Town of Nantucket

# Nantucket Harbor Shimmo & Plus Parcels Sewer Project

## Public Outreach Presentation

to Interested Property Owners

Bayberry, Tashama/MacLean & Green Meadows Areas

May 16th, 2017

Town of Nantucket

# Nantucket Harbor Shimmo & Plus Sewers

## Project Team:

- Town Administration
  - C. Elizabeth Gibson, Town Manager
- Nantucket Sewer Department
  - David Gray, Sewer Director
- Weston & Sampson
  - Drew Patnode
  - Steve Pedersen
  - Laurie Toscano
- Owner's Project Manager (OPM)
  - Frank Ayotte, Hazen-Sawyer
- Construction Contractor (TBD)

# Agenda

- Project Background - A Look Back
- Project Status & Details - Current Snapshot
- Continuing Project
  - A Look Ahead
  - Cost Considerations
  - Anticipated Schedule
  - Ways to Stay Connected
- Question & Discussion and Community Input

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# Nantucket Harbor Shimmo & Plus Sewers

## Project Background - A Look Back:

- Comprehensive Wastewater Management Planning effort Recommended Sewer Extension Areas in the Surfside WWTF tributary

Nantucket
Wastewater Management Plan Update
Comprehensive Wastewater Management Plan (CWMP) Update Complete

