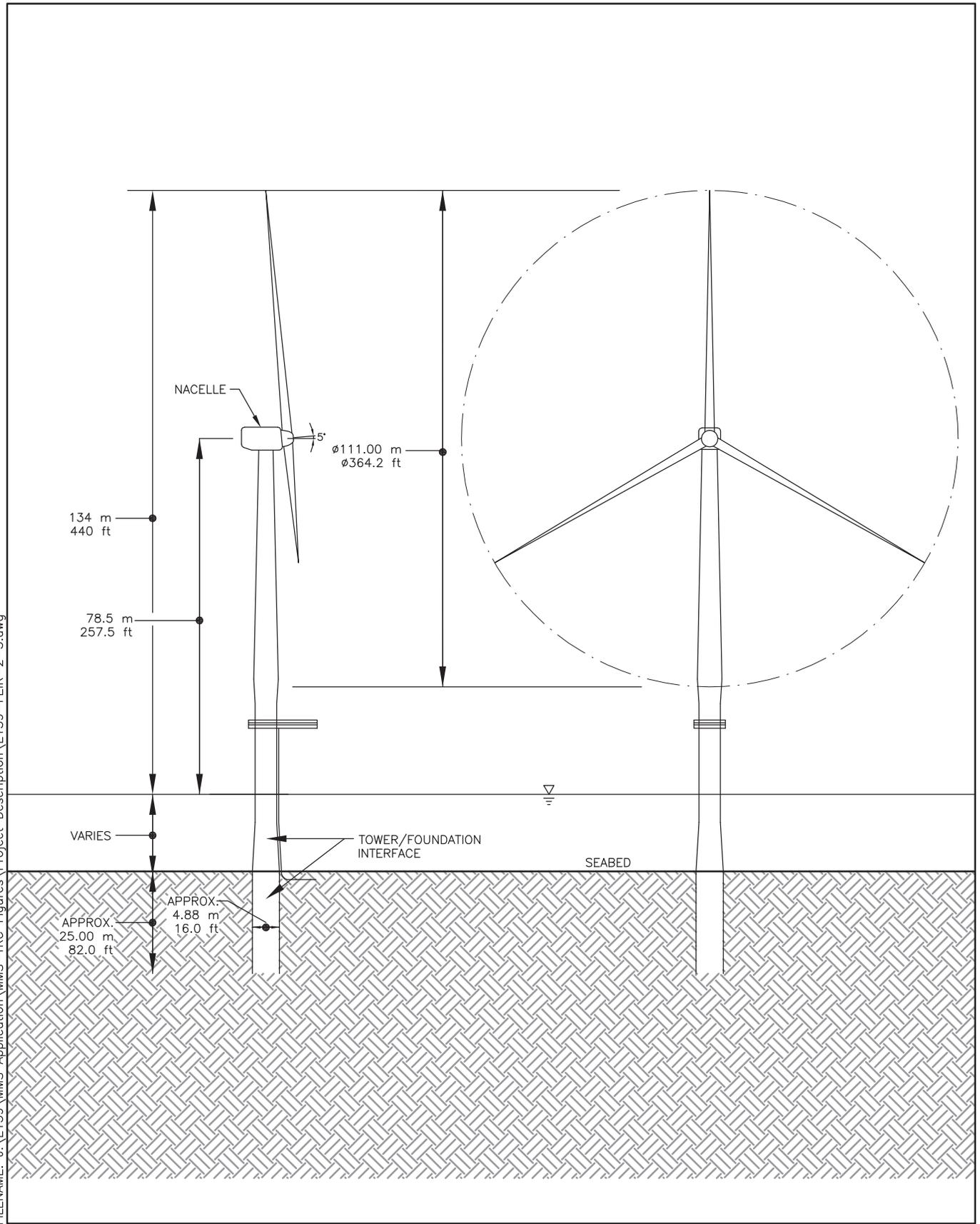
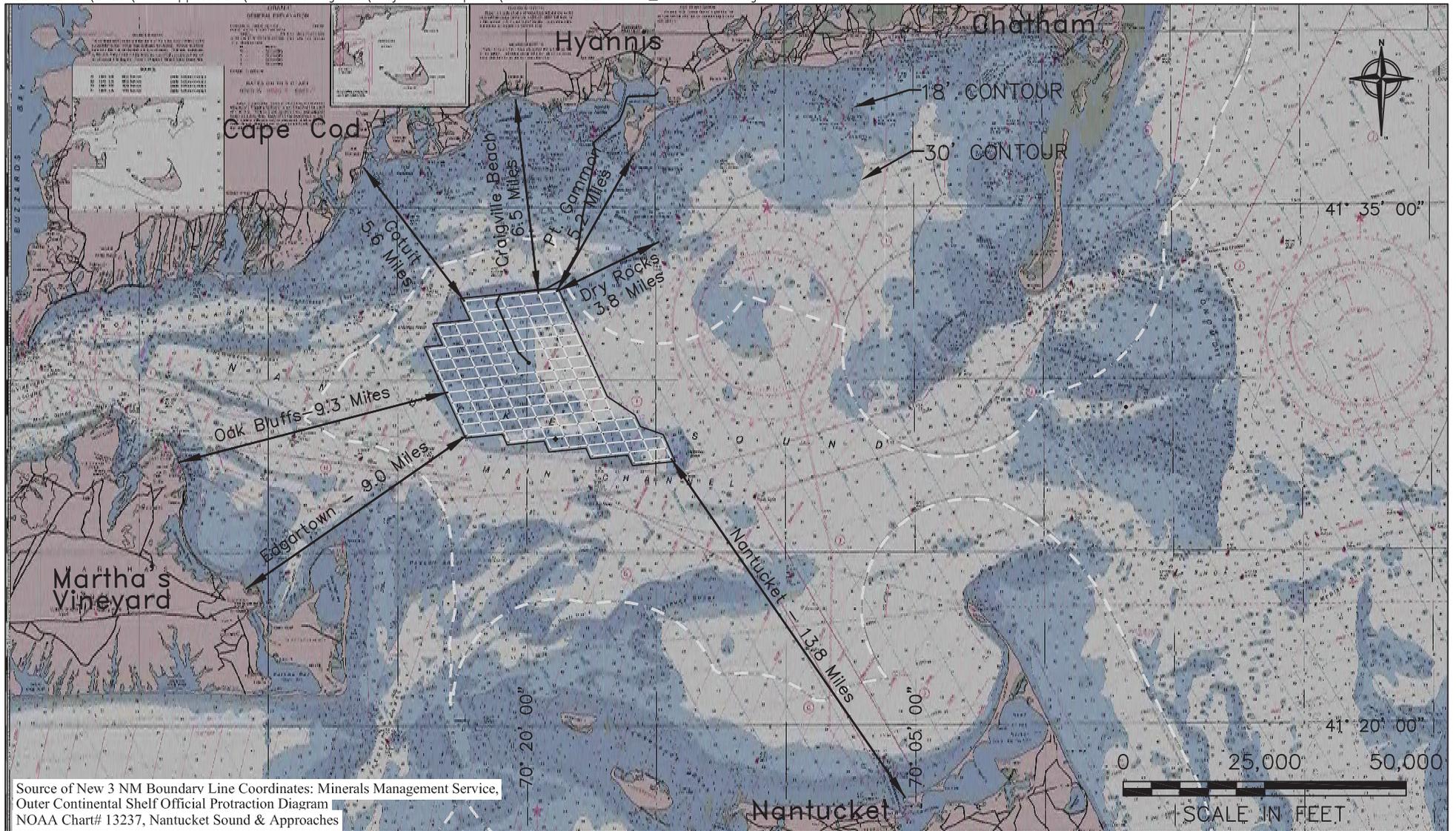


