



Town of Nantucket Nantucket Harbor Shimmo & Plus Parcels Sewer Project



Public Information Meeting
Connection to the Municipal Sewer
April 11, 2019

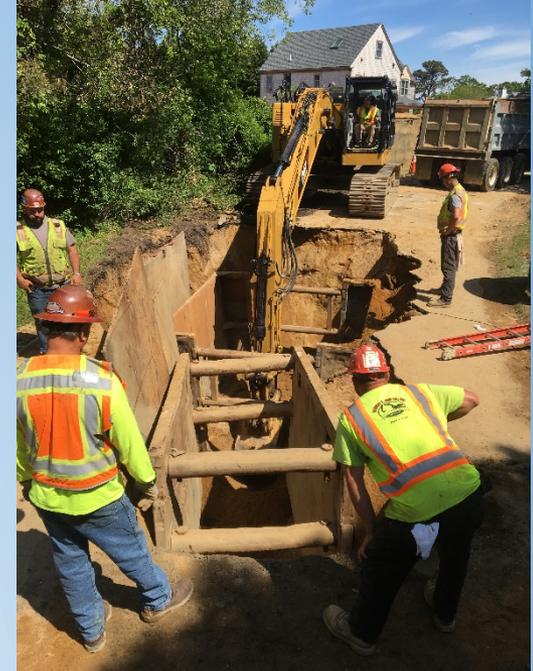


Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

Sewer Connection Process – Key Players:

- Nantucket Sewer Department
 - David Gray, Sewer Director
 - Charles Johnson, Wastewater Engineer
 - Lora Kebbati, Office Manager
 - Christine Herrmann, Administrative Clerk
- Weston & Sampson
 - Steve Pedersen, Project Manager
 - Drew Patnode, Resident Engineer
- Hazen & Sawyer
 - Frank Ayotte, OPM
- Your Local Designer/Installer (TBD)
- Grinder Pump Vendor (Where Applicable)
 - Williamson New England Pump & Motor
 - Crane Pumps & Systems/Barnes





Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

Agenda

- Project Background - A Quick Look Back
- Project Areas Defined
- Project Statistics & Timeline
- Construction Process
- Public Outreach
- Homeowner Responsibilities
- Sewer Connection Process
 - Grinder Pump Logistics (where applicable)
- Questions & Discussion





Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers

Project Planning:

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





Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers

Project Need:

