Town of Nantucket

Nantucket Harbor Shimmo & Plus Parcels Sewer Project

Public Outreach Presentation

to Interested Property Owners

Shimmo Area

July 22nd, 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
  - Laurie Toscano
  - Drew Patnode
  - Kent Nichols
- Owner's Project Manager (OPM)
  - Frank Ayotte, Hazen-Sawyer
- Construction Contractor
  - Robert B. Our Co., Inc.

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Agenda

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

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Project Background - A Look Back:

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

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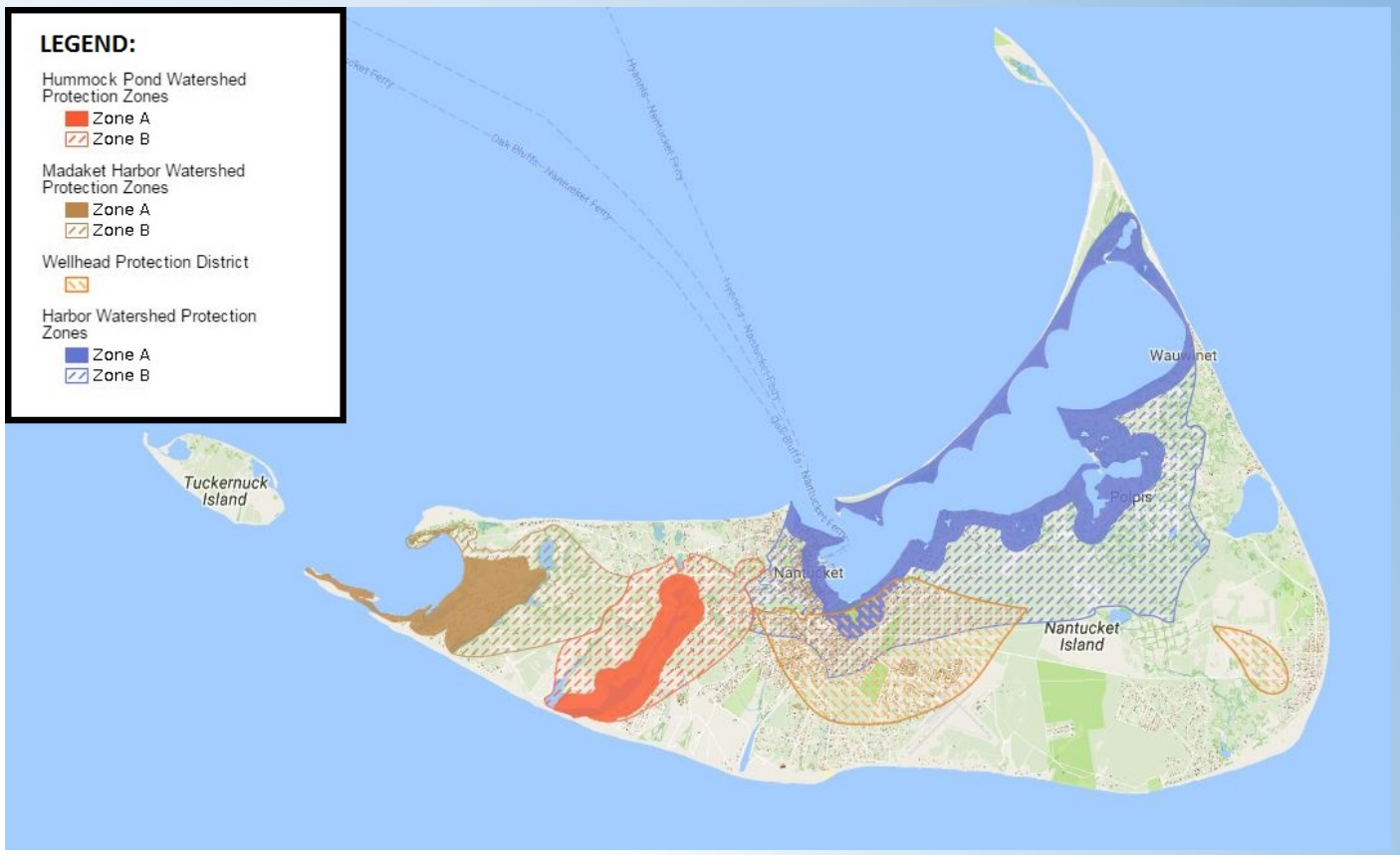
Project Background - A Look Back: Water Protection Districts