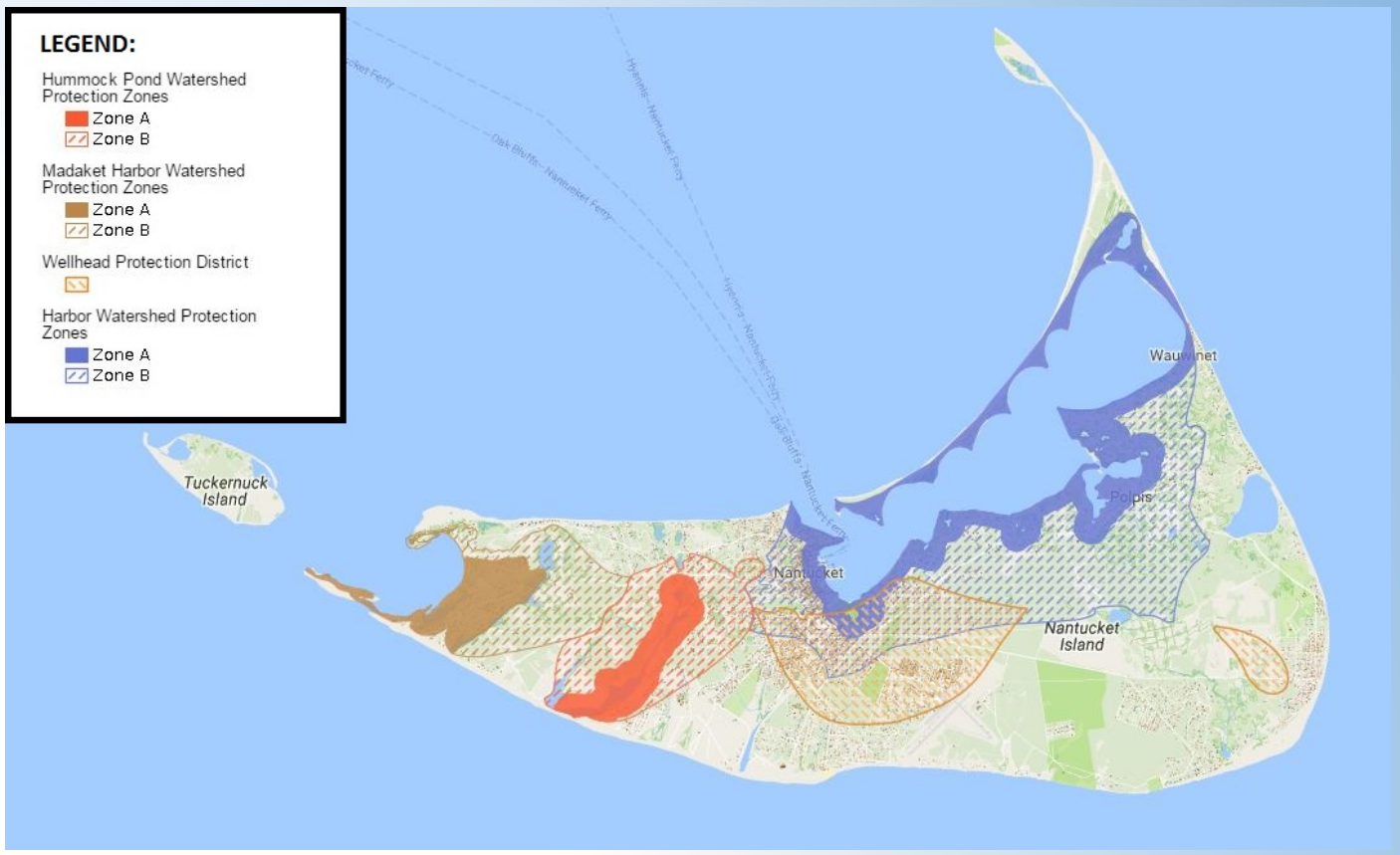
Wastewater Plan Update

TOWN OF NANTUCKET BOARD OF SELECTMEN

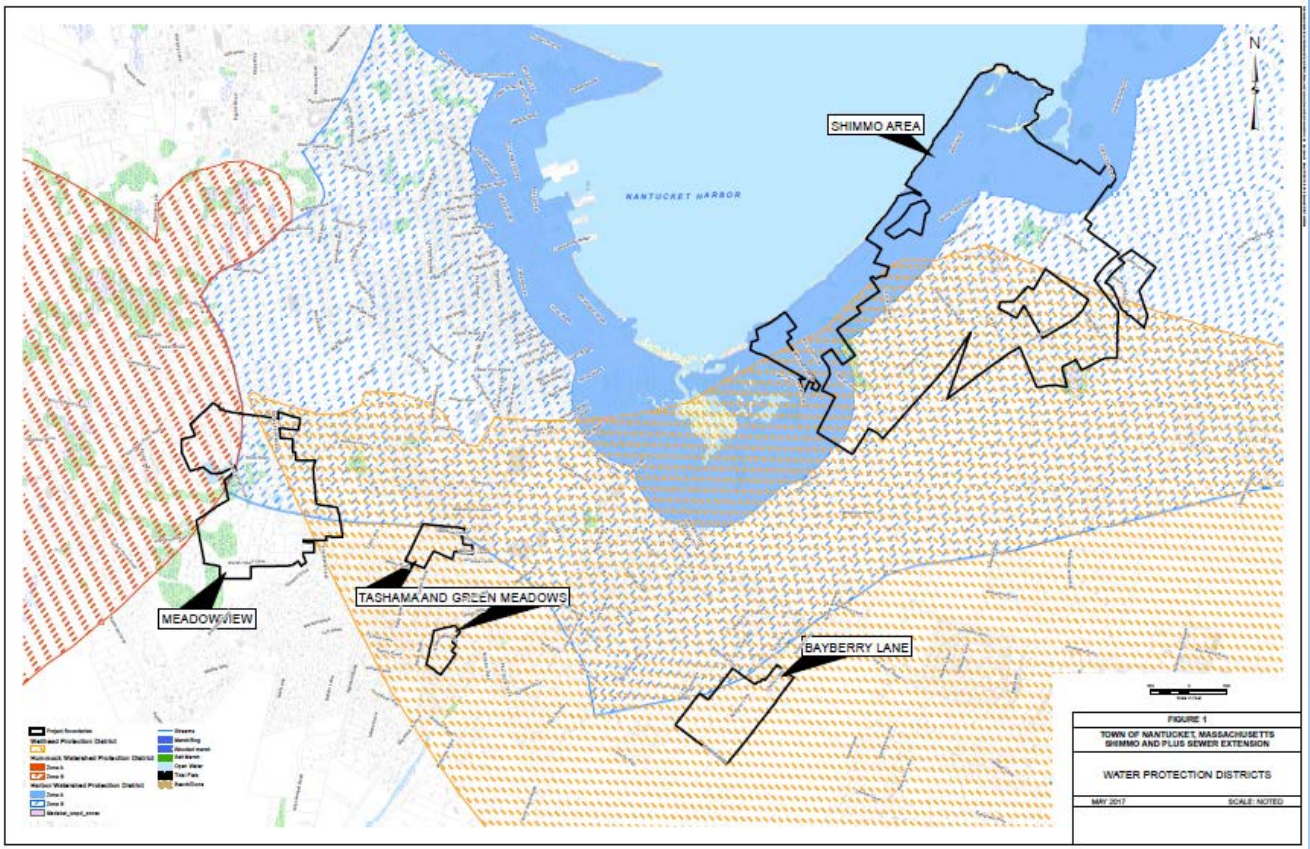
Town of Nantucket

# Nantucket Harbor Shimmo & Plus Sewers

## Project Background - A Look Back: Water Protection Districts



# Project Background - A Look Back: Water Protection Districts in Project Areas



## Project Background - A Look Back:

- These specific Areas were Voted by Nantucket Town Meeting, April 2016 to proceed to Implementation
  - Nantucket Harbor Shimmo Area
  - Plus Parcels Sewer Areas - 4 infill areas
    - Meadow View Drive Area
    - Bayberry Lane Area
    - Tashama/Maclean Area
