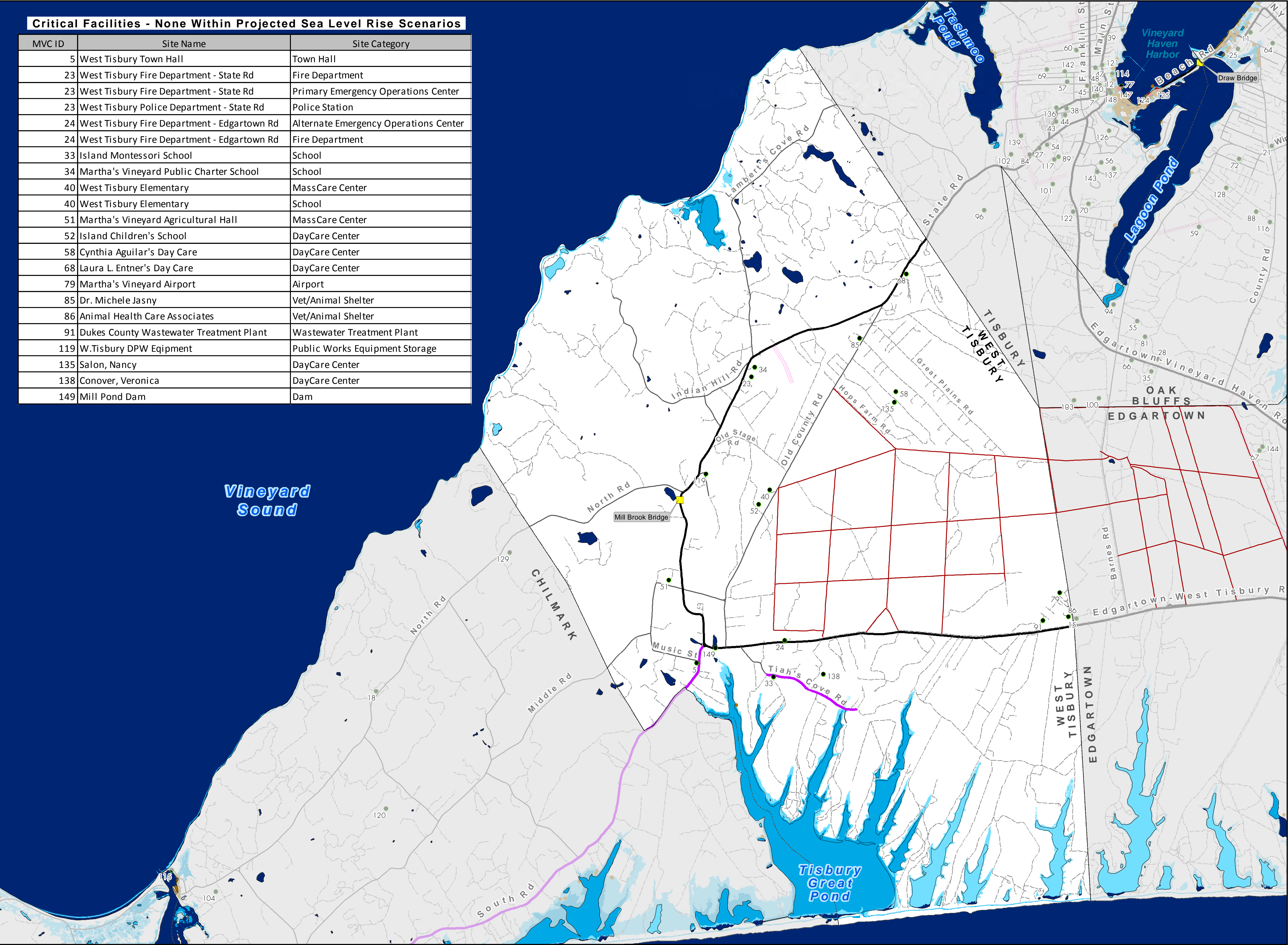


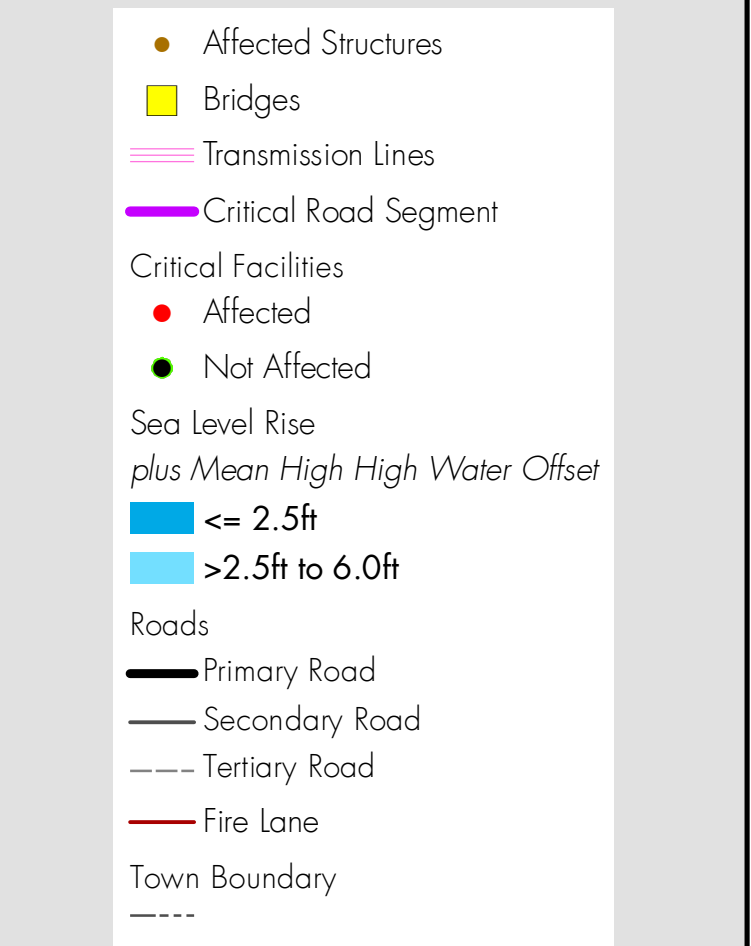
Critical Facilities - None Within Projected Sea Level Rise Scenarios

MVC ID	Site Name	Site Category
5	West Tisbury Town Hall	Town Hall
23	West Tisbury Fire Department - State Rd	Fire Department
23	West Tisbury Fire Department - State Rd	Primary Emergency Operations Center
23	West Tisbury Police Department - State Rd	Police Station
24	West Tisbury Fire Department - Edgartown Rd	Alternate Emergency Operations Center
24	West Tisbury Fire Department - Edgartown Rd	Fire Department
33	Island Montessori School	School
34	Martha's Vineyard Public Charter School	School
40	West Tisbury Elementary	MassCare Center
40	West Tisbury Elementary	School
51	Martha's Vineyard Agricultural Hall	MassCare Center
52	Island Children's School	DayCare Center
58	Cynthia Aguilar's Day Care	DayCare Center
68	Laura L. Entner's Day Care	DayCare Center
79	Martha's Vineyard Airport	Airport
85	Dr. Michele Jasny	Vet/Animal Shelter
86	Animal Health Care Associates	Vet/Animal Shelter
91	Dukes County Wastewater Treatment Plant	Wastewater Treatment Plant
119	W.Tisbury DPW Equipmet	Public Works Equipment Storage
135	Salon, Nancy	DayCare Center
138	Conover, Veronica	DayCare Center
149	Mill Pond Dam	Dam



Sea Level Rise Projection  
based on 2010 LiDAR elevation data & accounting for MHHW  
West Tisbury, MA

Pre-Disaster Mitigation Plan  
Sea Level Rise Scenarios: 1.5ft and 5ft  
Mean High High Water Present Average  
Offset from NAVD88 Datum = +1.0ft



A datum is a reference from which measurements are made. The datum indicates where zero is. For example, the top of a tree may be 30ft high from the ground but that same treetop is only 10ft high from the top of the neighboring rooftop.

NOTES:  
This map was produced by the Martha's Vineyard Commission for the Pre-Disaster Mitigation Project of June 2013. Funding for the Pre-Disaster Mitigation Planning Grant was provided by the Massachusetts Emergency Management Agency.