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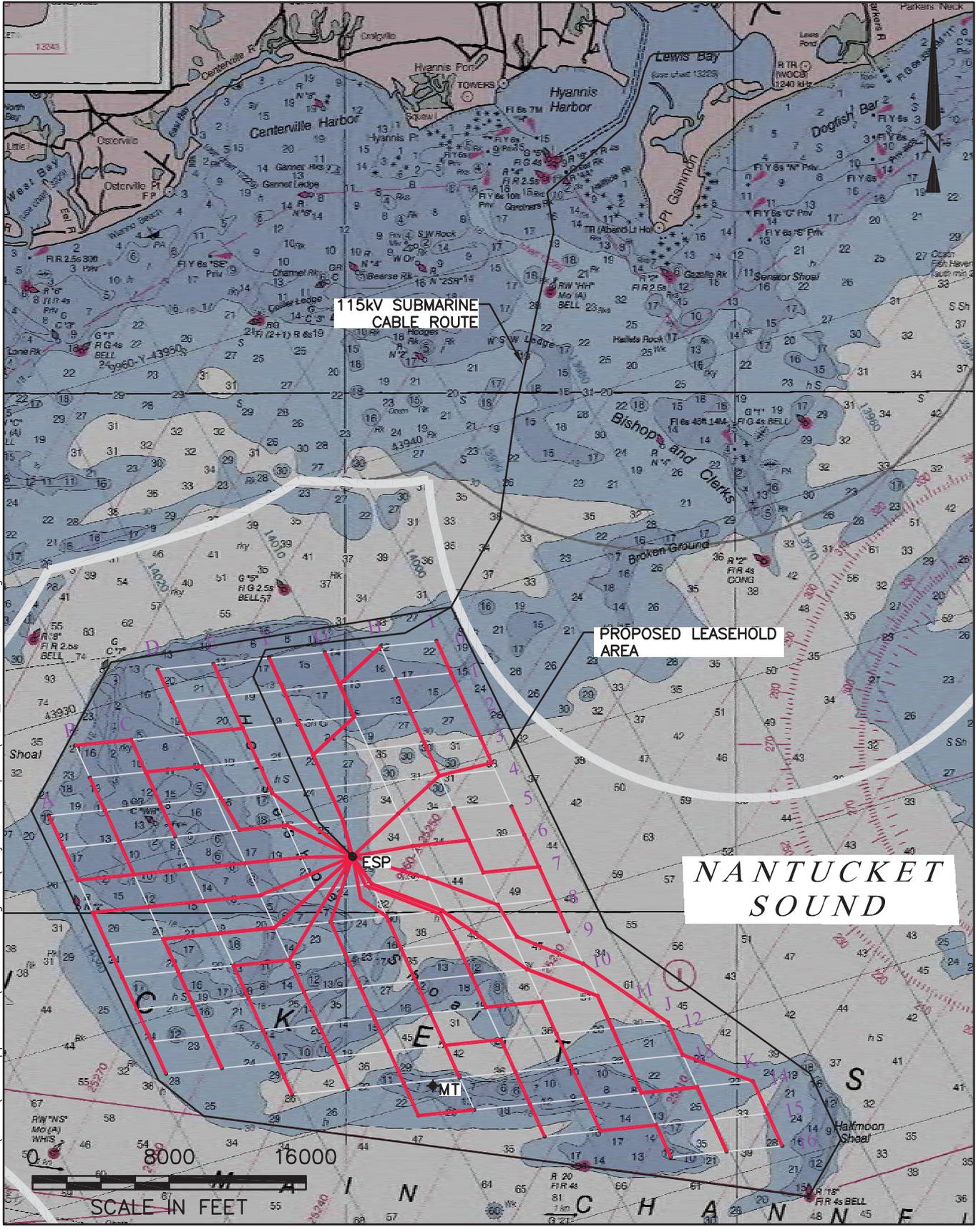


CAPE WIND ENERGY PROJECT
Proposed Wind Turbine Generator
Profile Detail
Figure 2.1.1-1



CAPE WIND ENERGY PROJECT
Revised Turbine Array - New 3 Mile Boundary
Figure 2.1.1-2