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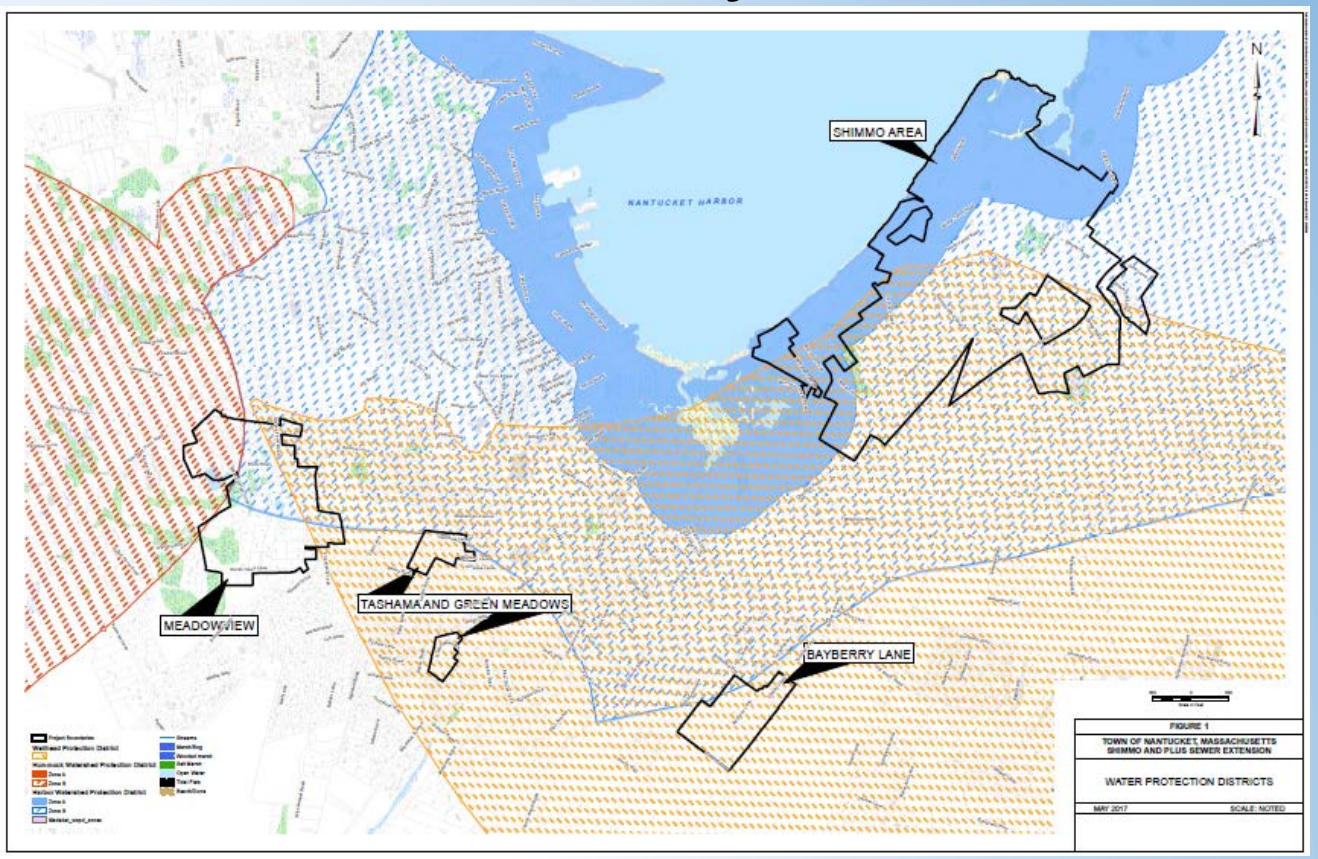
Project Background - A Look Back: Water Protection Districts in Project Areas