    - Green Meadows Area

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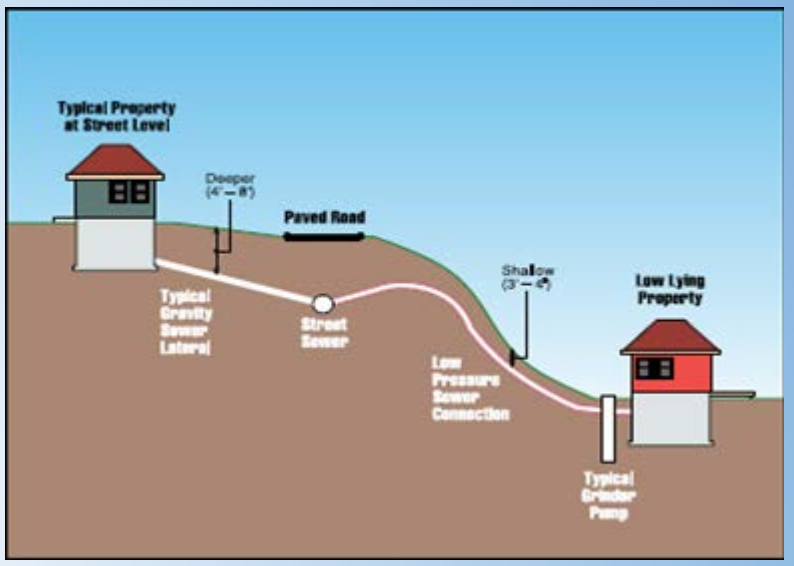
## Project Status & Details - Current Snapshot:

- Need for Sewer Extension Project (from CWMP)
- Basis of Design Report Completed
  - Refined Areas
  - Evaluated Technologies/Alternatives
    - Gravity with Pump Stations
    - Low Pressure with Grinder Pumps
    - STEP Systems
    - Vacuum Systems
    - SDVS Systems
    - Hybrid Systems
  - Recommended a Hybrid System with Gravity and Low Pressure
  - Developed Preliminary Layouts



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# Nantucket Harbor Shimmo & Plus Sewers

