

Water Resources Management Update

Barnstable Town Council

May 15, 2025

Town Hall Hearing Room



Town of Barnstable
Department of Public Works



Sewer Connections Status

Week of May 12, 2025

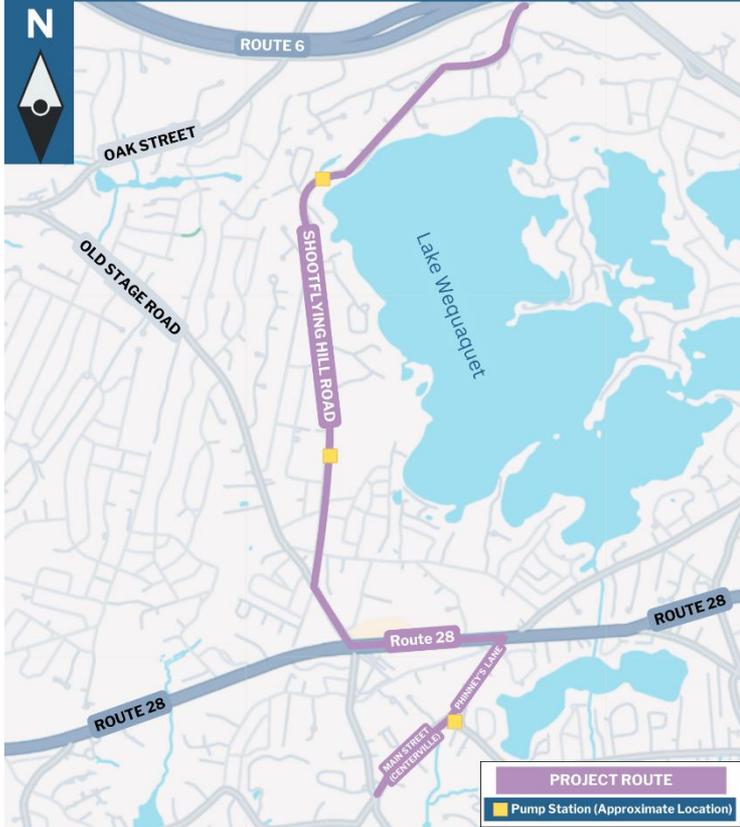
	Stewart's Creek ⁺	Hyannis Avenue [§]	Strawberry Hill Road	Route 28 East [*]
Project Status	Completed	Completed	Closeout	Closeout
Available Sewer Connections	227	17	151	154
Completed Connections	193	11	112	11
Percent Connected	85%	65%	74%	7%
Active Permits	0	2	22	18

⁺Project completed prior to CWMP.

[§]Privately funded project, benefiting the CWMP.

^{*}Includes remaining properties identified within Strawberry Hill Road Sewer Expansion Project that were reliant on the Phinney's Lane Pump Station for connection.