Water Protection Districts

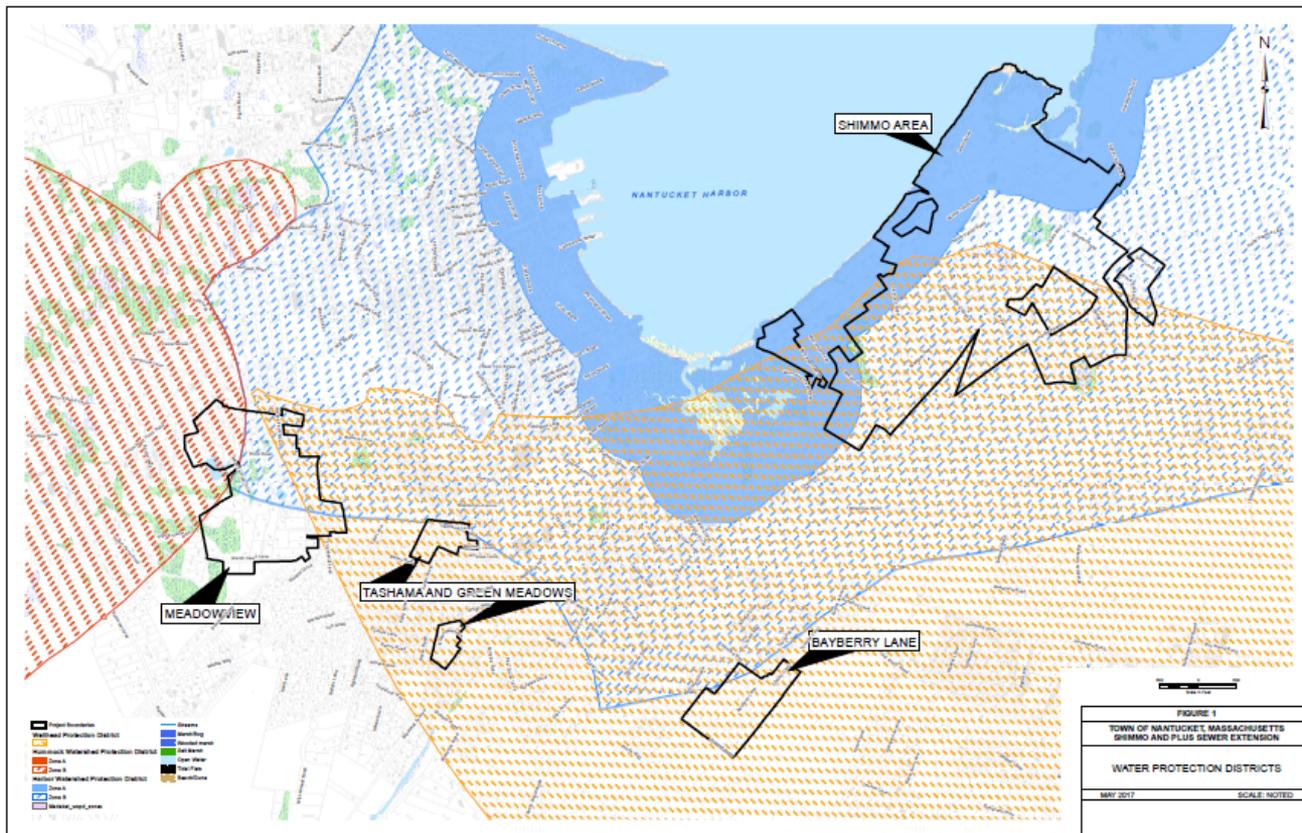




Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers

Project Need:

Water Protection Districts in Project Areas





Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers

Project Areas Defined:

- 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





Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers



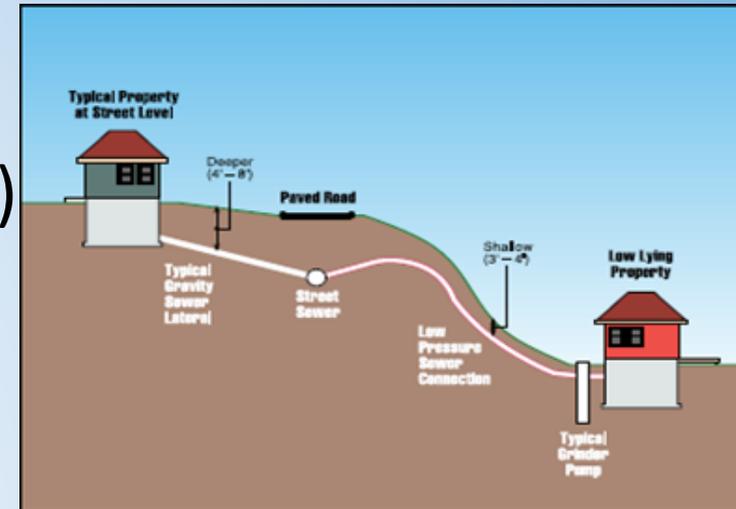


Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

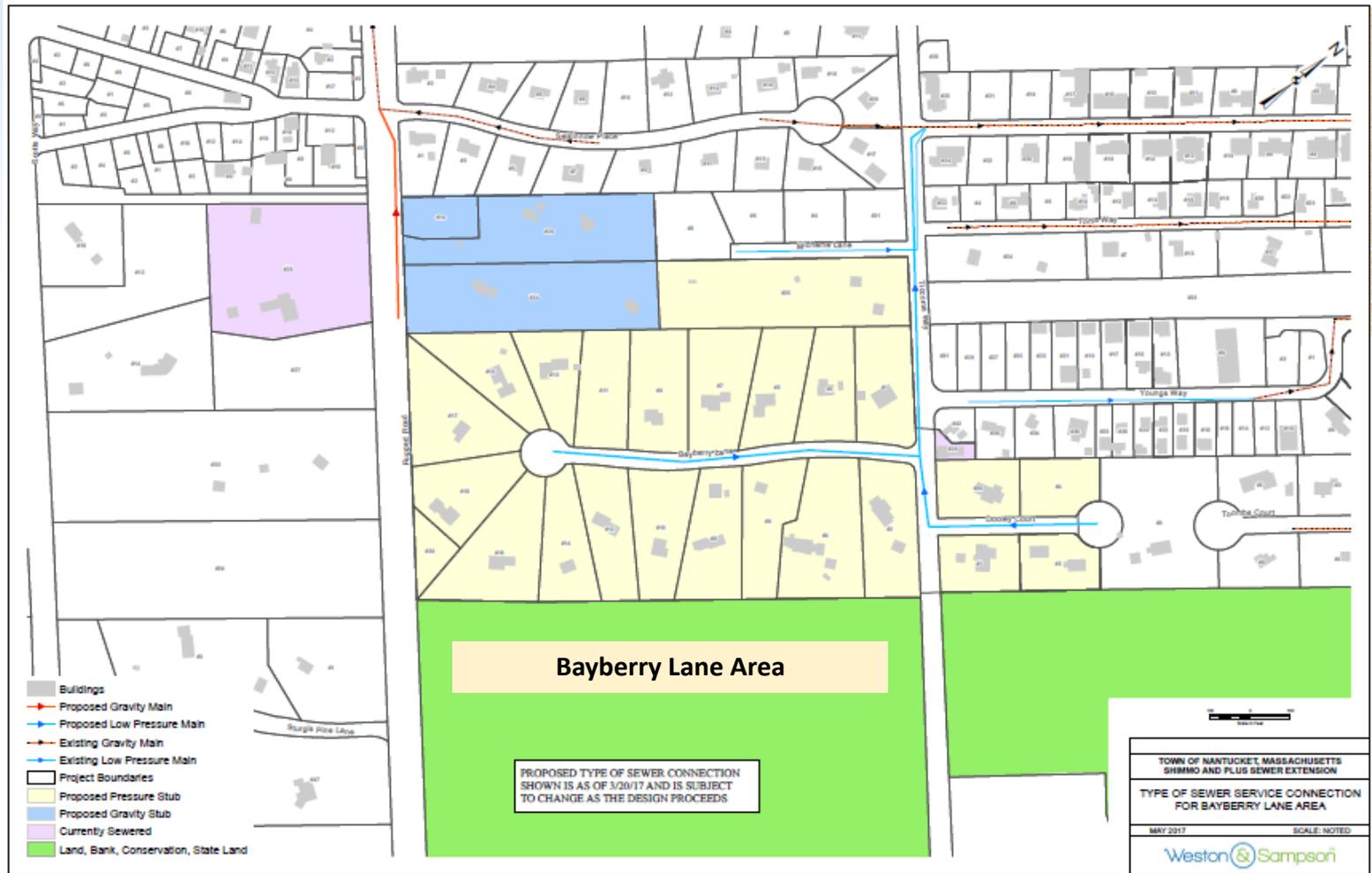
Project Design:

- Finalized Service Area/Connection Points
- Field Survey & Subsurface Investigations
- Developed Preliminary and Final Sewer Layouts
- Evaluated Technologies/Alternatives
 - Recommended a Hybrid System
 - Gravity and Low-Pressure Sewers
- Sewer Easements (Private Roads)
- Project Permitting
- Final Bidding Documents
 - Plans & Specs



