches.

Chemical Usage:

January 2023		
Chemical	Daily Average	Total Monthly
Soda Ash, pounds	297	9,210
Aluminium Sulfate solution, gal	74.4	2,306
Sludge Dewatering, gal*	23,846	524,613

*The centrifuge was operated 22 days during the month.

Flow data:

January 2023			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	13.195	425,628	572,640
Influent Wastewater to SBRs*	14.372	463,599	609,792
Internal Recycle**	1.777	37,972	129,082
Treated Effluent to Disc Filters	13.813	445,564	571,776
Final Effluent Discharge	11.341	366,000	466,000
Applebrook Golf Course	0	0	0

During January, the average monthly influent wastewater flow measured at the “field” flow meter was 425,628 gallons/day compared to the influent flow into the SBRs as 463,599 gallons/day. The difference between the daily averages is 37,971 gpd, consistent with the average daily volume of internal recycle flow of 37,972 gpd. These values are considered typical as the flows to the SBR should be greater due to including all the internal recycle flows.

Minor Preventative Maintenance

Flushed chemical feed lines to the SBRs.

Cleaned final effluent weir trough daily

Skimmed surface of disc filters daily

Drained and cleaned disc filters bi-weekly

Cleaned buildings and laboratory

DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
January 9, 2023

The East Goshen Township Municipal Authority held their regular meeting on Monday, January 9, 2023 at 7:00 pm. at the Township Building. Members in attendance are indicated in

BOLD:

Walter Wujcik, Chairman

Kevin Cummings, Vice Chairman

Dana Pizarro

Jack Yahraes

Also in attendance were: Mark Miller (Director of Public Works), Mike Ellis (Pennoni representative), Ellen Koopman (Attorney), Dave Ware (Finance Director), Michael Lynch (Township Supervisor) and Scott Towler (Big Fish) on the phone.

COMMON ACRONYMS:

BFES – Big Fish Environmental Services

BOS – Board of Supervisors

CB – Conservancy Board

DEP – Department of Environmental Protection

EPA – Environmental protection Agency

HC – Historical Commission

I&I – Inflow & Infiltration

LCSTP – Lockwood Chase Sewer Treatment Plant

PWD – Public Works Department

MA- Municipal Authority

NPDES – National Pollutant Discharge Elimination System

PC – Planning Commission

PM – Prevention Maintenance

PR – Park & Recreation Board

RCSTP – Ridley Creek Sewer Treatment Plant

SBR – Sequencing Batch Reactor

SSO – Sanitary System Overflow

WAS – Waste Activated Sludge

Call to Order & Pledge of Allegiance

Walter called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance.

He asked for a moment of silence for our troops and First Responders.

He asked if anyone would be recording the meeting. There was no response.

Chairman's Report

1. Reorganization was held: Jack made the following motion to elect

Kevin Cummings, Chairman

Dana Pizarro, Vice Chairman

Walter Wujcik, Treasurer

Jack Yahres, Secretary

New Member, Assistant Secretary/Treasurer

Dana seconded the motion. The motion passed unanimously.

SEWER REPORTS

1. Director of Public Works, Mark Miller's report for January 9, 2023

Monthly Flows – The average daily flow to West Goshen was 673,239 per day.

Meters: The meters were read on a daily basis.

1
2 **C.C. Collection:** All pump stations were visited on a daily basis. The wet wells were washed down.
3 We received a call from a resident on Glenmont Lane who sated that sewage was backing up into his
4 home. We went down and found that his trap was full of grease and the clean out stack pipe was out
5 of the hub. I gave him a copy of the local contractors to call to get it repaired.
6

7 **C.C. Interceptor:** We are in the process of scheduling to televise the truck line from Strasburg Road
8 down to the Westtown Way meter. This work has to be done between the hours of 12:00 am to 5:00
9 am and we have to plug the lines so we can get a full visual of the pipe.
10

11 **R.C. Collection:** The pump stations were visited on a daily basis. We received a seal failure alarm
12 on Christmas day so I changed the run sequence so the pump would only run if the other pump could
13 not keep up with the flow. We swapped the pump out the next day. We cleared the sanitary sewer
14 line right of way through the gold course. While we were clearing the right of way, we pulled the
15 manhole lids to check the condition of the manholes, which were fine. Hibberd Lane meter locked up
16 this month. John Laidley was called in to repair the issue. The meter is up and running.
17

18 **Ridley Creek Plant:** We performed general maintenance as needed. We had a problem with pump
19 #2 for the utility water. We are scheduled to clean the line from metering manhole into the screen
20 room. We had Lenni cut out power to the plant while PECO did repairs on Line Road.
21

22 **Hershey Mill Sewer Line Replacement** – I have been keeping the residents informed on what the
23 status of the project is. I had asked Mike to have his people stake out the easements thinking this
24 would get the residents’ attention, which it did. I have been speaking to residents advising them that
25 we would be utilizing the easements. Public Works still has to put the roads in for the contractor,
26 which we hope to start next week. We can discuss further at the meeting.
27 Note: They started the two roads for the contractors today.
28

29 **Alarms:** We responded to 21 alarms for December.
30

31 **PA 1 Calls:** We responded to over 57 PA One Calls for the month of December.
32

33 **Monthly Rainfall:** 6.20 inches of rain for the month of December.
34

35 **Lateral Repairs or Caps:** We had two cleanout repairs for December.
36
37
38

39 **2. Pennoni Engineer’s Report dated December 9, 2022** 40

41 **Ridley Creek Sewage Treatment Plant (RCSTP)**

- 42 • Caustic Soda Conversion – We conducted a pre-construction field meeting with Jim Woods
43 (the PADEP “certified installer” consultant) and Public Works. Jim requested that vacuum
44 control valves be added to the chemical feed pumping system and that thermal expansion be
45 added to the exterior tank suction piping. We obtained cost quotes from Pyrz (supplier of the
46 tank and chemical feed pumps) for the applicable equipment that has been forwarded to the

Township and plant operator for review. Jim expects that PADEP will authorize the permit within approximately one week of submission of the application, at which point the tank and system can go into use. The permit application cannot be submitted until all work is complete.

We also met virtually with Scott Towler to determine the alarms and controls scoping for the tank and chemical feeds. The controls will remain the same as those from the caustic trial with pump feed rates adjusted manually (not automatically controlled by pH or other conditions). There will be outside visual alarms for a tank leak (via interstitial monitoring between the tank walls) and tank high level. The tank level is also proposed to be visible through SCADA with remote alarm notifications for tank high and low levels only.

Note: Mike presented an updated cost from Pyrz Water Supply Co. of \$1,773 for extra equipment. He explained how the new system will work.

- UV Disinfection System – The system is being fabricated by Glasco, and delivery is expected in late February or early March 2023.

The bidding and contracting schedule for the mechanical and electrical work remains dependent on the notification of awards for the Commonwealth Financing Authority (CFA) Local Share Account (LSA) grants. Awards are expected to occur on January 12, but we are not aware that the agenda for the CFA meeting has been made available yet to confirm the grant awards will be considered.

We are awaiting advertisement until the CFA's public meeting is scheduled to make the LSA awards. The UV solicitations for mechanical and electrical work can then be advertised. The tentative bidding schedule follows, based upon the CFA meeting occurring on January 12:

- Bid Advertisement – late January
- Bids Due – mid-to-late February
- Award Consideration – March 13, 2023 at the Municipal Authority Meeting

Note: Mike mentioned that the January meeting of the CFA was cancelled due to no quorum. The next meeting will be in March.

- Generator #2 Replacement – We are continuing with design and coordination with vendors on pricing for various size generators.

Westtown Way Pump Station

- No update since our last report.

Sanitary Sewer Pipe Rehab

- Supplee Valley – No have updated the construction scope and construction cost estimate for pipe lining the remainder of the asbestos cement sewers in the neighborhood and will submit to the Township for review. We anticipate bidding the project in February 2023 with construction in early-to-mid 2023.
- Hershey's Mill Estates – We prepared the Intent to Award and Precast Commitment letters to the low bidder, Joao & Bradley. We reviewed construction submittals and shop drawings for the manholes, storm sewer endwall, and bypass pumping plan. It is our understanding that the manholes and endwall have been ordered. We are awaiting the contractor's bonds and insurance documents, which need to be in-hand to execute the contract.

