

# **Simsbury Water Pollution Control Presentation Pine Hill Sewer Replacement**

**December 8, 2022**



# WPCA Overview

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- Operate and maintain an advanced wastewater treatment plant: 3.8 MGD capacity, 5 pumping stations, 85 miles of sewer lines, and 2,300 manholes
- 4,500 residential accounts and non-residential accounts
- Service Area includes Simsbury and portions of Avon and Granby
- Avon and Granby are co-owners of the treatment facility and participate in debt reduction and O&M funding
- Provide administrative services, oversee sewer usage billing, conducts inspections and develop long term planning





# Mission - Duties

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- WPCA is the sole decision making authority for sewer installations and repairs
- Finances are solely by supported by user fees:
  - Facility Connection Charges (FCC)
  - Sewer use fee

\* The US Environmental Protection Agency, NPDES permit references CT state statute 22a-430-3 which mandates that the WPCA maintain adequate funding for repairs, operations and potential catastrophic equipment failures



# Project History

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- March 1979, condition assessment and upgrade recommendations were provided by Tighe & Bond
- October 1997, recommendations were provided by the Town to alleviate backups in the area.
- October 2003, Pine Hill residents requested information on replacement of sanitary sewers.
- April 2008, AECOM conducted a condition assessment and upgrade recommendations for the area.
- 2008 Manholes installed to provide access for cleaning



# Project Outline

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- Currently Pine Hill Homeowners Association owns and maintains the existing sanitary sewers.
- Existing sanitary sewers in the area are not constructed to Town of Simsbury standards.
- Proposed to replace and/or install new main lines and extend existing laterals to approximately 25 feet from the homes as needed.