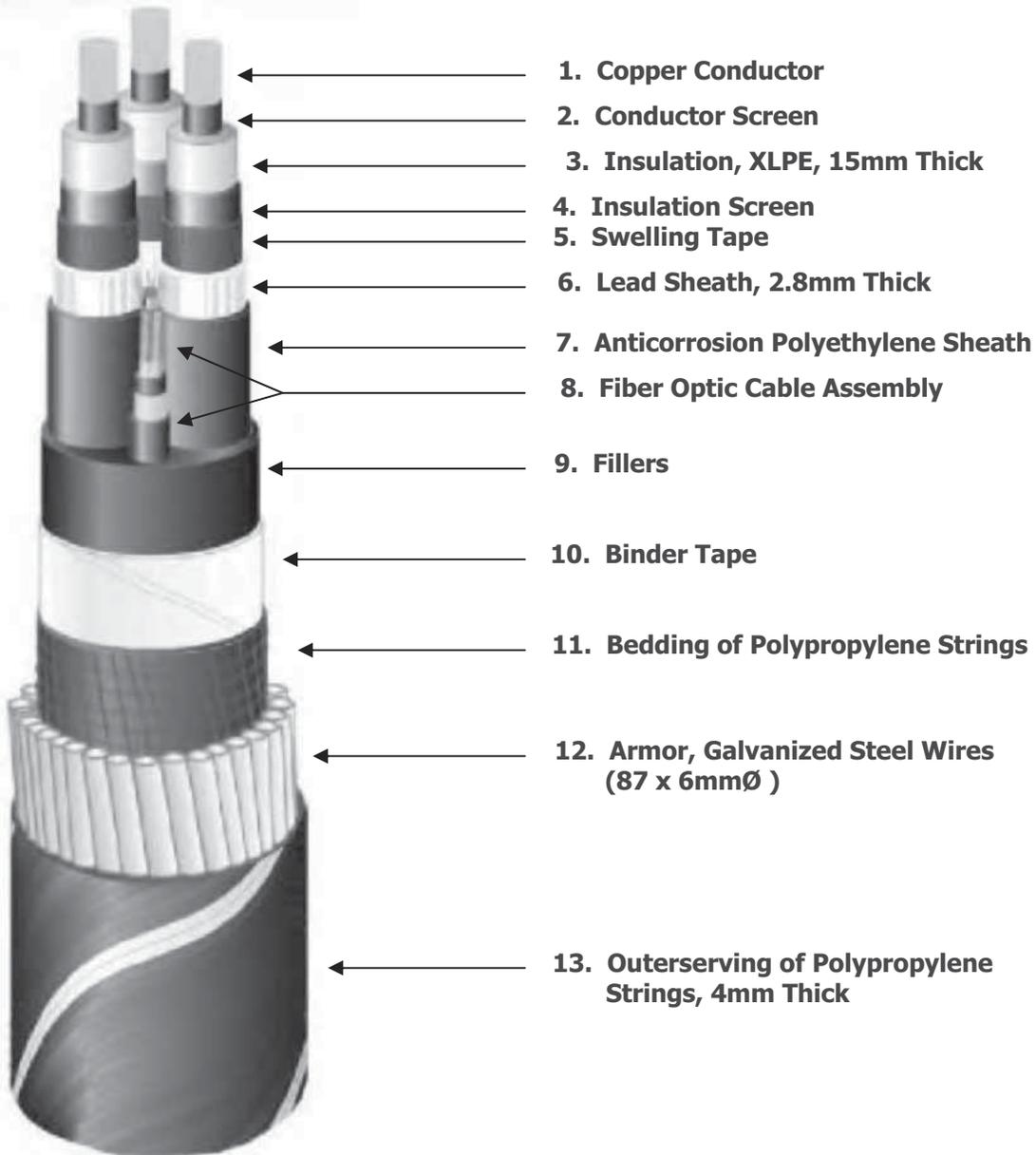
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DATE: Mar 09, 2007 - 4:07PM
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CAPE WIND ENERGY PROJECT
 Proposed Project Area
 Figure 2.1.2-1

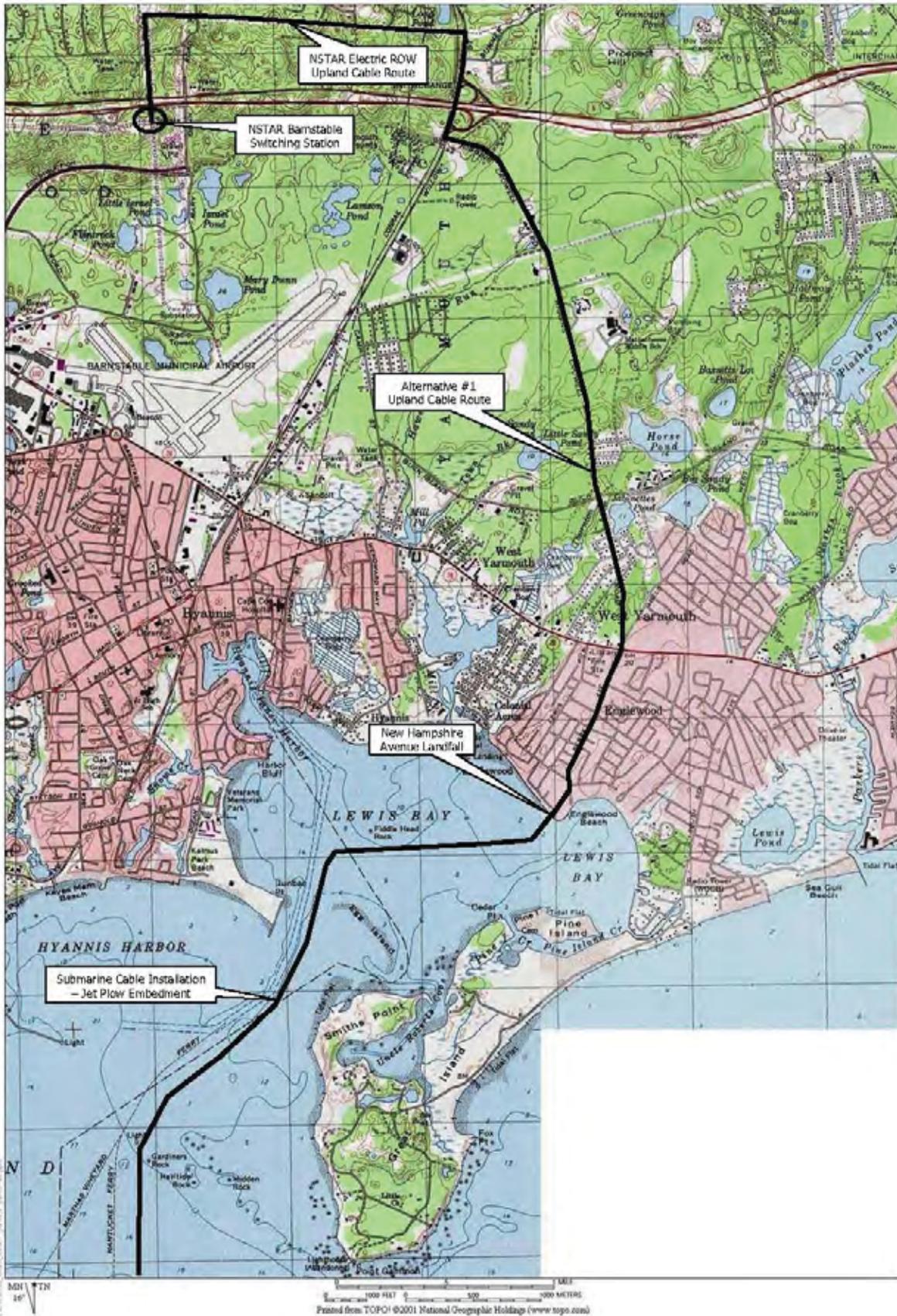
3x800 mm², 115 kV Submarine Cable
INDICATIVE ONLY – NOT TO SCALE



Approximate overall sizes:

