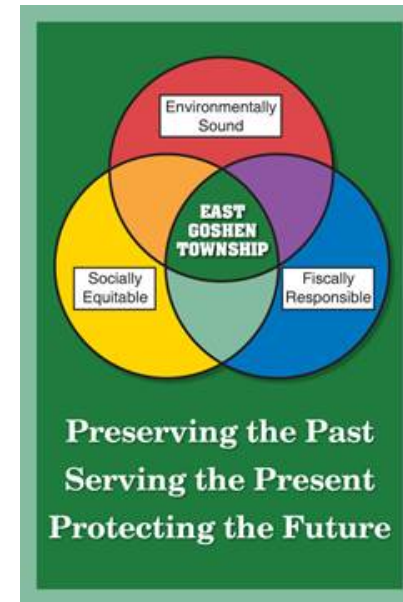


# East Goshen Township

## 2020-2024 Capital Improvement Program

---



TO BE PRESENTED TO THE BOARD OF SUPERVISORS ON NOVEMBER 12, 2019

# 2020-2024 Capital Improvement Program Summary



## Expenses\*

Category	2020	2021	2022	2023	2024
Administration (Office, Buildings & Structures)	\$43,000	\$112,000	\$50,000	\$39,000	\$12,000
Public Works	\$640,000	\$472,000	\$329,500	\$18,000	-
Park			\$105,000	\$49,000	-
Paoli Pike Trail	\$2,533,367	\$1,821,081	\$1,915,500	\$1,432,500	-
Dams	\$2,700,672	-	-	-	-
<b>Total</b>	<b>\$6,003,067</b>	<b>\$2,405,081</b>	<b>\$2,400,000</b>	<b>\$1,538,500</b>	<b>\$12,000</b>

\*Reflects **gross** costs, excluding awarded or pending grants

\*Does not include sewer assets (see p11-13) or the Transportation Fund (see p10)



# 2020-2024 Capital Improvement Program

## Summary-Capital Reserve Fund



### Sources of Funds-Includes Sewer, Transportation and Township projects/assets

Category	2020	2021	2022	2023	2024
Capital Reserve Fund	\$683,000	\$484,000	\$379,500	\$57,000	\$12,000
Grants*	\$2,913,000	\$1,368,000	\$1,968,000	\$1,457,000	
Series 2017 Bonds	\$2,374,901	772,860	\$52,500	\$24,500	
Other Financing		100,000			
Sewer Cap Reserve Fund		877,140			
Transportation Fund	\$185,000	772,860			
Municipal Authority	\$607,000	\$239,000	\$211,000	\$222,400	\$191,000
<b>TOTAL</b>	<b>\$6,762,901</b>	<b>\$4,613,860</b>	<b>\$2,611,000</b>	<b>\$1,760,900</b>	<b>\$203,000</b>

- **Note:** Because the grants can't be comingled with bond proceeds, the cost of construction of the dam-parks and the trail will be borne initially by the Capital Reserve Fund. The grants will be deposited in the Capital Reserve Fund. Upon project completion, the Bond Fund will then reimburse the Capital Reserve Fund for its costs, net of grants received. **Therefore, these numbers may not match the budget figures.**
- In addition, for sewer assets/projects, this table does not reflect transfers from the Sewer Operating Fund or the Sewer Capital Reserve Fund to the Municipal Authority to pay for these capital costs.



# 2020-2024 Capital Improvement Program

## Administration/Office Capital Expenses



Category	2020	2021	2022	2023	2024
Computer replacement	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
Security System replacement	-	-	-	\$27,000	-
Server replacement	-	-	-	-	-
<b>Total Administration/Office Capital</b>	<b>\$12,000</b>	<b>\$12,000</b>	<b>\$12,000</b>	<b>\$39,000</b>	<b>\$12,000</b>
Administration/Office - PAYG	\$12,000	\$12,000	\$12,000	\$39,000	\$12,000
Administration/Office – Financed	-	-	-	-	-
NEW- Administration/Office	-	-	-	-	-
REPLACEMENT- Administration/Office	\$12,000	\$12,000	\$12,000	\$39,000	\$12,000

**Notes:**

- 5 PCs in 2019
- Security system will be 18 years old in 2023, but still running well.