Centerville Village Sewer Expansion Project North Phase



Centerville Village Sewer Expansion Project North Phase

Status: Active Construction

- Estimated Completion: Spring 2027

Sewer Installation Continues

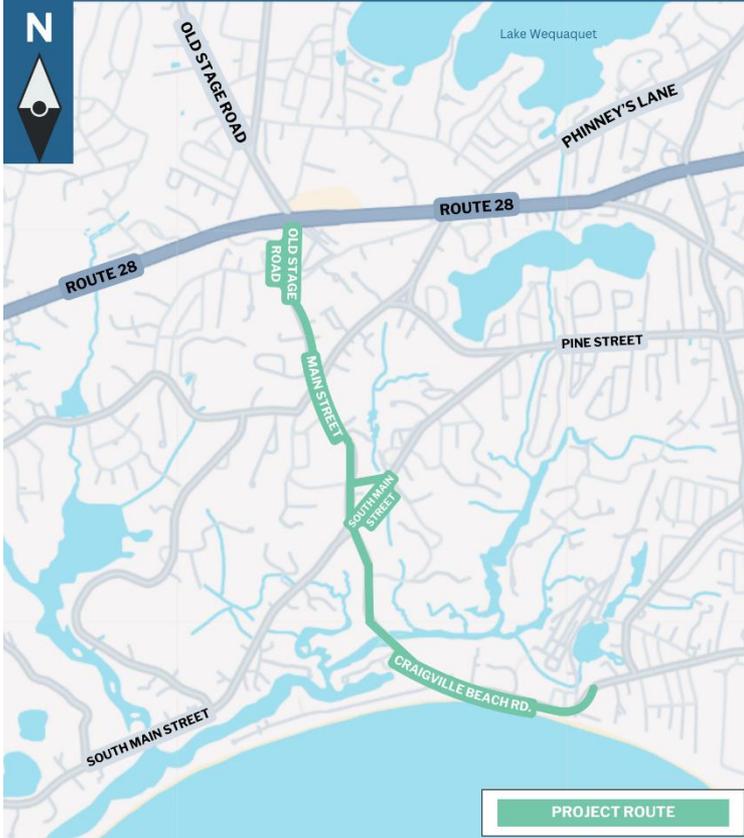
- **Shootflying Hill Road**
 - Requires road closure from 7:00AM – 4:00PM
 - Work extension approved through end of school (June 18)
 - Currently installing sewer service laterals
 - Will resume gravity sewer installation next week starting from the 944 Shootflying Hill Road Pump Station location towards Great Marsh Road
- **Mother's Park Pump Station**
 - Pre-construction activities complete
 - Construction start-up delayed; anticipate mobilizing in the Fall

EPA Community Grant Program

- Project was selected for a \$959,752 earmark
- Meeting with EPA and SRF regularly to discuss applying to the Mother's Park Pump Station portion of the project
- Anticipate preparing an acceptance order for Town Council over the coming weeks



Centerville Village Sewer Expansion Project South Phase



Centerville Village Sewer Expansion Project South Phase

Status: In Design

- Advancing 50% sewer design plan
- Continued siting of pump station locations, necessary easements, and associated outreach meetings
- Anticipated Construction: Fall 2026, per the most recent schedule adjustments shared by the Park City Wind project
 - \$16M construction CIP funding request approved by Town Council on April 17, 2025
 - Project is listed for full financing on the SRF 2025 Final Clean Water Intended Use Plan (IUP)
 - Construction contract must be awarded by June 30, 2026, for the project to remain eligible for principal subsidy

Project Route

- Old Stage Road, from Old Post Road to Main Street
- The bulk of Main Street, Centerville
- A portion of Cragville Beach Road

Route 28 West Sewer Expansion Project



Route 28 West Sewer Expansion Project

Status: Procurement

- Pre-bid meeting scheduled for May 28, 2025
- Bid opening on June 18, 2025
- Anticipated Construction: Fall 2025 - Spring 2028
- #3 ranked project in 2024 State Revolving Fund Clean Water Intended Use Plan (IUP)

