

Water Resources Management Update

Barnstable Town Council

April 17, 2025
Town Hall Hearing Room



Town of Barnstable
Department of Public Works



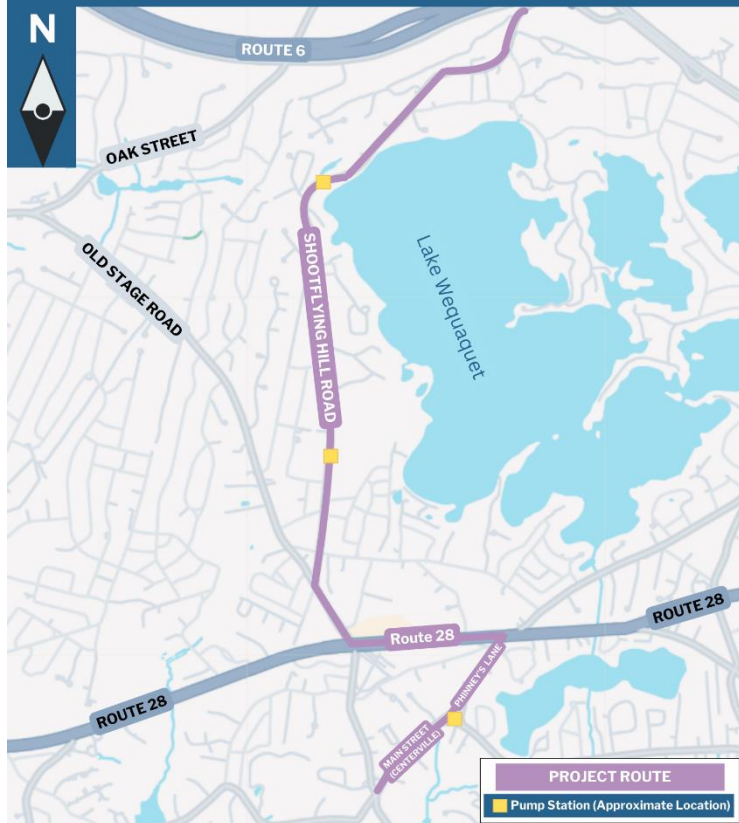
Sewer Connections Status

Week of April 14, 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	89	6
Percent Connected	<div><div></div></div> 85%	<div><div></div></div> 65%	<div><div></div></div> 59%	<div><div></div></div> 4%
Active Permits	0	2	36	14

⁺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



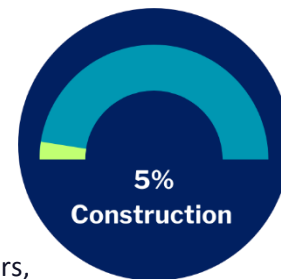
Centerville Village Sewer Expansion Project North Phase

Status: Active Construction

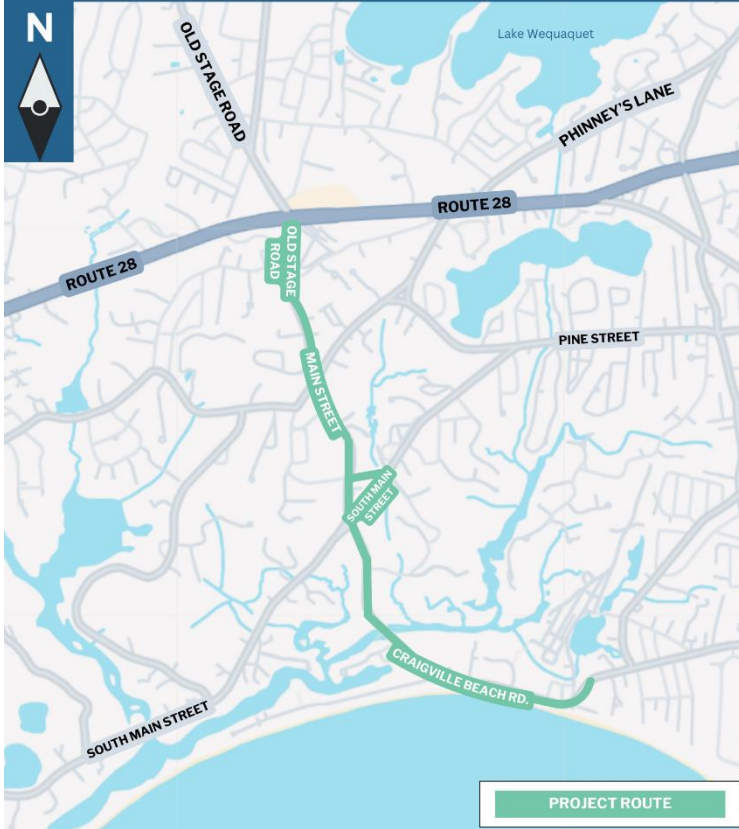
- Estimated Completion: Spring 2027

Sewer Installation Continues

- **Shootflying Hill Road**
 - Requires road closure during construction hours, 7:00AM – 4:00PM
 - Over 1,000 linear feet of sewer installed
- **Mother's Park Pump Station**
 - Pre-construction activities complete
 - Construction start-up delayed; anticipate mobilizing in the Fall



