



Nantucket Memorial Airport

Service/Public Relations
Sub-Committee Public Meeting

August 11, 2021
(virtual format)

Water Main Construction Update

Presenters:

Noah Karberg, A.A.E., ACE
Assistant Airport Manager

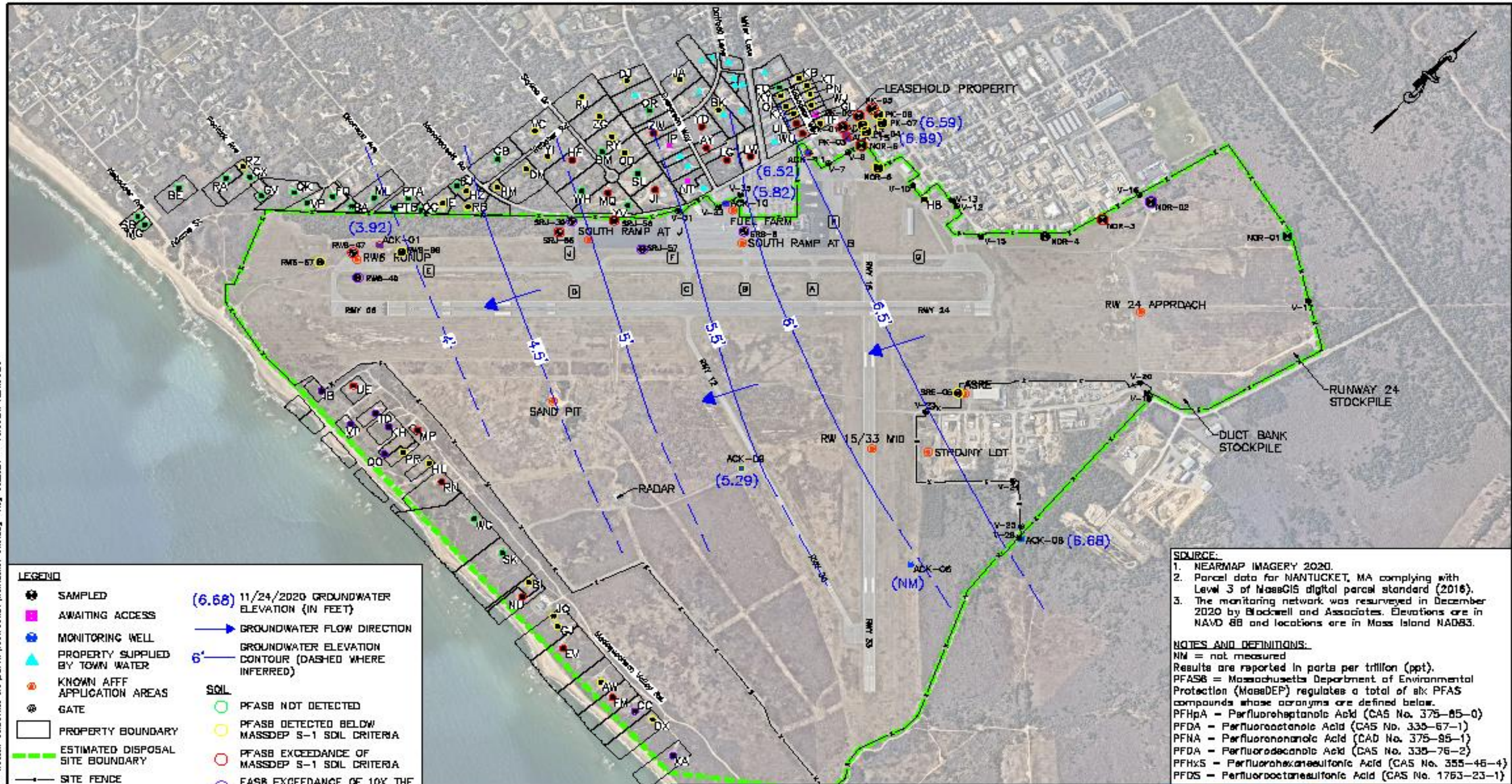
Richard Lasdin, P.E.
Consulting Engineer



Notes:

1. This meeting is being recorded and will be available for future viewing.
2. Not all slides are ADA compliant. If you need assistance, please contact Noah Karberg at (508) 325-7531.

Go to www.ACK-PFAS.com to register on the Zoom link
to participate in this meeting



LEGEND

- SAMPLED
- AWAITING ACCESS
- MONITORING WELL
- ▲ PROPERTY SUPPLIED BY TOWN WATER
- KNOWN AFF APPLICATION AREAS
- ⊗ GATE
- PROPERTY BOUNDARY
- ESTIMATED DISPOSAL SITE BOUNDARY
- SITE FENCE
- A TAXIWAY
- RUNWAY
- COMBINED GW/SOIL SAMPLE LOCATION
- GROUNDWATER GRAB SAMPLE LOCATION

GROUNDWATER

- PFAS6 NOT DETECTED (ND)
- PFAS6 >ND AND <20
- PFAS6 >20 AND <200
- PFAS6 >200

SOIL

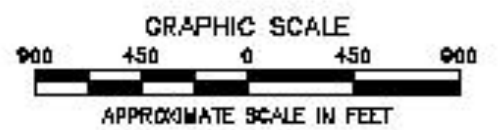
- PFAS6 NOT DETECTED
- PFAS6 DETECTED BELOW MASSDEP S-1 SOIL CRITERIA
- PFAS6 EXCEEDANCE OF MASSDEP S-1 SOIL CRITERIA
- PFAS6 EXCEEDANCE OF 10X THE MASSDEP S-1 SOIL CRITERIA

GROUNDWATER ELEVATION

- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

ELEVATIONS

- (6.68) 11/24/2020 GROUNDWATER ELEVATION (IN FEET)



SOURCE:

1. NEARMAP IMAGERY 2020.
2. Parcel data for NANTUCKET, MA complying with Level 3 of MassGIS digital parcel standard (2018).
3. The monitoring network was resurveyed in December 2020 by Blockwell and Associates. Elevations are in NAVD 88 and locations are in Mass Island NAD83.

NOTES AND DEFINITIONS:

NM = not measured

Results are reported in parts per trillion (ppt).

PFAS6 = Massachusetts Department of Environmental Protection (MassDEP) regulates a total of six PFAS compounds whose acronyms are defined below.

