



Water Resources Management Update

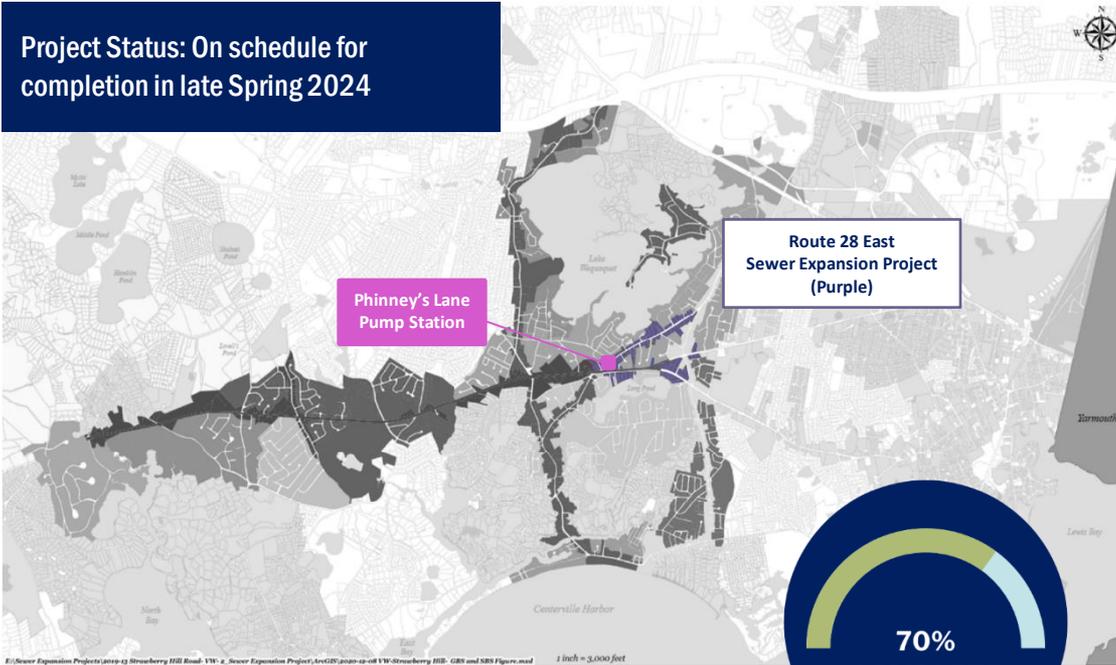
Barnstable Town Council

**Department of Public Works
February 15, 2024**



Route 28 East Sewer Expansion Project

Project Status: On schedule for completion in late Spring 2024



Active Construction:

- Crew 1: Phinney's Lane, from Great Marsh Road to Wequaquet Lane
 - Sewer services, water and drainage work remaining
- Crew 2: West Main Street, Route 28 to Strawberry Hill Road
 - 2/3 of gravity sewer complete
 - Sewer services and water work to follow
- Anticipated construction completion Spring 2024
 - Paving restoration anticipated late Spring 2024
 - Sewer connections available as early as Fall 2024

Phinney's Lane Pump Station:

- HVAC and electrical on-going
- Site grading has commenced
- Anticipated completion Spring 2024