Centerville Village Sewer Expansion Project South Phase



Centerville Village Sewer Expansion Project South Phase

Status: In Design

- Consultant addressing Town comments on 50% sewer design plan
- Continued siting of pump station locations, necessary easements, and associated outreach meetings
- Anticipated Construction: Fall 2025, pending Park City Wind schedule
 - \$16M construction CIP funding request anticipated on April 17, 2025
 - Project is listed for full financing on the SRF 2025 Final Clean Water Intended Use Plan

Project Route

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

Public Outreach

- Anticipate hosting a public information meeting to review status of design in late Summer 2025
- Regular briefings with the Centerville Civic Association
 - February 10, 2025
 - April 14, 2025

Route 28 West Sewer Expansion Project



Route 28 West Sewer Expansion Project

Status: Preparing Construction Bid Documents

- Anticipate advertising bid on May 1, 2025
 - Estimated submission deadline of mid-June
- Anticipated Construction: Fall 2025 - Spring 2028
- #3 ranked project in 2024 State Revolving Fund Clean Water Intended Use Plan (IUP)

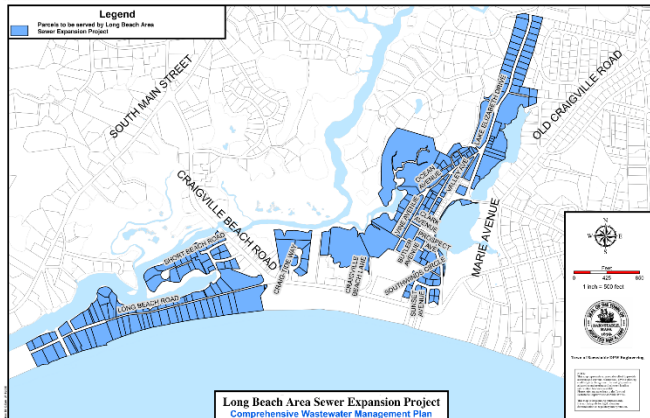
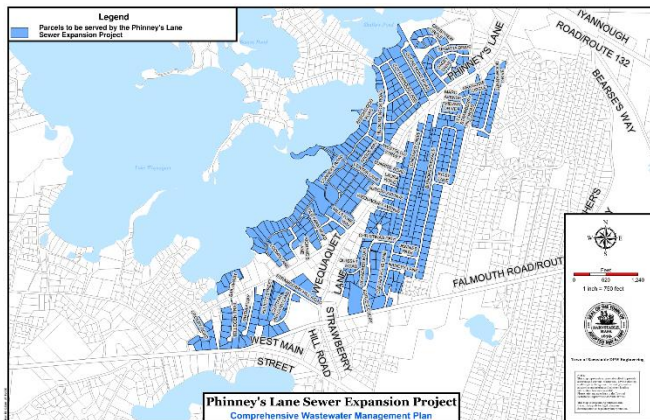
Project Objectives

- 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/>

Additional Sewer Expansion Projects In Design



Phinney's Lane Neighborhoods Project

- Construction anticipated to commence Fall 2026
- \$45.6M construction CIP funding request anticipated 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 in May

Long Pond Area Project

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

Old Yarmouth Road Project

- Survey complete; preliminary design on-going
- Construction anticipated to commence in 2028

Old Craigville Road Project

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

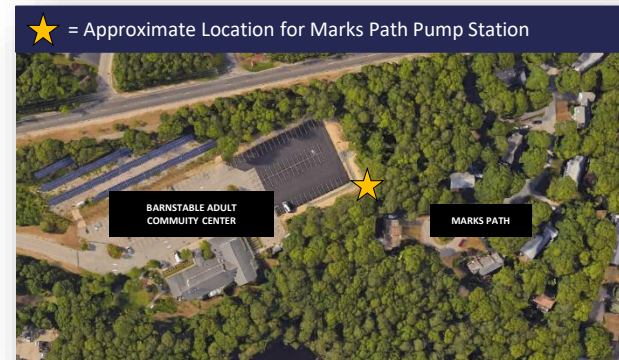
Downtown Hyannis and Marks Path

268 Stevens Street Pump Station

- **Status: Construction Contract Awarded**
 - Awarded to C.C. Construction, Inc.
 - Construction anticipated to commence in May 2025
 - Anticipate a request for summer work authorization, contained onsite, with no impact to traffic
 - Estimated completion: Fall 2027
 - In 2023, Barnstable Planning and Development applied for and received a State grant to fund the installation of this pump station