PFHpA = Perfluorohexanoic Acid (CAS No. 375-85-0)

PFDA = Perfluorodecanoic Acid (CAS No. 335-67-1)

PFNA = Perfluorononanoic Acid (CAS No. 375-95-1)

PFDA = Perfluorodecanoic Acid (CAS No. 335-76-2)

PFHxS = Perfluorohexanesulfonic Acid (CAS No. 355-46-4)

PFOS = Perfluorooctanesulfonic Acid (CAS No. 1763-23-1)

PFAS IN SOIL AND GROUNDWATER		CONCORD		NEW HAMPSHIRE	
NANTUCKET MEMORIAL AIRPORT 14 AIRPORT RD, NANTUCKET, MA 02554		DRAWN	DATE	DES. ENG.	DATE
		DCH	JAN 2021		
		CHECKED	DATE	SCALE	REVISION
		LLK	JAN 2021	AS SHOWN	
				W.D. NO.	FIGURE NO.
				15295.002.001	2





Overview of Water Main Construction Project

Work Areas: Six distinct “Work Areas”

Construction Duration: Approximately 142 calendar days

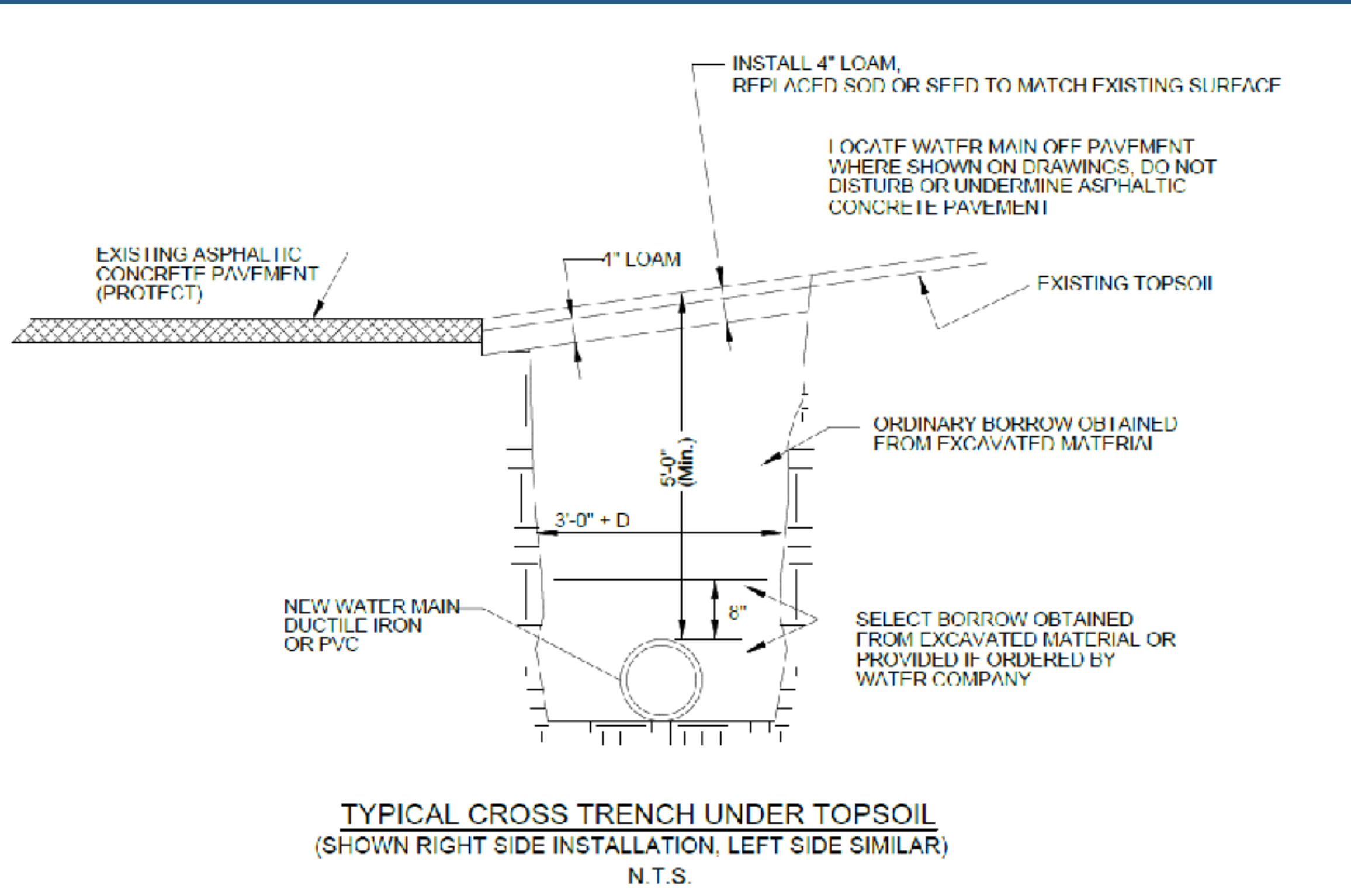
Work Hours for Work Areas I, II, III: Monday-Friday 7:30AM to 4:30PM
(Daytime Work)

Work Hours for Work Areas IV, V, VI: Monday-Friday 10:00PM to 6:00AM
(Nighttime Work)

