



Water Resources Management Update

Barnstable Town Council

**Department of Public Works
September 21, 2023**



Comprehensive Wastewater Management Plan

Recent Initiatives

314 CMR 21.00 WP95 – Watershed Permit Application

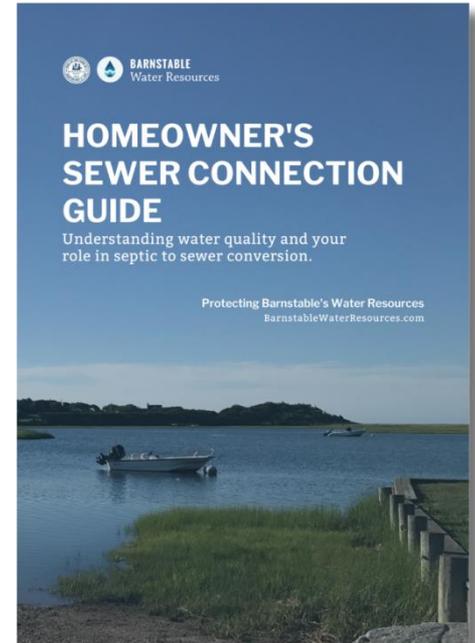
- Submitted on September 1, 2023
- Current Status: In Review

FY23 CWMP Annual Report

- Data submission to Cape Cod Commission
- Report will be available on BarnstableWaterResources.com

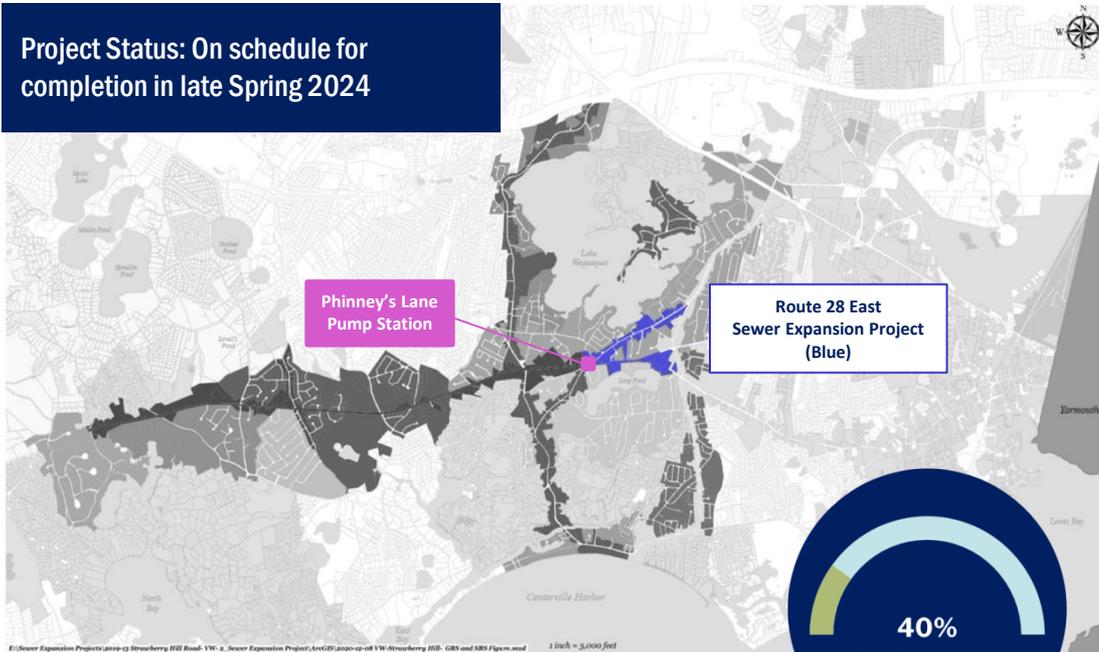
Homeowner's Sewer Connection Guide

- To distribute ahead of first connections



Route 28 East Sewer Expansion Project

Project Status: On schedule for completion in late Spring 2024



Project Status:

- In-road construction has resumed:
 - 9/5 (Phinney's Lane) required closure of Phinney's Lane from Route 28 to Great Marsh Road - COMPLETE
 - 9/14 (Route 28) requires single-direction detour of westbound traffic on Route 28 – IN PROGRESS
 - 9/25 (Route 28) requires single-direction detour of eastbound traffic, utilizing West Main Street
- Contractor plans to have two crews on Route 28 throughout the Fall