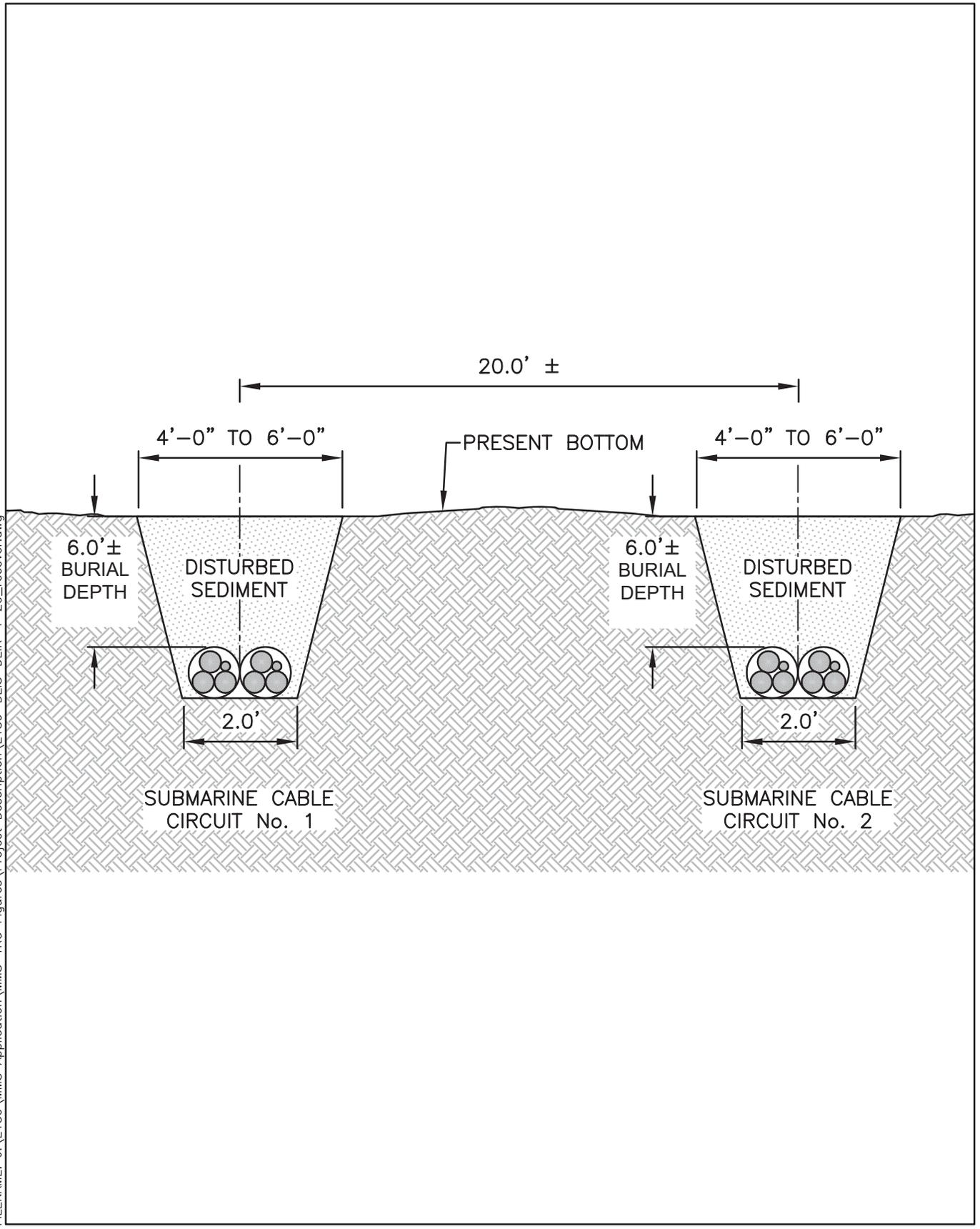
- Diameter = 197 ±3 mm
- Weight in air = 81 kg/m

CAPE WIND ENERGY PROJECT
Typical Profile
115 kV Solid Dielectric Submarine Cable
Figure 2.1.3-1

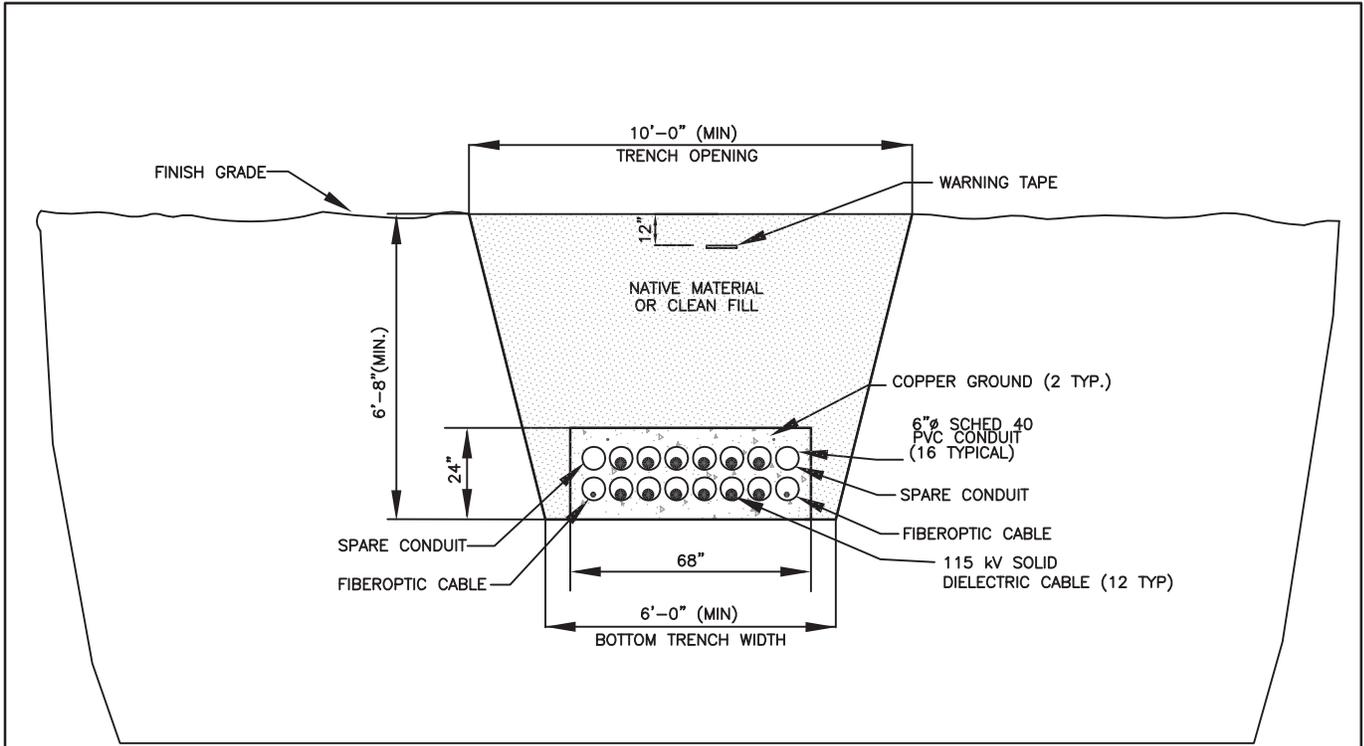


CAPE WIND ENERGY PROJECT
 Submarine and land Transmission Line Route
 Figure 2.1.3-2