Project Oversight: Daily Check-in by Wannacomet Water Company

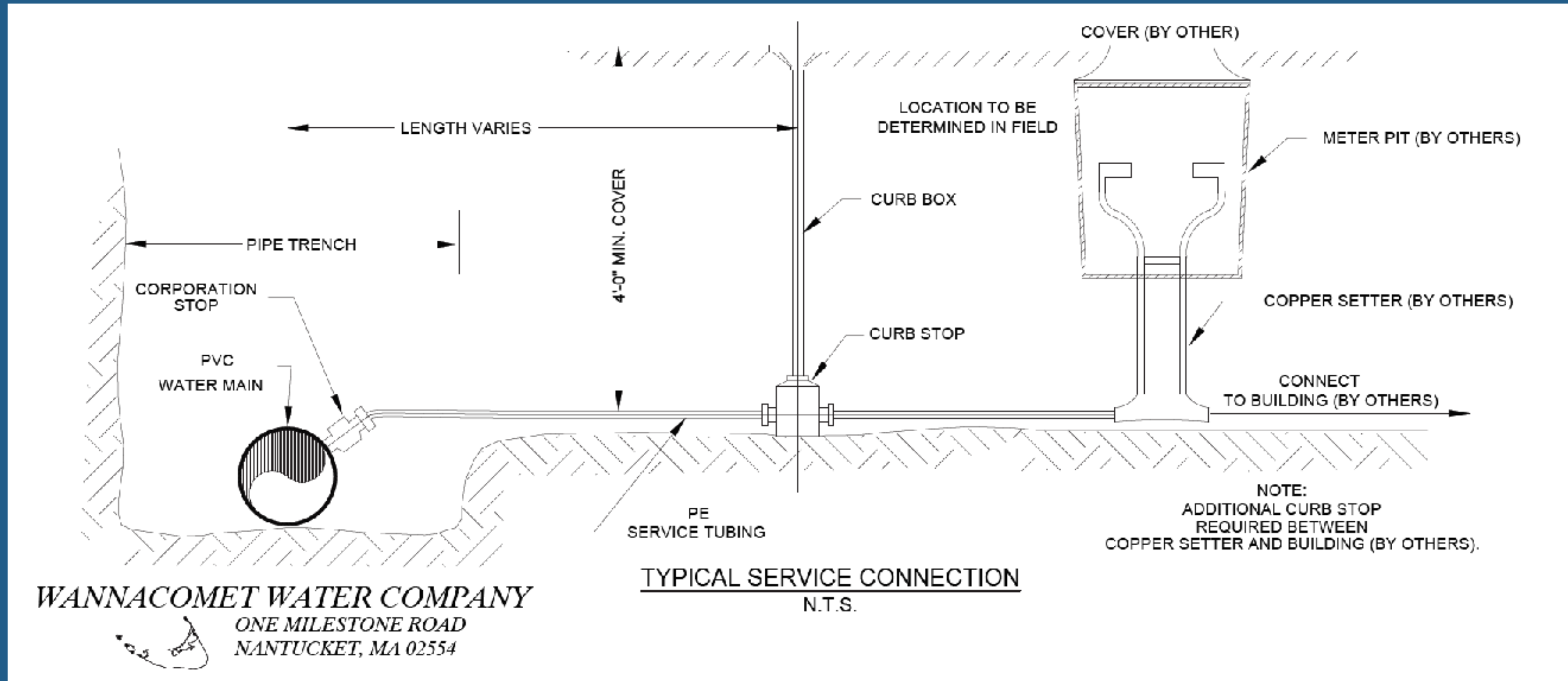
Design Considerations: This project is following municipal standards

Typical Water Main Installation (Cross Section View)



Typical Curb Stop Installation (Cross Section View)

A curb stop will be installed along the water main for each with lot "frontage" along the project route



Water Service Connections *(Next Phase of Construction)*

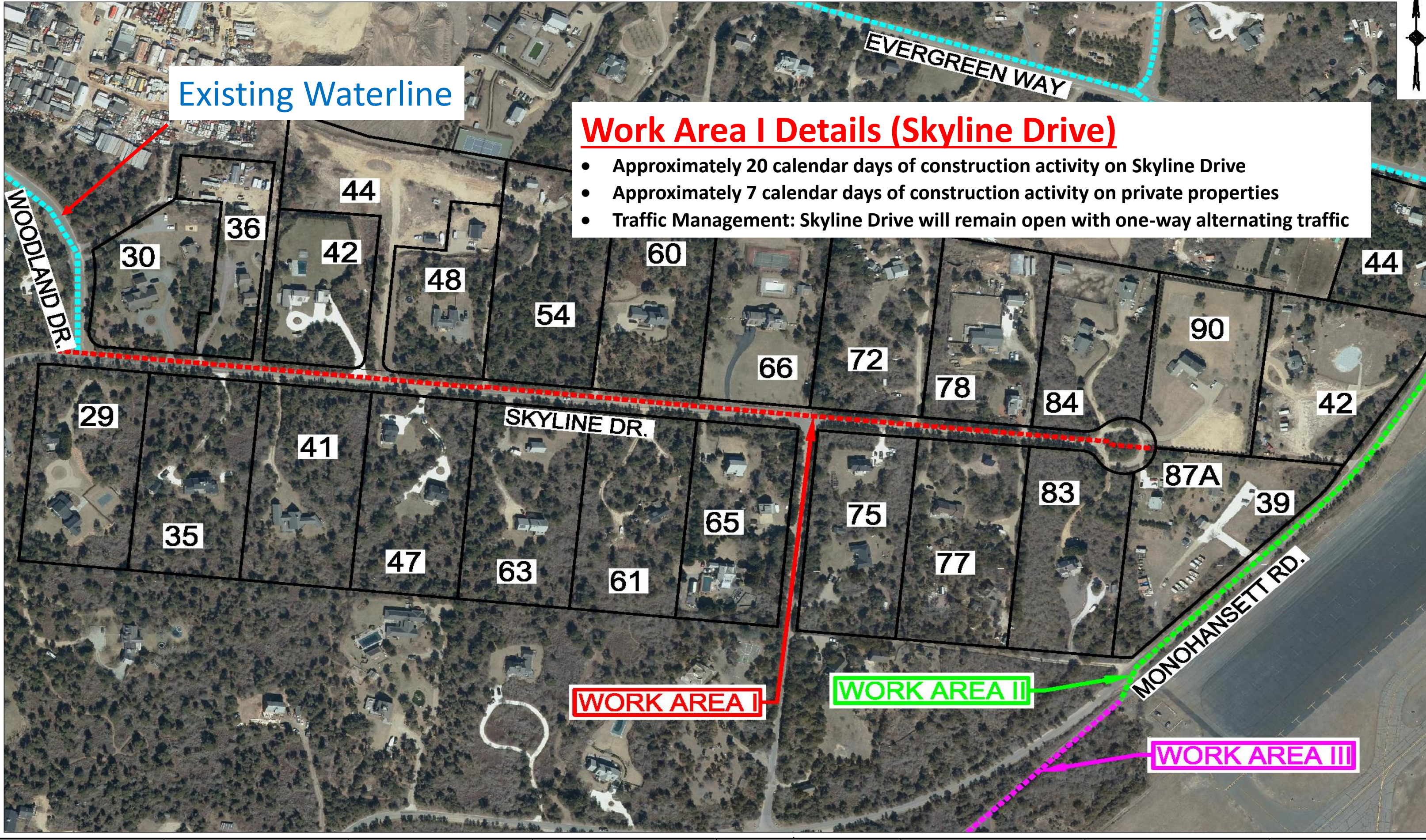
Water Service Connections will be provided (or reimbursed) to homes with concentrations of PFAS6 at greater than 20 parts per trillion (ppt)

