Town of Kittery Maine
Town Council Public Workshop

Federal Emergency Management Agency

Flood Insurance Rate Maps

April 7, 2014

Federal Emergency Management Agency (FEMA)

Manages response to national emergencies/disasters.

Administers National Flood Insurance Program.

National Flood Insurance Program Status

$ Billions in debt.
Congress eliminated subsidies.
Owner pay full cost for flood insurance.
Insurance price projected increases 18 to 25%.

National Flood Insurance Program
Flood Insurance Rate Maps
(FIRMs)

What?

Why?

How Made?

Issues?

Response?

FEMA
Flood Insurance Rate Maps (FIRMs)

What?

Identify areas where structures may be at risk of flooding.

FEMA
Flood Insurance Rate Maps (FIRMs)

Why?

Identify owners that may or must need flood insurance.

FEMA
Flood Insurance Rate Maps (FIRMs)
How Made?
Aerial Imagery Information & Calculations

Kittery's current FIRM - 1984.
Preliminary FIRM - 2013

FEMA Preliminary FIRMs

Kittery's Issues?

Discrepancies in Mapping & Calculations

FEMA Preliminary FIRMs

Kittery's Issues / Impacts?
Approximately 75 structures
Coastal Flood Area - 65

Non-Coastal Flood Areas
Approximately 10 properties

FEMA Preliminary FIRMs

Kittery's Issue?

Principal structures proposed to be added to the Flood Hazard Area may not be subject to severe flooding.

NOTES TO USERS

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To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0 North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

The AE Zone category has been divided by a **Limit of Moderate Wave Action (LiMWA)**. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LiMWA (or between the shoreline and the LiMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

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NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was derived from digital orthophotography. Basemap files were provided in digital form by State of Maine, Maine Office of GIS (MeGIS). Ortho imagery was produced at a scale of 1:600 and is dated August 2012. The projection used in the preparation of this map is Maine State Plane West (FIPSZONE 1802). The horizontal datum is NAD 83, GRS1980 spheroid.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the **profile baseline**, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unrevised streams may differ from what is shown on previous maps.

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If you have **questions about this map**, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at **1-877-FEMA-MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

State of Maine Floodway Note: Under the Maine Revised Statutes Annotated (M.R.S.A.) Title 38 § 439-A. 7D where the floodway is not designated on the Flood Insurance Rate Map, the floodway is considered to be the channel of a river or other water course and the adjacent land areas to a distance of one-half the width of the floodplain, as measured from the normal high water mark to the upland limit of the floodplain, unless a technical evaluation certified by a registered professional engineer is provided demonstrating the actual floodway based upon approved FEMA modeling methods.

Only coastal structures that are certified to provide protection from the 1 percent annual chance flood are shown on this panel. However, all structures taken into consideration for the purpose of coastal flood hazard analysis and mapping are present in the DFIRM database in S_Gen_Struct.

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% Annual Chance Floodplain Boundary
0.2% Annual Chance Floodplain Boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary

Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.

Limit of Moderate Wave Action

Limit of Moderate Wave Action coincident with Zone Break

~~ 513 ~~~	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

(A)——(A)	Cross section line
(23)- - - -(23)	Transect line
	Culvert
	Bridge
45° 02' 08", 93° 02' 12"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
3100000 FT	5000-foot ticks: Maine State Plane West Zone (FIPS Zone 1802), Transverse Mercator projection
^{42}86^{000m}N	1000 meter Universal Transverse Mercator grid values, zone 19
DX5510 ×	Bench mark (see explanation in Notes to Users section of this FIRM panel)

MAP REPOSITORIES
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EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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MAP SCALE 1" = 500'

250 0 500 1000 FEET
150 0 150 300 METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0728G

FIRM

FLOOD INSURANCE RATE MAP

YORK COUNTY, MAINE (ALL JURISDICTIONS)

PANEL 728 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
KITTERY, TOWN OF	230171	0728	G