Phinney's Lane Pump Station:
February 2023



Steve Heaslip, Cape Cod Times

Route 28 East Sewer Expansion Project

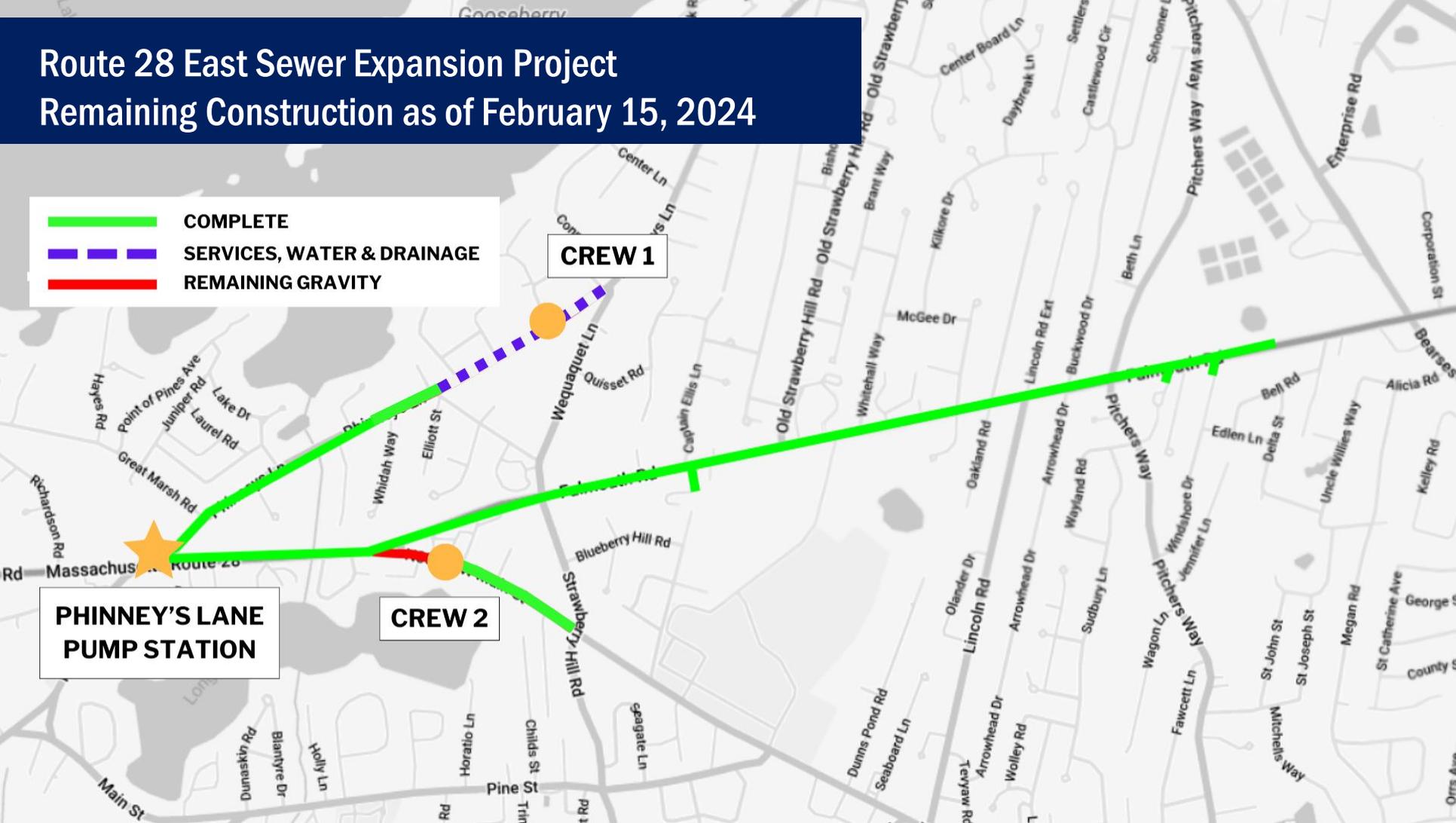
Remaining Construction as of February 15, 2024

-  COMPLETE
-  SERVICES, WATER & DRAINAGE
-  REMAINING GRAVITY

CREW 1

**PHINNEY'S LANE
PUMP STATION**

CREW 2



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:

- Working through project punch list and closeout
- 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 Statrice 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

Project Details:

- Securing State Revolving Fund (SRF) funds
 - Requires construction contract be in place by this summer
- Conservation Commission hearing anticipated for 2/20/24
 - To address work within regulated wetlands resources buffers, specifically within Northern Phase and Mother's Park locations