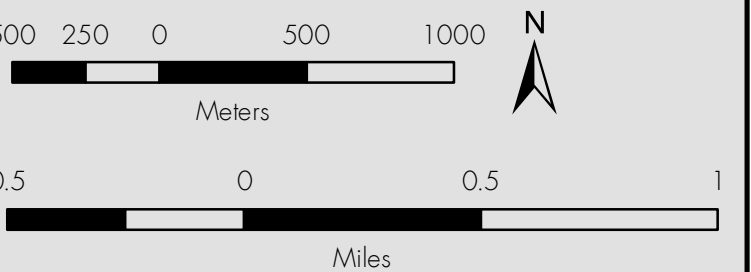
In 2010, LiDAR (Light Detection and Ranging) terrain data was collected along the coast of Martha's Vineyard and the Elizabeth Islands on behalf of FEMA. The data was processed by MassGIS into digital elevation models in geoTiff format. The elevation points, collected at 3ft spacing and two decimal point precision have a vertical accuracy of 0.47ft. The data exceed the required 1.19ft accuracy for 2ft contour generation.

The average offset between the MHHW tidal datum and the NAVD88 datum was calculated for the Island by the MVC. Values were reported by NOAA (online at their Tides & Currents page) for three Island tidal benchmarks: Menemsha, Vineyard Haven Harbor, and Edgartown Harbor. Based on those three sites, on average, MHHW is 1.06ft greater than NAVD88.

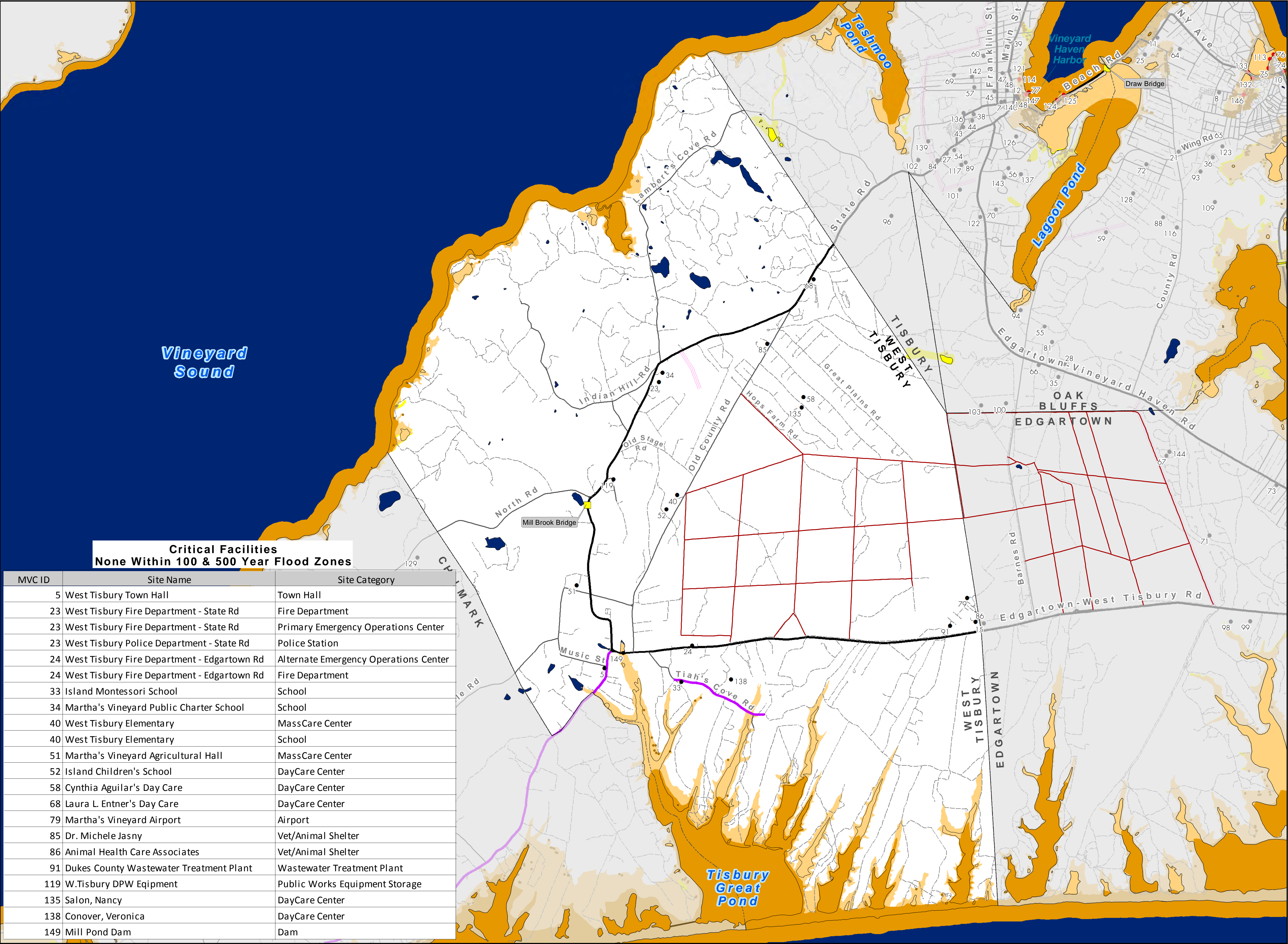
To account for this MHHW to NAVD88 offset, the MVC added an additional 1 foot to the sea level rise scenarios.