PRELIMINARY
NOVEMBER 5, 2013

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MAP NUMBER
23031C0728G

EFFECTIVE DATE

Federal Emergency Management Agency

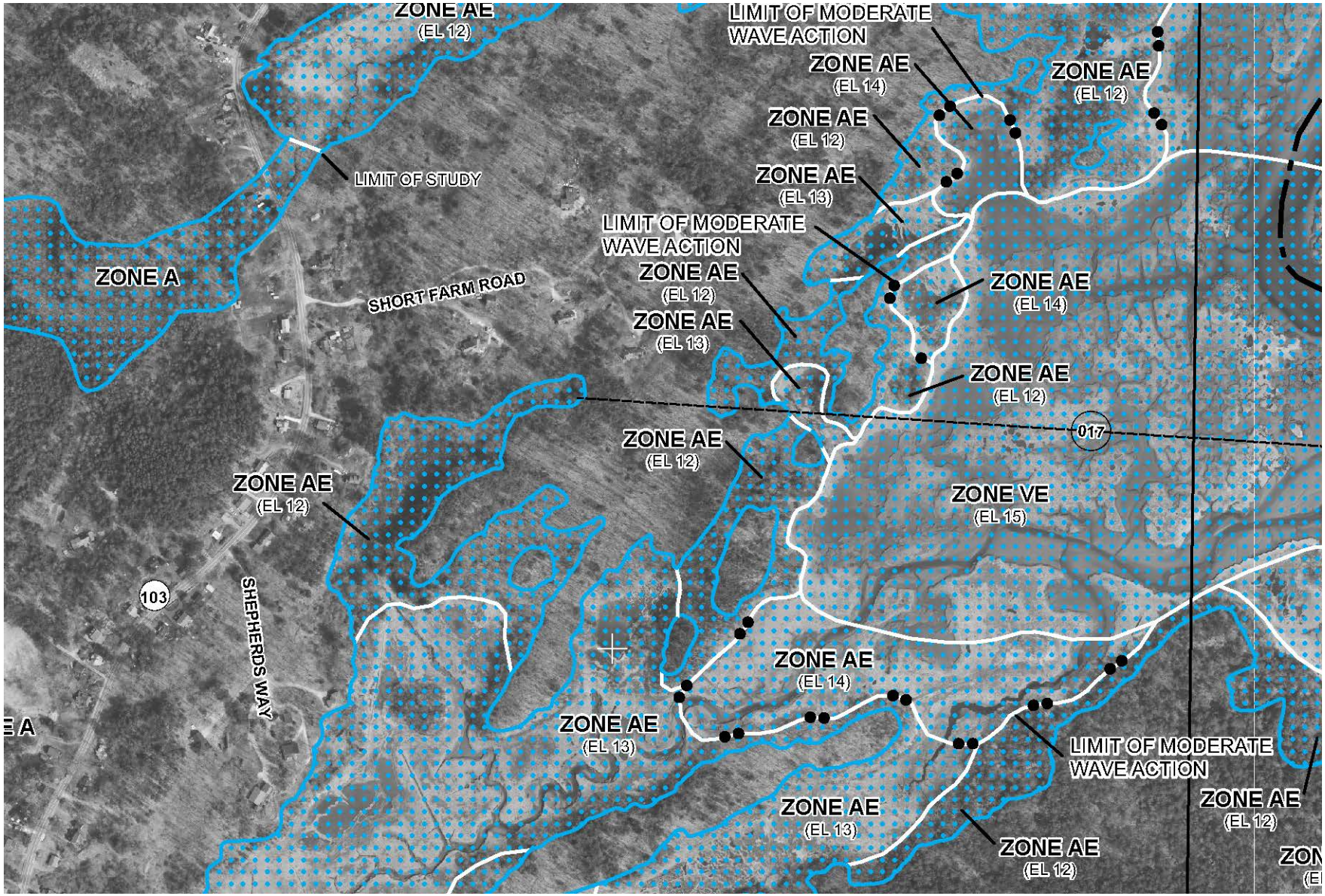
FEMA Preliminary FIRM

What's an A, AE or VE Zone?

A Zone - a flood hazard area
without a base flood elevation determined.

AE Zone - a flood hazard area.
with a base flood elevation determined.

VE Zone - a coastal flood zone with velocity hazard &
with a base flood elevation determined.


ZONE AE
(EL 12)
LIMIT OF MODERATE
WAVE ACTION
ZONE AE
(EL 14)
ZONE AE
(EL 12)
ZONE AE
(EL 12)
ZONE AE
(EL 13)
LIMIT OF STUDY
LIMIT OF MODERATE
WAVE ACTION
ZONE A
SHORT FARM ROAD
ZONE AE
(EL 12)
ZONE AE
(EL 14)
ZONE AE
(EL 13)
ZONE AE
(EL 12)
017
ZONE AE
(EL 12)
ZONE AE
(EL 12)
ZONE VE
(EL 15)
103
SHEPHERDS WAY
ZONE AE
(EL 14)
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Culvert

Bridge

45° 02' 08", 93° 02' 12": Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere

3100000 FT: 5000-foot ticks: Maine State Plane West Zone (FIPS Zone 1802), Transverse Mercator projection

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DX5510 ×: Bench mark (see explanation in Notes to Users section of this FIRM panel)

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250 0 500 1000 FEET

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NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0729G

FIRM

FLOOD INSURANCE RATE MAP

YORK COUNTY, MAINE (ALL JURISDICTIONS)

PANEL 729 OF 826

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
KITTERY, TOWN OF	230171	0729	G