1 We recommend the MA formally award the contract to Joao & Bradley at the January 9th MA
2 meeting conditioned that the contract not be signed until after the CFA's January 12th meeting in
3 which they are tentatively expected to award grants.

4 An initial pre-construction meeting was conducted, and a second pre-construction meeting is
5 scheduled for January 10.

6 We also prepared a revised design of pipe slopes and manhole invert elevations since all
7 manholes are now expected to be replaced given the bid pricing. The revised design provides
8 for increased pipe slopes on certain pipe segments that are currently very flat. A Construction
9 Issue set of plans was prepared accordingly and has been issued.

10 We provided the Township with quantities of materials for storm sewer piping for the
11 Township to order.

12 We have contacted PADEP about the procedure for amending the GP-11 permit to include the
13 additional wetland crossing at the upstream end of the project site to allow for additional
14 construction access off of Tanglewood Drive and are awaiting their direction. A revised /
15 supplemental permit application will be submitted pending their response.

16 A field survey stakeout of the existing easement and proposed limit of disturbance, which
17 extends outside the easement, was performed at the end of the Fox Glove Lane cul-de-sac for
18 use by the Township in discussing the need for temporary construction easements with the
19 two property owners.

20 Provided the contract is executed by January 13, the contractor intends to mobilize the week
21 of January 16 and begin pipe replacement on January 23, starting at the downstream end.
22 They will provide a detailed schedule after the second pre-construction meeting.

- 23 • Ridley Creek Exposed Sewer Rehab – A full PADEP permit application has been prepared
24 and will be submitted to PADEP in follow-up to the emergency authorization now that
25 construction has been completed.

26 **New Connections**

- 27 • 301 Reservoir Road – We reviewed a Land Development sketch plan for the 5-lot residential
28 subdivision and provided a comment letter including a comment that design and Sewage
29 Facilities Planning for a public sewer extension is required.
- 30 • 1671 and 1681 Strasburg Road – We performed a cursory review of a sketch plan for an
31 approximately 1,800-LF long low pressure sewer lateral to connect the proposed residential
32 property to the sewer main immediately upstream of the treatment plant.

33 **Industrial Pretreatment Ordinance**

- 34 • No activity since our last report. As discussed at the May 2021 MA meeting, a headworks
35 study with sampling at the RCSTP can be conducted to set contaminant limits.

37 **3. Big Fish Environmental Services –**

38 The Ridley Creek sewage treatment plant outfall 001 achieved compliance with all effluent
39 limitations regarding water quality for the month of December. All supplemental reports were
40 submitted for the month of November with the eDMR. Discharge to the Applebrook irrigation
41 lagoon remains offline. Chemical usage utilized for pH and total alkalinity remained consistent with

1 previous months. Aluminum sulfate solution volumes were slightly increased to a daily average of
2 72.6 as compared to the previous month at 70.0 gpd to achieve phosphorus removal. No significant
3 mechanical or operational issues were observed during operation of sludge dewatering equipment or
4 SBR treatment process. Sludge dewatering continues at around 500,000 gallons or more per month.
5 There were no odor complaints during the month.

6 7 **Approval of Minutes**

8 The minutes of the December 12, 2022 meeting were approved as amended.
9

10 **Approval of Invoices**

11 1. Jack moved to approve payment of the following Pennoni invoices:

- | | |
|--------------------------------|-------------|
| 12 a. Pennoni invoice #1150403 | \$ 861.51 |
| 13 b. Pennoni invoice #1150405 | \$ 9,690.50 |
| 14 c. Pennoni invoice #1150409 | \$ 3,384.75 |
| 15 d. Pennoni invoice #1150401 | \$ 1,178.75 |

16 Walter seconded the motion. The motion passed unanimously.
17

18 **Liaison Reports**

19 None
20

21 **Financial Reports**

22 2023 Budget – Dave reviewed the 2023 Municipal Authority Budget. Dana asked for a breakdown of
23 the components of the \$1,730,115. Dave reviewed the Revenue and Expenses of the 2023 Budget.
24 Kevin made a motion to adopt the 2023 Proposed Municipal Authority Budget with both revenue and
25 expenses of \$1,730,115.00 for a \$0 net result. Walter seconded the motion. The motion passed
26 unanimously.
27

28 **Old Business**

29 Hershey Mill Trunk Line – Mike Ellis mentioned that they had a meeting with the contractor. The
30 concern about the CFA grant delay was discussed. The low bidder is Joao & Bradley. After
31 discussion, Dana moved to approve the Intent to Award to Joao & Bradley for base bid and all
32 alternates in the amount of \$738,260. Jack seconded the motion. The motion passed unanimously.
33

34 **Goals**

35 The Goals were reviewed.
36

37 **New Business**

38 1. 2023 Goals - The MA members reviewed the 2022 Accomplishments and 2023 Goals Walter
39 prepared for the ABC meeting on January 31, 2023 at 6:30 pm

40 2. HME Construction Phase Proposal - Bid Assistance – Mike Ellis commented on the bid
41 assistance services Pennoni provided. The original Time and Materials was approved for an
42 estimated amount of \$7,500. The actual bid assistance was \$9,690.50. He is requesting approval for
43 the \$2,190.50 additional cost. Construction Phase – Mike reviewed the Construction Phase Services
44 that will be provided with an estimated fee range of \$50,000 to \$60,000. Dana moved to approve the
45 following: 1. Bid Assistance - \$2,190.50 additional fee.

46 2. Construction Phase estimated fees not to exceed \$60,000.

47 Jack seconded the motion. The motion passed unanimously.

1 **Capacity Requests**

2 **1, 1671 and 1681 E. Strasburg Road** - The owner wants sewage. These 2 lots are large and on the
3 north side of E. Strasburg Road. On the south side of E. Strasburg Road is Springhouse Lane where
4 several owners are interested in getting public sewage. After discussion, Mark will send a letter to
5 the Springhouse property owners to see how many are interested in public sewer. Mike will do a study
6 to determine the cost to the township and property owners.
7
8

9 **Any Other Matter** – Kevin thanked Walter for all that he did as Chairman last year.
10
11

12 **Correspondence-** None
13
14

15 **Public Comment -** None
16
17

18 **Adjournment**

19 There being no further business Jack moved to adjourn the meeting. Walter seconded the motion.
20 The motion passed unanimously. The meeting was adjourned at 8:30 pm.
21 The next regular meeting will be held on Monday, February 13, 2023 at 7:00 pm.
22

23 Respectfully submitted,
24
25

26 Ruth Kiefer, Recording Secretary



117 Prospect Street
Reading, PA 19606
Phone: 610-779-4230

INVOICE

Page No 1

OFFICE

P.O. Number	Authorization	Invoice#	Invoice Date	Terms	Order Date
	KEVIN	371365	1/20/23	Net 30 Days	1/03/23
Ship Via	Order #	Bill of Lading	Ppd/Col	Shipped From	Salesperson
CUST PICK UP	07391630			Downingtown, PA	Scott Siderio

Entered By: 503
01/20/23 14:10

Cust # 270260

Sold To EAST GOSHEN MUN. AUTH.
1580 PAOLI PIKE
WEST CHESTER PA 19380

Ship To EAST GOSHEN MUN. AUTH.
1580 PAOLI PIKE
WEST CHESTER PA 19380

Job Info

Ordered	B/O	Shipped	Our Stock #/Description/Your Part #	Unit Price	UM	Extended Price	CD%
1		1	*18-010808 8" X 8" WYE - C900 FACTORY UPS \$ 29.58	663.43	EA	663.43	
12		12	MAX-ADAPTER-8 MAXADAPTER MULTI RANGE NON-PRESSURE SEWER/DRANIAGE COUPLING 8" OD RANGE 8.40-10.15	206.06	EA	2,472.72	
18		18	MAX-ADAPTER-4 MAXADAPTER MULTI RANGE NON-PRESSURE SEWER/DRANIAGE COUPLING 4" OD RANGE 4.13-5.56	104.98	EA	1,889.64	

PAID

APPROVED BY: _____

DATE PAID: _____

CHECK #: _____

CHARGED TO: 07-424-7490

Cash Discount Available	Interest of 1.5% per Month on Past Due Invoices	Sub Total	Freight	Sales Tax	Invoice Total
		5,025.79		0.00	5,025.79

All merchandise returned for credit must be authorized and include order or invoice #. A service charge will apply. Title to the above materials shall remain in Exeter Supply Co., Inc. until the full purchase price is paid; that said materials shall not be removed by customer from place of delivery, sold, mortgaged, or otherwise encumbered, nor shall a lien be permitted to be acquired thereon by attachment, levy, or

otherwise; that said materials shall be kept insured by customer against loss or damage for the amount remaining due for the benefit of Exeter Supply Co., Inc. as its interest may appear; and that in default of paying when due, or if there is a breach of any of the above conditions, Exeter Supply Co., Inc. at its option may take immediate possession of said materials and supplies without notice.