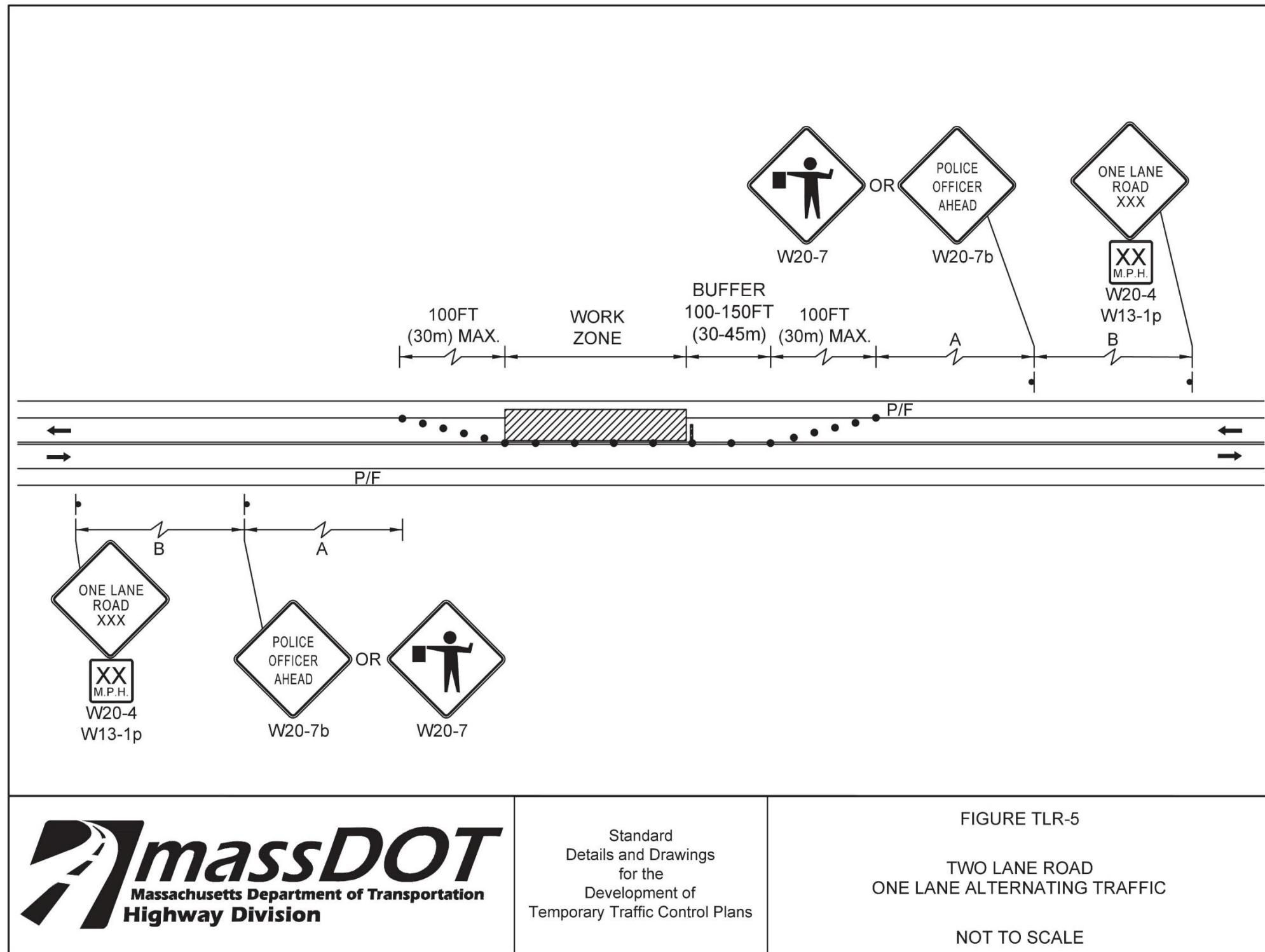
The connections to the water main will be completed after the water main has been fully installed in all six Work Areas

Work Area I Details (Skyline Drive)

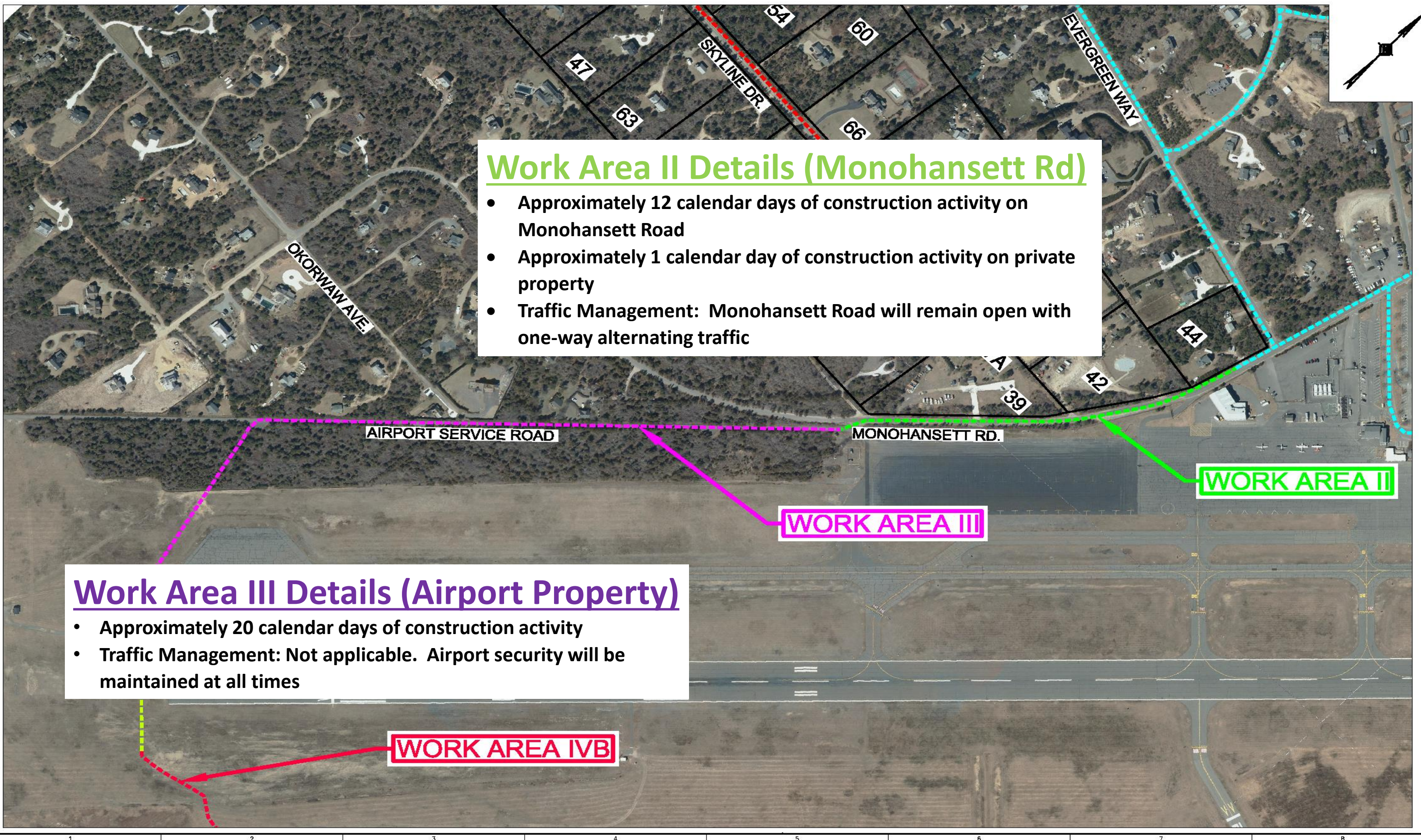
- Approximately 20 calendar days of construction activity on Skyline Drive
- Approximately 7 calendar days of construction activity on private properties
- Traffic Management: Skyline Drive will remain open with one-way alternating traffic

