

# Water Resources Management Update

Barnstable Town Council

December 10, 2024  
Town Hall Hearing Room



Town of Barnstable  
Department of Public Works



# CWMP Regulatory Compliance

## Watershed Permit

- Submitted on September 1, 2023, with the request for a Watershed Permit covering the entire Town of Barnstable, and to remain on the previously approved 30-year implementation schedule.
- Completed MassDEP Administrative Review on August 1, 2024.
- Technical Review meeting held with MassDEP on September 16, 2024.
- Draft Permit Review meeting held with MassDEP.

## Five-Year Adaptive Management Plan Update

- Comprehensive Wastewater Management Plan Ad Hoc Committee meeting monthly
- This Committee will be instrumental in preparing policy and adaptive management recommendations to be presented as part of the five-year update

# Projects with Sewer Available

Name	Status	Available Connections	Completed Connections	Percent Connected	Permits
Stewart's Creek <sup>+</sup>	Completed	227	193	85.0%	0
Hyannis Avenue <sup>§</sup>	Completed	17	11	64.7%	1
Strawberry Hill Road	Closeout	151	63	41.7%	19
Route 28 East <sup>*</sup>	Substantially Complete	-	-	-	-
<b>TOTAL</b>		<b>395</b>	<b>267</b>	<b>67.6%</b>	<b>20</b>

<sup>+</sup>Project completed prior to CWMP.

<sup>§</sup>Privately funded project, benefiting the CWMP.

<sup>\*</sup>Notice of Sewer Availability by EOY

# Centerville Village Sewer Expansion Project-North Phase

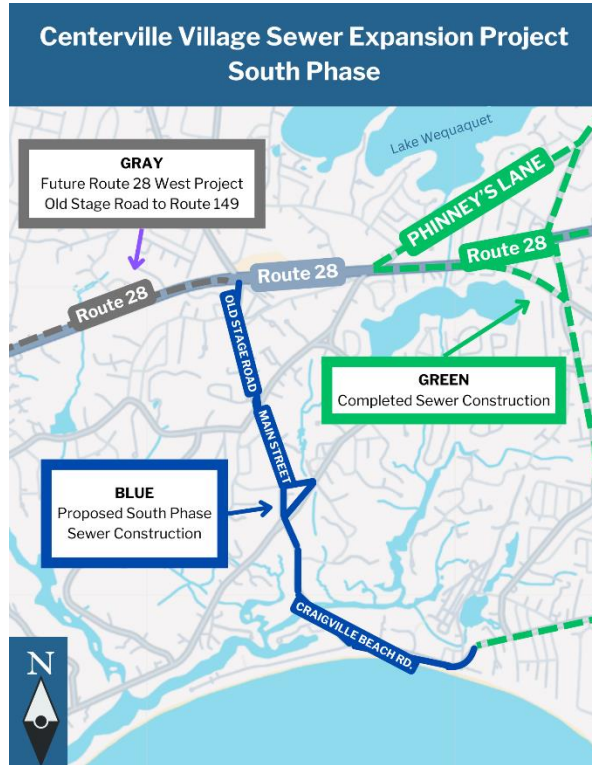


## Status: Construction Startup

- Contractor: C.C. Construction, Inc.
- Pre-Construction Activities occurring
- Construction to begin January 2025
- Scheduled to be completed in Spring 2027.



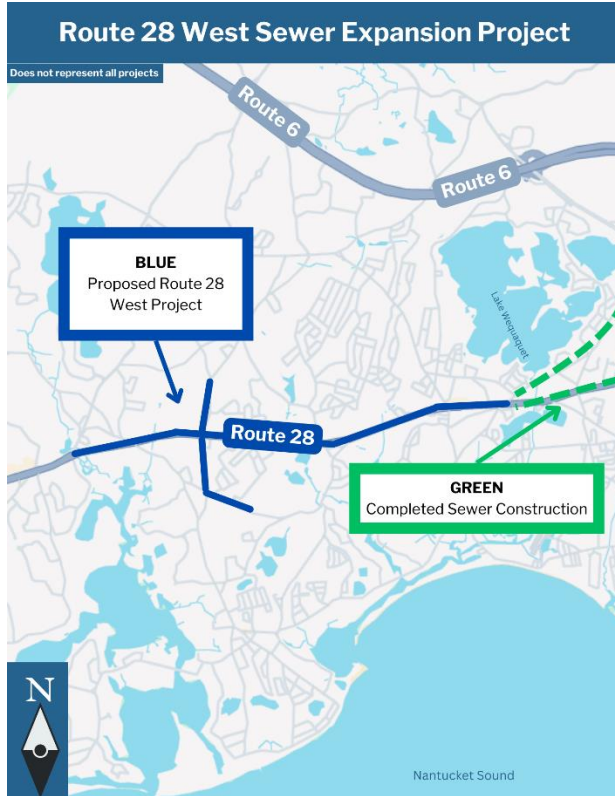
# Centerville Village Sewer Expansion Project-South Phase