117 Prospect Street
Reading, PA 19606
Phone: 610-779-4230

INVOICE

Page No 1

OFFICE

P.O. Number	Authorization	Invoice#	Invoice Date	Terms	Order Date
		371359	1/20/23	Net 30 Days	1/16/23
Ship Via	Order #	Bill of Lading	Ppd/Col	Shipped From	Salesperson
OUR TRUCK	07396743	DALE #44		Downingtown, PA	Scott Siderio

Cust # 270260

Entered By: 503
01/20/23 09:35

Sold To EAST GOSHEN MUN. AUTH.
1580 PAOLI PIKE
WEST CHESTER PA 19380

Ship To EAST GOSHEN MUN. AUTH.
1580 PAOLI PIKE
WEST CHESTER PA 19380

Job Info

Ordered	B/O	Shipped	Our Stock #/Description/Your Part #	Unit Price	UM	Extended Price	CD%
100		100	SDR18-6 SDR 18 PIPE 6"	17.30	FT	1,730.00	
120		120	SCH40-4BE SCH40 PVC BELL END PIPE 4"	7.60	FT	912.00	
			STEVE 610-656-8716				

PAID

APPROVED BY: 2/9/24

DATE PAID: _____

CHECK #: _____

CHARGED TO: 67-424-7490

Cash Discount Available	Interest of 1.5% per Month on Past Due Invoices	Sub Total	Freight	Sales Tax	Invoice Total
		2,642.00		0.00	2,642.00

All merchandise returned for credit must be authorized and include order or invoice #. A service charge will apply. Title to the above materials shall remain in Exeter Supply Co., Inc. until the full purchase price is paid; that said materials shall not be removed by customer from place of delivery, sold, mortgaged, or otherwise encumbered, nor shall a lien be permitted to be acquired thereon by attachment, levy, or

otherwise; that said materials shall be kept insured by customer against loss or damage for the amount remaining due for the benefit of Exeter Supply Co., Inc. as its interest may appear; and that in default of paying when due, or if there is a breach of any of the above conditions, Exeter Supply Co., Inc. at its option may take immediate possession of said materials and supplies without notice.



Invoice

Page: 1

Excelsior Blower Systems, Inc.
331 June Ave
Blandon, PA 19510
(610) 921-9558

Invoice Number: 0912367-IN
Invoice Date: 12/7/2022

Order Number: 0087921
Order Date: 11/8/2022
Salesperson: WW01
Customer Number: EAST055

Sold To:
EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA 19380

Ship To:
EAST GOSHEN TOWNSHIP
1751 TOWNE DRIVE
WEST CHESTER, PA 19380

Confirm To:
MARK MILLER

Phone No:
610 - 692 - 7171

Customer P.O. MARK MILLER	Ship VIA EBS DELIVERY	Freight Terms PP & ALLOW	F.O.B. BLANDON, PA	Terms NET 30 DAYS		
Item Code	Unit	Ordered	Shipped	Back Ordered	Price	Amount
106-HF408-LHBD-CCW		HF408-LHBD CCW ROT, H'				
	EACH	1	1	0	5,221.00	5,221.00
S/N S661088						

APPROVED BY: MM
DATE PAID: _____
CHECK #: _____
CHARGED TO: 07429.1505
Capital Ridley
Blower

2/9/23
PAID

12/20/2022 REMIT TO: Excelsior Blower Sys
331 June Ave BLANDON, PA 19510

Net Invoice: 5,221.00
Less Discount: 0.00
Freight: 0.00
Sales Tax: 0.00
Invoice Total: \$ 5,221.00

All Prices in US Dollars. Terms and Conditions of Sale 1.2 apply
Available at www.excelsiorblower.com/terms-conditions/



INVOICE

Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

Mark Miller
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1155970
Invoice Date : 02/09/2023
Project : EGMAU21004
Project Name : HM Estates Sewer
Design & Permitting

For Services Rendered Through 01/15/2023

Construction phase support: Reviewed revised endwall and manhole submittals, issued Intent to Award and Manhole/Endwall purchase commitment letters to contractor; reviewed bypass pumping plan submittal; attended pre-application virtual meeting with PADEP about additional permitting for wetlands crossing for additional Tanglewood Dr access; prepared and issued Construction Issue plan set; prepared storm sewer pipe quantities for Township ordering of materials; prepared for and conducted pre-construction meeting #2 including site visit with contractor; prepared GP-8 permit application for additional wetlands crossing; prepared contract award letter to contractor; reviewed contractor's bonds and insurance; prepared Notice to Proceed letter; coordinated with supplier for lateral materials and fittings to be ordered by the Township; performed survey stakeout of easement and proposed Limit of Disturbance at end of Fox Glove Ln; obtained LSA grant updates from PA DCED; coordinated with Township to sign construction contract; and performed site inspections during site prep work.

Phase Code / Name		Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
01 -- Wetland & Watercourse Investigation		\$6,750.00	\$6,750.00	100.00%	\$6,750.00	\$0.00
02 -- Phase I Bog Turtle Habitat Assessment		\$6,750.00	\$6,750.00	100.00%	\$6,750.00	\$0.00
03 -- Survey		\$17,200.00	\$17,200.00	100.00%	\$17,200.00	\$0.00
04 -- Design		\$26,100.00	\$26,100.00	100.00%	\$26,100.00	\$0.00
05 -- Permitting		\$8,000.00	\$8,000.00	100.00%	\$8,000.00	\$0.00
06 -- Property Line Stakeout	est.	\$5,000.00	\$7,520.50		\$7,520.50	\$0.00
07 -- Geotechnical	NTE	\$10,000.00	\$6,271.25	62.71%	\$6,271.25	\$0.00
08 -- Bid Assistance	NTE	\$9,690.50	\$9,690.50	100.00%	\$9,690.50	\$0.00
09 -- Construction Admin & Inspection	NTE	\$60,000.00	\$1,386.00	16.79%	\$10,076.50	\$8,690.50
Total :		\$149,490.50	\$89,668.25		\$98,358.75	\$8,690.50

Phase: 09 -- Construction Admin & Inspection

Labor

Class	Hours	Rate	Amount
Survey Crew	8.00	200.00	1,600.00
Authority Engineer	4.50	149.00	670.50
Authority Engineer	8.75	141.00	1,233.75
Senior Professional	3.00	134.00	402.00
Associate Professional	14.75	111.00	1,637.25
Sr. Eng Tech	5.50	107.00	588.50
Associate Professional	21.00	105.00	2,205.00
Sr. Eng Tech	3.50	101.00	353.50

Labor

8,690.50

Phase Subtotal

\$8,690.50

Continued on next page...