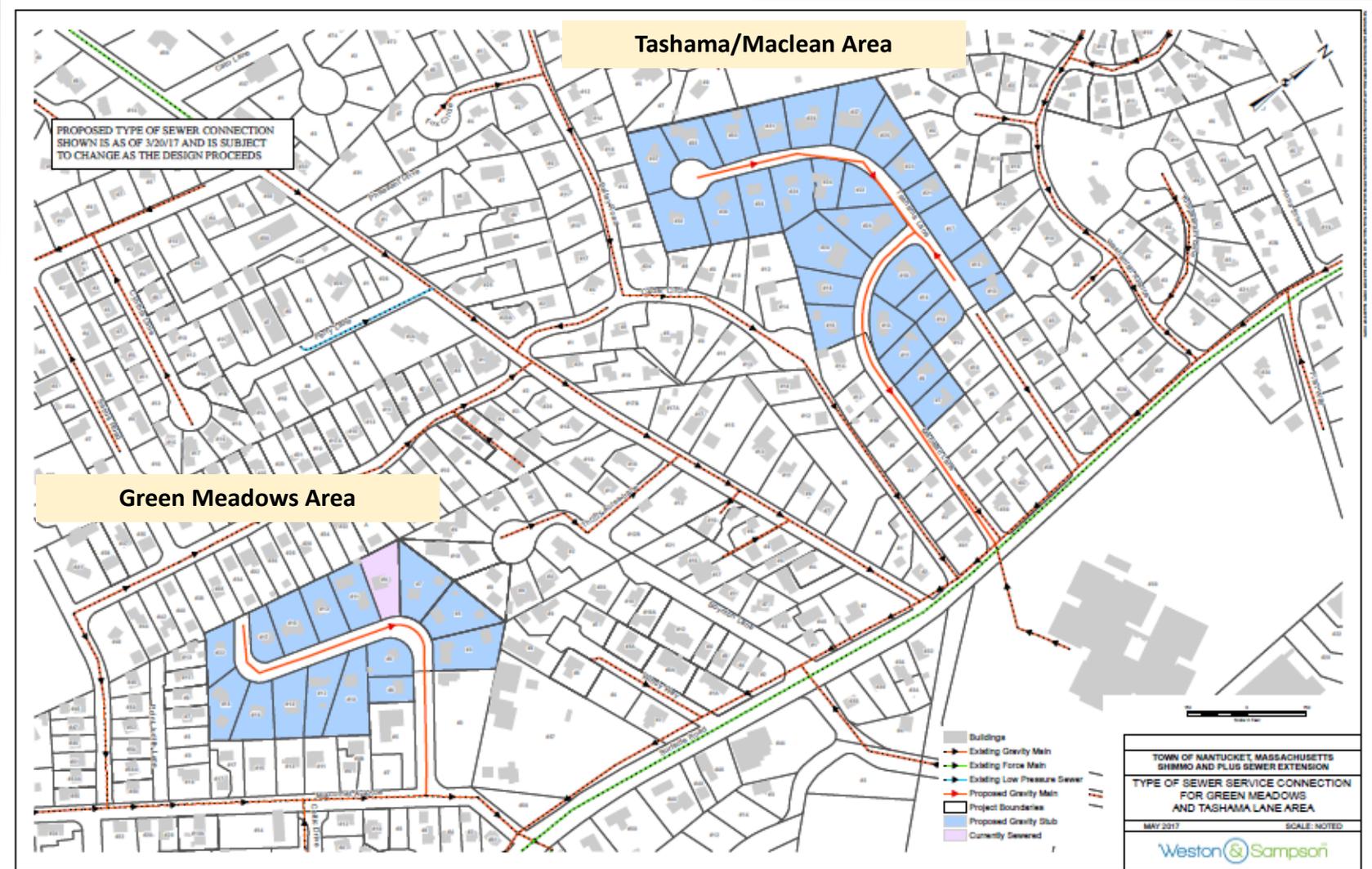


Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers



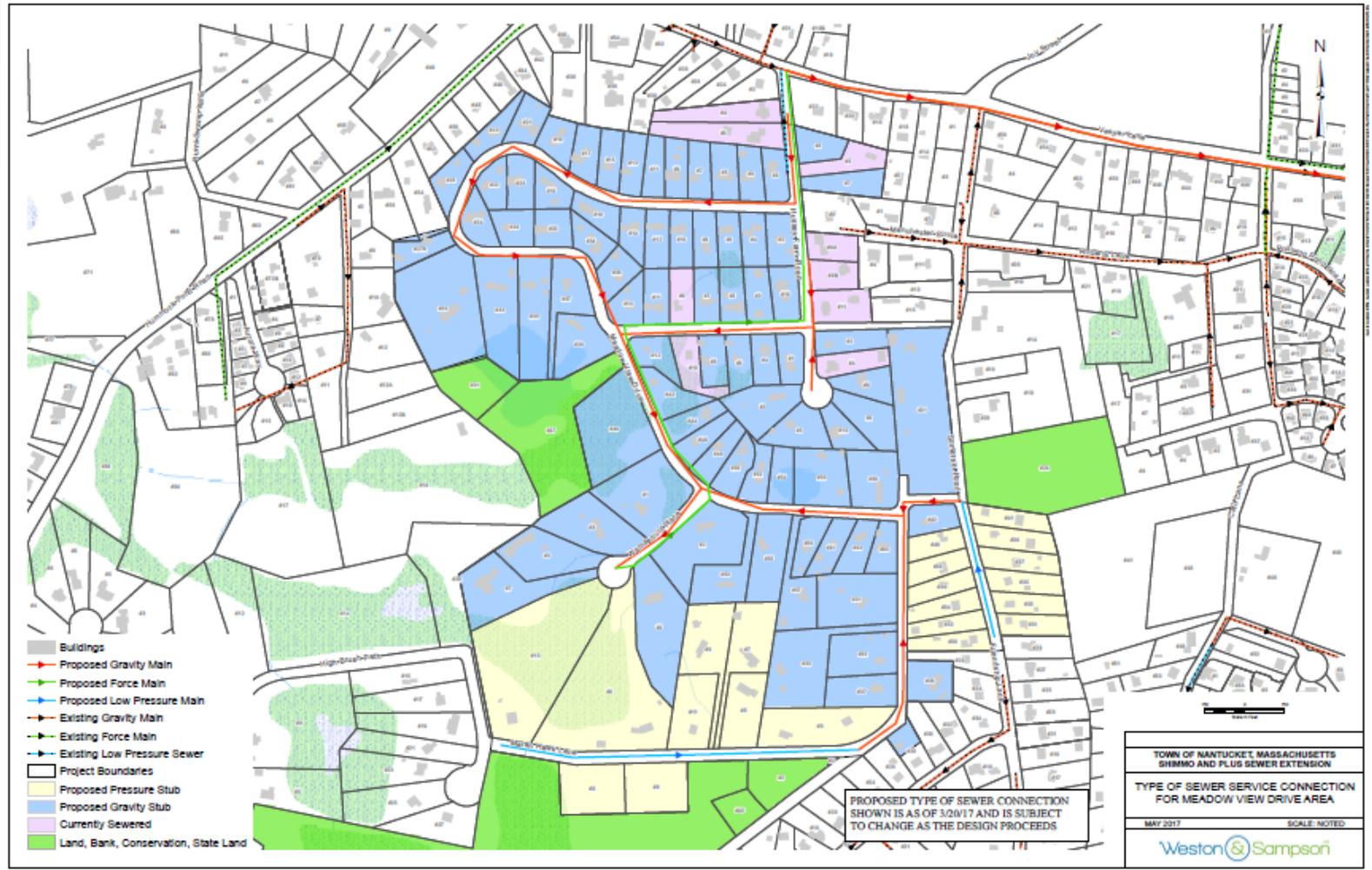


Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers





Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers





Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

Project Statistics:

- Approximately 380 Properties Fronted by Sewer
- Approximately 13,800 feet of Gravity Sewer
 - Meadow View Area, Tashama/Maclean & Green Meadows
 - Two Pump Stations with 4,400 feet of force main
- Approximately 38,200 feet of Low-Pressure Sewers
 - NH Shimmo & Bayberry Areas
 - Friendship Lane & Marsh Hawk Lane
 - Require Individual On-Lot Grinder Pump Units for Each Connection
- Approximately 10.7 Miles of Sewer



Town of Nantucket
Nantucket Harbor Shimmo & Plus Sewers

Project Timeline:

- Public Bid Opening - June 14, 2017
 - Robert B. Our Co., Inc. - \$12,049,300
- Construction Award/NTP - Summer 2017
- Commence Construction – September 18, 2017
- Summer Shutdown – 2018
- Partial Utilization – August 2018
- Substantial Completion – March 2019
- Grinder Pump Procurement - April 2019
- Final Paving and Punch List – Spring 2019