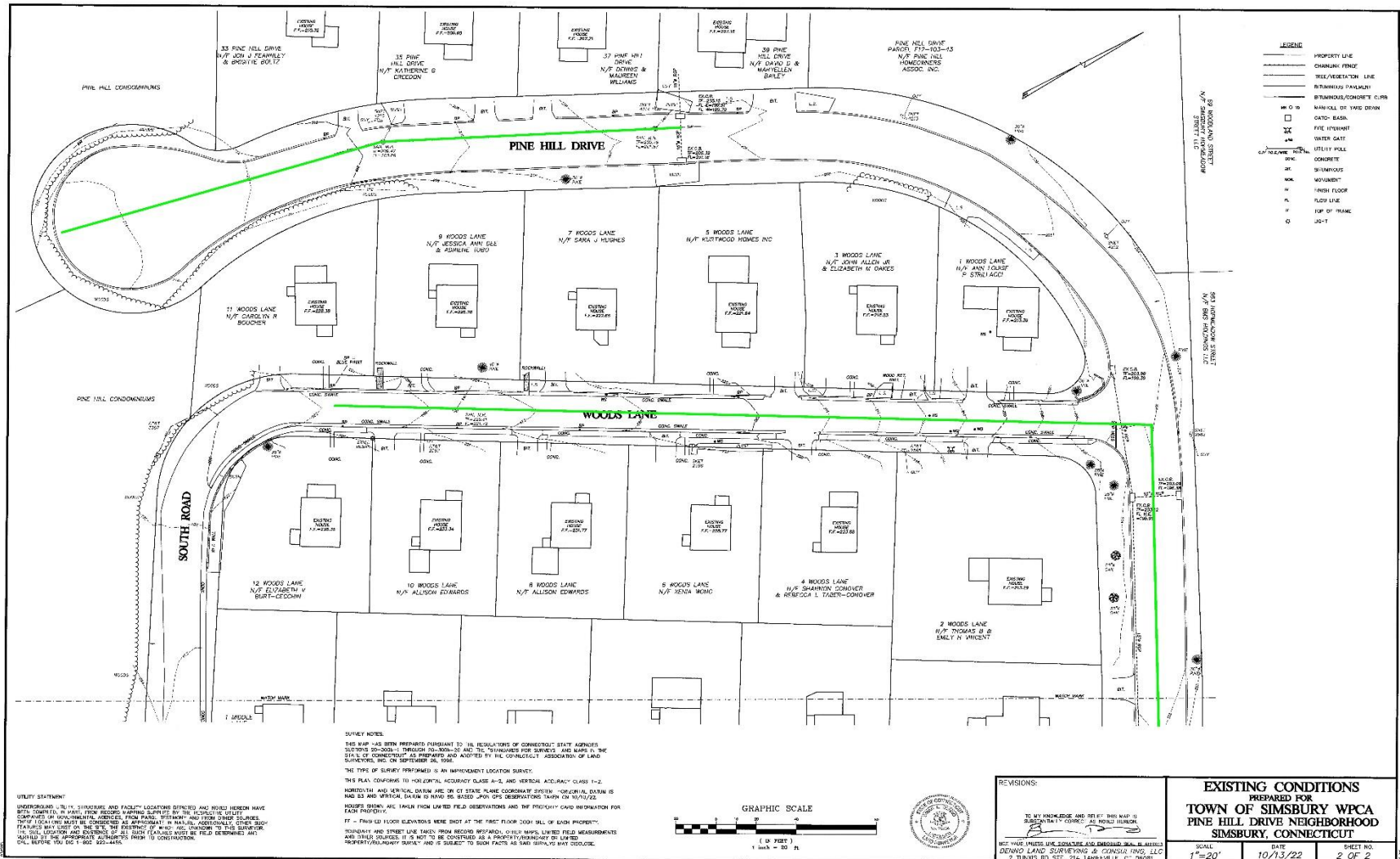


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# Construction Costs

- Preliminary cost estimate for survey, lateral construction, main line construction and restoration is \$975,000.
- Project includes:
  - 2,120 lf of main line sanitary sewer
  - 2,335 lf of sewer laterals
  - 7,200 sy of pavement
- This would be approximately \$24,375 per home
- Costs have continued to rise and estimates are based on our most recent project this past season.
- Construction prices continue to be impacted by supply chain and inflation issues, as well as diesel pricing.





# Financing

- You have the option to finance the project with the Town and repay over 15 years at the Town's bond rate (assumed to be 4%) and simple interest.
- You do not have to finance with the Town.
- No payments until after the project is completed and accepted.
- Breakdown to monthly fee of \$216 first year, declining to \$140 in the last year.

Assumed Rate		4.00%
Fiscal Year Budget Impact		2024
Amount Issued		\$24,375
Term (Years)		15
Interest Only Years		0
Structure		1
Payment		\$2,192.31
<b><u>Principal</u></b>	<b><u>Interest</u></b>	<b><u>Total</u></b>
-	-	-
-	-	-
1,625	975	2,600
1,625	910	2,535
1,625	845	2,470
1,625	780	2,405
1,625	715	2,340
1,625	650	2,275
1,625	585	2,210
1,625	520	2,145
1,625	455	2,080
1,625	390	2,015
1,625	325	1,950
1,625	260	1,885
1,625	195	1,820
1,625	130	1,755
1,625	65	1,690

# Project Includes:

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- Main Line Sanitary Sewer:
  - Built to Town Standard
  - Town will take ownership including all future maintenance
  - Final design will require easements be granted to the Town of Simsbury for installation and maintenance of the sanitary sewer.
  - Removal of existing structures



# Project Includes:

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## ➤ Sanitary Laterals:

- Replaced to within ~25' of home. Will vary based on landscaping and point of exit from home.
- Connection will be made to “sound pipe”.
  - Sound pipe could be clay tile pipe in good condition. If pipe is in poor condition or has roots, the town will “chase the issue” closer to the house. This may involve root cutting, installing liner or new pipe.
- Intent is to avoid costly damage to properties





# Project Includes:

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- Pavement: All roads will be repaved, curb to curb.



# Project Includes:

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- Driveways: If a driveway is disturbed by construction it, it will be patched (straight cut pavement, repaved to be flush with existing)



# Project Includes:

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- Sidewalks: Existing sidewalks and drainage swales will be removed and roads will be widened to extent of previous walks





# Potential Issues

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- Unmarked drainage, conflicts, repairs
  - inaccurate plans for area sewers, unknown location of sewer lines and laterals
  - underground utilities
- Replacement of retaining walls
- Escalation of costs due to economy



# What to Expect

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## ➤ Construction:

- It's going to be disruptive
- You will always have access to your house/car
- No significant service interruptions

## ➤ Restoration:

- New pavement
- Regrading and seeding of lawns
  - If you water for us, it will provide a better final product
- Replacement of retaining walls if required



# Project Timing

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- If approved by the WPCA this project would have an anticipated construction of Summer / Fall 2023





## WPCA Board

Paul Gilmore - Chairman

Jerry Sheehan – Vice Chairman

Thomas Hickey

Edward Kelly

Michael Park

Jacques Brignac

Lucian Dragulski

# Questions...