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

Project	EGMAU21004	HM Estates Sewer Design & Permitting	Invoice	1155970
Amount Due This Invoice				\$8,690.50

Outstanding Invoices

Number	Date	Balance
1150405	12/29/2022	2,951.60
Total		2,951.60

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

West Goshen HM Estates Sewer Design Permitting
EGMAU21004 Invoice Summary
Invoice Date 2/9/2023

Project: EGMAU21004
Pennoni Job No.: HM Estates Sewer Design & Permitting
Invoice No: 1155970
Invoice Period: 12/19/2022 to 1/15/2023
Initial Authorization: \$ 64,800.00 **Date:** 2/9/2023
Contract Amount: \$ 149,490.50
Previously Invoiced: \$ 89,668.25
Current Invoice: \$ 8,690.50
Invoiced to Date (\$): \$ 98,358.75
Invoiced to Date (%): 66%
Remaining Budget (\$): \$ 51,131.75
Remaining Budget (%): 34%

Budget by Phase:

Phase Name: HM Estates Sewer Design & Permitting
Phase Budget: \$ 149,490.50
Previously Invoiced: \$ 89,668.25
Current Invoice: \$ 8,690.50
Invoiced to Date (\$): \$ 98,358.75
Invoiced to Date (%): 66%
Remaining Budget (\$): \$ 51,131.75
Remaining Budget (%): 34%

Comments: Construction phase support: Reviewed revised endwall and manhole submittals, issued Intent to Award and Manhole/Endwall purchase commitment letters to contractor; reviewed bypass pumping plan submittal; attended pre-application virtual meeting with PADEP about additional permitting for wetlands crossing for additional Tanglewood Dr access; prepared and issued Construction Issue plan set; prepared storm sewer pipe quantities for Township ordering of materials; prepared for and conducted pre-construction meeting #2 including site visit with contractor; prepared GP-8 permit application for additional wetlands crossing; prepared contract award letter to contractor; reviewed contractor's bonds and insurance; prepared Notice to Proceed letter; coordinated with supplier for lateral materials and fittings to be ordered by the Township; performed survey stakeout of easement and proposed Limit of Disturbance at end of Fox Glove Ln; obtained LSA grant updates from PA DCED; coordinated with Township to sign construction contract; and performed site inspections during site prep work.



INVOICE

Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328

Mark Miller
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199

Invoice No : 1155971
Invoice Date : 02/09/2023
Project : EGMAU23001
Project Name : 2023 General
Services

For Services Rendered Through 01/15/2023


Prepared Engineer's Report; prepared for and attended January MA meeting including review of January RCSTP operator's report; reviewed engineering sketch plan for 1671 Strasburg Rd sewer connection to the RCSTP influent sewer main; continued design, scoping, and supplier coordination for RCSTP Generator #2 replacement and quote; initiated Spring House Ln sewer extension study including field visit to evaluate conditions and obtain existing manhole depth measurements; and updated GP-11 official permit application for Ridley Creek sewer encasement as required by PADEP.

Billing Limits	Current	Prior	To-Date
Total Billings	2,294.00	0.00	2,294.00
Limit			30,000.00
Remaining			27,706.00

Labor

	Hours	Rate	Amount
Authority Engineer	6.75	149.00	1,005.75
Senior Professional	3.00	145.00	435.00
Associate Professional	.75	111.00	83.25
Graduate Professional	6.50	102.00	663.00
Sr. Eng Tech	1.00	107.00	107.00
Totals	18.00		2,294.00
Total Labor			2,294.00

Total this Invoice \$2,294.00

 2/9/23

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

2023 General Services
EGMAU23001Invoice Summary
Invoice Date 2/9/2023

Project: EGMAU23001
Pennoni Job No.: 2023 General Services
Invoice No: 1155971
Invoice Period: 1/1/2023 to 1/15/2023
Initial Authorization: \$ 30,000.00 **Date:** 2/9/2023
Contract Amount: \$ 30,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 2,294.00
Invoiced to Date (\$): \$ 2,294.00
Invoiced to Date (%): 8%
Remaining Budget (\$): \$ 27,706.00
Remaining Budget (%): 92%

Budget by Phase:

Phase Name: 2023 General Services
Phase Budget: \$ 30,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 2,294.00
Invoiced to Date (\$): \$ 2,294.00
Invoiced to Date (%): 8%
Remaining Budget (\$): \$ 27,706.00
Remaining Budget (%): 92%

Comments: Prepared Engineer's Report; prepared for and attended January MA meeting including review of January RCSTP operator's report; reviewed engineering sketch plan for 1671 Strasburg Rd sewer connection to the RCSTP influent sewer main; continued design, scoping, and supplier coordination for RCSTP Generator #2 replacement and quote; initiated Spring House Ln sewer extension study including field visit to evaluate conditions and obtain existing manhole depth measurements; and updated GP-11 official permit application for Ridley Creek sewer encasement as required by PADEP.

Memo

To: Municipal Authority
From: Dave Ware
Re: MA December 2022 Financial Report
Date: February 8, 2023

In January 2023, the Municipal Authority recorded \$80,014 in revenues (primarily from Sewer Operating and Sewer Capital Reserve transfers) and \$76,291 in expenses (General Engineering Services, Hershey's Mill Estates Sewer engineering costs, caustic soda engineering, UV engineering, and capital costs at the Ridley Creek Sanitary Treatment Plant), for a net result of operations of \$3,723. As of January 31, 2023, the fund balance was \$8,895.

Attached is a complete list of 2023 full year MA revenues and expenses.

EAST GOSHEN TOWNSHIP
Municipal Authority Fund
January 2023

Account Id	Account Description	Annual Budget	Current YTD	Prior YTD
<u>REVENUE</u>				
07-341-1000	INTEREST EARNINGS	0.00	2.65	0.19
07-354-0400	DCED GRANT	152,980.00	0	0
07-364-1100	C.C. TAPPING FEES	2,300.00	0.00	0.00
07-364-1110	R.C.TAPPING FEES	2,000.00	297.84	0.00
07-364-1130	CONNECTION FEES - SEWER	1,000.00	281.88	0.00
07-380-1000	MISCELLANEOUS REVENUE	282.24	141.12	0.00
07-392-0500	TRANSFER FROM SEWER OPERATING	100,000.00	20,957.18	5,497.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	1,471,553.00	58,333.71	18,986.13
	Total Revenue	1,730,115.24	80,014.38	24,483.32
<u>EXPENSES</u>				
07-424-1400	ADMINISTRATIVE WAGES	32,055.45	0.00	0.00
07-424-3000	MISCELLANEOUS EXPENSE	1,748.79	0.00	880.25
07-424-3110	MUNIC.AUTH.-AUDITING	10,815.00	0.00	0.00
07-424-3130	ENGINEERING SERVICES	47,250.00	3,384.75	4,076.75
07-424-3140	LEGAL SERVICES	8,400.00	0.00	540.00
07-424-7440	R.C. CAPITAL-STP	355,793.00	0	0
07-424-7490	CAP.REPLACEMENT R.C.	488,847.00	6,905	0.00
07-426-3001	RELINING	260,000.00	0	0
07-429-1501	BARKWAY PUMP STATION CAPITAL	0.00	0.00	2,215.00
07-429-1502	ASHBRIDGE PUMP STATION CAPITAL	0.00	0.00	0.00
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	78,000.00	17,358.29	17,816.70
07-429-1504	HUNT CO PUMP STATION CAPITAL	0.00	0.00	1,870.00
07-429-1505	RCSTP CAPITAL	260,000.00	48,643.21	0.00
07-429-6100	WEST GOSHEN CAPITAL	187,206.00	0	0
07-491-5001	BANK FEES	0.00	0	0.00
07-492-0100	TRANSFER TO GENERAL FUND	0.00	0.00	0
	Total Expenses	1,730,115.24	76,290.89	27,398.70
	Net Result From Operations	0.00	3,723.49	-2,915.38