## Project Status: Design

- 50% Design Plans reviewed
- Anticipate informational meeting in Spring 2025
- Construction anticipated to commence in Fall 2025

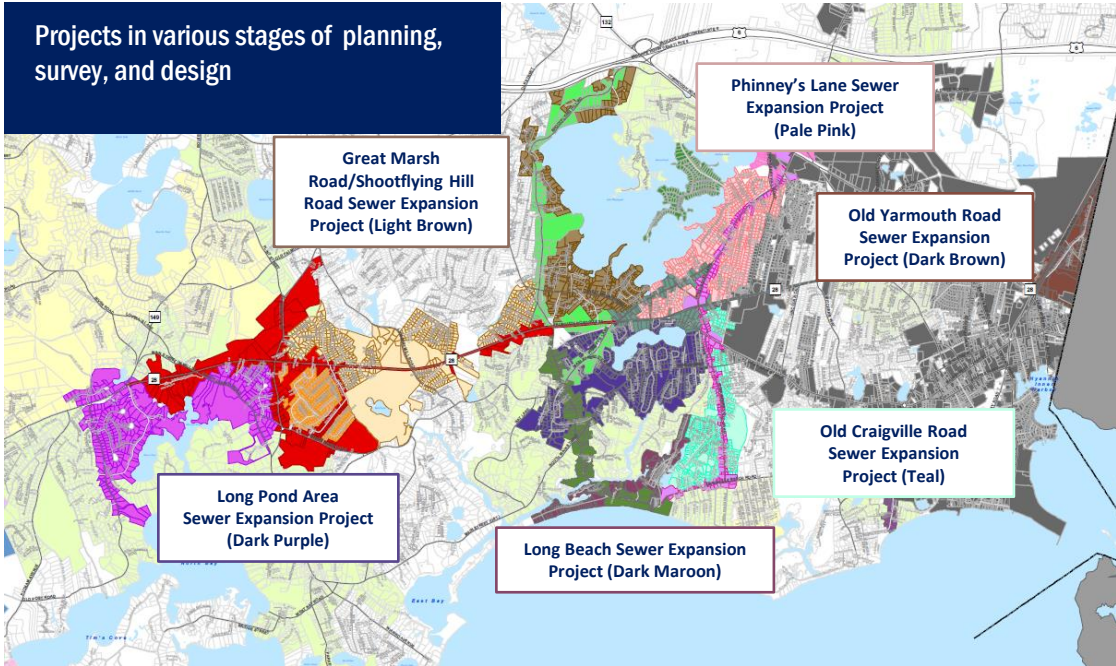
# Route 28 West Sewer Expansion Project



## Project Status: Design

- 50% Design Plans reviewed
- SRF Loan Application Submitted
  
- Anticipate informational meeting in Spring 2025
- Construction anticipated to commence in Fall 2025

# Additional Sewer Expansion Projects In Design



## Phinney's Lane Neighborhoods

- Final design awarded to Weston Sampson.
- Construction anticipated to commence in Fall 2026

## Long Pond Area and Long Beach Road Projects

- Preliminary design completed.
- Preparing RFP for final design.
- Construction anticipated to commence in 2027

## Great Marsh Road/Shootflying Hill Road Neighborhoods

- 75% survey plan received and in review
- Construction anticipated to commence in 2028

## 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

# 720 Main Street Pump Station Replacement Project

## Project Details:

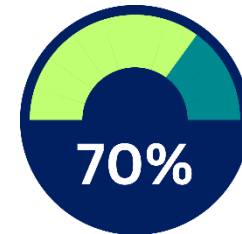
- Part of the Town's Sewer Pump Station Rehabilitation Program
  - Will address capacity concerns within the Town's Growth Incentive Zone (GIZ) as well as replace aging infrastructure

## Pump Station Construction:

- On-site work continues
  - On-site work hours: 7:00AM – 4:00PM
  - Structure is advancing above ground.