Existing Waterline





Construction within roadways will follow MassDOT Standards for traffic management



Work Area II Details (Monohansett Rd)

- Approximately 12 calendar days of construction activity on Monohansett Road
- Approximately 1 calendar day of construction activity on private property
- Traffic Management: Monohansett Road will remain open with one-way alternating traffic

WORK AREA II

WORK AREA III

Work Area III Details (Airport Property)

- Approximately 20 calendar days of construction activity
- Traffic Management: Not applicable. Airport security will be maintained at all times

WORK AREA IVB

Work Area IV-A Details (Airport Property)

- Approximately 21 calendar days of construction activity at night for IV-A
- Traffic Management: Not applicable - airport security to be maintained at all times

WORK AREA IVA

WORK AREA IVB

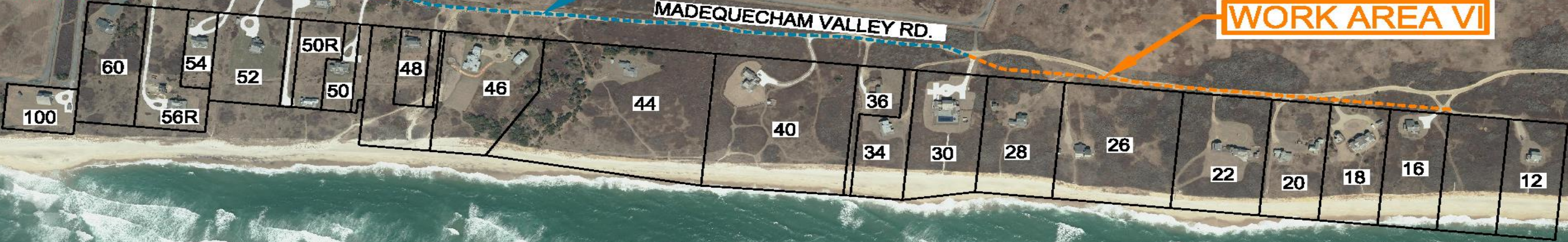
WORK AREA V

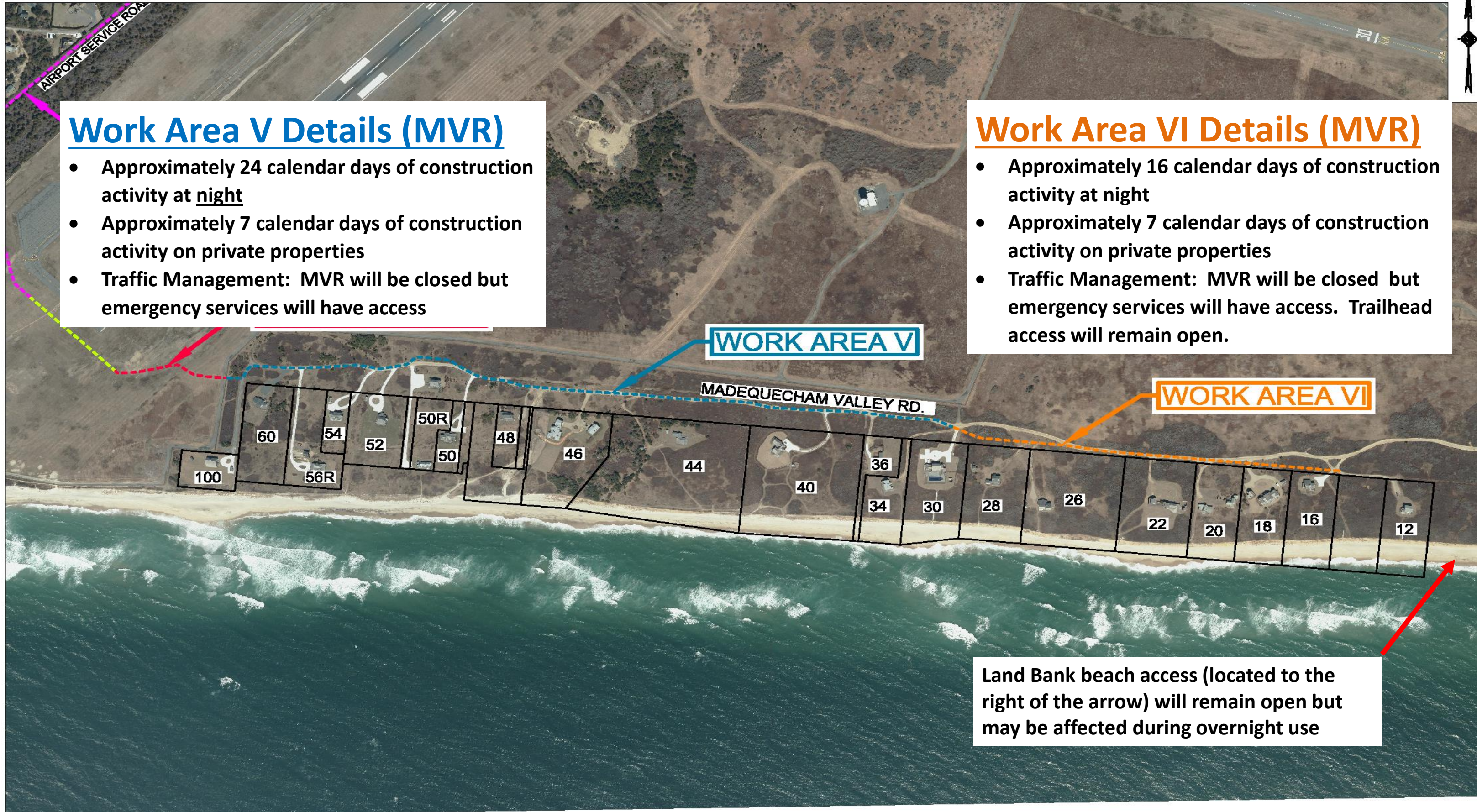
WORK AREA VI

MADEQUECHAM VALLEY RD.

Work Area IV-B Details (Airport Property)

- Approximately 7 calendar days of construction activity at night for IV-B
- Traffic Management: Not applicable - airport security to be maintained at all times





Work Area V Details (MVR)

- Approximately 24 calendar days of construction activity at night
- Approximately 7 calendar days of construction activity on private properties
- Traffic Management: MVR will be closed but emergency services will have access

WORK AREA V

Work Area VI Details (MVR)

- Approximately 16 calendar days of construction activity at night
- Approximately 7 calendar days of construction activity on private properties
- Traffic Management: MVR will be closed but emergency services will have access. Trailhead access will remain open.

WORK AREA VI

Land Bank beach access (located to the right of the arrow) will remain open but may be affected during overnight use

Summary of Water Main Construction Project

Estimated Start Date: August 2021

Construction Sequence of Work Areas: I, II, III, IV, V, VI