Municipal Authority
YTD Revenues and Expenses thru 1/31/2023

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-341-1000	INTEREST EARNINGS	01/06/23	Revenue Journal	INTEREST EARNED DECEMBER 2022	0.93
07-341-1000	INTEREST EARNINGS	01/18/23	Revenue Journal	Reverse Dec 2022 Interest	-0.93
07-341-1000	INTEREST EARNINGS	01/31/23	Revenue Journal	INTEREST EARNED JAN 2023	2.65
07-364-1110	R.C.TAPPING FEES	01/01/23	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1130	CONNECTION FEES - SEWER	01/27/23	Revenue Journal	CONNECTION FEE INSTALLMENT INV# 12838	281.88
07-380-1000	MISCELLANEOUS REVENUE	01/27/23	Revenue Journal	PINE ROCK INTEREST PORTION - STOFFLET	141.12
07-392-0500	TRANSFER FROM SEWER OPERATING	01/20/23	Revenue Journal	XFER TO 07 FROM 05 RE: MA EXPENSES	3,384.75
07-392-0500	TRANSFER FROM SEWER OPERATING	01/30/23	Revenue Journal	XFER \$ TO MA07 FROM 05-SEWER	14,572.43
07-392-0500	TRANSFER FROM SEWER OPERATING	01/31/23	Revenue Journal	XFER \$ FROM 05 TO 07 RE: MA EXPENSES	3,000.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/12/23	Revenue Journal	XFER \$ FROM 09 TO 07 TO COVER CAP.EXP.	41,381.95
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/20/23	Revenue Journal	XFER TO 07 FROM 09 RE: MA EXPENSES	11,730.76
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/30/23	Revenue Journal	XFER \$ TO MA07 FROM 09- SEWER CAP	5,221.00
07-424-3130	ENGINEERING SERVICES	01/20/23	Pay Check: 3379	23-00111 SERV.THUR 12/18/22 GEN.SERV.22	3,384.75
07-424-7490	CAP.REPLACEMENT R.C.	01/27/23	Pay Check: 3381	23-00148 WATER TIGHT CASTINGS & LIDS	6,904.64
07-424-7490	CAP.REPLACEMENT R.C.	01/27/23	Pay Check: 3382	23-00153 6"SDR 18 AND 4"SCH 40 PVC PIPE	2,642.00
07-424-7490	CAP.REPLACEMENT R.C.	01/27/23	Pay Check: 3382	23-00152 8"X8"WYE MAX ADAPTER 4" AND 8"	5,025.79
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	01/20/23	Pay Check: 3379	23-00110 SERV.THUR 12/18/22 HM EST SEWR	9,690.50
07-429-1505	RCSTP CAPITAL	01/10/23	Pay Check: 3377	23-00030 CONDUITS, STRAPS, LOCKNUTS +	1,161.95
07-429-1505	RCSTP CAPITAL	01/10/23	Pay Check: 3378	23-00075 PULSAFEEDER - RCSPT CAUSTIC SO	40,220.00
07-429-1505	RCSTP CAPITAL	01/20/23	Pay Check: 3379	23-00109 SERV.THUR 12/18/22 RCSTP SODA	861.51
07-429-1505	RCSTP CAPITAL	01/20/23	Pay Check: 3379	23-00112 SERV.THUR 12/18/22 RCSTP UV	1,178.75
07-429-1505	RCSTP CAPITAL	01/27/23	Pay Check: 3380	23-00151 HELIFLOW 408 PD BLOWER	5,221.00

MEMORANDUM

TO: Mark Miller, Public Works Director
CC: Derek Davis, Township Manager
East Goshen Municipal Authority
FROM: Michael Ellis, PE
DATE: February 9, 2023
SUBJECT: East Strasburg Road Sewer Extension

This memo outlines the analysis and cost estimate to extend public sanitary sewer to 1671 and 1681 East Strasburg Road.

BACKGROUND

The property owner of 1671 and 1681 East Strasburg Road is planning to construct a new house and barn within the current parcel areas. Although there appears to be space for an on-lot disposal system, the owner would prefer a sanitary sewer connection. The following is a review of the alternatives associated with a sanitary sewer connection.

Alternative 1 is a service connection via low pressure sewer system to the existing sewer main near the Ridley Creek STP. Alternatives 2, 3A, and 3B are public sewer extensions.

ALTERNATIVE 1

The first alternative to run private low pressure sewer across Ridley Creek to the north of the parcels and tie close to the RCSTP was reviewed. Alternative 1 will require the following:

- Preparation of plans with design calculations for the proposed private grinder pump to confirm it will work
- Recorded Grinder Pump Operation & Maintenance Agreement
- Sewage Facilities Planning exemption from PADEP
- Easements from the Township on Parcels 53-4-134.8 and 53-4-578
- PADEP permit for piping under the Ridley Creek; this would likely be through a General Permit GP-5 "Utility Line Stream Crossings". This will also likely require a topographic field survey for the permit plans.
 - A PNDI environmental search receipt will be required. The PNDI receipt will almost certainly require a wetlands and bog turtle habitat assessment since there will likely be work to connect to the sewer main in the wetlands immediately upstream of the RCSTP.
 - The assessment that we commissioned for the Reservoir Rd Pump Station project concluded that the area upstream of the RCSTP IS bog turtle habitat. Therefore, approval of US Fish & Wildlife Service for bog turtle protective measures is expected to be required. Those measures will likely necessitate the applicant provide an environmental scientist on-site during construction to monitor for bog turtles with time-of-year restrictions, but there may be other requirements.
 - Chester County Conservation District approval of E&S plans is required for GP-5 permits.

- PADEP permit for temporary disturbance to wetlands, assuming that the connection to the existing sewer main would be in the wetlands area upstream of the RCSTP
- Township policy is not to tie pressure service pipes directly into the Township's gravity sewer main. If that is the case here, they would need to tap the sewer main and run a gravity lateral the distance the Township will be responsible for, typically approximately 10 feet. This lateral is anticipated to be entirely within wetlands, so it may be preferable in this circumstance for the pressure pipe to connect directly to the main to minimize the potential for I&I into a gravity lateral and cleanout. The property owner would potentially be responsible for the service line all the way to the main in this situation.

In total, we estimate the Alternative 1 project cost would be approximately **\$160,000**.

ALTERNATIVES 2, 3A, & 3B

These alternatives evaluate extension of public sewer. The public sewer extension would also allow for connection of other existing and future dwellings that are currently on septic systems to public sewer in the immediate area in addition to connection of the subject property.

Alternative 2 proposes to extend gravity sewer to the edge of 1671 East Strasburg Road, tying into an existing manhole south of the Spring House Lane cul-de-sac near Hunters Run (see Exhibit 1 – Sewer Extension Study – Gravity Sewer and Gravity Sewer Profile – Alternative 2).

The potential to extend gravity sewer to the existing manhole west of Spring House Lane (manhole indicated within Exhibit 1 – Sewer Extension Study – Gravity Sewer) is not feasible as the proposed gravity sewer from the subject property is around 12 feet deep at MH-5 (see Gravity Sewer Profile – Alternative 2). Extending to this location at PADEP minimum slope would require the existing manhole to be at least 17 feet deep assuming a manhole rim elevation of 413.00. Existing GIS information regarding the pipe depth at this manhole indicates the 8" pipe is 4.5 feet deep, thus it is not feasible to extend to this location via gravity sewer.

Alternative 3A proposes to run low pressure sewer to the edge of 1671 East Strasburg Road, tying into the existing manhole south of the Spring House Lane cul-de-sac near Hunters Run (See Exhibit 2 – Sewer Extension Study – Low Pressure Sewer).

Alternative 3B proposes to run low pressure sewer to the edge of 1671 East Strasburg Road, tying into an existing manhole west of Spring House Lane on East Strasburg Road (see Exhibit 2).

Attached are cost opinions for each alternative.

