



Water Resources Management Update

Barnstable Town Council

**Department of Public Works
January 18, 2024**



Route 28 East Sewer Expansion Project

Project Status: On schedule for completion in late Spring 2024

Route 28 East
Sewer Expansion Project
(Purple)

Phinney's Lane
Pump Station

65%
COMPLETE

Foundational piece of infrastructure for the CWMP

Sewer Construction:

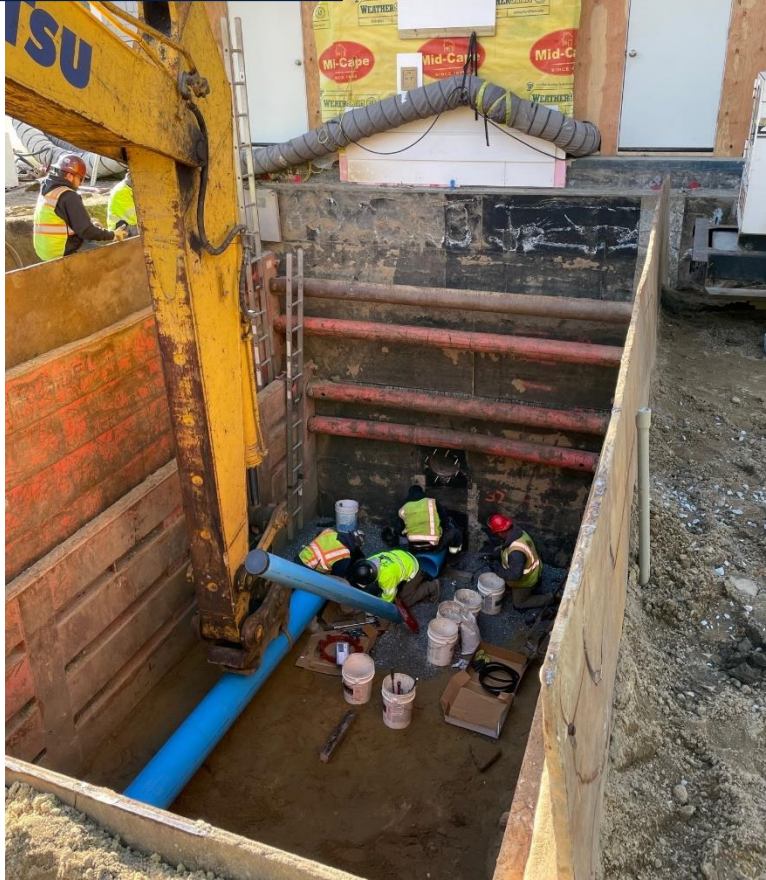
- Continuing to operate with two crews:
 - Crew 1: Phinney's Lane, from Great Marsh Road to Wequaquet Lane
 - Crew 2: To transition to West Main Street in late January, from Route 28 to Strawberry Hill Road
- Anticipated construction completion Spring 2024
 - Sewer connections available as early as Fall 2024

Phinney's Lane Pump Station:

- Building construction continues
- Electrical work has commenced
- Anticipated completion Spring 2024