Estimated 142 calendar days completion

Project Contact:

Noah Karberg, Assistant Airport Manager
Nkarberg@nantucketairport.com
(508) 325-7531

For More Information: www.ACK-PFAS.com

Water Service Replacement/Connection

Airport Managed Water Service Connection

Water Service Connections will be provided to homes with concentrations of PFAS6 at greater than 20 parts per trillion (ppt)

- ✓ Virtual meetings with individual homeowners to discuss individual property needs
- ✓ Schedule individual property visits to determine required work
- ✓ Discuss route of the connection, property restoration, and access agreements
- ✓ Coordinate permitting with Town of Nantucket and Wannacomet Water Company
- ✓ Connect water service to each home
- ✓ A \$1,000 credit will be provided for payment of water bills upon water service connection

Water Service Replacement/Connection

Homeowner Installed / Airport Reimbursed Water Connection

Water Service Connections will be reimbursed to homes with concentrations of PFAS6 at greater than 20 parts per trillion (ppt)

- ✓ Homeowner to initiate request to self complete service connection with Airport
- ✓ Airport and engineering staff to meet with homeowner to review site and interior work
- ✓ Airport engineering staff to develop cost estimate
- ✓ Homeowner to execute water policy and release agreement with Airport
- ✓ Homeowner to obtain W-9 and submit to Airport
- ✓ Homeowner to hire contractor and plumber to complete work
- ✓ Airport to review completed work to agree on costs
- ✓ A \$1,000 credit will be provided for payment of water bills upon water service connection

Water Service Replacement/Connection – *Private Well Abandoned*

Well Disposition:

Homes with results greater than or equal to 200 ppt **must** abandon private well

Step 1 - Disconnect well and plug

1. Remove pump
2. Cutoff well casing 2 feet below grade
3. Plug well with grout

Step 2 - Construct connection to Wannacomet Water Co.

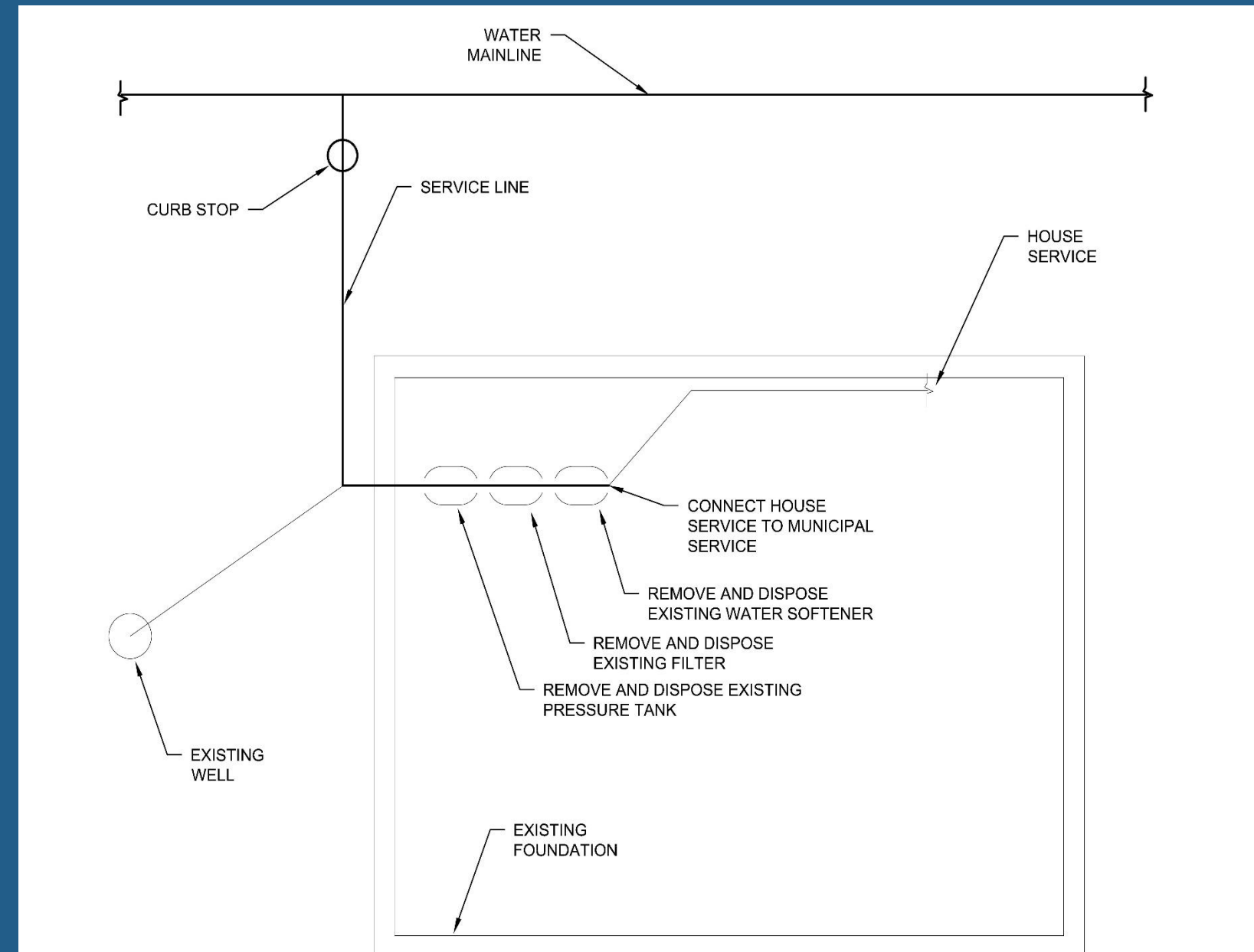
Step 3 - Interior modifications include:

1. Remove and dispose of pressure tank, filter, and water softener
2. Connect Wannacomet water service to house

Step 4 - Restore landscaping/hardscaping

**Design, construction and permits will be completed*

at no cost to the homeowner



ABANDON WELL NOT TO SCALE

NOTES:

1. REMOVE PUMP.
2. SLURRY FILL WELL.
3. REMOVE PRESSURE TANK, WATER FILTER, SOFTENER, AND RECONNECT PLUMBING.
4. CONNECT MUNICIPAL SERVICE TO HOUSE.

Water Service Replacement/Connection – *Private Well Retained*

Well Disposition:

Home with PFAS6 less than 200ppt may retain well for irrigation usage only

Water Service Connection Steps:

Step 1 - Homeowner to keep well for irrigation uses

Step 2 - Disconnect well from interior plumbing and provide exterior faucet

Step 3 - Construct connection to Wannacomet Water Co.

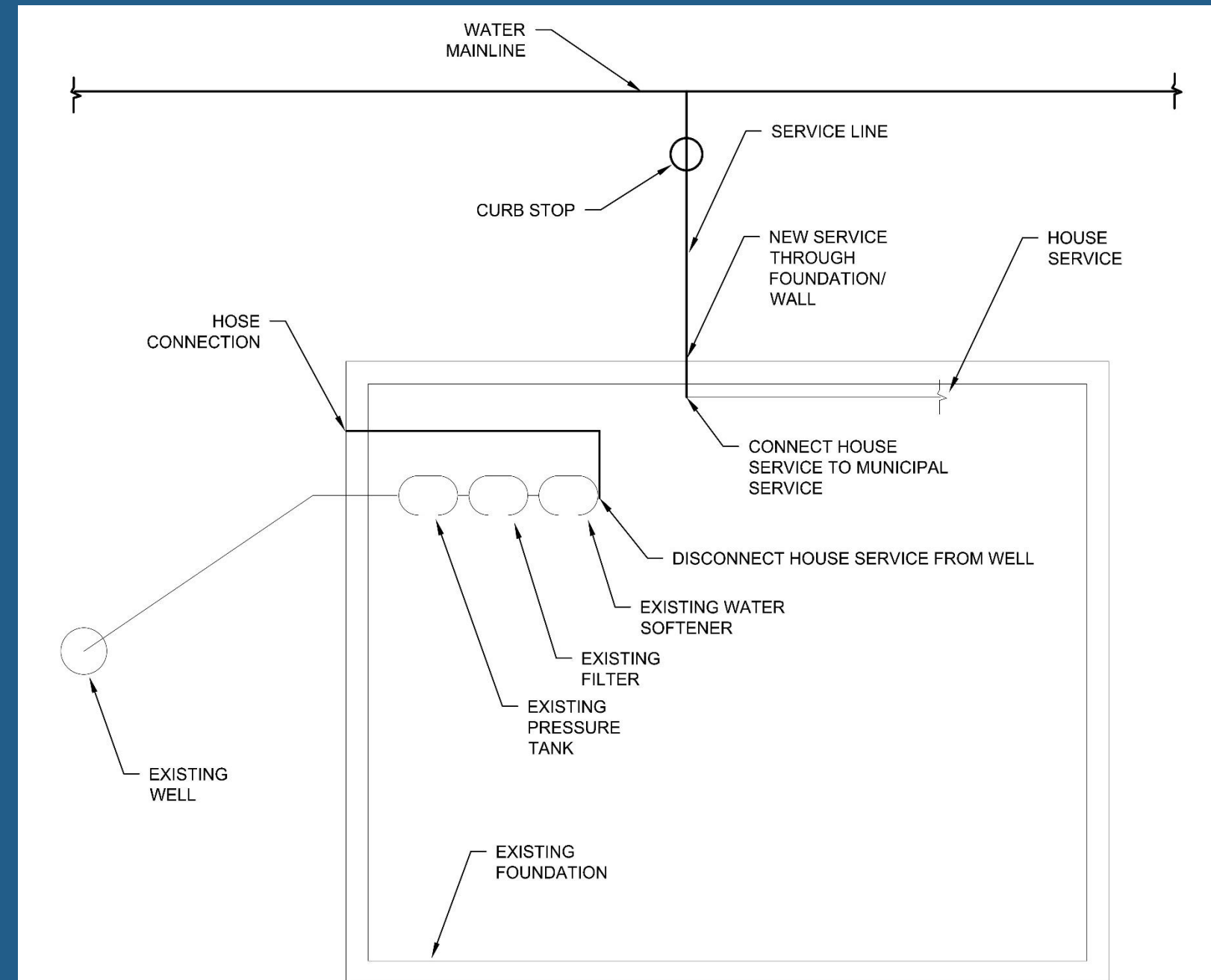
Step 4 - Interior modifications include:

1. Retain pressure tank, filter, and water softener for irrigation
2. Connect Wannacomet water service to house for domestic use