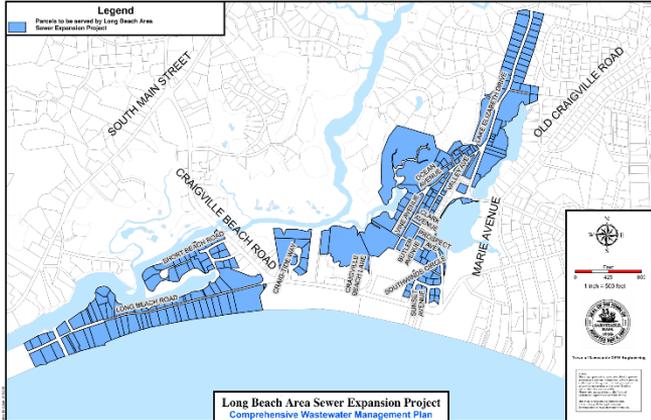
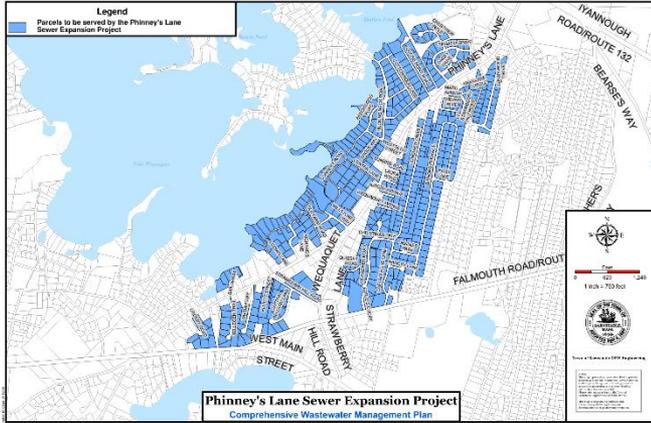
Project Objectives

- To install critical infrastructure serving as the backbone of the sewer program
- To decommission and connect the existing Marstons Mills Wastewater Treatment Plant (MMWTP) to the newly expanded municipal collection system
- Without the infrastructure to be installed as part of this project, the Town could not achieve the regulatory requirements per the CWMP

Public Outreach

- Project outreach began in January 2025
- Public Information Meeting held on Wednesday, February 5, 2025
 - Recording available via Barnstable Government Access and on Barnstable Water Resources: <https://barnstablewaterresources.com/route-28-west-sewer-expansion-project/>
- Anticipate scheduling our next Public Information Meeting and coordinating Project Notifications to all identified property owners after contractor is selected and preliminary construction schedule is identified

Additional Sewer Expansion Projects In Design



Phinney's Lane Neighborhoods Project

- Construction anticipated to commence Fall 2026
- \$45.6M construction CIP funding request approved on April 17, 2025

Long Beach Area Project

- Preliminary design complete
- Construction anticipated to commence in 2027
- Field work and soil borings in progress, to be completed this month

Long Pond Area Project

- Preliminary design complete
- Construction anticipated to commence in 2027
- \$750k final design CIP funding request approved on April 17, 2025

Great Marsh Road/Shootflying Hill Road Neighborhoods Project

- 75% survey plan received and in review, preliminary design on-going
- Construction anticipated to commence in 2028
- \$2.25M design and permitting CIP funding request approved on April 17, 2025

Old Yarmouth Road Project

- 30% sewer design completed
- Construction anticipated to commence in 2028

Old Craigville Road Project

- Survey complete; preliminary design on-going
- Construction anticipated to commence in 2030

720 Main Street Pump Station Replacement Project

Status: Active Construction

- Project remains on budget and on schedule
- Estimated completion: Fall 2025

Current Construction

- Work hours: Monday through Friday, 7:00AM – 4:00PM
 - In-road sewer construction is complete
 - Onsite utilities and SCADA programming continues
- Substantial completion anticipated this Summer
 - Pump station commissioning planned for May 19
 - Paving and restoration anticipated this Fall
 - Followed by decommissioning of pre-existing pump station located at 720 Main Street

Project Objectives:

- Part of the Town's Sewer Pump Station Rehabilitation Program
- Will address capacity concerns within the Town's Growth Incentive Zone (GIZ) as well as replace aging infrastructure



Water Pollution Control Facility

Nitrogen Removal and Headworks Improvements Project

- **Status: Preparing bid package**
 - #1 ranked project in 2024 State Revolving Fund Clean Water Intended Use Plan (IUP)
 - SRF Loan Application submitted
 - Targeting construction bid award for late Summer
- Anticipated Construction: Fall 2025 – Spring 2028

Effluent Disposal Evaluation

- **Status: Analysis in progress**
 - Water Reuse and Disposal Alternatives Analysis continues with consultant, CDM Smith
 - Hosting monthly meetings with MassDEP