# 2020-2024 Capital Improvement Program

## Building & Structures Capital Expenses



Category	2020	2021	2022	2023	2024
Radio Booster	\$31,000	-	-	-	-
Rooftop solar		\$100,000			
Electric Vehicle Charging Station			\$38,000		
<b>Total Administration/Bldg &amp; Structures</b>	<b>\$31,000</b>	<b>\$100,000</b>	<b>\$38,000</b>	-	-
Administration/Bldg & Structures – PAYG	\$31,000	-	\$38,000	-	-
Administration/Bldg & Structures – Financed	-	\$100,000	-	-	-
NEW- Administration/Bldg & Structures	\$31,000	-	-	-	-
REPLACEMENT- Administration/Bldg & Structures	-	-	-	-	-

### Notes:

- **Radio booster** needed to comply with 2019 Township ordinance amendment, promoting public safety in event of serious emergency. Deferral fro 2019.
- For **Rooftop Solar**, the 2020 proposed operating budget includes \$10,000 for a Clean Energy Consultant. In addition, it is expected that the impending Cadmus Report for the Council of Governments will include a recommendation that the Township sign up for Solsmart, a free US Department of Energy program that provides technical assistance on solar energy. Through these efforts, the Township should be in a position to make a recommendation on solar investments in late 2020. Also, it is envisioned that this project is financed through a bank loan, in order to pass on any tax credits to a financial institution, which could in turn lower our principal/borrowing costs.
- **Electric Vehicle Charging Station** project will be appropriate after the Paoli Pike Trail is largely complete.



# 2020-2024 Capital Improvement Program

## Public Works Expenses

Category	2020	2021	2022	2023	2024
Dump Truck-Large	\$260,000	\$160,000	160,000	-	-
Dump Truck-Small	\$90,000				
Pick-Up Truck	-	\$96,000	\$46,000	-	
Trailers	\$32,000	-	-	-	
Loader	-	\$110,000	-	-	
Gator ATV			\$17,500		
Mowers	\$17,000	\$18,000	\$18,000	\$18,000	
Skid Steer/Mill Head	\$72,000	-	-	-	
Trench Shoring Struts	\$23,000				
Forklift	\$15,000	-	-	-	
Floor machine*	-	-	-	-	
Jetter/Vacuum	\$35,000	-	-	-	
Mini-Excavator	\$50,000	-	-	-	
Chipper	\$47,000	-	-	-	
Tractor/Mower	-	\$88,000	\$88,000	-	
<b>Total Public Works</b>	<b>\$640,000</b>	<b>\$472,000</b>	<b>\$329,500</b>	<b>\$18,000</b>	
Public Works Capital PAYG	\$640,000	\$472,000	\$329,500	\$18,000	
Public Works Capital Financed					
NEW- Public Works Capital	\$22,000				
REPLACEMENT- Public Works Capital	\$618,000	\$472,000	\$329,500	\$18,000	

- The 2020 Trench Shoring Struts replace existing struts, but that were not on the depreciation schedule.

# 2020-2024 Capital Improvement Program

## Park Expenses (excludes Trail & Dams)



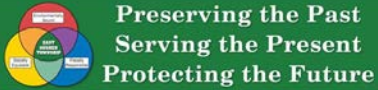
Category	2020	2021	2022	2023	2024
Amphitheater Improvements	-	-	\$92,500	-	
Area around playground	-	-	\$12,500	-	
Veteran's Pavilion Area				\$24,000	
Misc. mid-term improvements	-	-	-	\$25,000	
<b>Total Park Capital</b>	-	-	<b>\$105,000</b>	<b>\$49,000</b>	
Park Capital PAYG	-	-	-	-	
Future Grants	-	-	\$52,500	\$24,500	
Series 2017 Bond Proceeds (if available)	-	-	\$52,500	\$24,500	
<b>NEW- Park Capital</b>	-	-	<b>\$105,000</b>	<b>\$49,000</b>	
<b>REPLACEMENT- Park capital</b>	-	-	-		

- Reflects continued implementation of 2016 Parks Master Plan
- **Amphitheater improvements** reflect ADA improvements and bandshell
- **Area around playground** projects include T-ball & volleyball area renovation and Wiffle Ball field.
- **Veteran's Pavilion improvements** include fixed chess tables, grill upgrades and bocce/stones course.
- **Misc. mid-term improvements** include tennis windscreens and bleachers and baseball field bleachers.