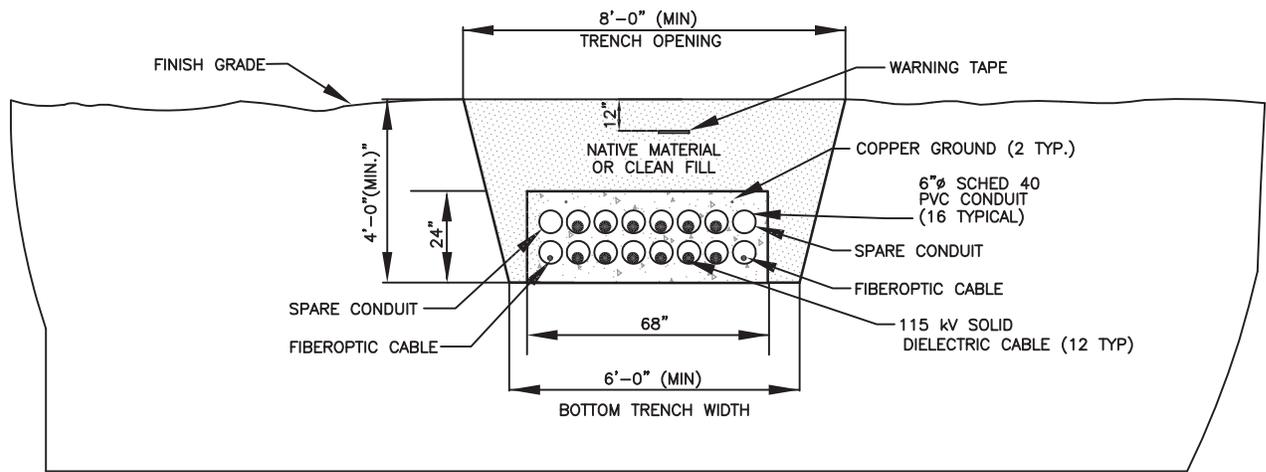
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CAPE WIND ENERGY PROJECT
Typical Cross Section of Submarine
Cable Trenching Jet Plover Embedment
Not To Scale
Figure 2.1.3-3