Bearses Way Sewer Extension and Vacuum Sewer Removal Project

- **Status: Active Construction**
 - Coordinated in collaboration with MassDOT Bearses Way Shared Use Path Project
 - Remaining in-road sewer work includes final tie-in to newly constructed sewer main, service tie-ins, and abandonment of vacuum sewer



Straightway & Hyannisport Water Treatment Facilities Improvements

Status: Procurement

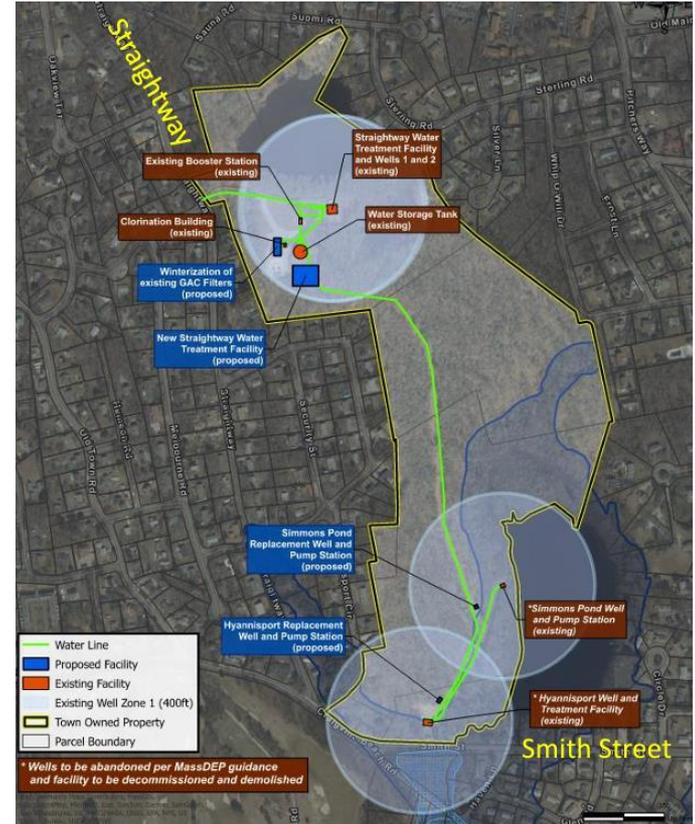
- SRF Loan Application submitted
- Spring – Summer 2025: Bidding and contract award
 - Bid due date extended to May 23, 2025
- Anticipated Construction: Fall 2025 (approx. 2-year duration)

Project Objectives

- Maximize the permitted capacity of the Hyannis Water System
- Restore the amount of water that the wells can supply to permitted capacity
- Allow the water treatment facility to operate year-round
- Improve the water treatment process to further improve water quality
- Protect the wells and buildings from flooding
- Improve overall system resiliency

Project Information

- Presentation of Cape Cod Commission, Thursday 1/20/25 at 3:00PM
- Project page available on Town of Barnstable website:
<https://townofbarnstable.us/Departments/watersupply/Straightway-Water-Treatment-Plant.asp>



Water Quality

Culvert Asset Management Program

- **Status: Field investigations 70% complete**
- Assessing and creating an inventory of the Town's culvert network

Hamblin Pond Monitoring and Management Plan

- **Status: Initial coordination in progress**
- CIP funding request approved on April 17, 2025
 - Will facilitate water quality monitoring and development of a management plan report for Hamblin Pond
 - First phase of work consists of monitoring all nutrient sources, including in-pond water quality, sediment nutrient release, stormwater inputs, groundwater input, dissolved oxygen, phytoplankton composition (including cyanobacteria), and stream inputs, when applicable.

2025 Embayment Monitoring

- **Status: Coordination in progress, sampling to commence in July**
- Volunteer estuary samplers still needed for Barnstable Harbor, Lewis Bay, Centerville River, Halls Creek and Three Bays
- Email Brooke.Withers@town.barnstable.ma.us for more information