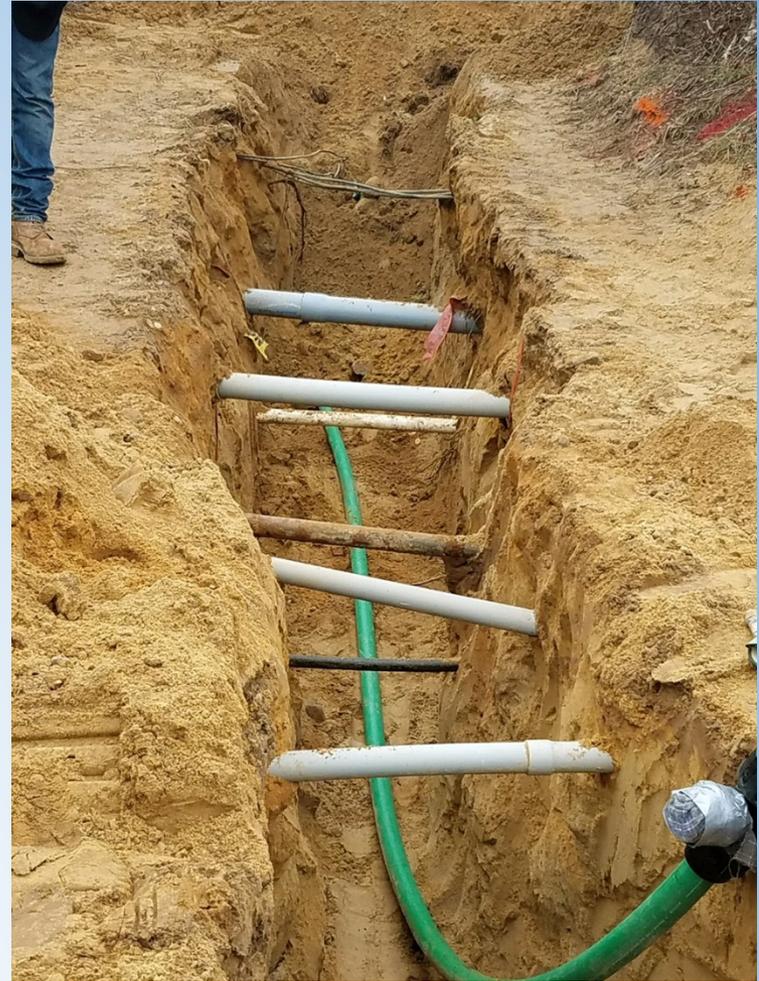


Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers





Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers





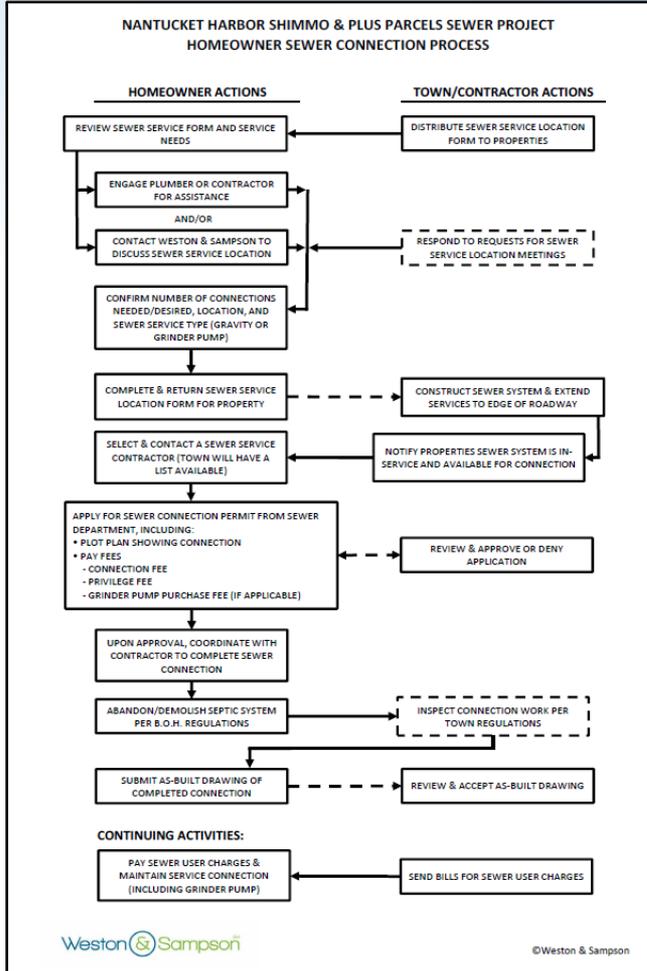
Town of Nantucket
Nantucket Harbor Shimmo & Plus Sewers

Public Outreach:

- Public Meeting – March 21, 2017
- Neighborhood Meetings
 - Meadow View Area – May 15, 2017
 - Bayberry/Tashama/Maclean & Green Meadows – May 16, 2017
 - Shimmo Area – July 22, 2017
- Select Board Meeting (with Contractor) - August 9, 2017
- Local Newspaper Ads: The Inquirer & Mirror
- Weekly Updates – Email Distribution
- Social media: Twitter
- Sewer Connection Process – April 11, 2019
- ***Town website: www.nantucket-ma.gov/NHS-Plus-Sewer***



Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers Homeowner Responsibilities:



SERVICE CONNECTION LOCATION FORM
(This is **NOT** your sewer application and permit)

The following general rules are provided to assist you in selecting the service location that best serves your property.