PRELIMINARY
NOVEMBER 5, 2013

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MAP NUMBER
23031C0729G

EFFECTIVE DATE

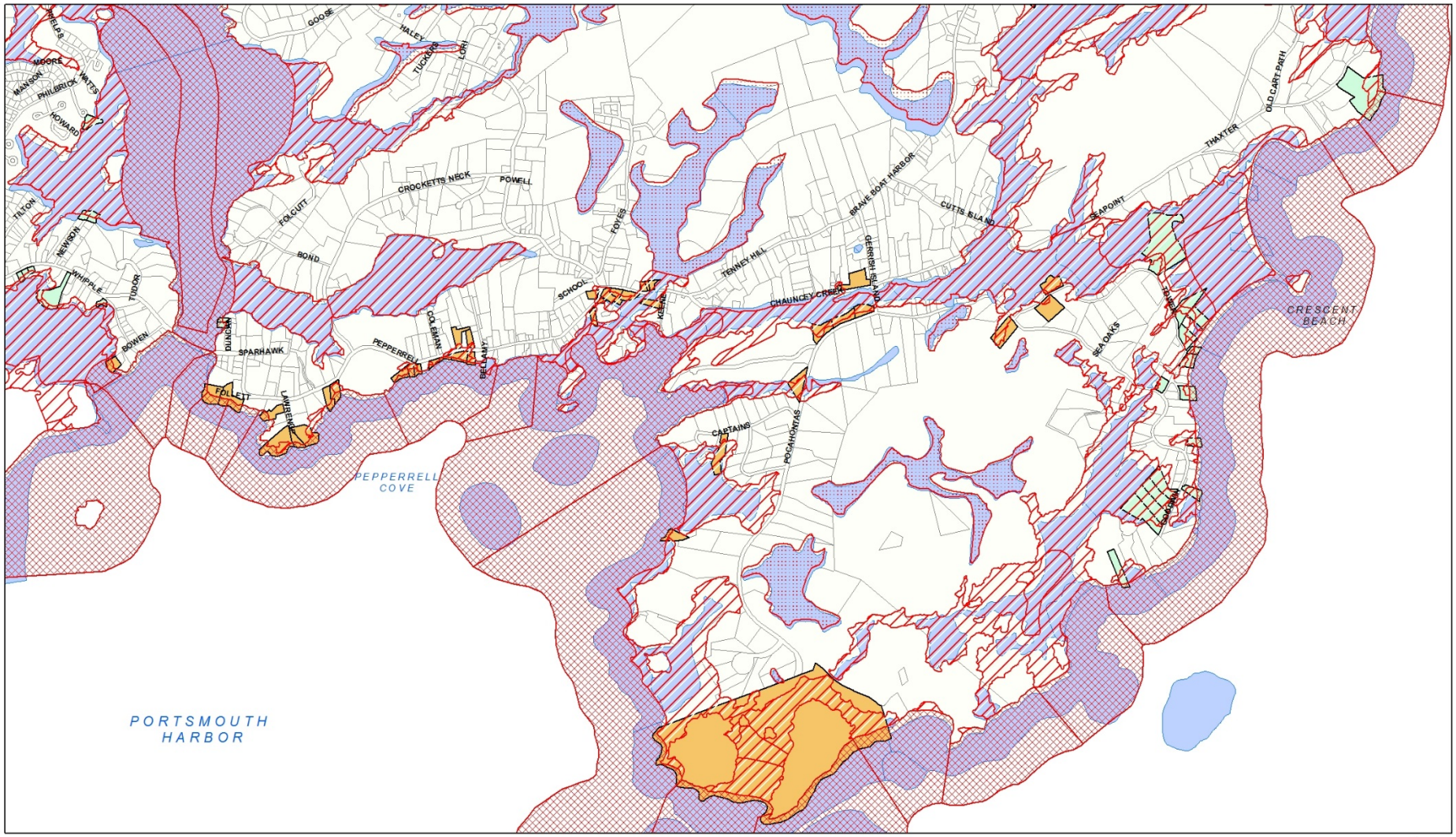
Federal Emergency Management Agency

FEMA Preliminary FIRMs

Comparison between Current and Preliminary FIRMs

OVERVIEW MAPS

OVERVIEW OF PROPERTIES THAT MAY HAVE STRUCTURES THAT ARE NEWLY IMPACTED ALONG THE COAST



LEGEND

- 2013 KITTERY PARCEL DATA
- Properties with buildings impacted by the 2013 Preliminary FIRM **TOTAL: APPROX. 78**
- Properties with buildings impacted by the 2013 Preliminary FIRM (within the scope of Ransom report) **TOTAL: APPROX. 40**

2013 PRELIMINARY FIRM (FLOOD ZONE)

- A (100 YEAR- no flood elevations)
- AE (100 YEAR- with flood elevations)
- VE (100 YEAR-velocity with flood elevations)
- X500 (500 YEAR-0.2 % annual chance)

CURRENT FIRM (FLOOD ZONE)

- A; AE; AO; VE

0 1,250 2,500 5,000 7,500 10,000 Feet

1 inch = 1,250 feet

OVERVIEW OF PROPERTIES THAT MAY HAVE STRUCTURES THAT ARE NEWLY IMPACTED INLAND

LEGEND

(white)	2013 KITTERY PARCEL DATA
(green)	Properties with buildings impacted by the 2013 Preliminary FIRM **TOTAL: APPROX. 78**
(orange)	Properties with buildings impacted by the 2013 Preliminary FIRM (within the scope of Ransom report) **TOTAL: APPROX. 40**

2013 PRELIMINARY FIRM (FLOOD ZONE)

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- AE (100 YEAR - with flood elevations)
- VE (100 YEAR-velocity with flood elevations)
- X500 (500 YEAR-0.2 % annual chance)

CURRENT FIRM (FLOOD ZONE)

- A; AE; AO; VE

0 1,500 3,000 6,000 9,000 12,000 Feet

1 inch = 1,500 feet

N S W E

FEMA Preliminary FIRMs

Comparison between Current and Preliminary FIRMs

DETAIL MAPS

LEGEND

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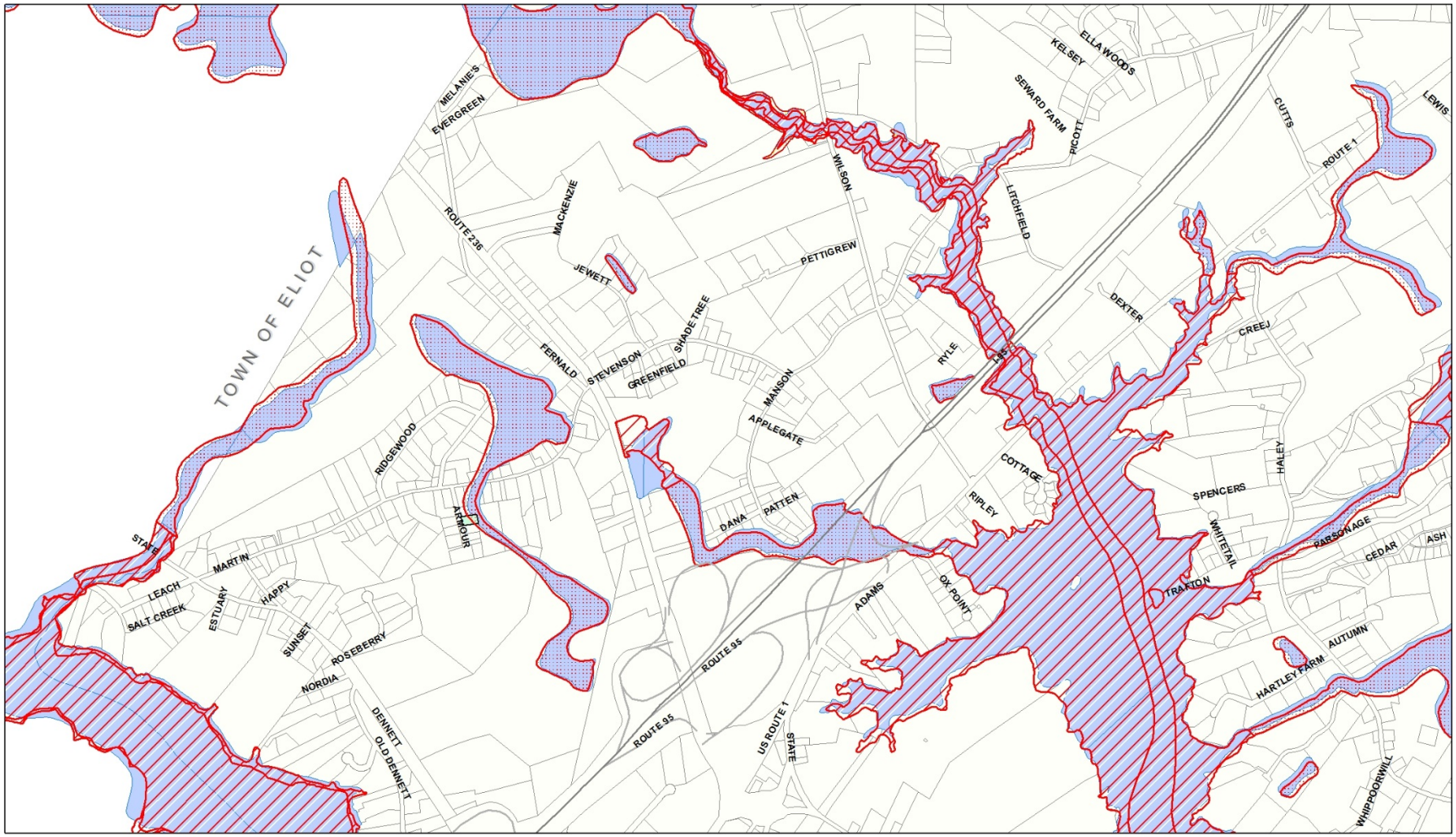
CURRENT FIRM (FLOOD ZONE)