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Compiled By: Martha's Vineyard Commission, CL Seidel, 3/4/14, ph. 508-693-3453, www.mvccommission.org  
Data: Town Boundary - MassGIS 2002; Roads - MHD/MassGIS 2005; Critical Facilities & Infrastructure - MEMA 2006 & MVC 2014; Fire Lane - MVC 2005; LiDAR Elevation Data - FEMA 2010 & MassGIS 2012; Structures - MassGIS 2013 release from 2011 aerial photos  
Projection: Stateplane, MA Mainland, NAD83, Meters  
File: cls\_pdm; WtI\_SealLevel\_MHHW\_2013.mxd - Original in color







Critical Facilities  
None Within 100 & 500 Year Flood Zones

MVC ID	Site Name	Site Category
5	West Tisbury Town Hall	Town Hall
23	West Tisbury Fire Department - State Rd	Fire Department
23	West Tisbury Fire Department - State Rd	Primary Emergency Operations Center
23	West Tisbury Police Department - State Rd	Police Station
24	West Tisbury Fire Department - Edgartown Rd	Alternate Emergency Operations Center
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119	W.Tisbury DPW Equipent	Public Works Equipment Storage
135	Salon, Nancy	DayCare Center
138	Conover, Veronica	DayCare Center
149	Mill Pond Dam	Dam

100 & 500 Year  
Flood Map

West Tisbury, MA

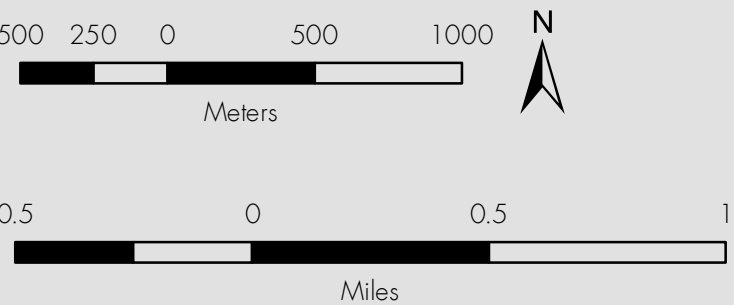
Pre-Disaster Mitigation Plan

- Affected Structures
- Bridges
- Transmission Lines
- Critical Road Segment
- Critical Facilities
  - Affected
  - Not Affected
- Flood Zones\*
  - 100 Year (VE Zone)
  - 100 Year (AE Zone)
  - 500 Year Zone
- Roads
  - Primary Road
  - Secondary Road
  - Tertiary Road
  - Fire Lane
  - Town Boundary