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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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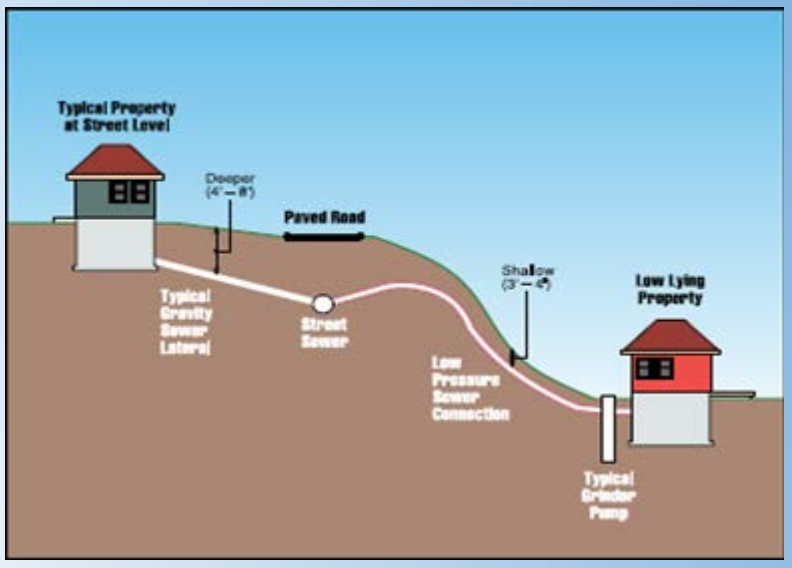
Project Status & Details - Current Snapshot:

- 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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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 Easements for Private Roads
- Project Permitting
  - Natural Heritage & Endangered Species Program
  - Archaeological Sensitivity Analysis
  - Conservation Commission Notice of Intent
  - Nantucket Historic District Commission

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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

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Project Status & Details - Current Snapshot Shimmo Area:

- Properties Served by Proposed Sewer Extensions
  - Approximately 194 properties to be Connected
- Low Pressure Sewers (approx. 25,900 feet)
  - Shimmo Area
  - Low Pressure Approach Required due to Topography
  - Systems Require Individual Pump Units for Each Home
- Gravity Sewers (approx. 300 feet)
  - Small portion of Brewster Road near the Pump Station