- A; AE; AO; VE

0 1,000 2,000 4,000 6,000 8,000 Feet

1 inch = 1,000 feet



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0 1,000 2,000 4,000 6,000 8,000 Feet

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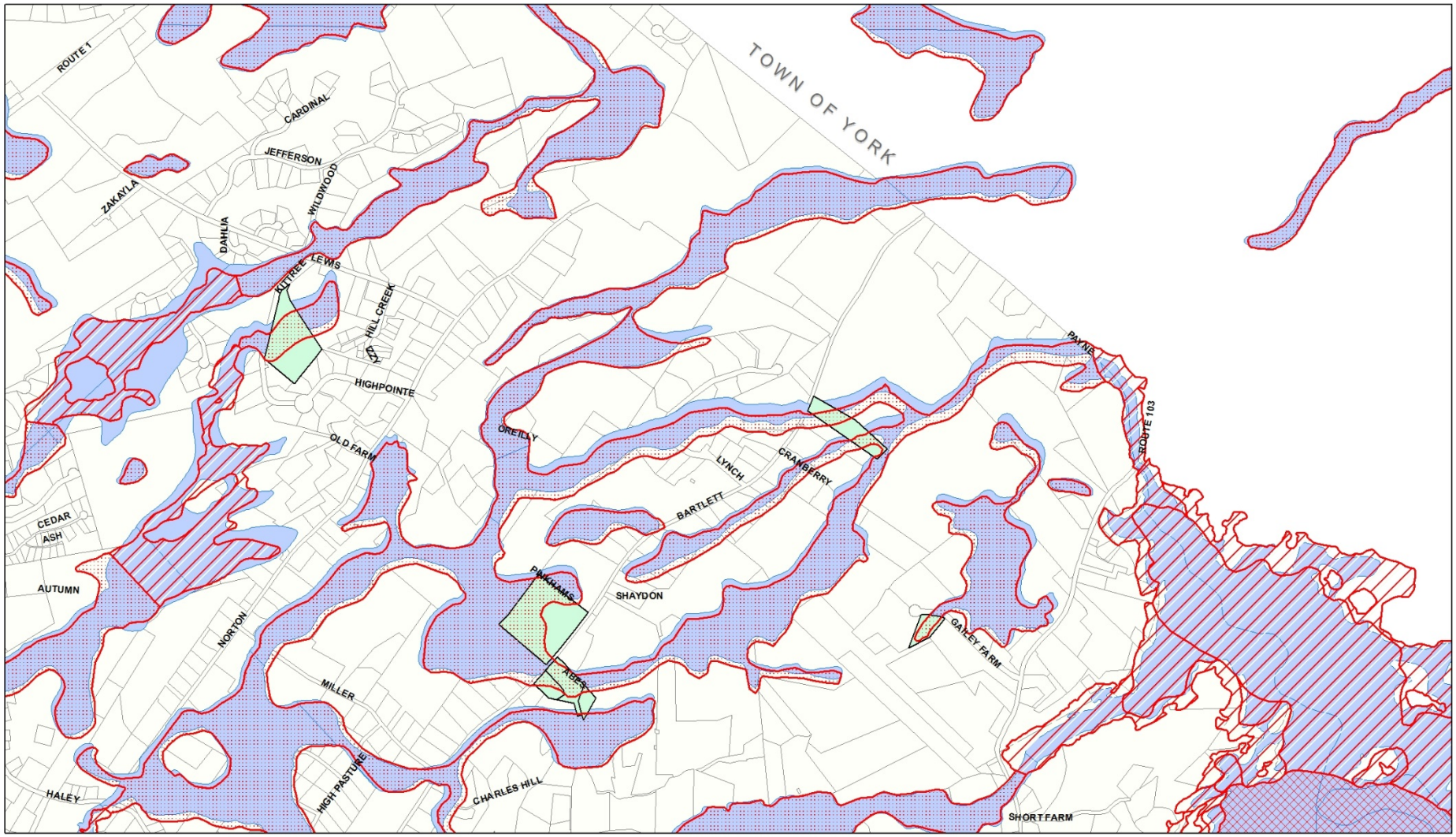
N W E S