## Project Status & Details - Current Snapshot:

- Refined Sewer Connection Points
- Field Survey & Subsurface Investigations
  - Roadway & Existing Utility Survey
  - Soil Borings & Geotechnical Investigations
  - CCTV Investigation for Downstream Capacity Analysis
- Development of Plans & Specifications
- Sewer Utility Easements for Private Roads
- Project Permitting
  - Natural Heritage & Endangered Species Program
  - Archaeological Sensitivity Analysis
  - Conservation Commission Notice of Intent
  - Nantucket Historic District Commission

# Project Status & Details - Current Overall Snapshot:

- Properties Served by Proposed Sewer Extensions
  - Approximately 360 properties to be Connected
- Gravity Sewer (approx. 13,000 feet)
  - Meadow View, Tashama/Maclean & Green Meadows Areas
  - Including 2 Pump Stations with 5,000 feet of force main
- Low Pressure Sewers (approx. 32,000 feet)
  - NH Shimmo & Bayberry Areas
  - Low Pressure Approach Required due to Topography
  - Systems Require Individual Pump Units for Each Home

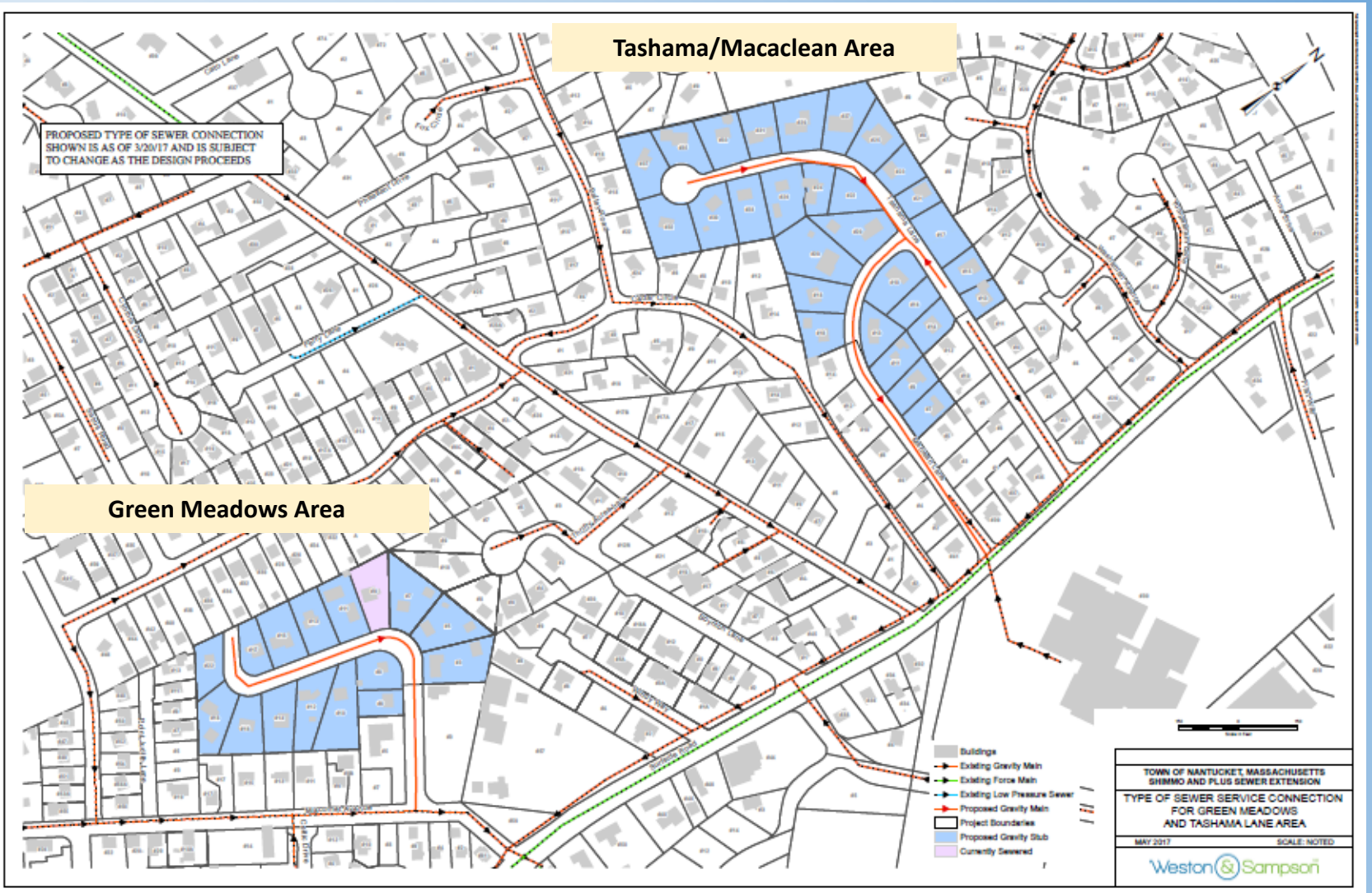
# Project Status & Details - Current Snapshot Tashama/ MacLean:

- Properties Served by Proposed Sewer Extensions
  - Approximately 32 properties to be Connected
- Gravity Sewer (approx. 1,900 feet)
  - Tashama Lane/ MacLean Lane
- ~~Low Pressure Sewers (approx. 400 feet)~~
  - ~~Tashama Lane~~
  - ~~Low Pressure Approach Required due to Topography~~
  - ~~Systems Require Individual Pump Units for Each Home~~

# Project Status & Details - Current Snapshot Green Meadows:

- Properties Served by Proposed Sewer Extensions
  - Approximately 19 properties to be Connected
- Gravity Sewer (approx. 900 feet)
  - Green Meadows Areas

# Town of Nantucket
# Nantucket Harbor Shimmo & Plus Sewers



# Project Status & Details - Current Snapshot Bayberry:

- Properties Served by Proposed Sewer Extensions
  - Approximately 34 properties to be Connected
- Low Pressure Sewers (approx. 2,700 feet)
  - Bayberry Area
  - Low Pressure Approach Required due to Topography
  - Systems Require Individual Pump Units for Each Home
- Rugged Road Sewer

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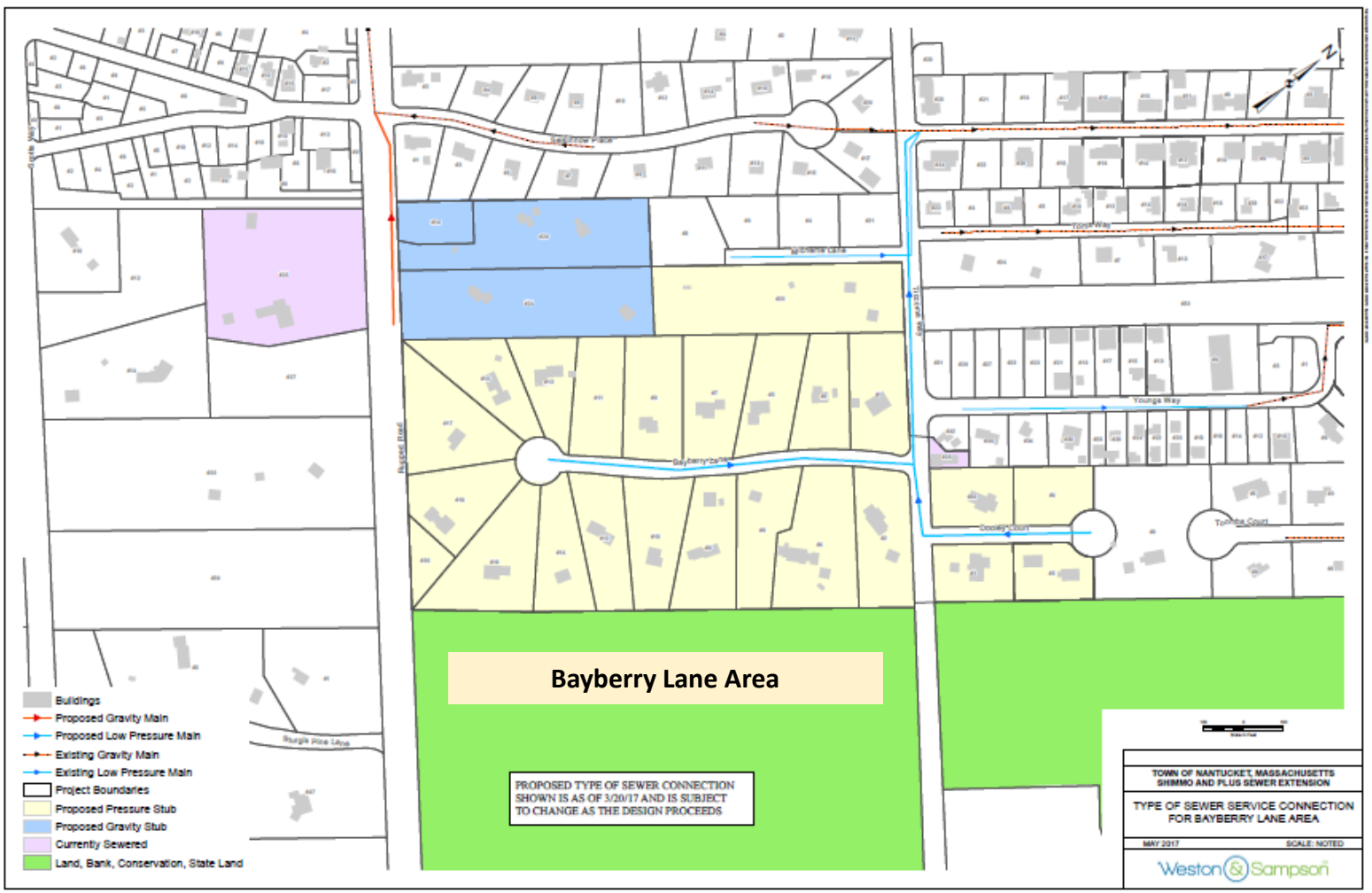

# Continuing Project - A Look Ahead:

- Continued Public Outreach
  - Future meeting venues
  - Town website postings
  - Local newspaper
  - Social media: Twitter
- Traffic Management
  - Coordination with Police, Fire , Ambulance & Busses
  - Advance Notice of Temporary Changes to Traffic Flow & Detours

# Continuing Project - A Look Ahead:

- Finalize Contract Documents