Step 5 - Restore landscaping/hardscaping

**Design, construction and permits will be completed*

at no cost to the homeowner



RETAIN WELL FOR IRRIGATION

NOT TO SCALE

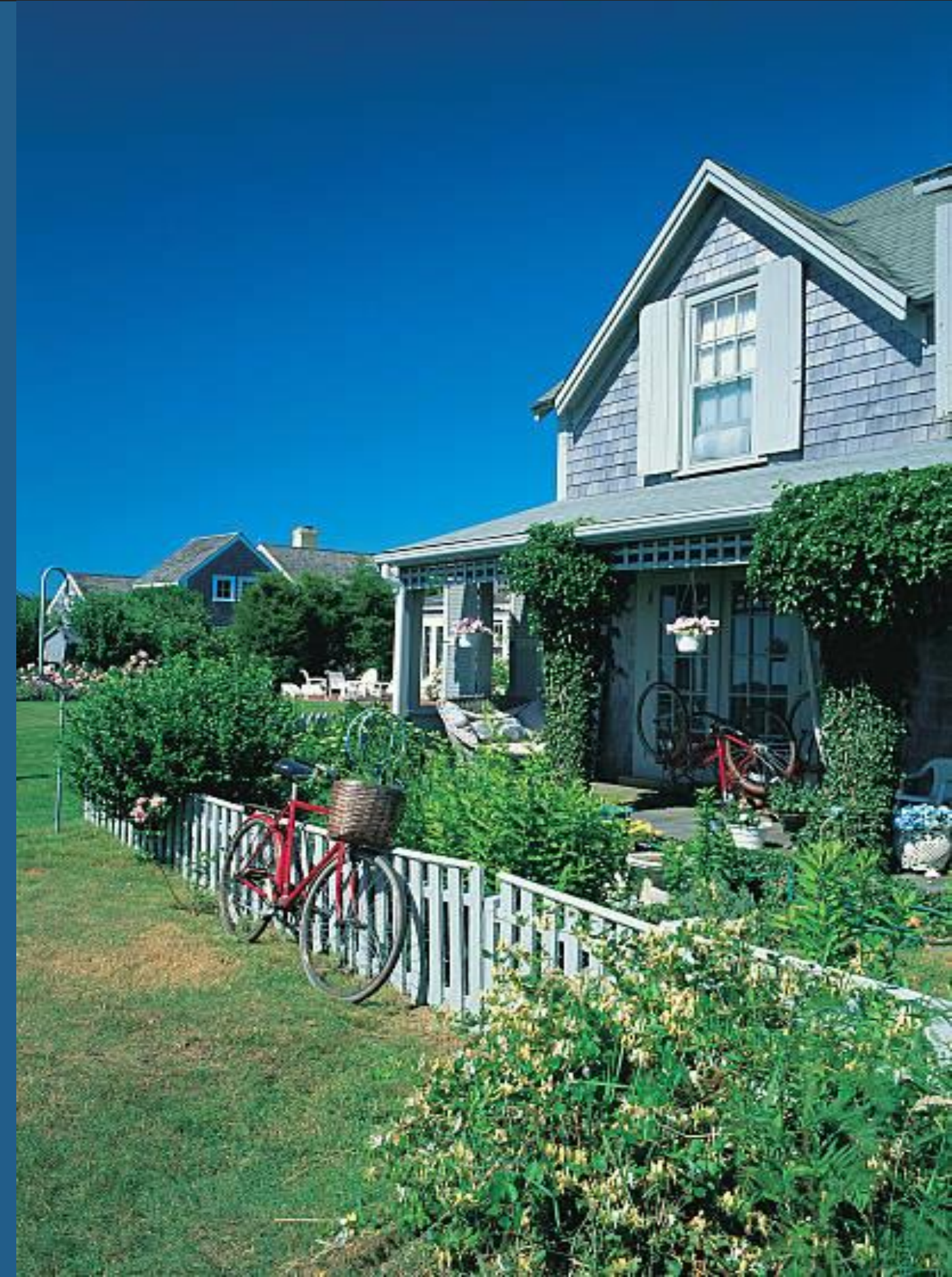
NOTES:

1. DISCONNECT WELL WATER FROM DOMESTIC HOUSE SERVICE.
2. PROVIDE NEW CONNECTION THROUGH FOUNDATION FOR MUNICIPAL SERVICE.

Property Restoration

Landscaping / Hardscaping / Building Restoration

1. Landscaping, shrubs, plants, etc. to be replaced, if necessary
2. Patios, walkways, driveways to be rebuilt/patched, as necessary
3. House foundations/pipe openings to be patched and sealed, as necessary



Project Team



Nantucket Memorial Airport

Website: www.ack-pfas.com

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Email:

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Phone: (508) 325-7531



McFarland-Johnson, Inc.

Consulting Engineer

Richard Lasdin, PE, Project Manager



Weston Solutions

Licensed Site Professional (LSP)

James Soukup, LSP, PG, RG

Lisa Kammer, PG, Project Manager

Thank you



Public Questions and Comments

Please use the *“Raise Hand”* function to ask a question or provide a comment. You will be called upon in order.

If you do not get your question addressed or have comments after this meeting, please submit your questions and comments to:

Noah Karberg, Assistant Airport Manager
nkarberg@nantucketairport.com

Please visit www.ACK-PFAS.com

You are welcome to submit comments and questions prior to the meeting by using the **Contact Us** form available on the website.

How to Register to Ask Questions

Sub-committee Public Information Session - August 11, 2021 at 5:00pm

This Sub-committee Public Information Session will be held on Wednesday, August 11, 2021 at 5pm. This meeting will be hosted on Zoom Webinar. See links below for the instructions and access.

To view the meeting on YouTube, please use this link:

https://youtu.be/ABAMK_Y4Kp0

To register as a meeting participant and to participate during the public comment portion of the meeting, please use this link for access to Zoom Webinar:

https://us06web.zoom.us/webinar/register/WN_GO0vAUB1S3-cAIEQzdKEzA

You are welcome to submit comments and questions prior to the meeting by using the **Contact Us** form available on the website.

To review the instructions on how this public meeting will occur and how public comment and participation will take place, please use the link below. This meeting will be run similarly to the current Nantucket Select Board Meeting format. Please refer to *“New Public Participation Guidelines for Select Board Meetings* section for the instructions for this meeting.

<https://www.nantucket-ma.gov/138/Boards-Commissions-Committees>

Go to www.ACK-PFAS.com to register on the Zoom link to participate in this meeting