# 2020-2024 Capital Improvement Program

## Paoli Pike Trail



Category	2020	2021	2022	2023	2024
Appraisals/ROW/Easements (Seg A-B)	\$482,000				
Segment A-B Engineering	\$300,000	-	-	-	
Segment A-B Construction	-	-	\$1,915,500	\$1,432,500	-
Segment C Engineering (Construct Mgmt & Inspection)	\$108,948	-	-	-	
Segment C Construction	\$500,000	\$500,000	-	-	
Segment D-E Engineering (Construct Mgmt, Utility Relocation & Inspection)	\$304,067	-	-	-	
Segment D-E Construction	\$868,000	\$868,000		-	
Segment F-G Construction*	\$56,380				
<b>Total Trails Capital</b>	<b>\$2,619,395</b>	<b>\$1,821,081</b>	<b>\$1,915,500</b>	<b>\$1,432,500</b>	<b>-</b>
Grants**	\$1,368,000	\$1,368,000	483,000	-	-
Series 2017 GO Bonds	\$1,251,395	-	-	-	-
Future grants and/or unidentified***			\$1,432,500	\$1,432,500	-

**Notes:**

- \* 2020 Segments F-G (\$56,380) reflects projected net cost of Segments F&G, after accounting for grants
- \*\*Note that the 2020 proposed budget assumes that the entire trail grants will be received in 2021; this revenue will therefore be a “grant receivable” in 2020. In the short-term, the funding will be put up from the Capital Reserve Fund
- No firm funding source has been identified for Segments B Construction.
- Figures do not include Paoli Pike Corridor Master Plan improvements.





# 2020-2024 Capital Improvement Program

## Hershey's Mill & Milltown Dams



Category	2020	2021	2022	2023	2024
Milltown Dam Partial Breach & Land Improvements	\$1,982,972	-	-	-	
Hershey's Mill Breach & Land Improvements	\$717,700	-	-	-	
<b>Total Dam Capital</b>	<b>\$2,700,672</b>	-	-	-	-
Grants	\$1,545,000	-	-	-	
Series 2017 GO Bonds*	\$1,108,000	-	-	-	

### Notes:

- Note that Because the grants can't be comingled with bond proceeds, the cost of construction of the dam-parks will be borne initially by the Capital Reserve Fund. The grants will be deposited in the Capital Reserve Fund. Upon project completion, the Bond Fund will then reimburse the Capital Reserve Fund for its costs, net of grants received. **Therefore, these numbers will not match the budget figures.**

# 2020-2024 Capital Improvement Program Transportation Fund



Category	2020	2021	2022	2023	2024
Boot Road Restriping	\$165,000				
Signal Modifications at King & N Chester	\$20,000		-	-	
<b>Total Transportation Fund</b>	<b>\$185,000</b>		-	-	
Total Non-Impact Fee	\$185,000		-	-	
Total Impact Fee	-	-	-	-	-

- Notes:**
- **Boot Road Restriping**, a joint project with West Goshen with costs shared 50/50, would add a northwest bound land between Wilson Drive and Greenhill Rd without widening the existing cartway and retaining the existing left turn lane to ease afternoon congestion approaching Route 202.
  - **Signal Modifications at King and N Chester**, a joint project with East Whiteland with costs shared 50/50, would allow for improved traffic flow at this intersection.