- Finalize Permitting
- Project Bid Phase
- Project Construction Phase
  - Off-season Construction Period
  - Meeting prior to Construction
  - Resident Representative on-site during Construction
- On-lot Considerations
  - Individual Property Connections

## Continuing Project – Cost Considerations:

- 2016 Town Meeting Appropriation
  - Technical, Legal & Administrative Support
  - Construction Costs
    - Sewer in roadways
    - Connection stubs to edge of roadway
    - Surface Restoration of roadways
- Private Property Cost Considerations
  - Sewer Connection Fee
  - Privilege Fee
  - Pipeline & Appurtenances on Individual Property

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## Anticipated Continuing Project Schedule:

- Finalize Design & Permitting — Ongoing
- Advertise/Receive Construction Bids — May 2017
- Award Construction Contract — June 2017
- Construction Start — September 2017
  (Construction will Avoid Summer 2018 Season)
- Construction Complete — October 2018

# Continuing Project - A Look Ahead:
## Ways to Stay Connected

- Town website: www.nantucket-ma.gov/NHS-Plus-Sewer
- Local newspaper: The Inquirer & Mirror
- Social media: Twitter
- Subscribe to receive project news via e-mail
- Continuing meeting venues
  - Neighborhood Associations - July 22nd (Shimmo)
  - Meeting prior to Construction - August 9th
- Project Contacts during Construction

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