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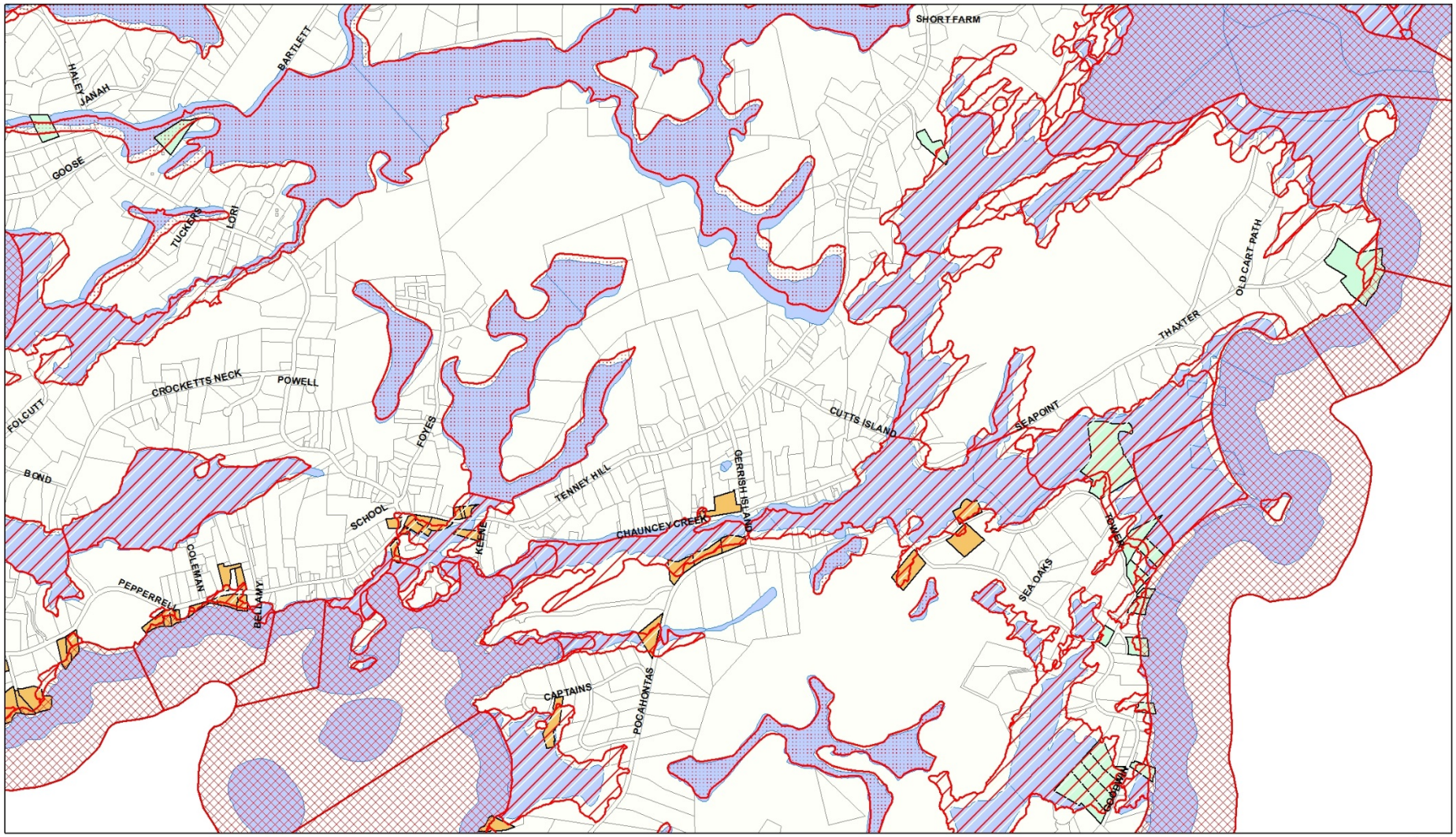
- A; AE; AO; VE

0 1,000 2,000 4,000 6,000 8,000 Feet

1 inch = 1,000 feet

N W E S



LEGEND

- 2013 KITTERY PARCEL DATA
- Properties with buildings impacted by the 2013 Preliminary FIRM **TOTAL: APPROX. 78**
- Properties with buildings impacted by the 2013 Preliminary FIRM (within the scope of Ransom report) **TOTAL: APPROX. 40**

2013 PRELIMINARY FIRM (FLOOD ZONE)

- A (100 YEAR- no flood elevations)
- AE (100 YEAR- with flood elevations)
- VE (100 YEAR-velocity with flood elevations)
- X500 (500 YEAR-0.2 % annual chance)

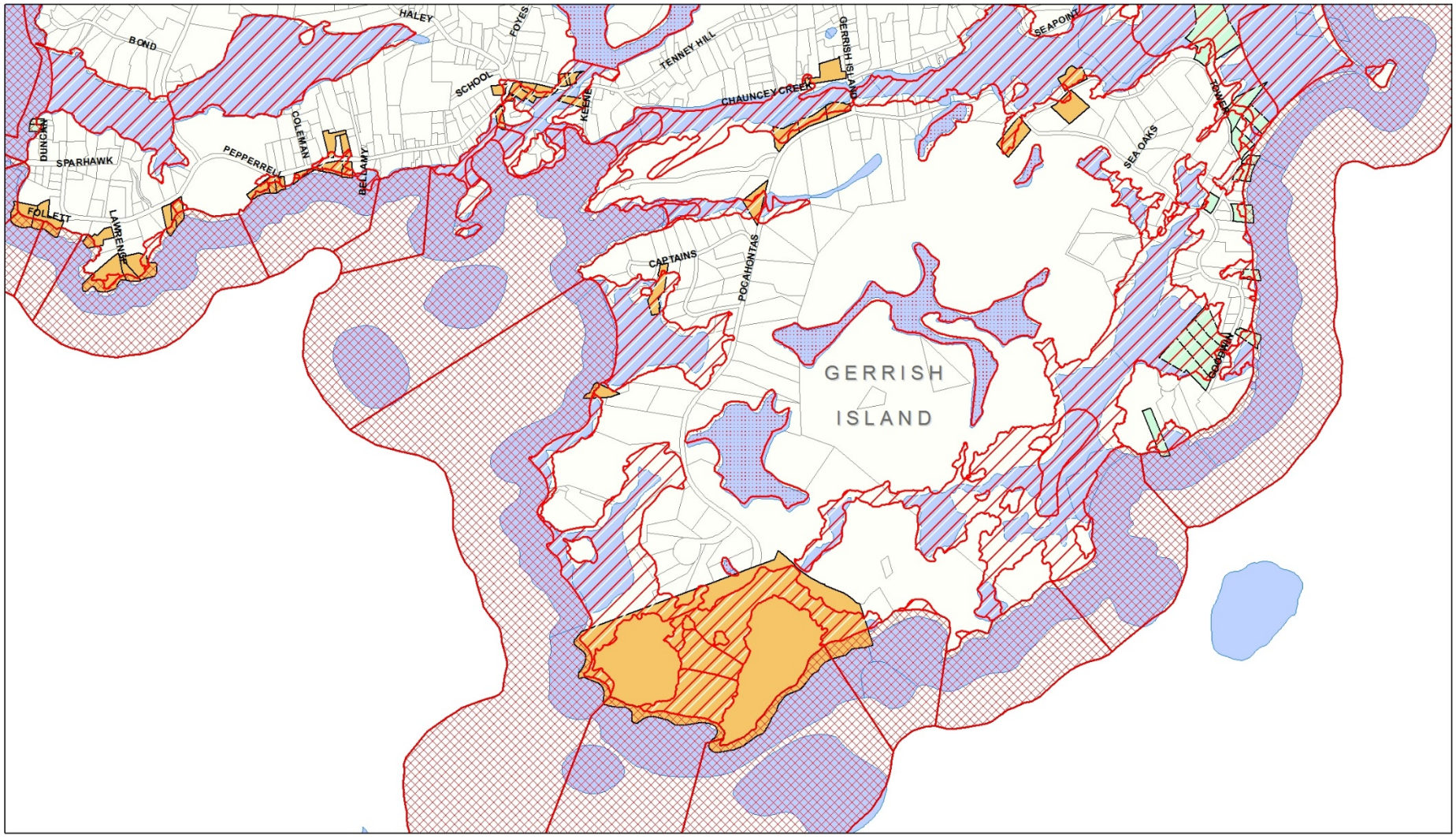
CURRENT FIRM (FLOOD ZONE)