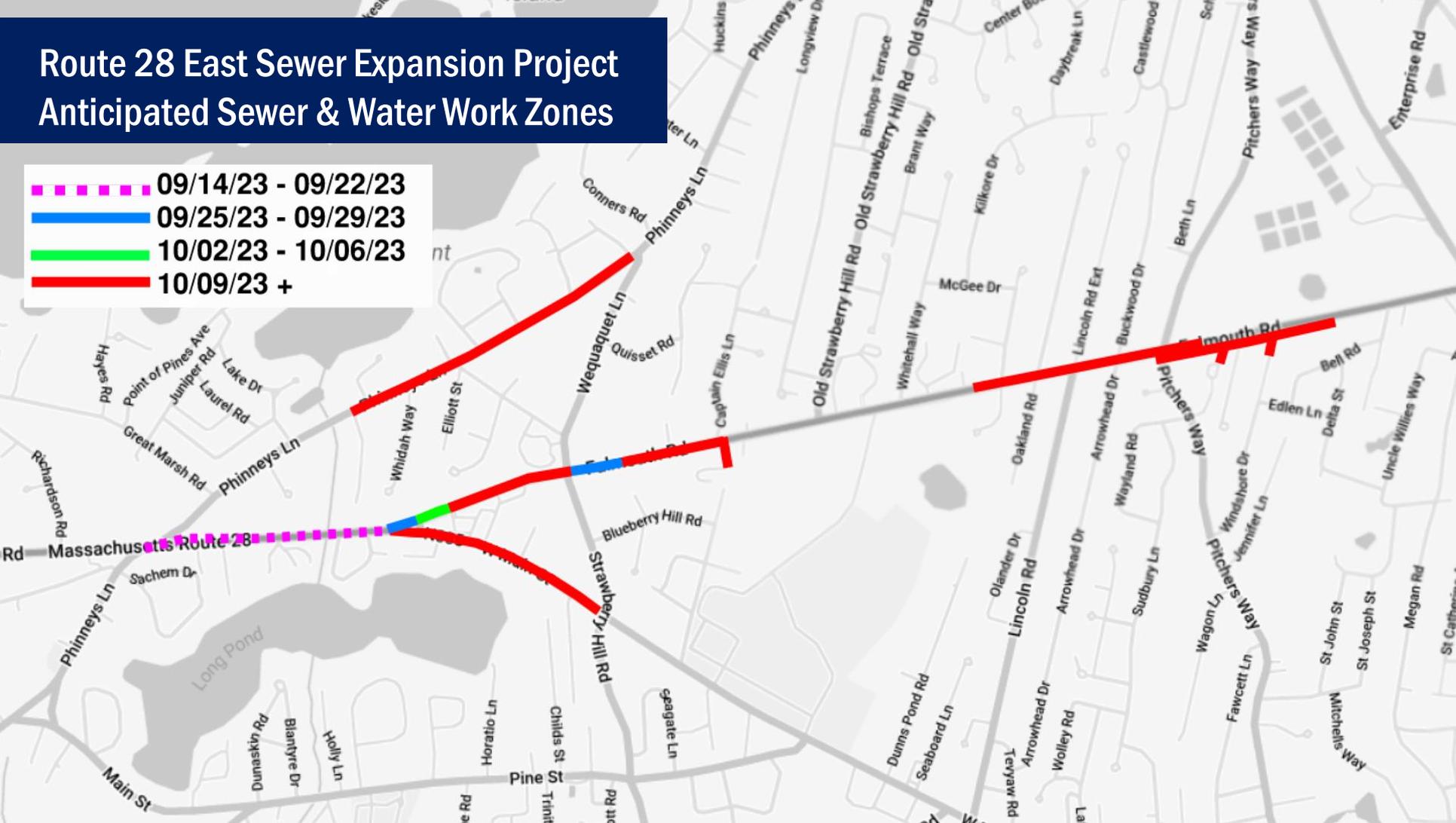
Phinney's Lane Pump Station:

- All below grade sewer work is complete



Route 28 East Sewer Expansion Project Anticipated Sewer & Water Work Zones

- 09/14/23 - 09/22/23
- 09/25/23 - 09/29/23
- 10/02/23 - 10/06/23
- 10/09/23 +



Strawberry Hill Road Sewer Expansion Project

Project Status: Construction completed

Strawberry Hill Road
Sewer Expansion Project
(Yellow)