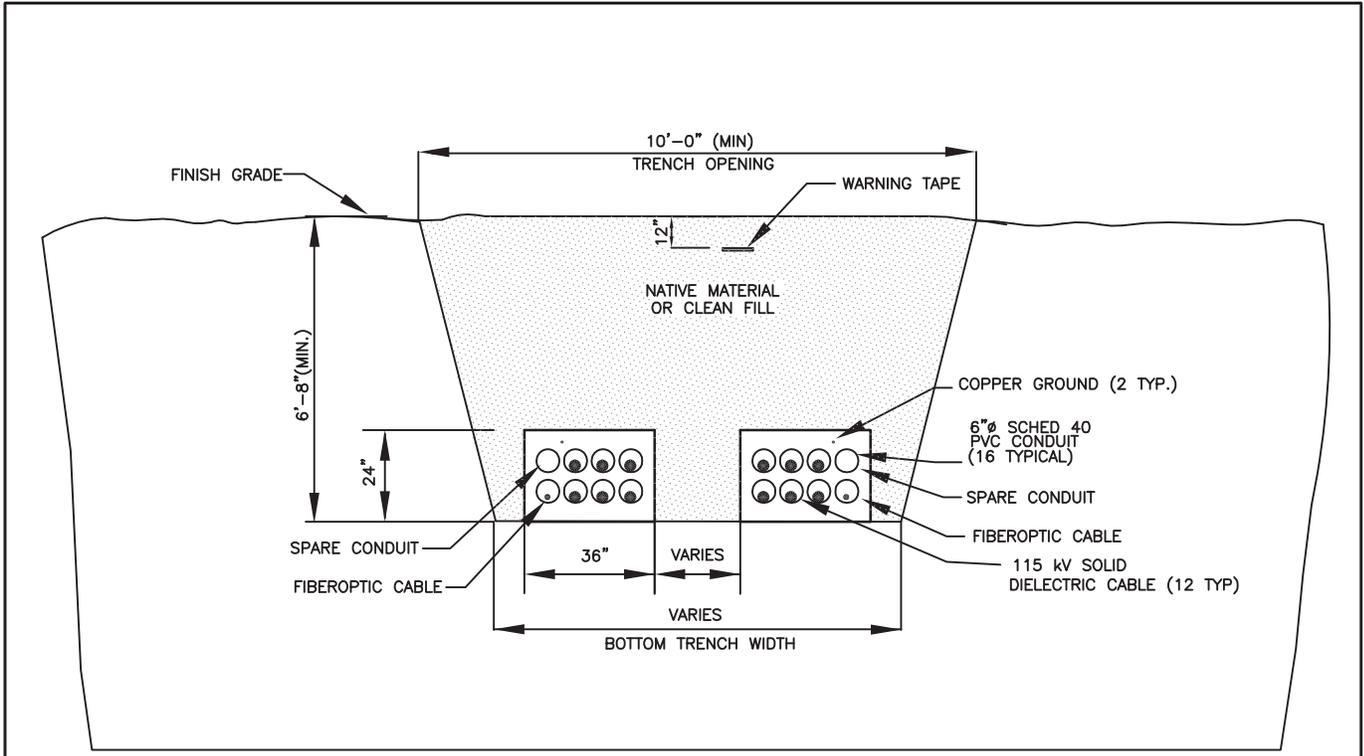
**UPLAND CABLE TRENCH CROSS-SECTION (IN ROADWAYS)
CONCRETE ENCASED DUCTBANK**



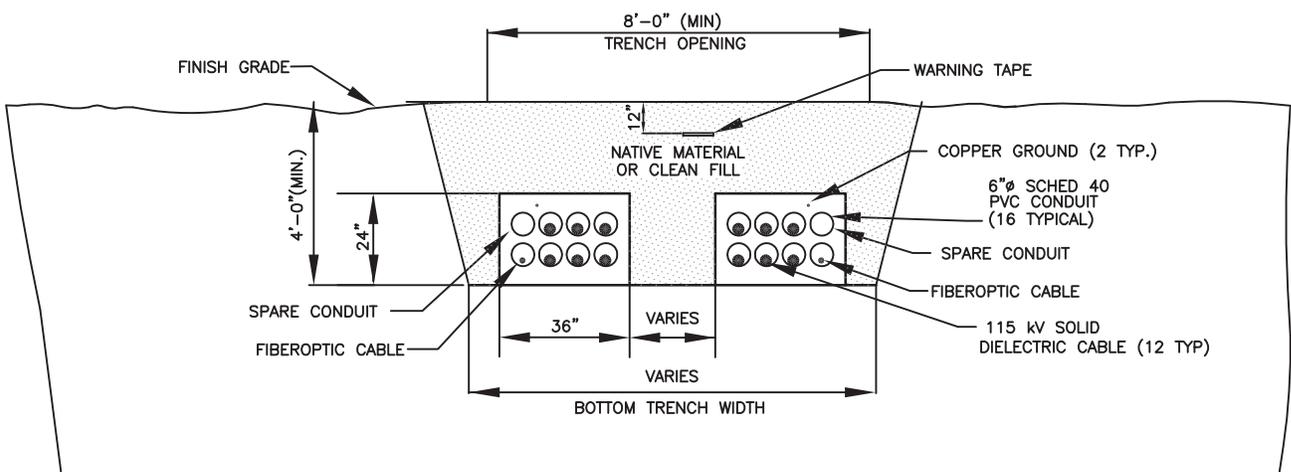
**UPLAND CABLE TRENCH CROSS SECTION (IN R.O.W.)
CONCRETE ENCASED DUCTBANK**

NOTE:
NATIVE MATERIAL TO BE USED ONLY IF DETERMINED TO HAVE APPROPRIATE THERMAL RESISTIVITY AND TO BE ACCEPTABLE IN ACCORDANCE WITH THE SOIL MANAGEMENT PLAN.

H:\E159\DEIS-DEIR\UPLAND-TRANSITION-VAULTS-111303\E159-DEIS-DETAILS-111303.DWG



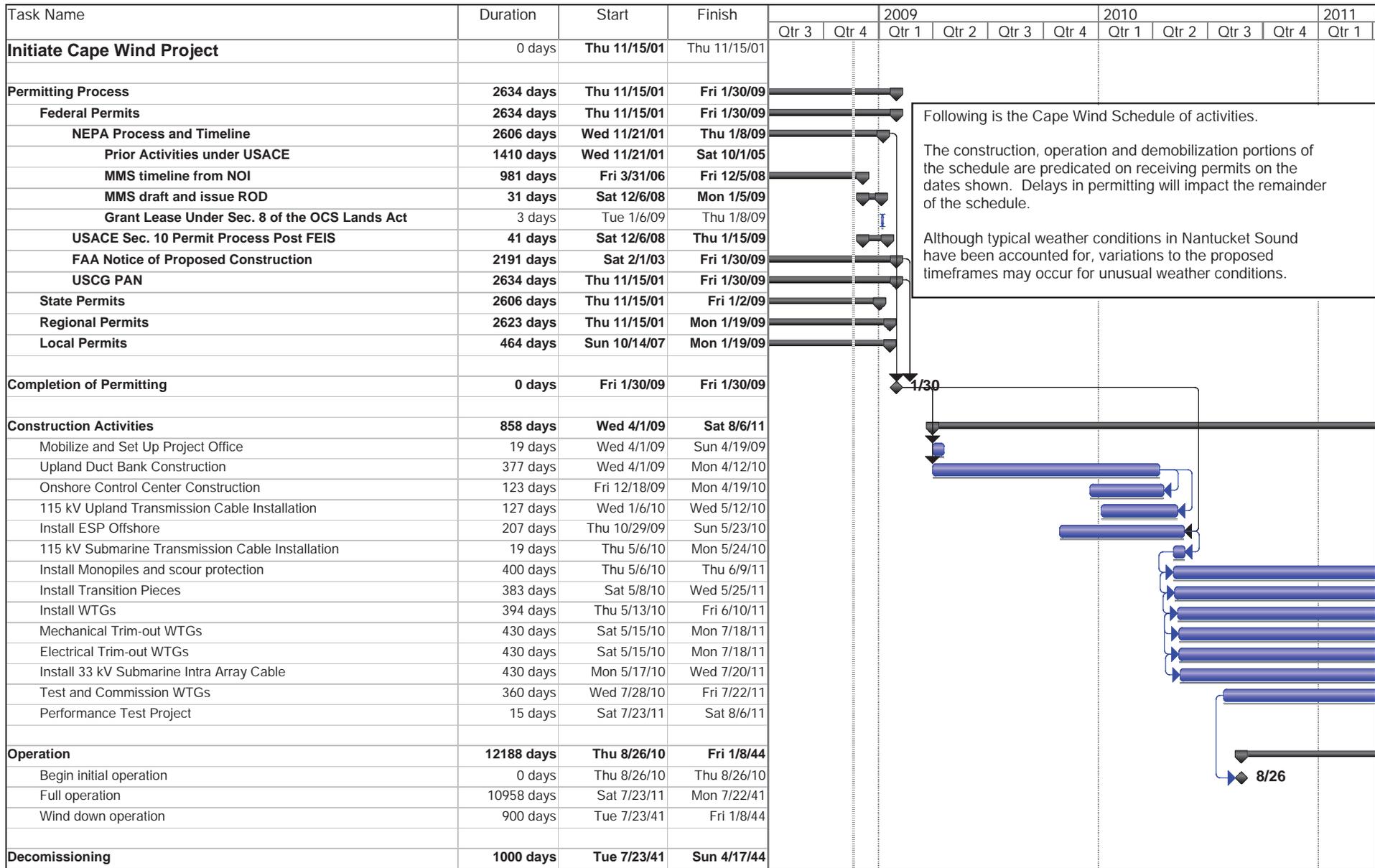
**UPLAND CABLE TRENCH 4-OVER-4 CROSS-SECTION (IN ROADWAYS)
CONCRETE ENCASED DUCTBANK**