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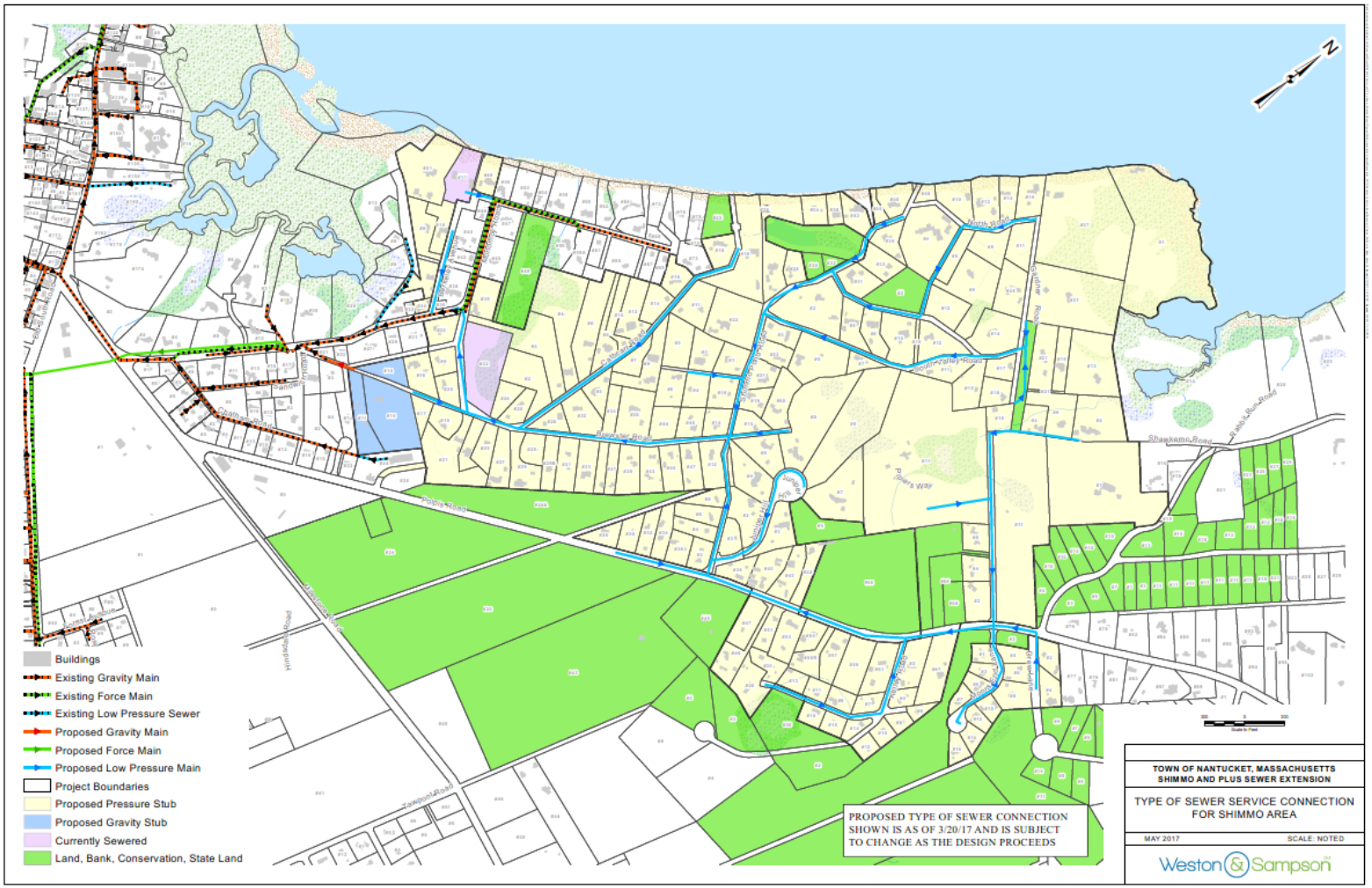

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Current Snapshot:

- Bids Opened June 14, 2017 - Two Bids Received

Bid Submitted by	Amount (Base Bid plus Alternate 1)
R.B. Our Co., Inc.	$12,049,300.00
C.C. Construction	$18,467,607.50

- July 5, 2017 – B.O.S. voted to award to low bidder, R.B. Our Co., Inc. (Harwich MA), for the Base Bid Plus Alternate 1, in the amount of $12,049,300.
- Contract Execution Ongoing

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Continuing Project - A Look Ahead:

- Continued Public Outreach
  - Town website postings
  - Local newspaper
  - Social media: Twitter
- Traffic Management
  - Continued Coordination with Police, Fire, Ambulance & Busses
  - Advance Notice of Temporary Changes to Traffic Flow & Detours
- Project Construction Phase
  - Contractor to develop Construction Schedule
  - Off-season Construction Period
  - Resident Representative on-site during Construction
- On-lot Considerations
  - Individual Property Connections