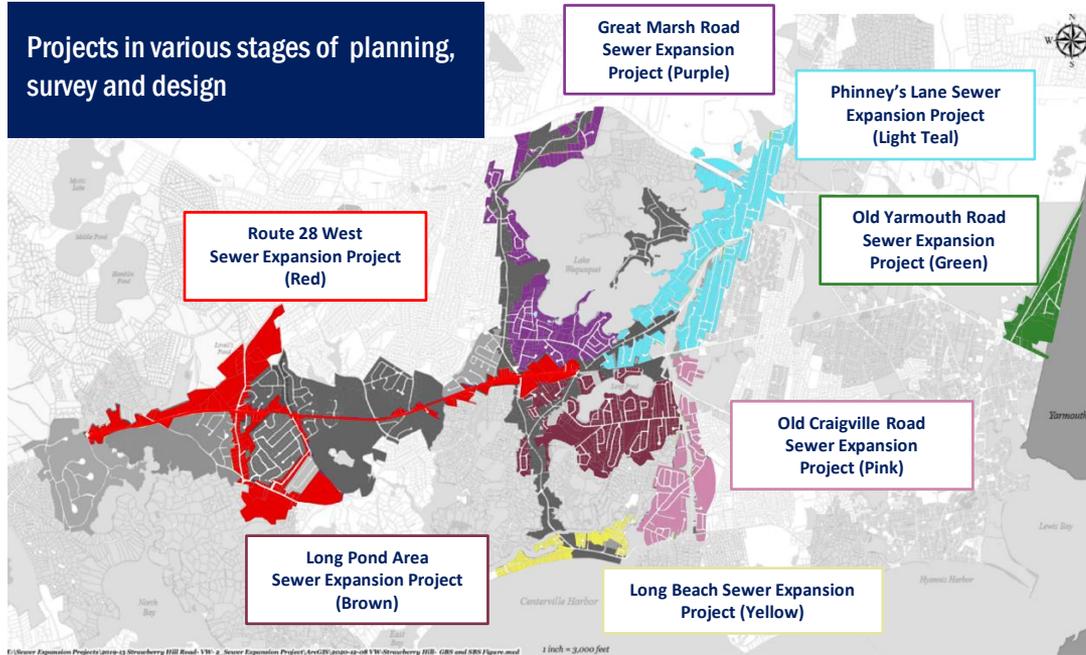
Proposed Northern Phase:

- Item #2024-093; first read on 1/18/24, public hearing and vote anticipated on 3/7/24
- Phase includes Mother's Park Pump Station and a portion of Route 28, from Phinney's Lane to Old Stage Road
- Proposed segmentation to advance the northern portion of the project
 - 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, will look to retain designer to progress to final design
- Continuing private roadway utility easement takings and siting of sewer pump stations
- Construction anticipated to commence in 2026

Great Marsh Road Neighborhoods

- Preliminary design and survey on-going
- 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

- Preliminary design and survey 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
 - Previous evaluations of the existing pump station, located at 720 Main Street, have determined that current infrastructure does not have the capacity to handle existing peak design flows and is approaching the end of its intended design life.
 - Sewers on South Street are approaching capacity; if unaddressed, would restrict growth within the Town's Growth Incentive Zone (GIZ)

Pump Station Construction:

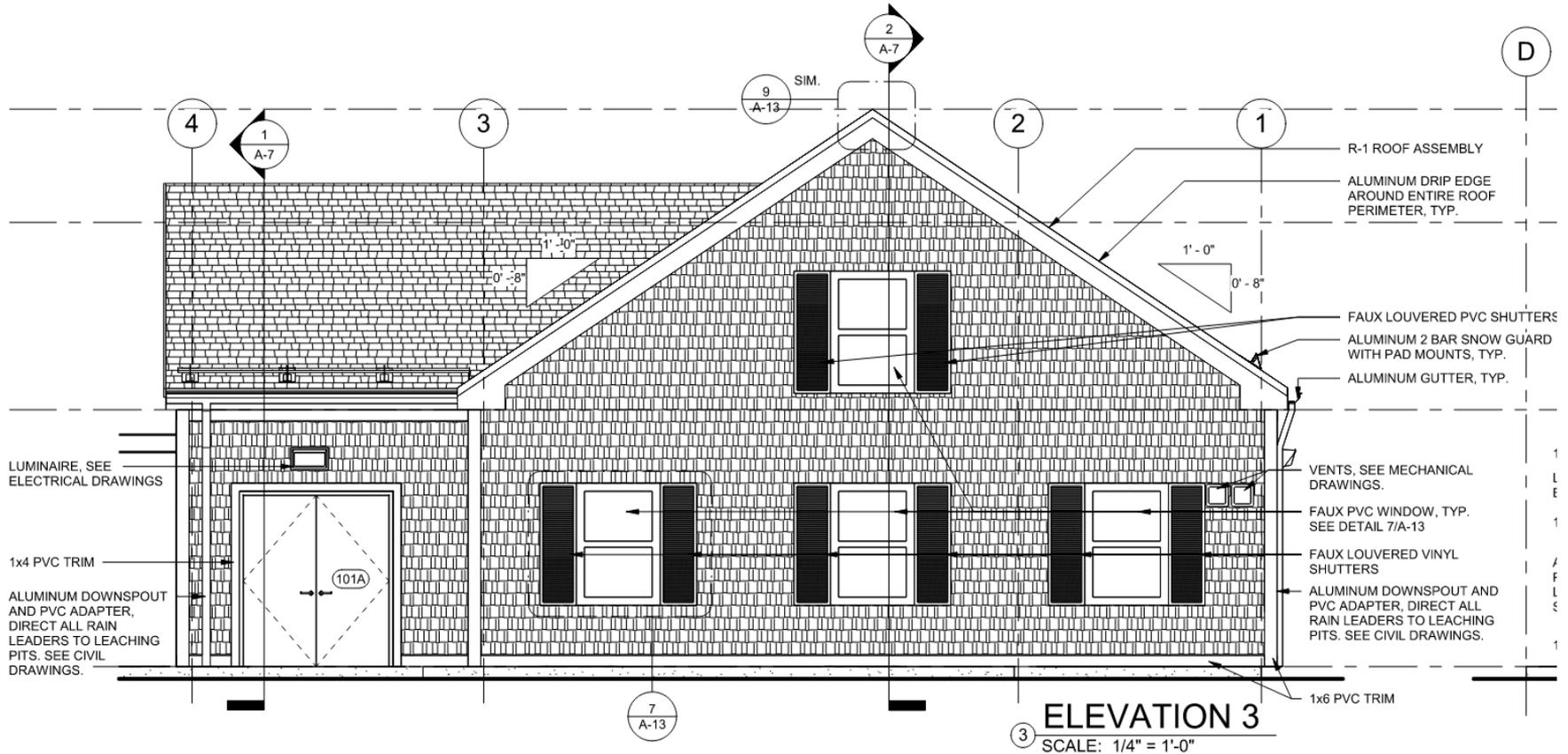
- Wet-pit, dry-pit style pump station
- Single story concrete masonry walls with cedar shake veneer and asphalt shingle roof
 - Building will house pumps, piping, odor control system, electrical systems, HVAC systems, instrumentation systems, and standby generator
- Installation of excavation support commenced in early February
 - On-site work hours: 7:00AM – 4:00PM

In-Road Sewer Construction:

- Section 1: 725 Main Street to Potter Avenue
 - In-road work hours: 8:30AM – 5:00PM
 - Requires single-direction detour of westbound thru-traffic from Stevens Street to the West End Rotary
 - Neighborhood Meeting held on Thursday, 2/8/24



Proposed 725 Main Street Pump Station: Looking South from Main Street



Water Pollution Control Facility

Solids Processing Facility Upgrades

- Substantial project completion expected by end of month
- Next phase of work will include working through project punch list

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
- MBR bid applicants under review
- 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
Pipe painting continues*



Water Quality

Association to Preserve Cape Cod (APCC)

Boat Ramps Stormwater Improvement Project – Shubael Pond

- 25% design plans in progress
- Existing Conditions Survey plan is under review
- Anticipate a public participation meeting Spring 2024

Clamshell Cove Road and Old Shore Road, Cotuit

Stormwater Improvement Projects

- Natural Resources Conservation Service (NRCS) grant to fund drainage improvements to reduce stormwater inputs into the Shoestring Bay estuary
- Kick-off meeting completed; projects will be completed together
- Wetlands delineation on Old Shore Road is in progress

Long Pond, Marstons Mills Floating Treatment Wetland

- Request for Quote issued on 2/12/24
- Procuring recommended plants from New England Wetland Plants
- Anticipating Spring 2024 deployment