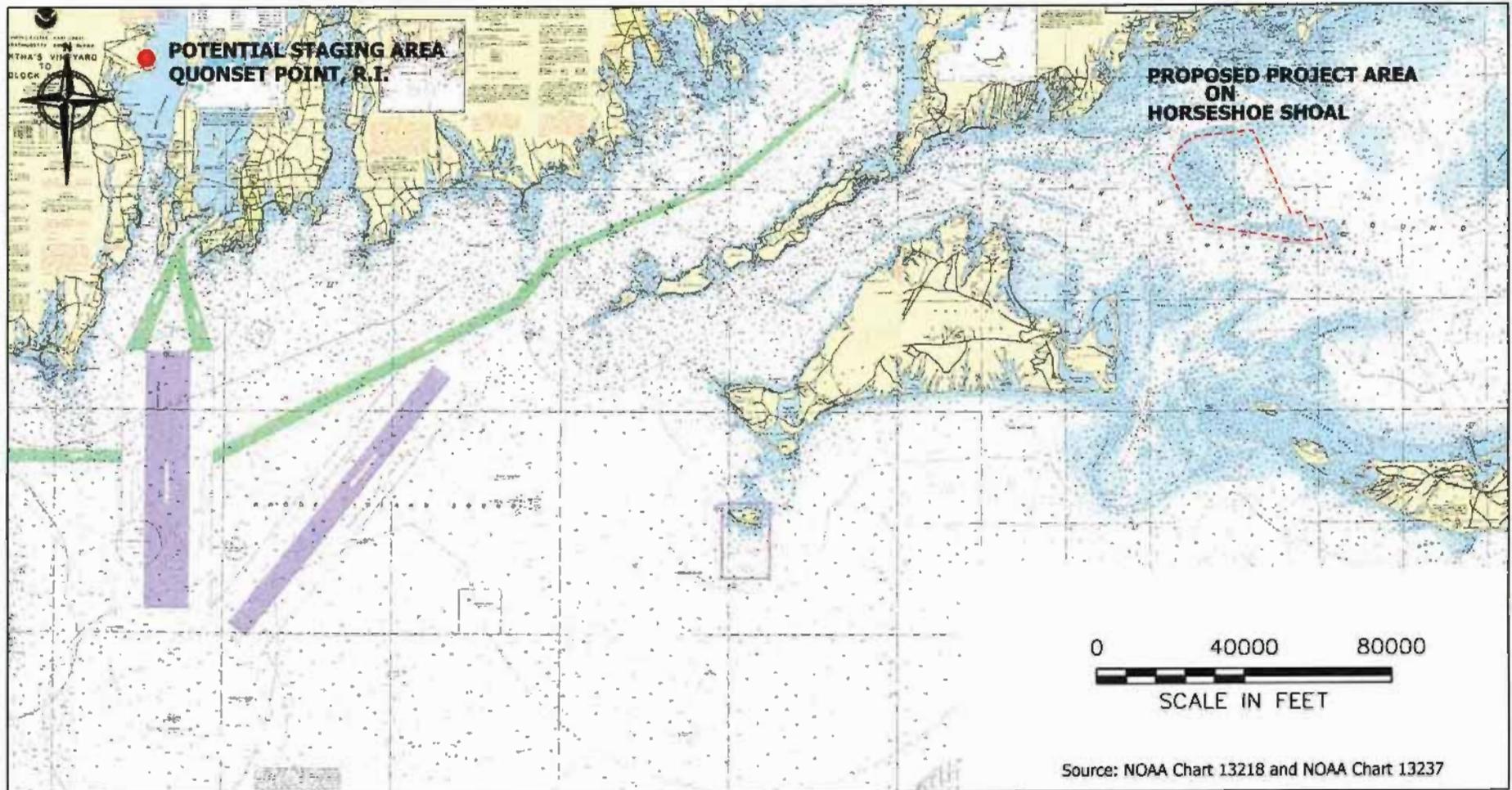
**UPLAND CABLE TRENCH 4-OVER-4 CROSS SECTION (IN R.O.W.)
CONCRETE ENCASED DUCTBANK**

NOTE:
NATIVE MATERIAL TO BE USED ONLY IF DETERMINED TO HAVE APPROPRIATE THERMAL RESISTIVITY AND TO BE ACCEPTABLE IN ACCORDANCE WITH THE SOIL MANAGEMENT PLAN.

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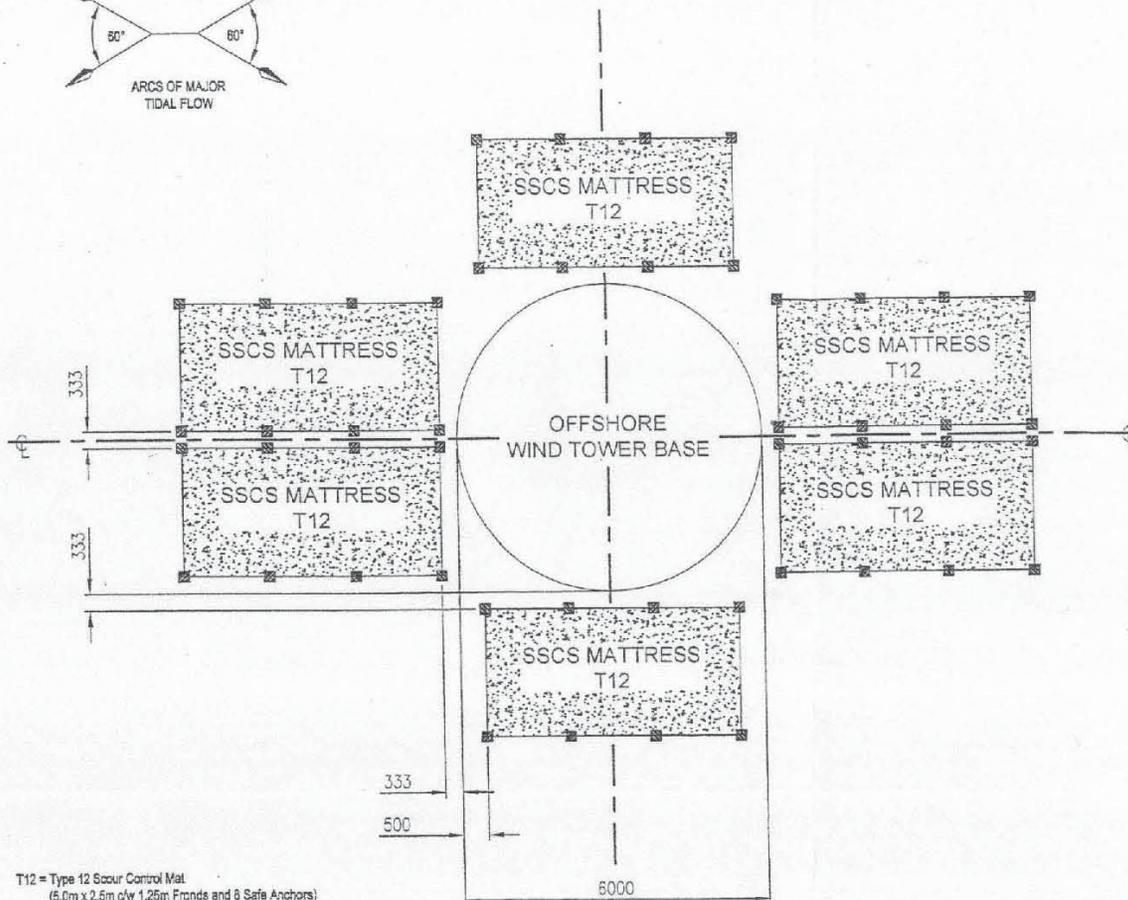
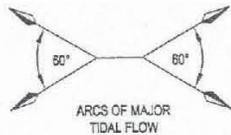
CAPE WIND ENERGY PROJECT
Schedule
Figure 2.3.1-1





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CAPE WIND ENERGY PROJECT
Typical Installation Vessel
Figure 2.3.2-2



T12 = Type 12 Scour Control Mat.
(6.0m x 2.5m o/w 1.25m Fronds and 8 Safe Anchors)

NOTES: - OFFSHORE WIND ENERGY TOWER
1. MATS for SCOUR PROTECTION as indicated on this DRAWING to be by SEABED SCOUR CONTROL SYSTEMS Ltd.