## In-Road Sewer Construction:

- In-road work resuming, to include:
  - Dumont Drive connection into pump station
  - South Street @ Sea Street connection
  - Sewer tie-ins on Main Street
- Construction anticipated to be completed in Spring 2025
- Project remains on schedule and on budget





# Water Pollution Control Facility

## Nitrogen Removal and Headworks Improvements

- #1 ranked project in 2024 Draft Clean Water Fund Intended Use Plan (IUP)
  - Appropriation and Loan Order 2024-112 for funding the Water Pollution Control Facility Upgrades Project on April 25, 2024
- 90% design review anticipated for January 2025
- MBR Manufacturer Committee has recommended Veolia Zeeweed MBR
- Construction anticipated to commence in Fall 2025
- SRF Loan Application submitted

## Effluent Disposal Evaluation

- Water Reuse and Disposal Alternatives Analysis in progress with CDM Smith
- Hosting monthly meetings with MassDEP



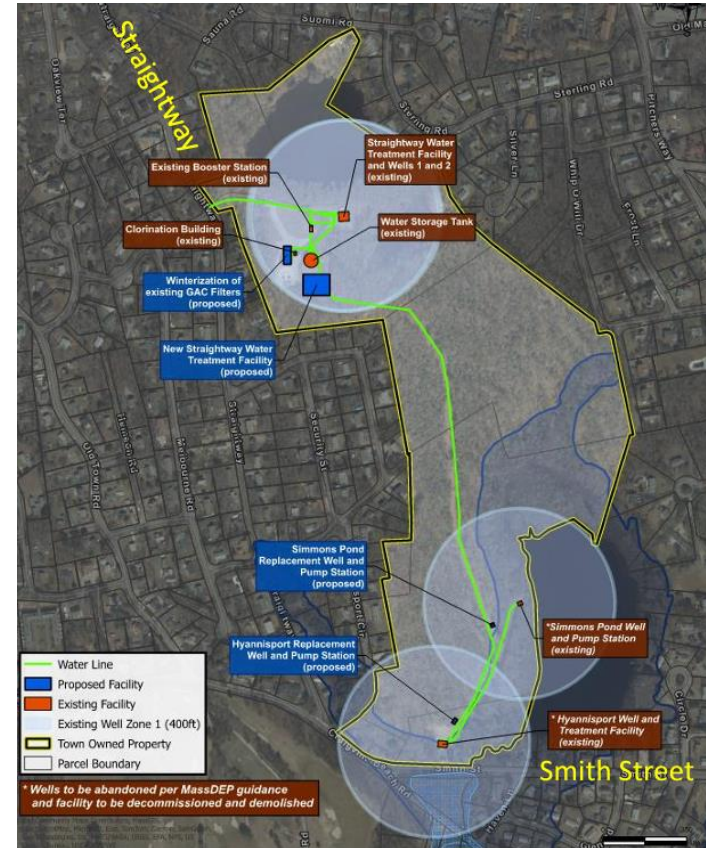
# Straightway & Hyannisport Water Treatment Facilities Improvements

## Project Purpose

- 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 Status & Next Steps

- SRF Loan Application submitted
- Project page available on Town of Barnstable website: <https://townofbarnstable.us/Departments/watersupply/Straightway-Water-Treatment-Plant.asp>
- Anticipated Schedule:
  - **Fall 2024 – Winter 2025: Final design and permit approvals**
  - Spring – Summer 2025: Bidding and contract award
  - Fall 2025: Anticipated construction start; approximately 2-year duration



# Water Quality

## Clamshell Cove Road and Old Shore Road, Cotuit Stormwater Improvement Projects

- Natural Resources Conservation Service (NRCS) grant to fund drainage improvements to reduce stormwater
- Design plans for both sites are available for review at <https://barnstablewaterresources.com/stormwater/>
- Construction anticipated to begin Fall 2025

## Mystic Lake Alum Treatment

- Occurred December 3-5, 2024

## Mill Pond Dredging

- Addressing Nitrogen levels
- Kick-off meeting held 12/05/24 with Woods Hole Group (WHG)
- WHG compiling existing data and identifying gaps.
- Data collection/alternatives analysis anticipated in June 2025.

## Cyanobacteria Monitoring Program

- Will resume Spring 2025

## Long Pond Marstons Mills, Floating Treatment Wetland Pilot Project

- Research project by UMass Dartmouth's School for Marine Science & Technology (SMAST)
- Project is stored for winter
- Samples to be taken in Spring and Fall 2025; Final Report due in 2026



*Happy Holidays!*