- A; AE; AO; VE

0 1,000 2,000 4,000 6,000 8,000 Feet

1 inch = 1,000 feet

N W E S



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- VE (100 YEAR-velocity with flood elevations)
- X500 (500 YEAR-0.2 % annual chance)

CURRENT FIRM (FLOOD ZONE)

- A; AE; AO; VE

0 1,000 2,000 4,000 6,000 8,000 Feet

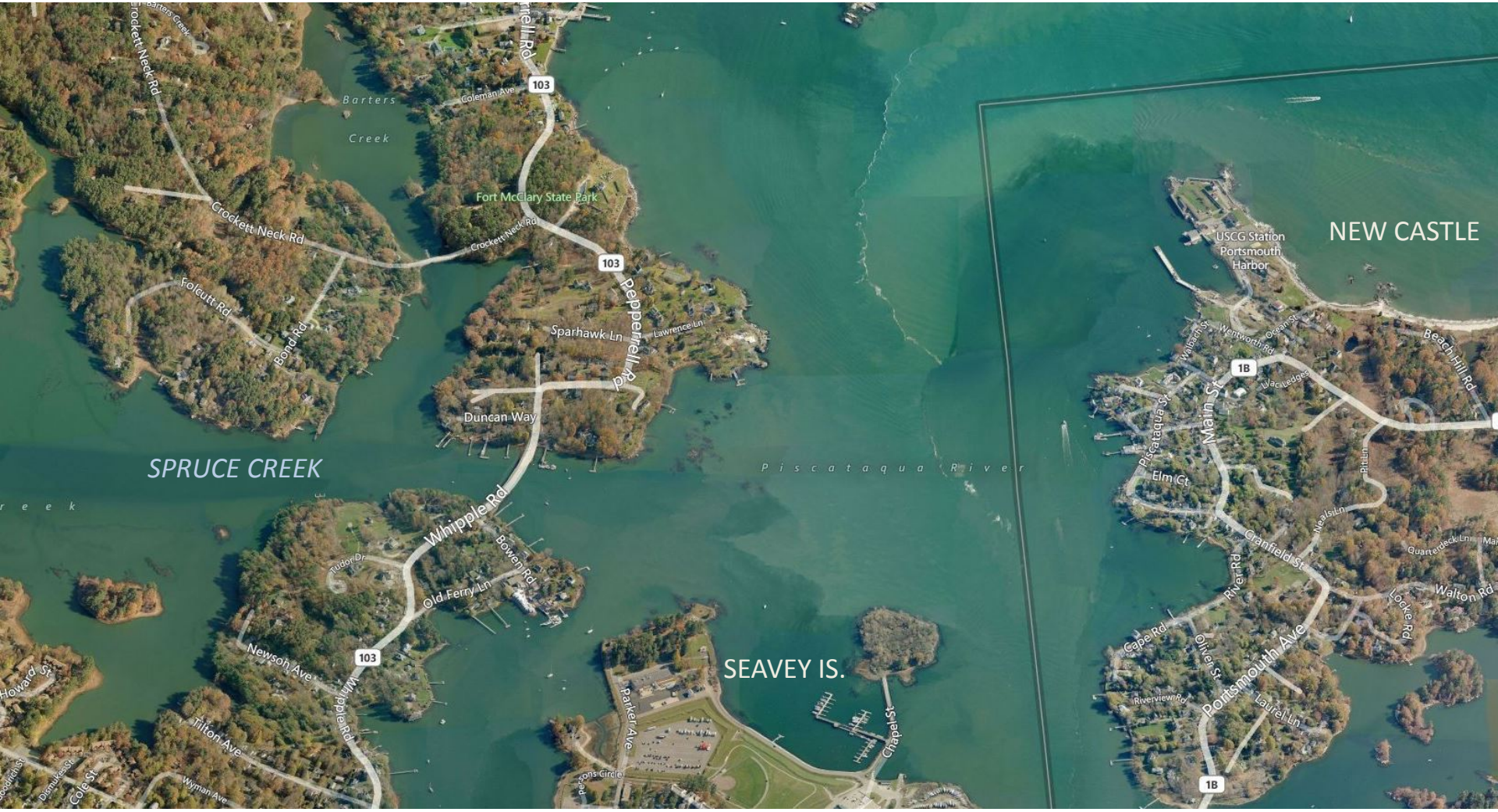
1 inch = 1,000 feet

N W E S

FEMA Preliminary FIRMs

Kittery's Issues?

Discrepancies in Mapping within the preliminary A zones (Inland) and erroneous/unexpected elevations within the AE and VE (coastal) flood zones.