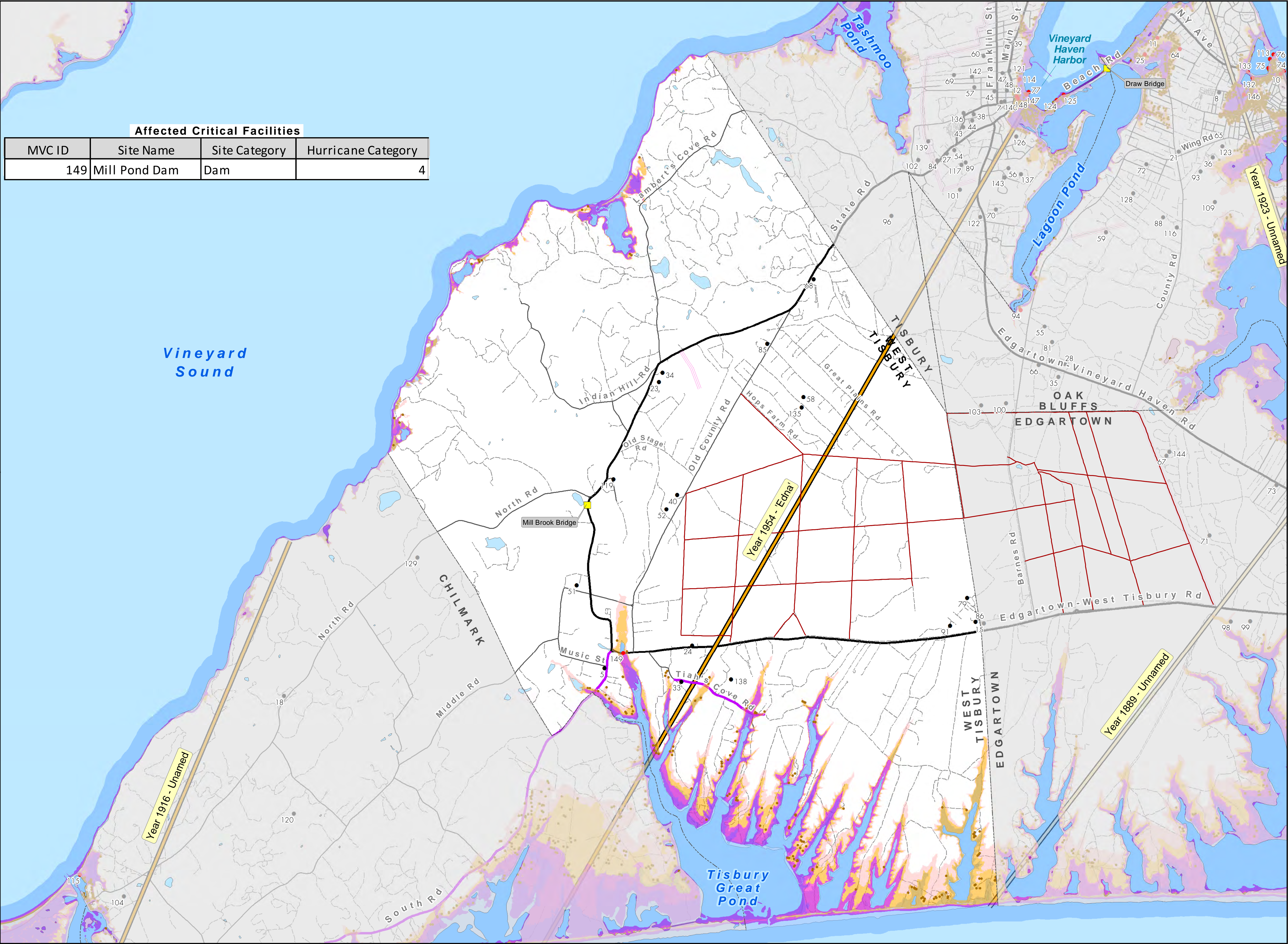
\*Data provided by FEMA - Preliminary DFIRM June 2013

NOTES:  
This map was produced by the Martha's Vineyard Commission for the Pre-Disaster Mitigation Project of June 2013. Funding for the Pre-Disaster Mitigation Planning Grant was provided by the Massachusetts Emergency Management Agency.  
  
The 100 year & 500 year flood areas represent a subset of the data available on the paper Flood Insurance Rate Maps (FIRM) as provided by the Federal Emergency Management Agency (FEMA). These data were developed by FEMA to support floodplain management and planning activities but do not replace the official paper FIRMs. These data are not suitable for engineering applications or site work nor can the data be used to determine absolute delineations of flood boundaries. Instead the data should be used to portray zones of uncertainty and possible risks associated with flooding. These data do not replace the paper FIRMs which remain the official documents.