- In general, sewer services will not be allowed to have more than two (2) angle points, or a total of 180-degree change in direction. Cleanouts (capped piping that is run to the surface for maintenance access) shall be installed at each change in direction.
- Connections to existing building plumbing systems must be made upstream of any septic tanks or cesspools, as these facilities are to be abandoned, in most cases.
- Stormwater, surface water, groundwater, roof water runoff, and/or submerged drainage shall not be discharged in any sanitary sewer.
- Sewer services shall be located not less than ten (10) feet horizontally from any water service pipe. Exceptions can be made if the sewer service is below the water pipe by at least 18 inches.
- To be eligible for the fee reduction and meet Board of Health (BOH) regulations, you are required by the Town of Nantucket to connect your property to the new municipal sewer line within two years of the official notice that the system is approved for use.

House No. _____ Avenue/Street _____ Property ID/Map & Parcel: _____

What is the height measured from the cellar floor to the top of the foundation (sill)? _____

How far from the top of the foundation (sill) is the bottom of the existing soil (waste) pipe?
_____ feet _____ inches

Second soil (waste) pipe (if applicable)? _____ feet _____ inches

Do you have wastewater facilities in your basement (e.g. washing machine, toilet, etc.)?
_____ Yes _____ No

Do you plan to install wastewater facilities in your basement? Yes ___ No ___ Unsure ___

Please indicate the position of your house to the surrounding street(s) and the desired location of your service connection. See the examples on the front of this form.

EXAMPLE LAYOUTS

Signed by _____ Date _____
\\small\local\WSE\Projects\MA\Nantucket\MA\NH\Shimmo and PLUS Sewers\Construction\Building Connections\Service Connection Location Form.doc

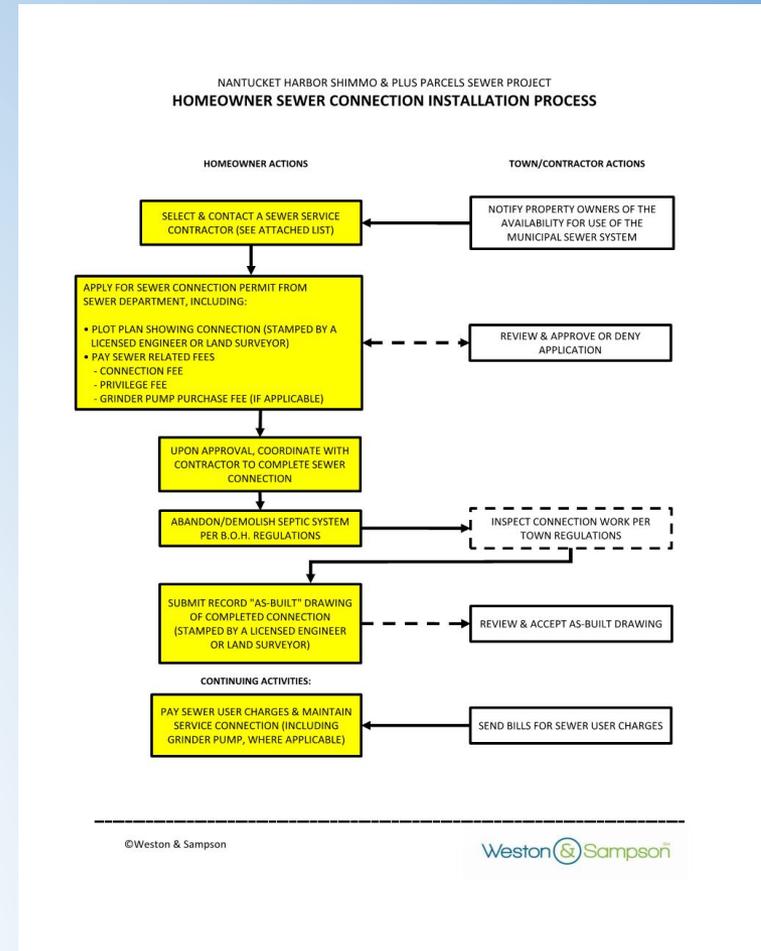


Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

Sewer Connection Process:

- Municipal Sewer System Acceptance
 - Sewer Service Stub
- Sewer Connection Letter
- Sewer Service
 - Sewer Service Type
- Sewer Connection Permit
- Sewer Service Contractor