NORTH IS TO THE RIGHT

NORTH IS TO THE RIGHT

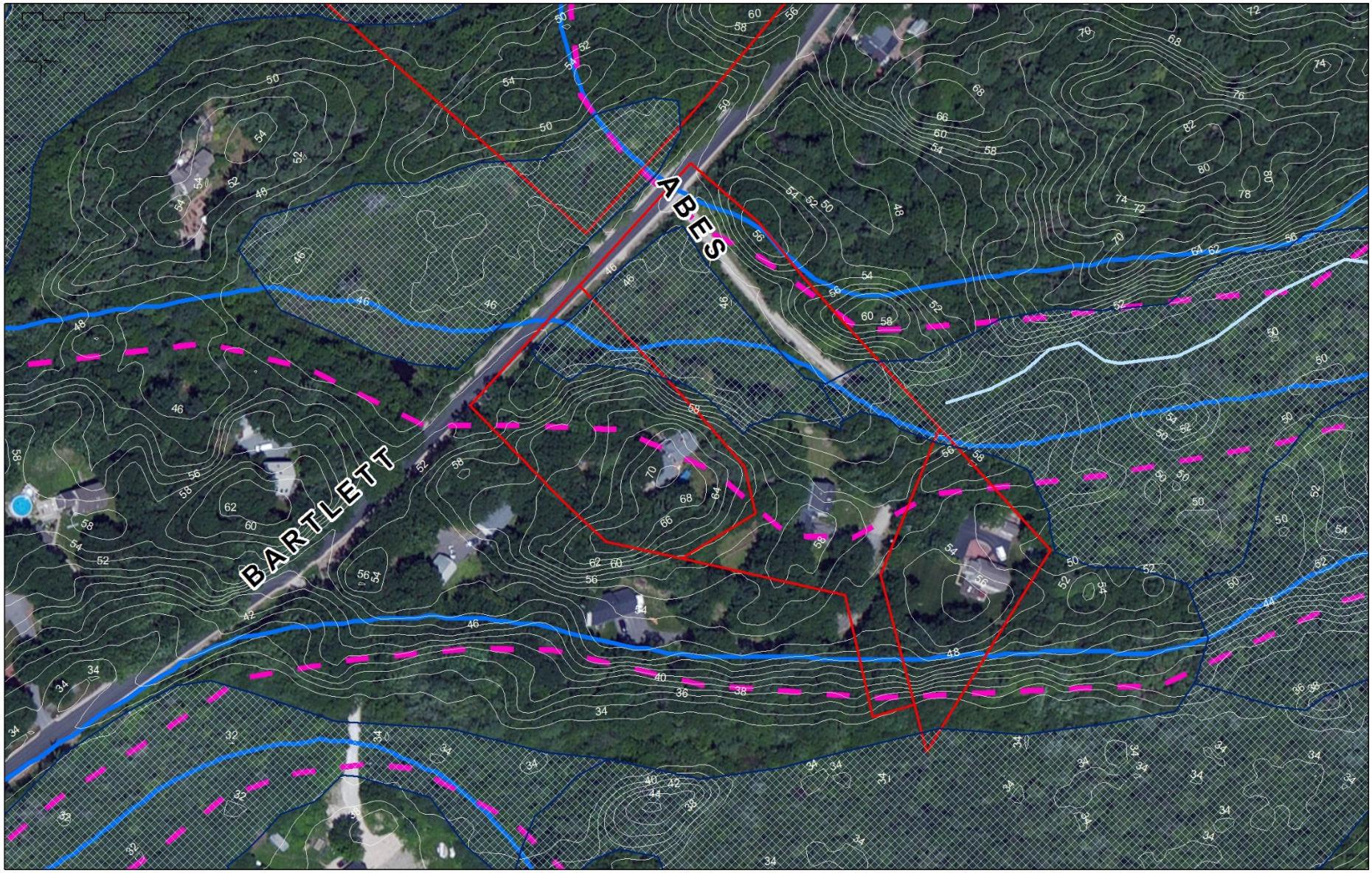
NORTH IS TO THE RIGHT

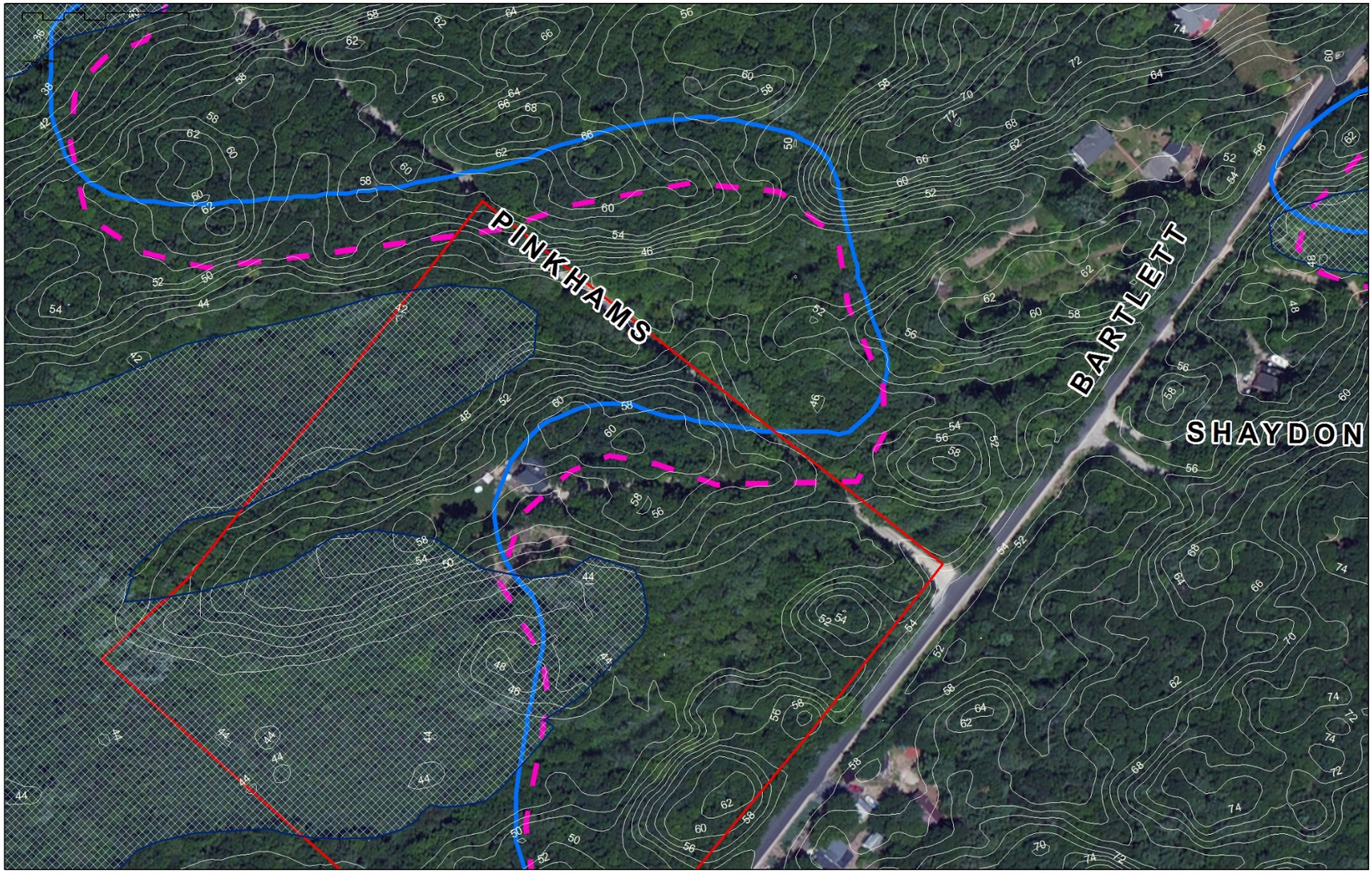
Bowen Rd
Sparhawk Ln
Crocketts Neck Rd
Pepperrell Rd
Follett Ln
NoName
Lawrence Ln