# 2020-2024 Capital Improvement Program



## Sewer & Municipal Authority

(Except West Goshen Upgrades)

Category	2020	2021	2022	2023	2024
Hershey's Mill P/S Generator (R)	\$45,000	-	-		
Hunt Country P/S Mag Meter (R)	\$15,000	-	-		
Hunt Country P/S Muffin Monster (R)	\$67,000				
Ridley Creek STP Generator (R)	\$130,000				
Relining AC sewer lines and brick man holes (N)	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000
Hunt Country P/S Bypass Pump (N)	\$5,000				
Ridley Creek STP Flow Meter (R)				\$13,000	
Ridley Creek Collection Flow Meter (N)	\$55,000	\$30,000			
Ridley Creek Caustic Soda Project (N)	\$160,000				
Ridley Creek Filter Feed Pump (R)		\$18,000			
Ridley Creek Lift Station Replacement (R)			\$20,000	\$20,000	
Ridley Creek SBR Tank Lining (N)		\$61,000	\$61,000	\$61,000	\$61,000
<b>Total Sewer Capital</b>	<b>\$607,000</b>	<b>\$239,000</b>	<b>\$211,000</b>	<b>\$224,000</b>	<b>\$191,000</b>
Total New	\$257,000	\$221,000	\$191,000	\$191,000	\$191,000
Total Replacement	\$350,000	\$18,000	\$20,000	\$33,000	

(R=replacement; N=new)



# 2020-2024 Capital Improvement Program



## Sewer & Municipal Authority (Except West Goshen Upgrades)

### Justification for New Assets

- **Relining brick manholes and asbestos cement sewer lines** was identified four years ago as a long term maintenance priority for pre-mid-1970s sewer assets, which are at the end of their useful life. The plan calls for Supplee Valley in 2020-2021, Waterview in 2022-2023 and either Grand Oak or the eastern portion of Hershey's Mill Estates in 2024
- **Three new collection system flow meters** will allow us to measure I&I in that system and more effectively identify problems in the collections system. Currently, the only RC flow meters are at the plant. Two meters would be installed in 2020 and one would be installed in 2021.
- **Sequence Batch Reactor Tank Lining** (4 total, 2021-2024) project reflects recoating hairline fractures in tanks from water line to top of tanks.
- **Ridley Creek Caustic Soda project** would improve worker safety and efficiency at the plant. Currently, caustic soda is manually poured into tanks. We are identifying potential grant opportunities for this project through DCED.
- **Hunt Country Pump Station Bypass Pump Connection** needed to allow for bypass pumping.



# 2020-2024 Capital Improvement Program

## Upgrades at West Goshen STP

East Goshen Municipal Authority's Share Only



Category	2020	2021	2022	2023	2024
Westtown Way P/S Improvements		\$1,650,000			
Misc Capital, Engineering, Legal and Admin Fees	\$56,380				
<b>Total EGMA share of WGSA projects</b>	<b>\$56,380</b>				
Series 2017 Bond Proceeds	\$56,380	\$772,860			
Sewer Capital Reserve Fund or other financing		\$877,140			

West Goshen has experienced cost overruns on two major projects that directly impact East Goshen:

- 1) East Goshen's 16.7% share of the WWTP Phase 2 Project (for the comag and dewatering systems, and expected to be funded in late 2019) was about \$330,000 over the original 2017 budget due to more than expected piping work and a larger than expected dewatering building, among other issues.
  - 2) East Goshen's 55% share of the Westtown Way Pump Station Project (expected to be funded in 2021) is now expected to come in \$550,000 over the original 2017 budget due to structural problems in the pump station, which will complicate removing the pumps.
- Therefore, the Township and/or Municipal Authority may borrow from itself via the Sewer Capital Fund or by a small debt placement. For perspective, a 3.5% loan of this amount amortized over 20 years would correspond with about \$2.50 per quarter on sewer bills.
  - Note also that West Goshen will soon begin work on a 10-year sewer CIP that may have a modest impact on East Goshen ratepayers, although most of the anticipated long-term improvements are expected to occur to West Goshen's internal collection system, for which East Goshen bears no liability.