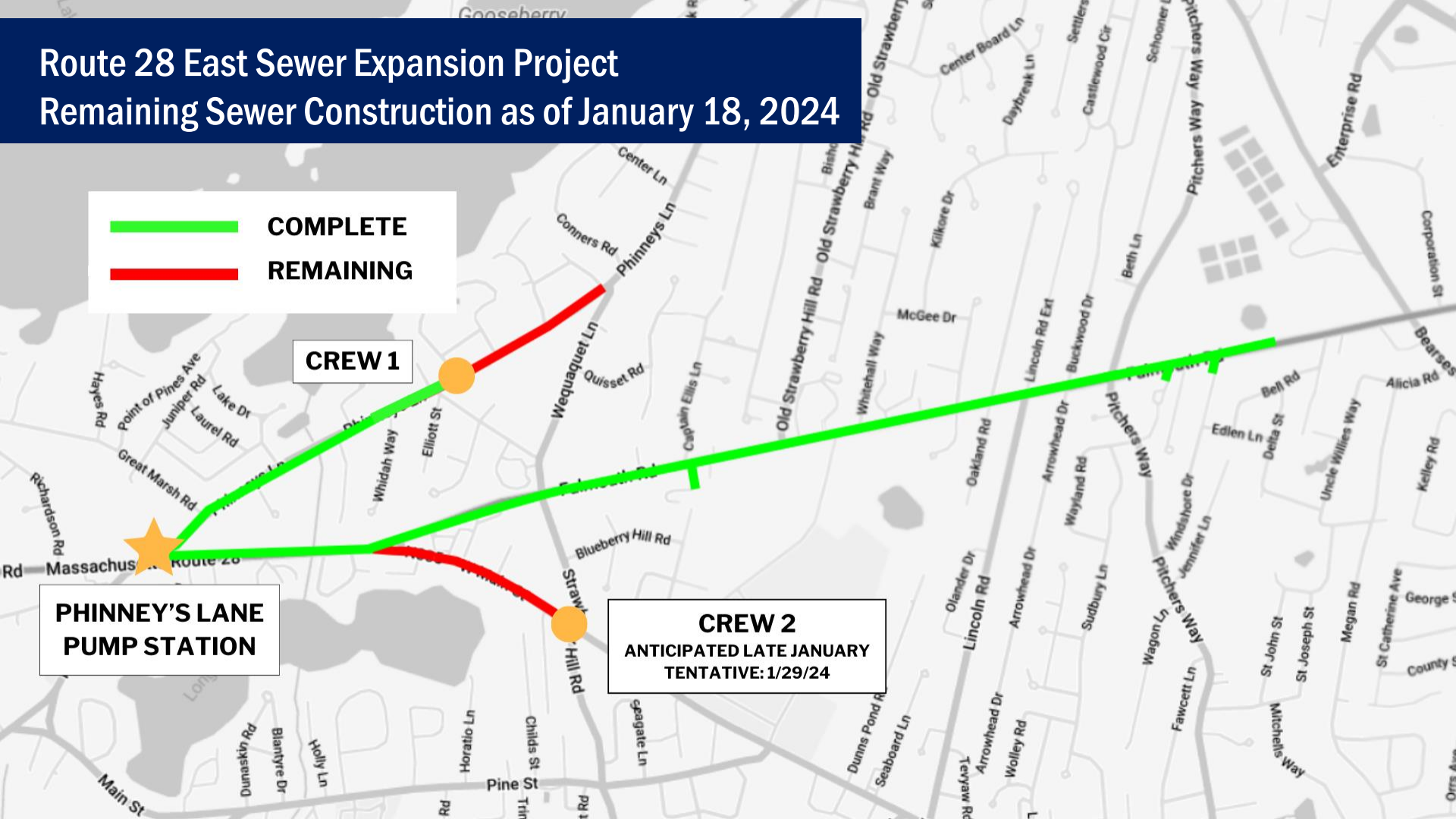


Phinney's Lane Pump Station:
January 2023



Route 28 East Sewer Expansion Project

Remaining Sewer Construction as of January 18, 2024



Strawberry Hill Road Sewer Expansion Project

**Project Status: Construction completed
Sewer Connection Handbook in progress**

**Strawberry Hill Road
Sewer Expansion Project
(Green)**

**95%
COMPLETE**

Sewer construction:

- All gravity sewer, service laterals, and sewer service riser construction is complete
- Strawberry Hill Road Pump Station final testing and startup in process
- First connections for a portion of the project route anticipated Spring 2024
 - Phinney's Lane from Route 132 to Statice Lane
 - Wequaquet Lane from Quisset Road to Route 28
 - Strawberry Hill Road from Route 28 to Craigville Beach Road
 - West Main Street from Strawberry Hill Road to Old Strawberry Hill Road
 - Craigville Beach Road from Strawberry Hill Road to Jackson Avenue

Restoration:

- Vineyard Wind completing paving as part of Host Community Agreement
 - Remaining roadways, Spring 2024:
 - Wequaquet Lane
 - Strawberry Hill Road (Route 28 to Pine Street)



Centerville Village Sewer Expansion Project

Project Status: Construction anticipated to commence in 2024

ORIGINAL PROJECT SCOPE

Centerville Village Sewer Expansion Project (Brown)



PROPOSED NORTHERN PHASE

Includes Mother's Park Pump Station & portion of Route 28 West (Red)



**75%
of design
complete**

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

Project Details:

- Continuing to design both phases of the project in tandem
- Securing State Revolving Fund (SRF) funds
 - Requires construction contract be in place by this summer