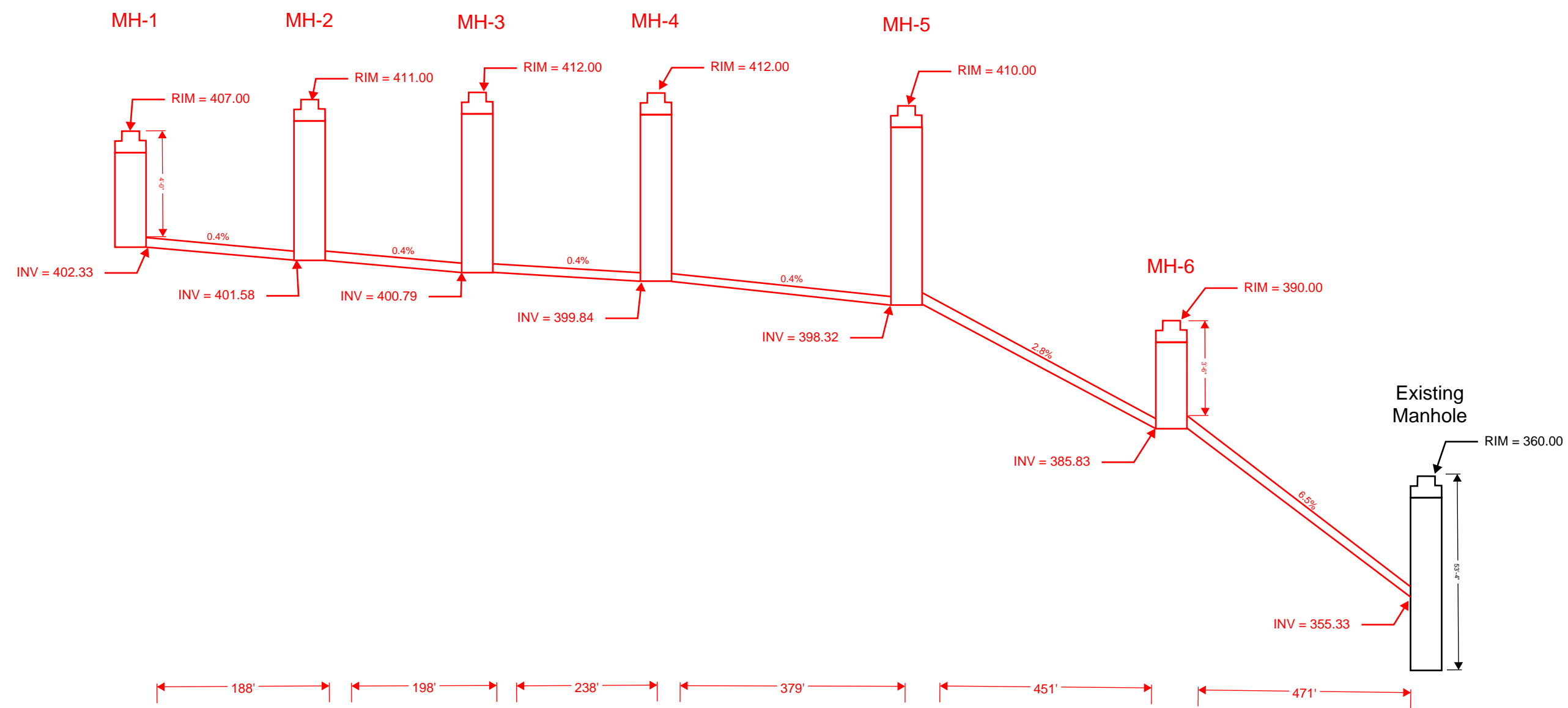
LIST OF ATTACHMENTS

- Exhibit 1 – Sewer Extension Study – Gravity Sewer
- Gravity Sewer Profile – Alternative 2
- Cost Estimate – Alternative 2
- Exhibit 2 – Sewer Extension Study – Low Pressure Sewer
- Cost Estimate – Alternative 3A and 3B



Exhibit 1 of 2.	Sewer Extension Study - Gravity			Alternative 2 Proposed Manholes Pump Station Sewage Treatment Plant	Existing Manholes Permanent Meters Portable Meters (2020) Township Boundary	Sanitary Sewer Force Main Parcels Ponds & Lakes	East Whiteland Service Area Hershey's Mill Service Area Ridley Creek Service Area West Goshen Service Area Westtown Service Area	Contours Major Contours Minor 1 inch = 125 feet
	East Strasburg Road							
	EGMAU23001							

Concept Gravity Sewer Profile - Alternative 2



Cost Opinion - East Strasburg Road Gravity Sewer - Alternative 2				
Cost Item	Unit	Unit Price	Quantity	Cost
Gravity Sewer - 8" Sanitary Pipe	LF	\$250.00	1925	\$ 481,250
Driveway Repaving	SY	\$80.00	32	\$ 2,560
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	1033	\$ 103,333
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Lateral Installation	EA	\$3,500.00	4	\$ 14,000
Manhole	EA	\$7,000.00	6	\$ 42,000
Subtotal Construction Cost				\$ 688,143
Mobilization/Demobilization	%	6%		\$ 42,000
Contingency	%	25%		\$ 173,000
Construction Cost Opinion				\$ 903,143
Legal/Administrative/Engineering	%	15%		\$ 136,000
Opinion of Probable Project Cost for Public Improvements				\$ 1,039,143
Cost of Public Improvements per Property			4	\$ 259,800
Opinion of Probable Project Cost for each Property Owner				\$ 260,000.00

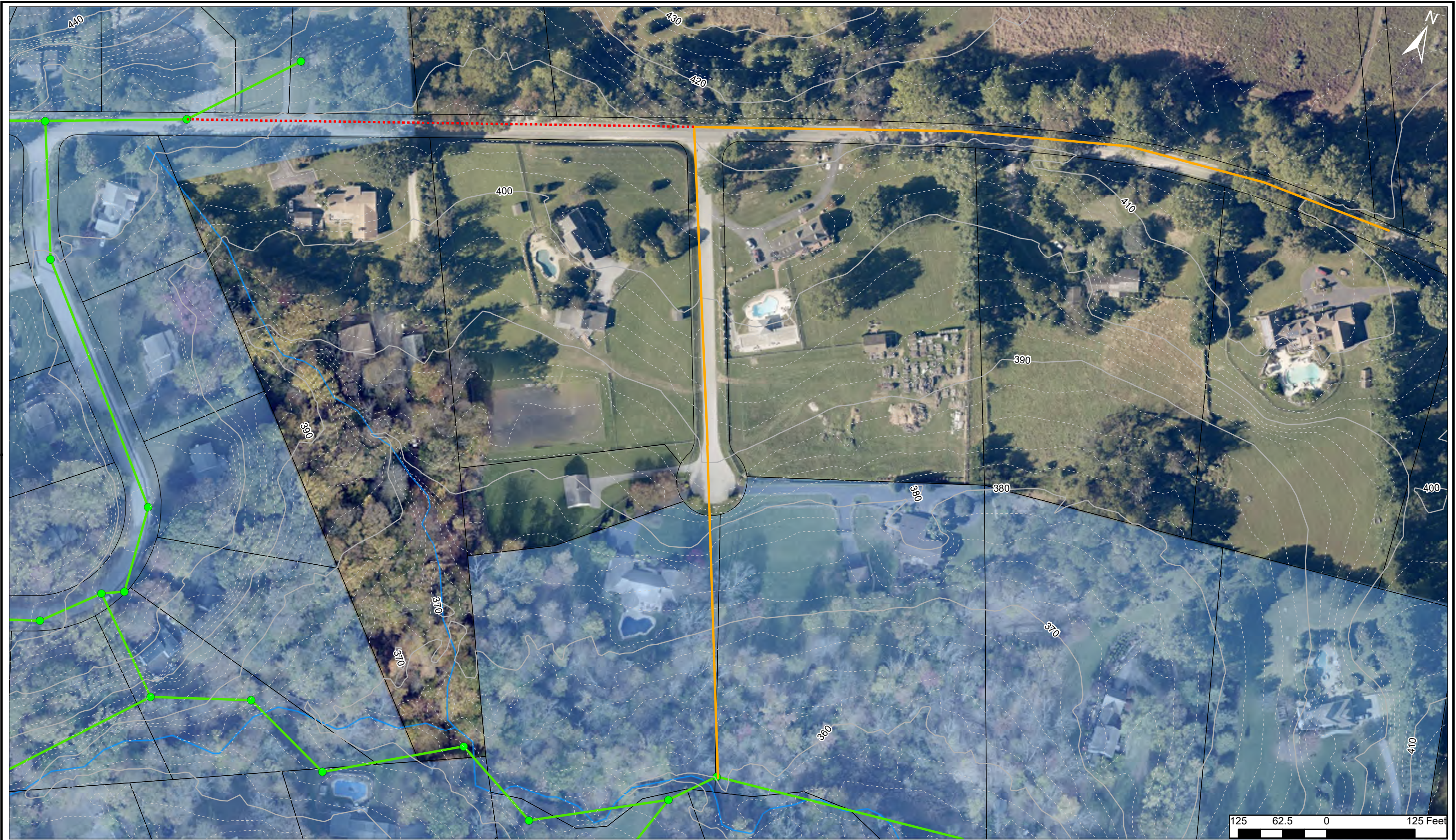


Exhibit 2 of 2.	Sewer Extension Study - Low Pressure Sewer			Alternative 3A Alternative 3B Pump Station Sewage Treatment Plant	Existing Manholes Permanent Meters Portable Meters (2020) Township Boundary	Sanitary Sewer Forcemain Parcels Ponds & Lakes	East Whiteland Service Area Hershey's Mill Service Area Ridley Creek Service Area West Goshen Service Area Westtown Service Area	Contours Major Contours Minor 1 inch = 125 feet	Data Sources: PASDA, Chester County GIS, East Goshen Township
	East Strasburg Road								
	EGMAU23001								