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Compiled By: Martha's Vineyard Commission, CI Seidel, 3/4/14, ph. 508-693-3453, www.mvcommission.org  
Data: Town Boundary - MassGIS 2002; Roads - MHD/MassGIS 2005; Critical Facilities & Infrastructure - MEMA 2006 & MVC 2014; Fire Lane - MVC 2005; Flood Data - Preliminary dFIRM FEMA June 2013; Structures - MassGIS 2013 release from 2011 1; aerial photos  
Projection: Stateplane, MA Mainland, NAD83, Meters  
File: cts\_pdm; Wt\_dFIRM\_prelim\_2013.mxd - Original in color







# Hurricane Surge Inundation and Hurricane Tracks

## West Tisbury, MA

### Pre-Disaster Mitigation Plan

Affected Structures

Bridges

Transmission Lines

Critical Road Segment

Critical Facilities

Affected

Not Affected

FEMA 100 Year Flood Zone\*

Hurricane Surge Inundation (Flooding)

Worst Case Scenario

Category 1

Category 2

Category 3

Category 4

Hurricane Track

TS - Tropical Storm (39-73 MPH)

H1 - Category 1 (74-95 MPH)

H2 - Category 2 (96-110 MPH)

Roads

Primary Road

Secondary Road

Tertiary Road

Fire Lane

Town Boundary

\*Data provided by FEMA - Preliminary DFIRM June 2013

**NOTES:**  
This map was produced by the Martha's Vineyard Commission for the Pre-Disaster Mitigation Project of 2013. Funding for the Pre-Disaster Mitigation Planning Grant was provided by the Massachusetts Emergency Management Agency.

Per USACE:  
\*Hurricane surge elevations were determined by the National Hurricane Center using the PV2 SLOSH model basin, and assumed peak hurricane surge arriving at mean high water.

The hurricane surge inundation areas shown on this map depict the inundation that can be expected to result from a worst case combination of hurricane landfall location, forward speed, and direction for each hurricane category.\*

\*The primary elevation data source was LiDAR data collected from Nov 2009 to Feb 2010 by Camp Dresser and McKee. This data was supplemented with MassGIS Digital Terrain Model (DTM) files which were made available in April 2003.\*

**ACCURACY:**  
SLOSH Model Elevation Data: +/-20 percent  
LiDAR Elevation Data: +/-0.5ft vertical; +/-1ft horizontal  
Shoreline Data: Less accurate than LiDAR; Hence, discrepancies will be visibly noticeable when displayed together.

**DISCLAIMER:**  
Data provided are for planning purposes only. The data are not adequate for boundary determination or regulatory interpretation. Nor should these data be considered an absolute representation indicating which areas can expect to be flooded by hurricane storm surge for a particular category. The MVC cannot be responsible for how these data are used or interpreted by the end user.

Compiled By: Martha's Vineyard Commission, CL Seidel, 3/4/14, ph. 508-693-3453, www.mvcommission.org

Data: Town Boundary - MassGIS 2002; Roads - MHD/MassGIS 2005; Critical Facilities & Infrastructure - MEMA 2006 and MVC 2014; Inundation Areas - USACE 2013; Hurricane Track - NOAA; Flood Zone - FEMA Preliminary June 2013  
Projection: Stateplane, MA Mainland, NAD83, Meters  
File: cls\_pdm; Wt1\_HurSLOSH\_2013\_v2.mxd - Original in color