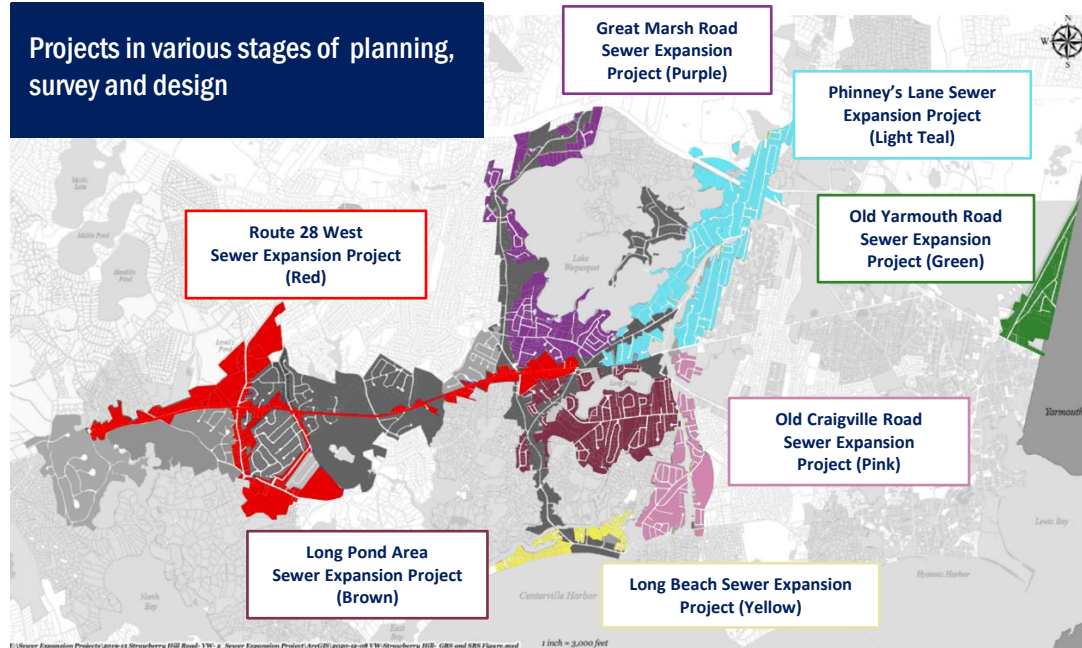
Proposed Northern Phase:

- New Business: 2024-093 (First Reading)
- Phase includes Mother's Park Pump Station and a portion of Route 28 West
- Proposed segmentation to advance the northern portion of the project which does not require as close coordination with PCW
 - To maximize SRF funding and associated principal subsidy from Cape and Islands Water Protection Fund
 - Southern portion of project to be constructed in sequence with PCW



Additional Sewer Projects in Design

Projects in various stages of planning, survey and design



Route 28 West

- 3rd ranked project in 2024 Draft Clean Water Fund Intended Use Plan (IUP)
- Preliminary design on-going
- Construction anticipated to commence in 2025
- Submitted MassDOT permit application

Phinney's Lane Neighborhoods

- Preliminary design on-going
- Continuing private roadway utility easement takings and siting of sewer pump stations
- Construction anticipated to commence in 2026

Great Marsh Road Neighborhoods

- Survey anticipated to be complete January 2024
- Construction anticipated to commence in 2028

Long Pond Area and Long Beach Road Projects

- Preliminary design and survey on-going
- Construction anticipated to commence in 2027

Old Yarmouth Road

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

Old Craigville Road Projects

- Survey efforts on-going
- Construction anticipated to commence in 2030



Water Pollution Control Facility

Solids Processing Facility Upgrades

- Chemical containment room, construction complete
- Painting, automation, and miscellaneous finish work continues
- Substantial project completion anticipated February 2024

720 Main Street Pump Station Replacement Project

- Mobilization and site work efforts have commenced
 - Anticipate driving sheets for excavation support in February
 - In-road work anticipated to commence in February
- Initial resident and business outreach has been completed; efforts on-going as construction progresses

Nitrogen Removal and Headworks Improvements

- #1 ranked project in 2024 Draft Clean Water Fund Intended Use Plan (IUP)
- Basis of design report in review, moving into final design
- Bid for preselection of the MBR due January 31, 2024
- Construction start anticipated Fall 2025

Effluent Disposal Evaluation

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



*Solids Processing Facility
Painting continues*



Water Quality

Association to Preserve Cape Cod (APCC)

Boat Ramps Stormwater Improvement Project – Shubael Pond

- 25% design plans in progress
- Anticipate a public participation meeting Spring 2024

Clamshell Cove Road Stormwater Improvement Project

- Natural Resources Conservation Service (NRCS) grant to fund drainage improvements to reduce stormwater inputs into the Shoestring Bay estuary
- Existing conditions survey, complete
- Kick-off meeting scheduled January 23, 2024

Old Shore Road, Cotuit Stormwater Improvement Project

- In partnership with NRCS
- Consultant contracted to develop plans for improvements along this boat ramp
- Project will be completed in conjunction with Clamshell Cove Road Stormwater Improvement Project



Old Shore Road stormwater improvements to be completed in conjunction with Clamshell Cove Road

