



Water Resources Management Update

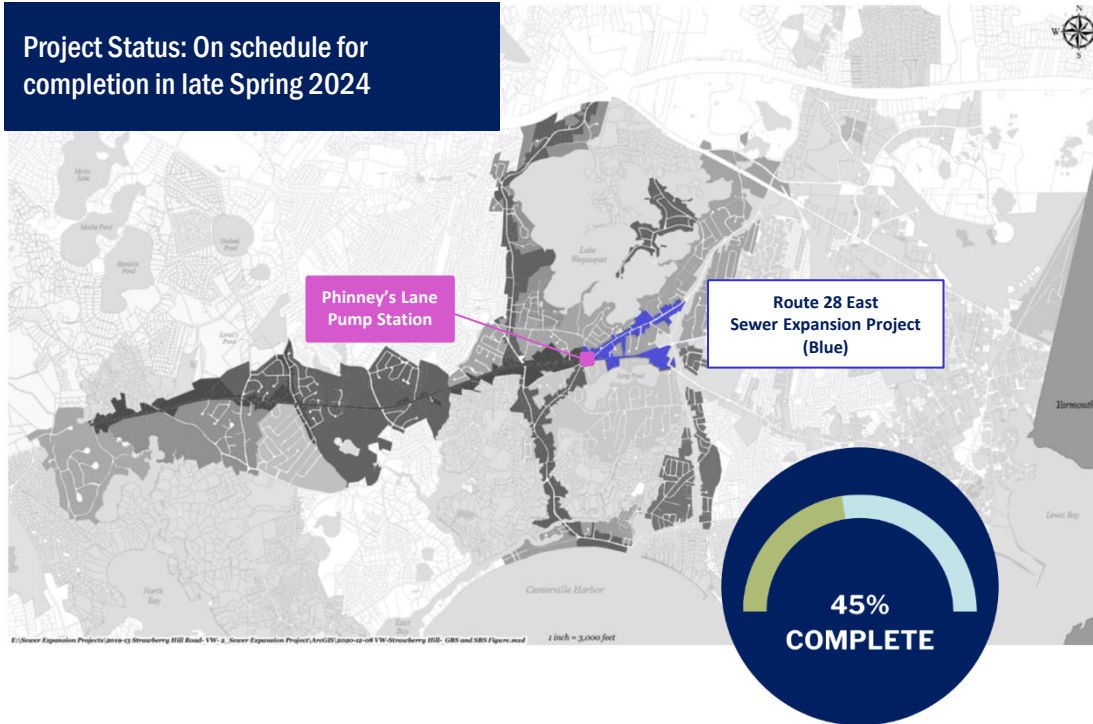
Barnstable Town Council

**Department of Public Works
October 19, 2023**



Route 28 East Sewer Expansion Project

Project Status: On schedule for completion in late Spring 2024



Project Status:

- In-road construction has resumed:
 - Currently operating in Phase 3, which requires single-direction detour of eastbound traffic, utilizing West Main Street and Pitcher's Way
 - MassDOT permitted work hours 8:15AM to 5:30PM
- Contractor will continue to operate with two crews on Route 28 throughout the Fall
 - Sewer construction within Route 28 anticipated to be complete by mid-November
 - Water main work to follow

Phinney's Lane Pump Station:

- All below grade sewer work is complete
- Roofing in progress

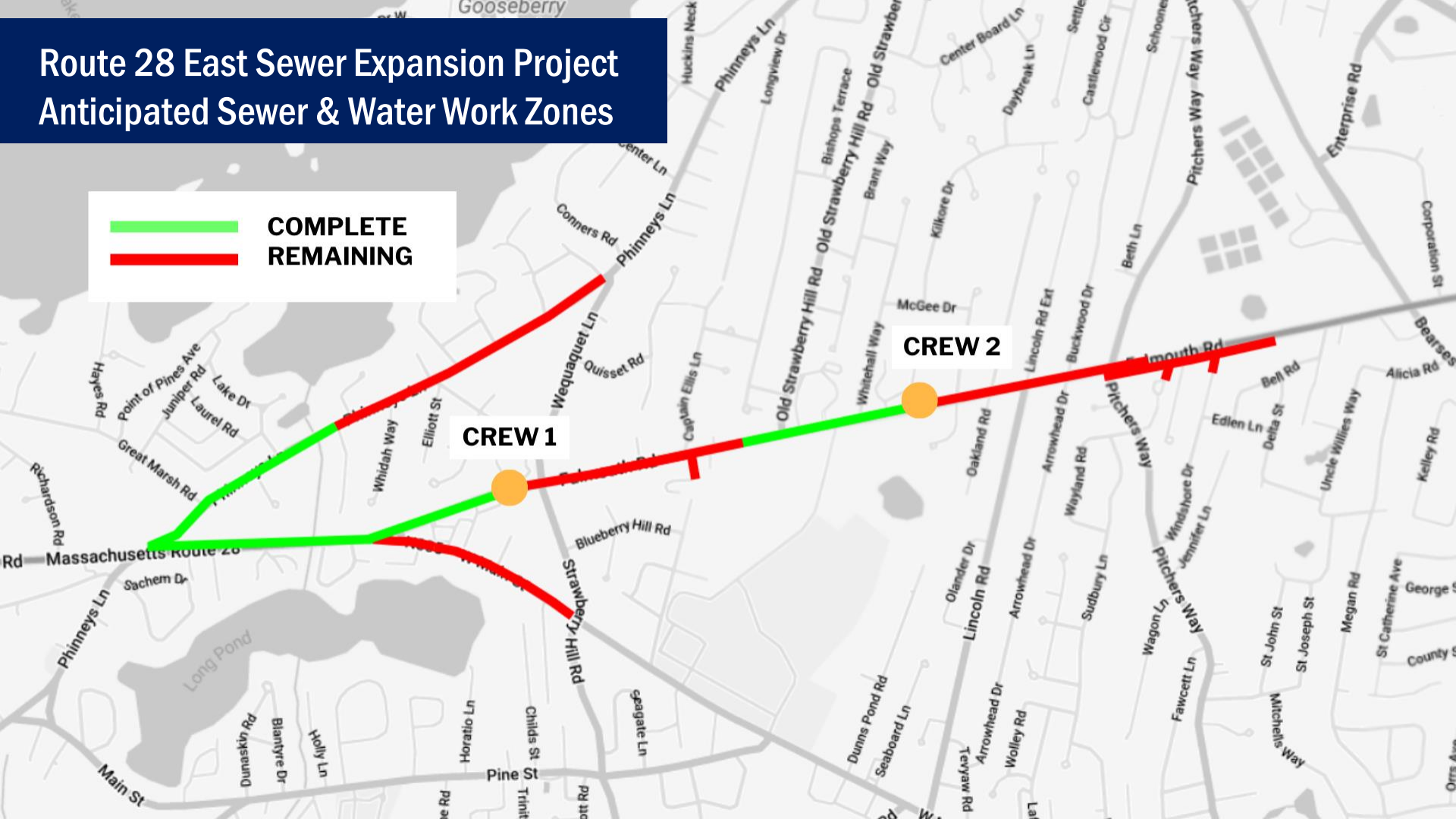


Route 28 East Sewer Expansion Project

Anticipated Sewer & Water Work Zones

 COMPLETE

 REMAINING



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 began 10/6/23, approximately 20% complete
- First connections anticipated Spring 2024

Restoration:

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

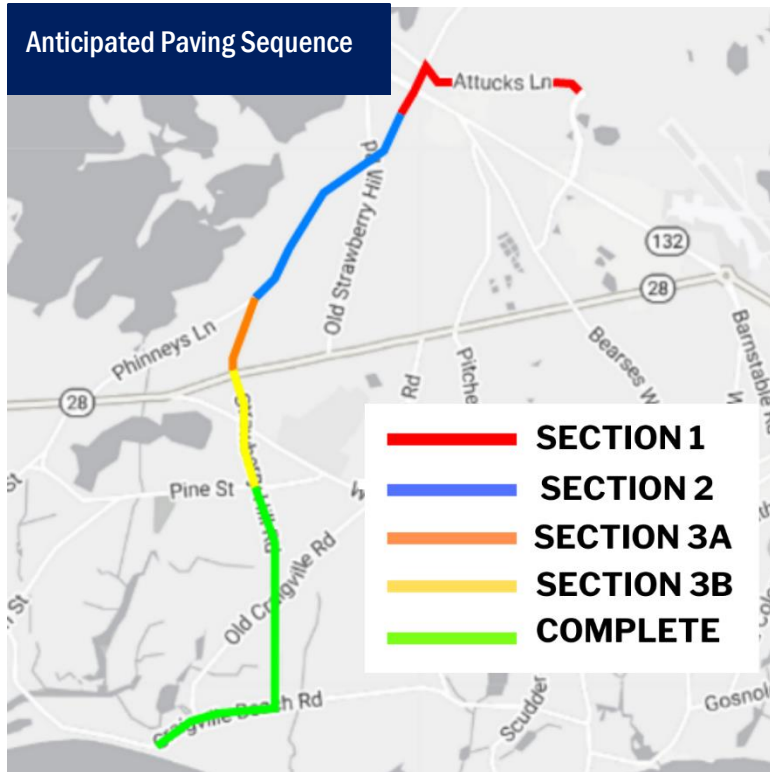
Strawberry Hill Road Sewer Pump Station:

- Electrical service installed
- Generator and pump station testing and start-ups being scheduled



Strawberry Hill Road Sewer Expansion Project

Paving Restoration Efforts



Anticipated Paving Sequence:

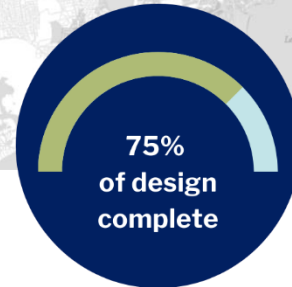
- Final paving of the Strawberry Hill Road project route to occur in sections:
 - Section 1: Attucks Lane, starting as early as next week, 10/23
 - Section 2: Phinney's Lane, from Route 132 to Wequaquet Lane
 - Section 3A: Phinney's Lane from Wequaquet Lane to Route 28
 - Section 3B: Strawberry Hill Road, from Route 28 to Pine Street

Centerville Village Sewer Expansion Project

Project Status: Construction anticipated to commence in 2024

Centerville Village
Sewer Expansion
Project (Purple)

E:\Sewer Expansion Projects\2019-23 Strawberry Hill Road-VW-2_Sewer Expansion Project\Arch\2020-22-08 VW-Strawberry Hill- GIS and SRV Figure.mxd 1 inch = 3,000 feet



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



Route 28 West Sewer Expansion Project

Project Status: Construction anticipated to commence in 2025

**Route 28 West
Sewer Expansion
Project (Red)**

**Preliminary
design**

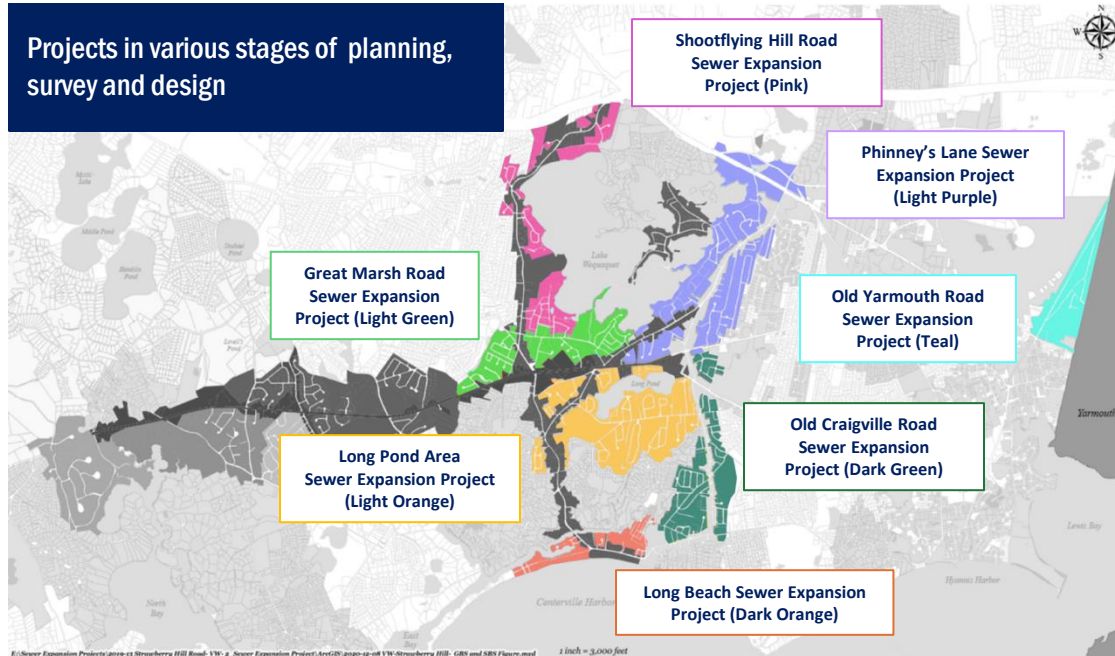
**Extends sewer on Route 28 from
Phinney's Lane to Route 149**