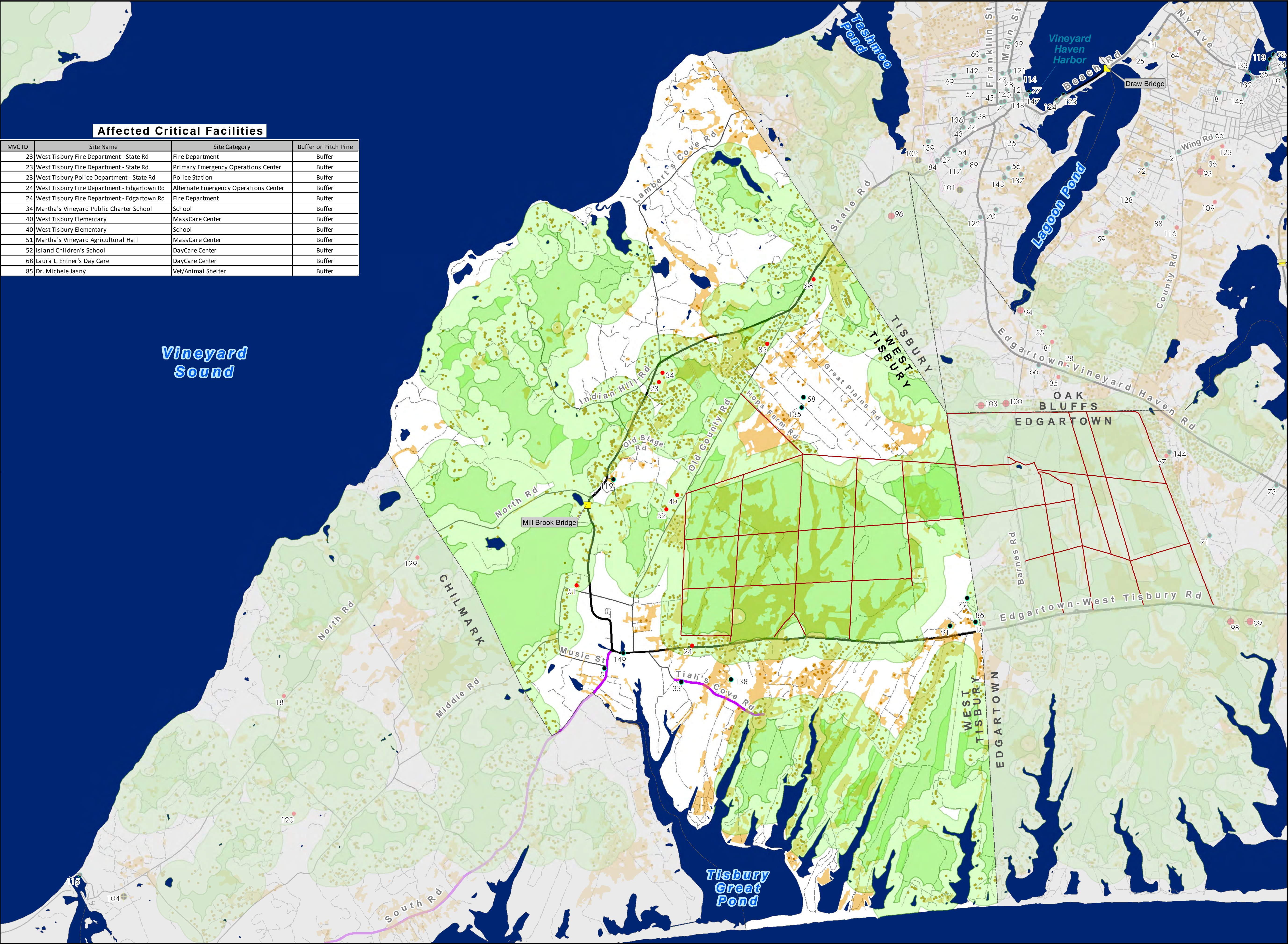
500 250 0 500 1000

Meters

0.5 0 0.5 1

Miles





# Wildland Urban Interface West Tisbury, MA

## Pre-Disaster Mitigation Plan

Contiguous Woodlands  
area  $\geq 50$  acres  
1000ft Buffer Area

Vegetation  
Pitch Pine or Shrub Oak  
Affected Structures  
Bridges  
Transmission Lines  
Critical Road Segment

Critical Facilities  
Affected  
Affected Public Well  
Not Affected  
Not Affected Public Well

Roads  
Primary Road  
Secondary Road  
Tertiary Road  
Town Boundary

NOTES:  
This map was produced by the Martha's Vineyard Commission for the Pre-Disaster Mitigation Project of May 2013. Funding for the Pre-Disaster Mitigation Planning Grant was provided by the Massachusetts Emergency Management Agency.

Woodlands habitat was identified from the 2005 land use data from MassGIS. Non-forest land uses were buffered 250ft and the forest area that did not overlap the non-forest plus 250ft was retained. Those contiguous forest areas of 50 acres or more are represented in this data layer.

A structure is considered within the wildlife threat area if it is within a contiguous 50 acre woodland area or within its 1000ft buffer area or within the existing pitch pine/shrub oak area.

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Data: Town Boundary - MassGIS 2002; Roads - MHD/MassGIS 2005; Critical Facilities & Infrastructure - MEVA 2006 & MVC 2014; Woodlands - MassGIS 2005 & MVC 2013; Vegetation - TNC 2005; Structures - MassGIS 2011 (released 2013) & MVC 2013; Fire Lane - MVC 2005  
Projection: Stateplane, MA Mainland, NAD83, Meters  
File: cts\_pdm; Wt\_WildFire\_2013.mxd - Original in color