Cost Opinion - East Strasburg Road Low Pressure Sewer - Alternative 3A				
Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	1925	\$ 240,625
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	50	\$ 5,000
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump and Installation	EA	\$15,000.00	4	\$ 60,000
Subtotal Construction Cost				\$ 350,625
Mobilization/Demobilization	%	6%		\$ 22,000
Contingency	%	25%		\$ 88,000
Construction Cost Opinion				\$ 460,625
Legal/Administrative/Engineering	%	15%		\$ 70,000
Opinion of Probable Project Cost for Public Improvements				\$ 530,625
Cost of Public Improvements per Property			4	\$ 132,656
Opinion of Probable Project Cost for each Property Owner				\$ 133,000.00

Cost Opinion - East Strasburg Road Low Pressure Sewer - Alternative 3B				
Cost Item	Unit	Unit Price	Quantity	Cost
Low Pressure Sewer	LF	\$125.00	1722	\$ 215,250
Roadway Restoration (5" Base Course, 1.5" Wearing Course)	SY	\$100.00	50	\$ 5,000
Lawn Restoration	LS	\$5,000.00	1	\$ 5,000
Erosion and Sediment Control	LS	\$5,000.00	1	\$ 5,000
Temporary Facilities/Traffic Control	LS	\$10,000.00	1	\$ 10,000
Site Preparation	LS	\$15,000.00	1	\$ 15,000
Survey and Layout	LS	\$10,000.00	1	\$ 10,000
Grinder Pump and Installation	EA	\$15,000.00	4	\$ 60,000
Subtotal Construction Cost				\$ 325,250
Mobilization/Demobilization	%	6%		\$ 20,000
Contingency	%	25%		\$ 82,000
Construction Cost Opinion				\$ 427,250
Legal/Administrative/Engineering	%	15%		\$ 65,000
Opinion of Probable Project Cost for Public Improvements				\$ 492,250
Cost of Public Improvements per Property			4	\$ 123,063
Opinion of Probable Project Cost for each Property Owner				\$ 124,000.00

January 16, 2023

To the Board of the Authority
c/o Mr. Walter Wujcik, Chairman
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6107

You have requested that we audit the statement of net position of the East Goshen Municipal Authority as of December 31, 2022, and the related statements of revenues, expenses and changes in net position and cash flows for the year then ended and the related notes to the financial statements, which collectively comprise the East Goshen Municipal Authority's basic financial statements. We are pleased to confirm our acceptance and our understanding of this audit engagement by means of this letter. Our audit will be conducted with the objective of our expressing an opinion on the financial statements.

Accounting principles generally accepted in the United States of America (U.S. GAAP) require that management's discussion and analysis and budgetary comparison information be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. As part of our engagement, we will apply certain limited procedures to the required supplementary information (RSI) in accordance with auditing standards generally accepted in the United States of America (U.S. GAAS). These limited procedures will consist primarily of inquiries of management regarding their methods of measurement and presentation, and comparing the information for consistency with management's responses to our inquiries. We will not express an opinion or provide any form of assurance on the RSI. The following RSI is required by U.S. GAAP. This RSI will be subjected to certain limited procedures but will not be audited:

1. Management's Discussion and Analysis

The objectives of our audit are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with auditing standards generally accepted in the United States of America (GAAS) will always detect a material misstatement when it exists. Misstatements, including omissions, can arise from fraud or error and are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

AUDITOR RESPONSIBILITIES

We will conduct our audit in accordance with GAAS. As part of an audit in accordance with GAAS, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, fraudulent financial reporting, misappropriation of assets, or violations of laws, governmental regulations, grant agreements, or contractual agreements, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.

To the Board of the Authority
c/o Mr. Walter Wujcik, Chairman
East Goshen Municipal Authority
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- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. However, we will communicate to you in writing concerning any significant deficiencies or material weaknesses in internal control relevant to the audit of the financial statements that we have identified during the audit.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation. If appropriate, our procedures will therefore include tests of documentary evidence that support the transactions recorded in the accounts, tests of the physical existence of inventories, and direct confirmation of cash, investments, and certain other assets and liabilities by correspondence with third parties (e.g., creditors or financial institutions). As part of our audit process, we will request written representations from your attorneys, and they may bill you for responding. At the conclusion of our audit, we will also request certain written representations from you about the financial statements and related matters.
- Obtain reasonable assurance about whether the financial statements are free of material misstatement, and will perform tests of the East Goshen Municipal Authority's compliance with certain provisions of laws, regulations, contracts and grants that could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions is not an objective of our audit, and, accordingly, we will not express such an opinion.
- Conclude, based on the audit evidence obtained, whether there are conditions or events, considered in the aggregate, that raise substantial doubt about East Goshen Municipal Authority's ability to continue as a going concern for a reasonable period of time.

Because of the inherent limitations of an audit, together with the inherent limitations of internal control, an unavoidable risk exists that some material misstatements (whether caused by errors, fraudulent financial reporting, misappropriation of assets, or violations of laws or governmental regulations) may not be detected by our firm, even though our audit is properly planned and performed in accordance with GAAS.

In addition, an audit is not designed to detect immaterial misstatements or violations of laws or governmental regulations that do not have a direct and material effect on the financial statements. However, we will inform you of any material errors that come to our attention, and we will inform you, or the appropriate level of management, of any fraudulent financial reporting or misappropriation of assets that comes to our attention. We will also inform you of any violations of laws or governmental regulations that come to our attention, unless clearly inconsequential.

In making our risk assessments, we consider internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. However, we will communicate to you in writing concerning any significant deficiencies or material weaknesses in internal control relevant to the audit of the financial statements that we have identified during the audit.

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East Goshen Municipal Authority
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As this engagement is not designed to be a fraud audit, management understands and accepts the inherent limitations of the audit services described in this agreement. Our responsibility as auditors is limited to the period covered by our audit and does not extend to any other periods.

COMPLIANCE WITH LAWS AND REGULATIONS

As previously discussed, as part of obtaining reasonable assurance about whether the basic financial statements are free of material misstatement, we will perform tests of East Goshen Municipal Authority's compliance with the provisions of applicable laws, regulations, contracts, and agreements. However, the objective of our audit will not be to provide an opinion on overall compliance, and we will not express such an opinion.

REPORTING

We will issue a written report upon completion of our audit of the East Goshen Municipal Authority's basic financial statements. Our report will be addressed to the governing body of the East Goshen Municipal Authority. We cannot provide assurance that an unmodified opinion will be expressed. Circumstances may arise in which it is necessary for us to modify our opinion, add an emphasis-of-matter or other-matter paragraph(s), or withdraw from the engagement.

MANAGEMENT RESPONSIBILITIES

Our audit will be conducted on the basis that management and those charged with governance acknowledge and understand that they have responsibility:

1. For the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America;
2. For the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to error, fraudulent financial reporting, misappropriation of assets, or violations of laws, governmental regulations, grant agreements, or contractual agreements;
3. To provide us with:
 - a. Access to all information of which management is aware that is relevant to the preparation and fair presentation of the financial statements, such as records, documentation and other matters;
 - b. Additional information that we may request from management for the purpose of the audit; and
 - c. Unrestricted access to persons within the entity from whom we determine it necessary to obtain audit evidence.

To the Board of the Authority
c/o Mr. Walter Wujcik, Chairman
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- d. A written acknowledgement of all the documents that management expects to issue that will be included in the annual report and the planned timing and method of issuance of that annual report, if applicable; and

A final version of the annual report (including all the documents that, together, comprise the annual report) in a timely manner prior to the date of the auditor's report, if applicable.

4. For including the auditors' report in any document containing financial statements that indicates that such financial statements have been audited by the entity's auditor;
5. For identifying and ensuring that the entity complies with the laws and regulations applicable to its activities; and
6. For adjusting the financial statements to correct material misstatements and confirming to us in the management representation letter that the effects of any uncorrected misstatements aggregated by us during the current engagement and pertaining to the current year under audit are immaterial, both individually and in the aggregate, to the financial statements as a whole; and
7. For acceptance of nonattest services, including identifying the proper party to oversee nonattest work; and
8. For maintaining adequate records, selecting and applying accounting principles, and safeguarding assets; and
9. For informing us of any known or suspected fraud affecting the entity involving management, employees with significant role in internal control and others where fraud could have a material effect on the financials; and
10. For the accuracy and completeness of all information provided; and
11. For informing us of events occurring or facts discovered subsequent to the date of the financial statements that may affect the financial statements.