Project Details:

- Preliminary design and survey continues
- Soil borings in progress on the following Town Roads:
 - Falmouth Road, Osterville-West Barnstable Road, Bumps River Road, Oldham Road, and Old East Osterville Road
- 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

- Odor Control Systems put in place
- Fifth and final blower installed
- Final paving of septic receiving area completed
- Painting of pipes and walls ongoing
- SCADA automation and electrical programming activity ongoing
- Substantial completion anticipated January 2024

Nitrogen Removal and Headworks Improvements

- Preliminary design phase continues, anticipate moving into final design over the next few months

Effluent Disposal Evaluation

- Retained CDM Smith for next phase of work
- Water Reuse and Disposal Alternatives Analysis in progress



Solids Processing Facility pipe painting in progress

Water Quality

Water Quality Monitoring

- 2023 Cyanobacteria and Estuaries Monitoring, completed for the season
 - Data for 2022 season submitted to Cape Cod Commission

Clamshell Cove Road Stormwater Improvements

- Natural Resources Conservation Service (NRCS) grant to fund drainage improvements to reduce stormwater inputs into the Shoestring Bay estuary
- Initial planning and proposal development in progress

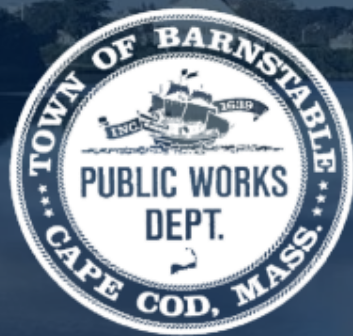
Lake Elizabeth Fish Ladder and Culvert Replacement

- NRCS grant to fund design and construction
- Reviewing 75% design plans for the fish ladder; initiating design work for the culvert



Sampling efforts at Centerville River Sentinel Station

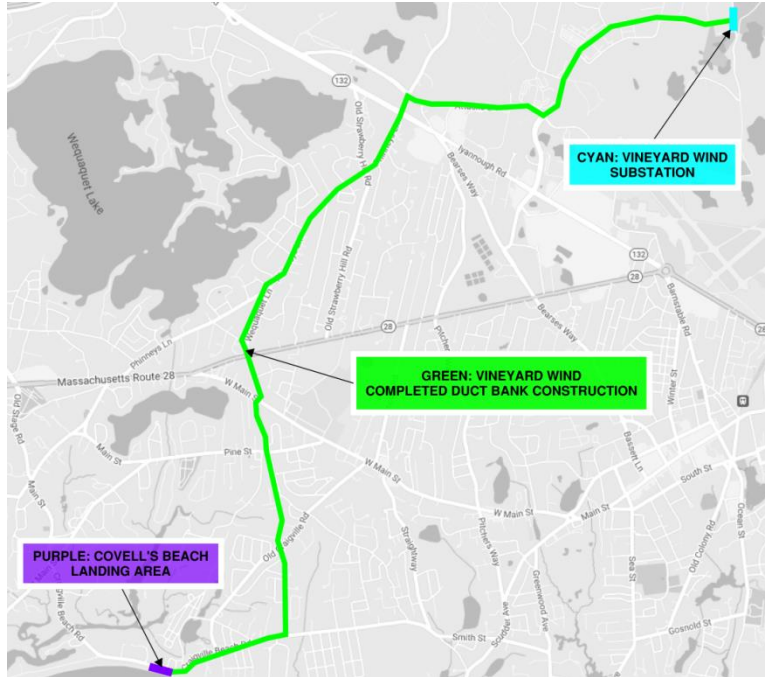




A serene landscape featuring a calm body of water in the foreground, reflecting the sky and distant houses. The sky is filled with soft, white clouds. In the background, several houses are visible, including a prominent white house with a red roof on the right. The overall scene is peaceful and scenic.

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