Town of Nantucket
Nantucket Harbor Shimmo & Plus Sewers

Sewer Connection Timeframe Requirements:

- Within Two Years of Date of Notification Letter
- Properties in Environmentally (Nitrogen) Sensitive Areas
 - Must File an Application w/in 6 Months of Notification
 - Must Connect w/in One Year of Approved Application
- Properties with an Approved I/A System
 - 10 Years from the Date of Installation of the I/A System
- Enforcement/Fines
 - \$200/day Beyond Established Timeframe



Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

Sewer Connection Permit:

- Hire Approved Sewer Installer
 - Sewer Department List
- Plot Plan of Proposed Connection
 - Stamped by Licensed Engineer or Surveyor
 - Sewer Service Type – Gravity or Low-Pressure
- Pay Sewer Related Fees (Per Dwelling)
 - Connection Fee - \$2,000 (\$500 w/in 2 years)
 - Privilege Fee - \$6,322.15
 - May be Apportioned to Tax Bill for up to 20 Years
 - 10% Down - 4.414% Interest Rate
 - Grinder Pump Purchase Fee (if applicable)



Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

Sewer Connection Installation:

- Install Sewer Connection
 - Upon Approval of Sewer Connection Permit
- Town Inspection/Approval of Connection
- Abandon/Demolish Existing Septic System per Board of Health Regulations
- Submit Stamped Record “As-Built” Drawing
- Pay Sewer User Charges
 - Billed Quarterly Based on Water Usage
 - Fixed Fee for Dwellings on Private Well



Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers

Questions & Discussion





Town of Nantucket Nantucket Harbor Shimmo & Plus Parcels Sewer Project



Public Information Meeting
Connection to the Municipal Sewer
Use of On-Lot Residential Grinder Pump Units
April 11, 2019



Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers

Grinder Pump Discussion Agenda:

- Town Procurement Process
- Discounted Pricing
- Grinder Pump Specifications
- Installation Process
- Operation & Maintenance





Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

Town Procurement/Discounted Pricing:

- Opened Public Bids – March 19, 2019
- Contract Award – April 1, 2019
 - Williamson New England Pump & Motor
 - Barnes EcoTRAN System
- Discounted Pricing - \$1,500 per Unit
 - Dwellings with BOH Approved I/A System - \$500 per Unit
 - NH Shimmo & Plus Areas Only
 - Dwellings Developed Prior to December 31, 2017
 - Up to Two Units (per Connection & Privilege Fee Paid)
 - Acceptance Documentation & Payment with Sewer Connection Permit
 - Discount Applies to Specified Units Only
- Homeowners Responsible for Installation, Operation & Maintenance



Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

Grinder Pump Specifications:

- Residential Simplex Centrifugal Grinder Pump Units
- Complete factory-built and tested assemblies
 - UL listed, NSF & CSA approved
- Primary Components:
 - Basin & Cover
 - Grinder Pump, 2 hp motor
 - Alarm Panel with Generator Connection
- Tank Volumes
 - Pump cycle = 20 gal
 - 65 gal storage to inlet
 - Additional storage options available



Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

- **Home Power Source:**

- 240 volt, 30 amp, single phase (pump circuit)
 - Pump Circuit must be connected to a dedicated 240 volt, 30 amp double pole circuit breaker inside the home
- 120 volt, 15 amp, single phase (alarm circuit)
 - Alarm Circuit connected to separate circuit breaker
- Typical electrical cost \$30-\$40/year



Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

Installation Process

- Contractor Certification
 - Assures proper installation
- Delivery of Grinder Pump Units
 - Accept Town Discount Offer at Time of Permitting
 - Pay discounted cost directly to Town
 - Delivery coordinated with contractor for installation
- Installation of Units
 - Start-up inspection by manufacturer's representative
 - Town inspection & approval



Town of Nantucket

Nantucket Harbor Shimmo & Plus Sewers

Operation & Maintenance

- No scheduled maintenance required
 - Cutter life approx. 10 years
- Homeowner guide provided
 - Contact information for service/repair
 - Instructions for proper use (do's & don'ts)
 - Winterization/extended leave measures
- Representatives hear to answer any questions
 - Sample products and brochures available



Town of Nantucket Nantucket Harbor Shimmo & Plus Sewers

Questions & Discussion