Marks Path Pump Station

- **Status: In Design**
 - Pump station proposed at the rear of the Barnstable Adult Community Center property (Town-owned Parcel 271096)
 - Soil borings planned this week
 - Notifications provided to Barnstable Adult Community Center and residents of Marks Path
 - Recent evaluation of the current Marks Path pump station determined that the station is at the end of its useful life and does not have capacity to accept additional flow
 - The Phinney's Lane Sewer Expansion Project will also direct additional flow to the Marks Path pump station



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
 - 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

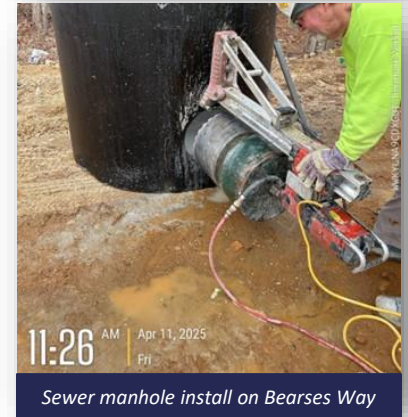
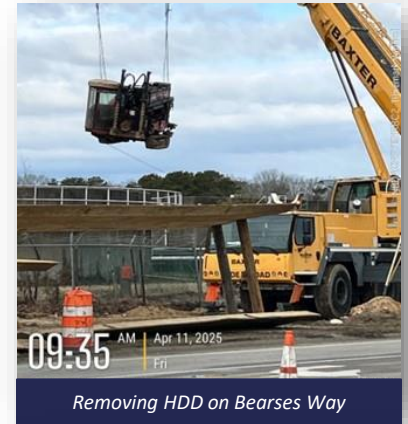
- **Status:** In design, 90% design plans reviewed, Wright-Pierce proceeding to 100%
 - #1 ranked project in 2024 State Revolving Fund Clean Water Intended Use Plan (IUP)
 - SRF Loan Application submitted
 - MBR Manufacturer Committee has recommended Veolia Zeeweed MBR
- Anticipated Construction: Fall 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
 - In-road construction continues
 - Sewer construction within Bearses Way and Enterprise Road intersection continues
 - Additional sewer tie-ins and testing to take place over the next several weeks
 - Anticipate construction completion prior to Memorial Day and final restoration anticipated this Fall



Straightway & Hyannisport Water Treatment Facilities Improvements

Status: With Procurement

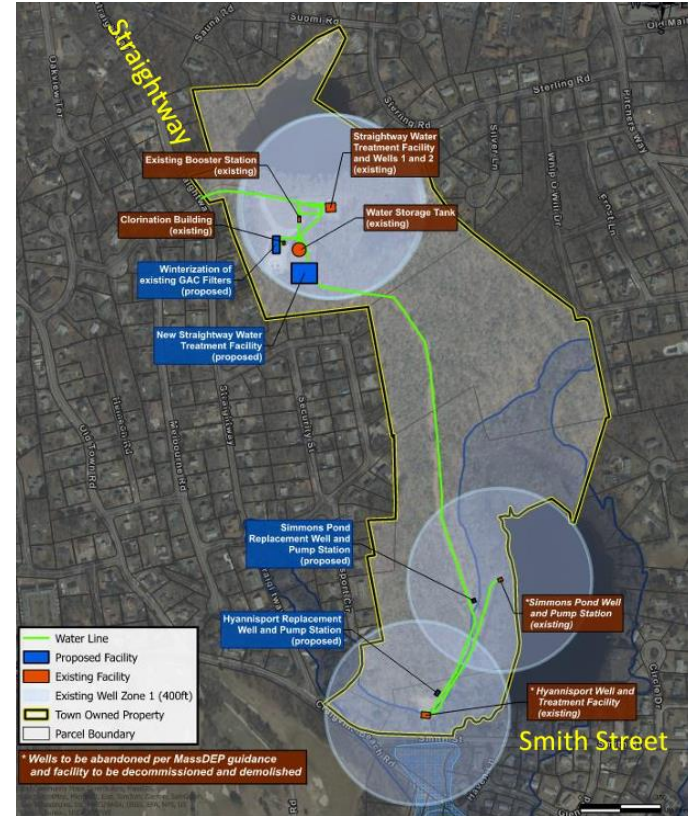
- SRF Loan Application submitted
- Spring – Summer 2025: Bidding and contract award
 - Construction contract bid has been advertised
 - Submissions due May 16, 2025
- Anticipated Construction: Fall 2025 (approx. 2-year duration)

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 anticipated to commence week of April 21, 2025
- Assessing and creating an inventory of the Town's culvert network

Spring 2025 Cape Cod Pond and Lake Stewardship (P.A.L.S.)

Water Quality Monitoring

- **Status:** Sampling in progress
- Provides an annual 'snapshot' of the Cape's pond and lake water quality
- Collaborative effort involving: Town staff, Barnstable Clean Water Coalition and citizen volunteers

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