Nonattest Services

We will perform the following nonattest services:

1. Preparation of financial statements based on your trial balances.
2. Preparation of concise statement for publication.
3. Preparation of the Commonwealth of Pennsylvania Department of Community and Economic Development Municipal Annual Audit and Financial Report.
4. Preparation of GASB 87 lease amortization schedules.

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We will not assume management responsibilities on behalf of East Goshen Municipal Authority. However, we will provide advice and recommendations to assist management of East Goshen Municipal Authority in performing its responsibilities.

With respect to any nonattest services we perform, the East Goshen Municipal Authority's management is responsible for (a) making all management decisions and performing all management functions; (b) assigning a competent individual to oversee the services; (c) evaluating the adequacy of the services performed; (d) evaluating and accepting responsibility for the results of the services performed and (e) establishing and maintaining internal controls, including monitoring ongoing activities.

As part of our audit process, we will request from management and those charged with governance, written confirmation concerning representations made to us in connection with the audit, including your understanding of your responsibilities as defined in this letter to us in your management representation letter.

Our responsibilities and limitations of the nonattest services are as follows:

- We will perform the services in accordance with applicable professional standards.
- The nonattest services are limited to the services previously outlined above. Our firm, in its sole professional judgment, reserves the right to refuse to do any procedure or take any action that could be construed as making management decisions or assuming management responsibilities, including determining account coding and approving journal entries.

OTHER

We understand that your employees will prepare all confirmations we request and will locate any documents or invoices selected by us for testing.

If you intend to publish or otherwise reproduce the financial statements and make reference to our firm, you agree to provide us with printers' proofs or masters for our review and approval before printing. You also agree to provide us with a copy of the final reproduced material for our approval before it is distributed.

In accordance with the terms and conditions of this agreement, East Goshen Municipal Authority shall be responsible for the accuracy and completeness of all data, information and representations provided to us for purposes of this engagement. Because of the importance of oral and written management representations to the effective performance of our services, East Goshen Municipal Authority releases and indemnifies our firm and its personnel from any and all claims, liabilities, costs and expenses attributable to any misrepresentation by management and its representatives.

To the Board of the Authority
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East Goshen Municipal Authority
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In connection with this engagement, we may communicate with you or others via email transmission. We take reasonable measures to secure your confidential information in our email transmissions. However, as email can be intercepted and read, disclosed, or otherwise used or communicated by an unintended third party, or may not be delivered to each of the parties to whom it is directed and only to such parties, we cannot guarantee or warrant that email from us will be properly delivered and read only by the addressee. Therefore, we specifically disclaim and waive any liability or responsibility whatsoever for interception or unintentional disclosure or communication of email transmissions, or for the unauthorized use or failed delivery of email transmitted by us in connection with the performance of this engagement. In that regard, you agree that we shall have no liability for any loss or damage to any person or entity resulting from the use of email transmissions, including any consequential, incidental, direct, indirect, or special damages, such as loss of sales or anticipated profits, or disclosure or communication of confidential or proprietary information.

We may from time to time and depending on the circumstances and nature of the services we are providing, share your confidential information with third-party service providers, some of whom may be cloud-based, but we remain committed to maintaining the confidentiality and security of your information. Accordingly, we maintain internal policies, procedures and safeguards to protect the confidentiality of your personal information. In addition, we will secure confidentiality terms with all service providers to maintain the confidentiality of your information and will take reasonable precautions to determine that they have appropriate procedures in place to prevent the unauthorized release of your confidential information to others. In the event that we are unable to secure appropriate confidentiality terms with a third-party service provider, you will be asked to provide your consent prior to the sharing of your confidential information with the third-party service provider. Although we will use our best efforts to make the sharing of your information with such third parties secure from unauthorized access, no completely secure system for electronic data transfer exists. As such, by your signature below, you understand that the firm makes no warranty, expressed or implied, on the security of electronic data transfers.

Regarding the electronic dissemination of audited financial statements, including financial statements published electronically on your Internet website, you understand that electronic sites are a means to distribute information and, therefore, we are not required to read the information contained in these sites or to consider the consistency of other information in the electronic site with the original document.

During the course of the engagement, we may communicate with you or your personnel via fax or e-mail, and you should be aware that communication in those mediums contains a risk of misdirected or intercepted communications.

Dale R. Umbenhauer, CPA, is the engagement principal for the audit services specified in this letter. His responsibilities include supervising Maillie LLP's services performed as part of this engagement and signing or authorizing another qualified firm representative to sign the audit report.

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Our fees are based on the amount of time required by the individuals assigned to the engagement and value of services provided, plus direct out-of-pocket expenses. Our standard hourly rates vary according to the degree of responsibility involved and the experience level of the personnel assigned to your audit. Invoices will be rendered as work progresses and expenses are incurred and are payable upon presentation. We estimate that our fee for the audit will be \$10,500 plus direct confirmation.com charges. We will notify you immediately of any circumstances we encounter that could significantly affect this initial fee estimate. The estimate is based on anticipated cooperation from your personnel and the assumption that unexpected circumstances will not be encountered during the audit. If significant additional time is necessary, we will discuss it with you and arrive at a new fee estimate before we incur the additional costs.

In accordance with our firm policies, work may be suspended if your account becomes 30 days or more overdue and will not resume until your account is paid in full. East Goshen Municipal Authority further acknowledges and agrees that in the event we stop work or withdraw from this engagement as a result of East Goshen Municipal Authority's failure to pay on a timely basis for services rendered as required by this engagement letter, we shall not be liable for any damages that occur as a result of our ceasing to render services. If we elect to terminate our services for nonpayment, our engagement will be deemed complete upon written notification of termination, even if we have not completed our report. You will be obligated to compensate us for all time expended and to reimburse us for all out-of-pocket costs through the date of termination.

We reserve the right to withdraw from this engagement without completing the work if you fail to comply with the terms of this engagement letter or if we determine professional standards require our withdrawal for any reason.

During the course of the audit, we may observe opportunities for economy in, or improved controls over, your operations. We will bring such matters to the attention of the appropriate level of management, either orally or in writing.

You agree to inform us of facts that may affect the financial statements of which you may become aware during the period from the date of the auditor's report to the date the financial statements are issued.

The audit documentation for this engagement is the property of Maillie LLP and constitutes confidential information. However, we may be requested to make certain audit documentation available to various regulators pursuant to authority given to them by law or regulation, or to peer reviewers. If requested, access to such audit documentation will be provided under the supervision of Maillie LLP's personnel. Furthermore, upon request, we may provide copies of selected audit documentation to various regulators. The various regulators may intend, or decide, to distribute the copies of information contained therein to others, including other governmental agencies.

It is our policy to keep records related to this engagement for seven years. Original client records will be returned to you at the completion of the services rendered under this engagement. When records are returned to you, it is your responsibility to retain and protect your records for any future use, including potential examination by government or regulatory agencies. Professional standards prohibit us from being the sole host and/or the sole storage for your financial and non-financial data. As such, it is your responsibility to maintain your original data and records and we cannot be responsible to maintain such original information. By signing this engagement letter, you affirm that you have all the data and records required to make your books and records complete and that upon the expiration of the seven-year period, Maillie LLP shall be free to destroy our records related to this engagement.

To the Board of the Authority
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East Goshen Municipal Authority
January 16, 2023
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Please sign and return the attached copy of this letter to indicate your acknowledgment of, and agreement with, the arrangements for our audit of the financial statements including our respective responsibilities.

We appreciate the opportunity to be your financial statement auditors and look forward to working with you and your staff.

Respectfully,

MAILLIE LLP



Dale R. Umbenhauer, CPA

RESPONSE:

This letter correctly sets forth our understanding.

Acknowledged and agreed on behalf of the **East Goshen Municipal Authority** by:

Name: _____

Signature: _____

Title: _____