95%
COMPLETE

Project Status:

- Sewer service riser construction anticipated late September/early October
- First connections anticipated Spring 2024

Restoration:

- Paving Pinney's Lane from Wequaquet Lane to Route 132 anticipated in November
 - Vineyard Wind completing testing along the project route
 - Intend to keep Pinney's Lane open while detouring traffic on Route 28

Strawberry Hill Road Sewer Pump Station:

- Electrical service for the pump station anticipated to be completed this fall



Centerville Village Sewer Expansion Project

Project Status: Construction anticipated to commence in 2024

Centerville Village Sewer Expansion Project (Purple)

75%
of design
complete

Expedites sewer expansion within roadways along proposed Park City Wind on-shore duct bank installation route

Project Details:

- Completing 75% sewer design plan review
- Continuing efforts to site pump station locations and associated easement options

Outreach Efforts:

- Initial public comment periods have closed
- Evaluating all feedback and formalizing public comment summary, to be published on BarnstableWaterResources.com



Route 28 West Sewer Expansion Project

Project Status: Construction anticipated to commence in 2025

Route 28 West Sewer Expansion Project (Red)

Preliminary design

Extends sewer on Route 28 from Phinney's Lane to Route 149

Project Details:

- Preliminary design and survey continues
- Reviewing sewer alignments and continuing efforts to site pump station locations and associated easement options



Additional Sewer Expansion Projects in Design



Phinney's Lane Neighborhood Project:

- Internal design team has completed 30% design
- Continuing private roadway utility easement takings and siting of sewer pump stations
- Construction anticipated to commence in 2025

Old Craigville Road, Old Yarmouth Road & Shootflying Hill Road Projects

- Survey efforts ongoing; anticipated completion October 2023 – January 2024
- Construction anticipated to commence in 2026 (Old Craigville), 2026 (Old Yarmouth) and 2027 (Shootflying Hill)

Long Pond Area Project

- Survey complete & design on-going
- Construction anticipated to commence in 2027

Long Beach and Great Marsh Road Projects

- Preliminary design funding proposed in FY24 Capital Budget
- Construction anticipated to commence in 2027 (Long Beach) and 2028 (Great Marsh)



Water Pollution Control Facility

Solids Processing Facility Upgrades

- Installed septic receiving station pipework
- 4 out of 4 sludge storage tanks have been rehabilitated
- Septage grit pump #1 installed
- Pipe painting in progress
- SCADA automation work has begun
- anticipated to reach substantial completion by January 2024

Nitrogen Removal and Headworks Improvements

- Nutrient removal conceptual design in review
- Clean Water project SRF application submitted

Effluent Disposal Evaluation

- Contracting for next phase of work



Solids Processing Facility pipe painting in progress



Water Quality Monitoring

Cyanobacteria Monitoring

- On-going monitoring at 27 ponds, will continue through September
 - Public Health Advisory at Parker Pond, Osterville

Estuaries Monitoring

- Summer 2023 Estuaries Sampling has come to a close

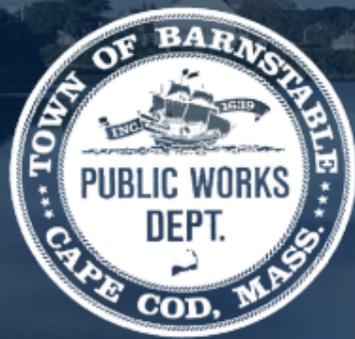
Ponds and Lakes Monitoring and Management Plan Program

- Lovells Pond Nutrient Diagnostic Assessment & Management Plan report I progress
 - Anticipated late Fall 2023

Mystic Lake Alum Treatment

- The Town has been engaging with potential consultants to complete the permitting phase







Resources

Vineyard Wind Project



Project Status: Duct bank installation and cable pulling complete

Remaining work:

- Cable splicing and testing along the project route
- Requires single-lane alternating traffic
- Testing has resumed as of 9/5/23

Anticipated final paving schedule of disturbed roadways:

- Late Fall 2023:
 - Attucks Lane – scheduling in progress
 - Strawberry Hill Road (Pine Street to Route 28)
 - Phinney's Lane
 - Wequaquet Lane