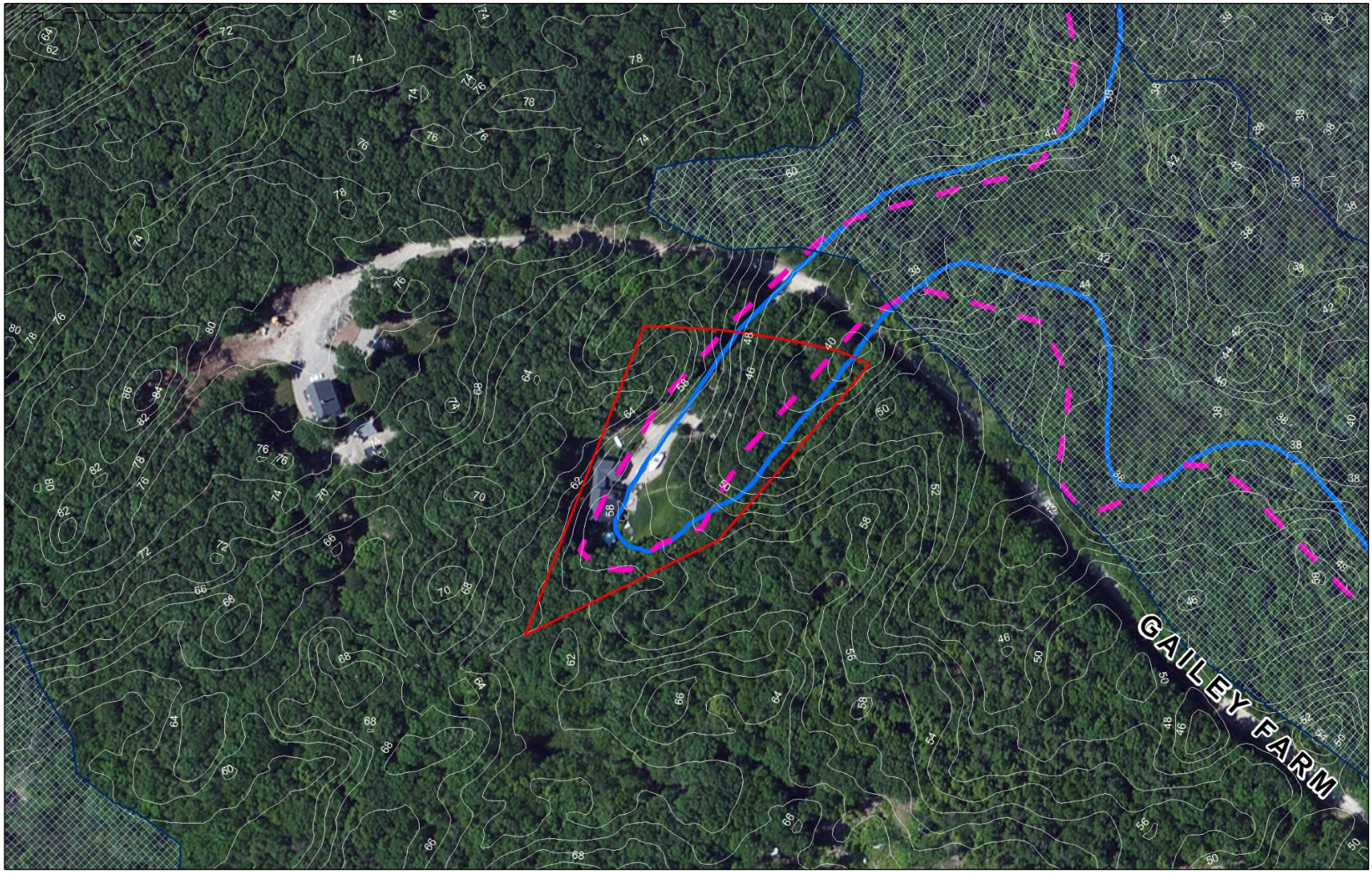
NORTH

3-149
Village Green Dr
8-43
3-111
3-147
State Rd
3-148
3-114
3-01
3-128
3-147C
Port Av
3-147A
3-02
3-147B
3-04
STATE ROAD
4-189
3-06
3-05
3-145
3-07
WATER
DISTRICT
Love Ln

3-119
3-111
3-147
3-149
Village Green Dr
8-43
3-127
State Rd
3-148
8-46
3-114
3-01
3-128
3-147C
Park Av
3-147A
3-02
230
3-147B
3-04
4-189
3-145
3-06
3-05
3-07
Love Ln


ABES
BARTLETT


PINKHAMS
BARTLETT
SHAYDON


GAILEY FARM

FEMA Preliminary FIRMs

Kittery's Response?

Coastal Area:
Individual Appeal
$3,000 to $10,000

Town Appeal
$20,000

FEMA Flood Insurance Rate Maps

Kittery's Response?

Non - Coastal Area:

Individual Appeal
$3,000 to $10,000

Kittery’s Response?

Action/ Appeal?

When?

Mid April 2014?
Then Within 90 Days

FEMA Flood Insurance Rate Maps

Your Response ? Action / Option
per State MFMP ?
Get Flood Insurance
When?
Now/ Before new FIRMs
Why?
Priced at current premium amount.

Town of Kittery Maine
Town Council Public Workshop

Federal Emergency Management Agency

Flood Insurance Rate Maps

April 7, 2014