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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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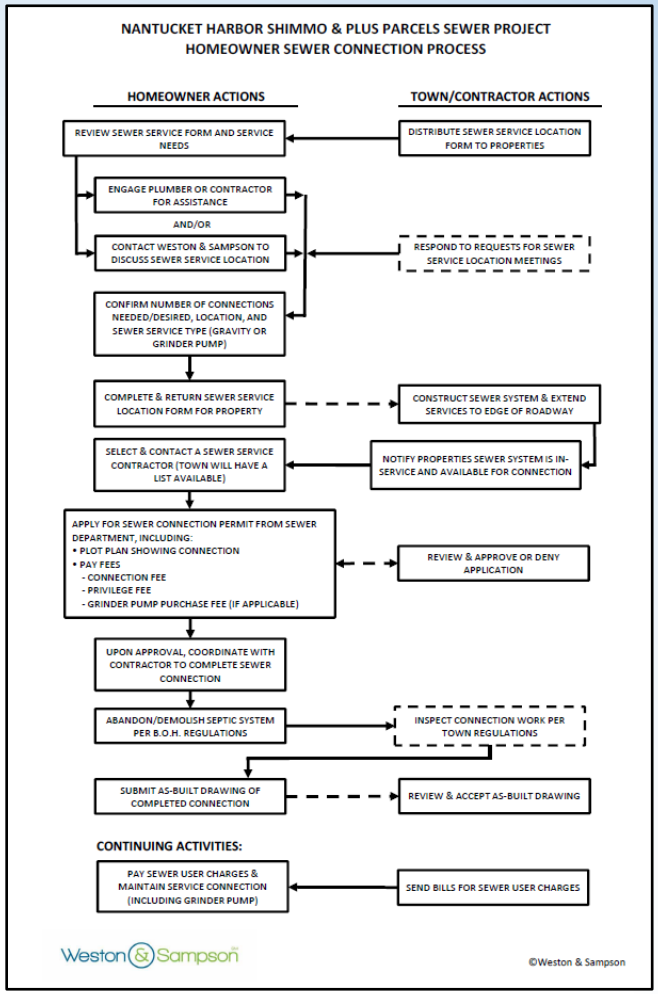
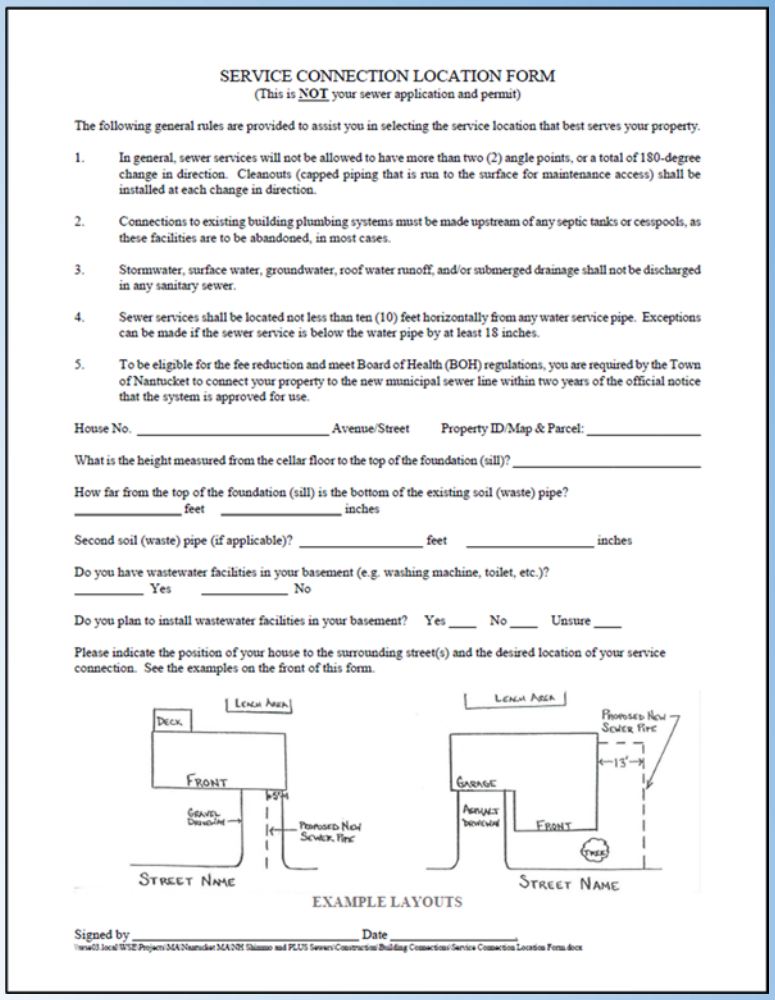
Homeowner Responsibilities:





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.

1. 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.
2. 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.
3. Stormwater, surface water, groundwater, roof water runoff, and/or submerged drainage shall not be discharged in any sanitary sewer.
4. 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.
5. 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 _____

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On-Lot Construction Examples:

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Anticipated Continuing Project Schedule:

- Award Construction Contract — July 2017
- B.O.S. meeting with Contractor — August 9, 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
  - B.O.S. Meeting prior to Construction - August 9th
- Project Contacts during Construction

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