SAMPLE REQUIREMENT per Wind Tower:
6 No. SSCS Type 12 SCOUR CONTROL MATS 5.0m x 2.5m, BUOYANT FROND HEIGHT 1.25m, with 8 in No. Safe Anchors. Weight in Air: 100kg, Weight Submerged: 45kg. FROND Tensile Strength >681N and up to 1181N. Mat Layout to face into MAXIMUM tidal flow directions.

It is IMPORTANT that these Scour Control Mats be installed a.s.a.p. Tower Installation.

2. MATS to be positioned and anchored by two (2) competent DIVERS. Mats are crane deployed by 2 leg wire rope slings (Slings can be supplied by SSCS). Detailed Installation Instruction are supplied with the Mats.

3. NOMINAL MINIMUM CLEAR DISTANCE between Tower Base and Scour Control Mats to be >9' (>228mm), Normal/Standard: 12' to 15' (305 to 380mm).

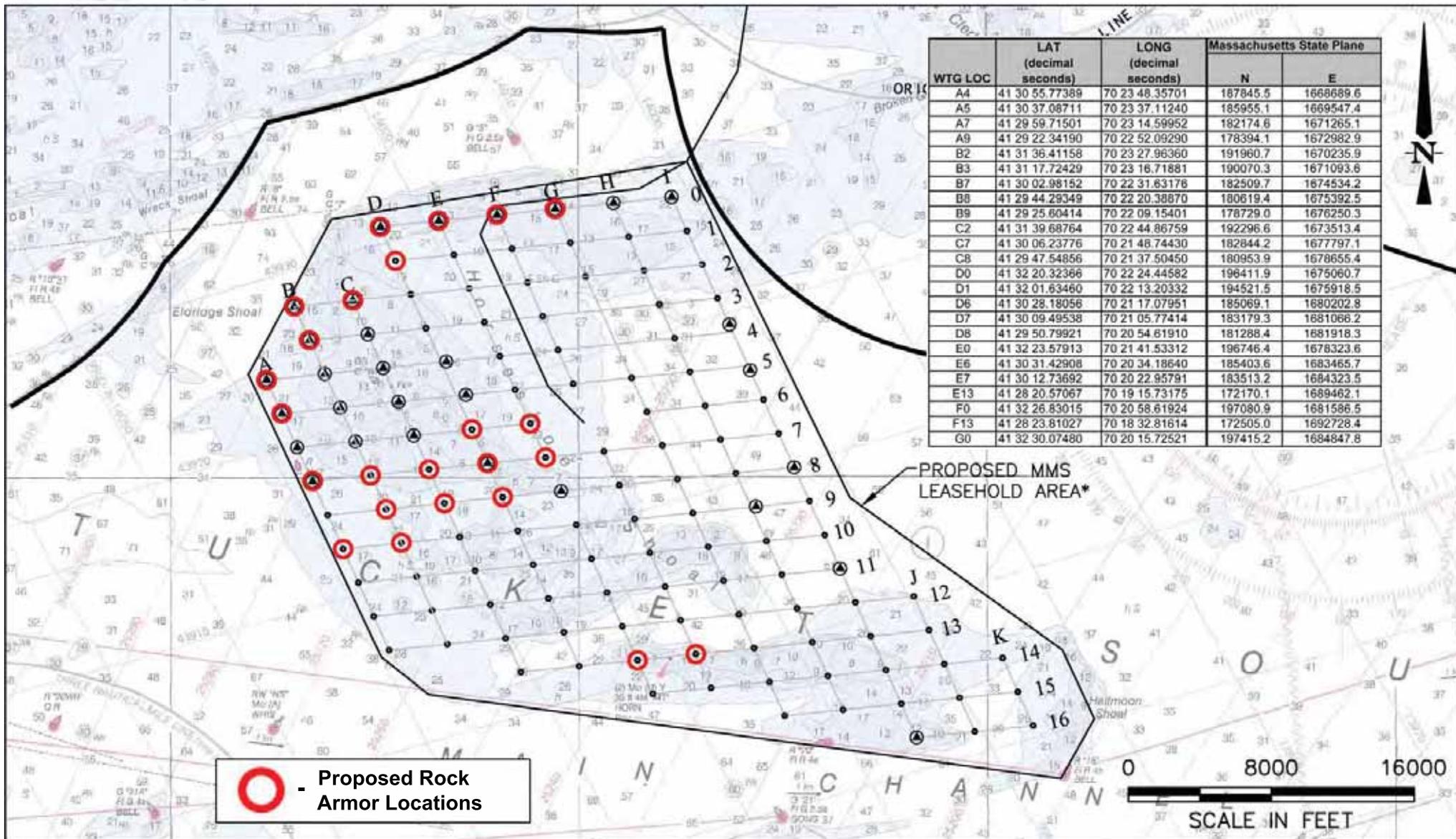
4. INSTALLATION SEQUENCE as required by Dive Team. During Installation the SAFE NETS must NOT BE REMOVED UNTIL ALL ADJACENT MATS HAVE BEEN FULLY INSTALLED to prevent Diver or ROV entanglement.

5. MATS should NOT be installed at Entry/ Attachment Points Intended for Cables. Such Scour Control Mats can be installed immediately AFTER any subsequent connections to the Tower Base have been completed and BEFORE Winter Storms, and Mats should be continued out to the inner end of any cable trenching.

6. Additional Stability Post Installation - Frond induced Sedimentation: EACH Type 12 Mat, 5m x 2.5m, the submerged sediment bank should be in the range:

~ 10.2 tonnes to 12.4 tonnes submerged weight over each mat; this hold down is additional to the retention provided by the eight (8) Safe Anchors and also excludes gently sloping extension of sediment bank down to seabed in a smooth curve up to 2.2m away from mat edge.

CAPE WIND ENERGY PROJECT
Preliminary Scour Control
Figure 2.3.2-3



A-14

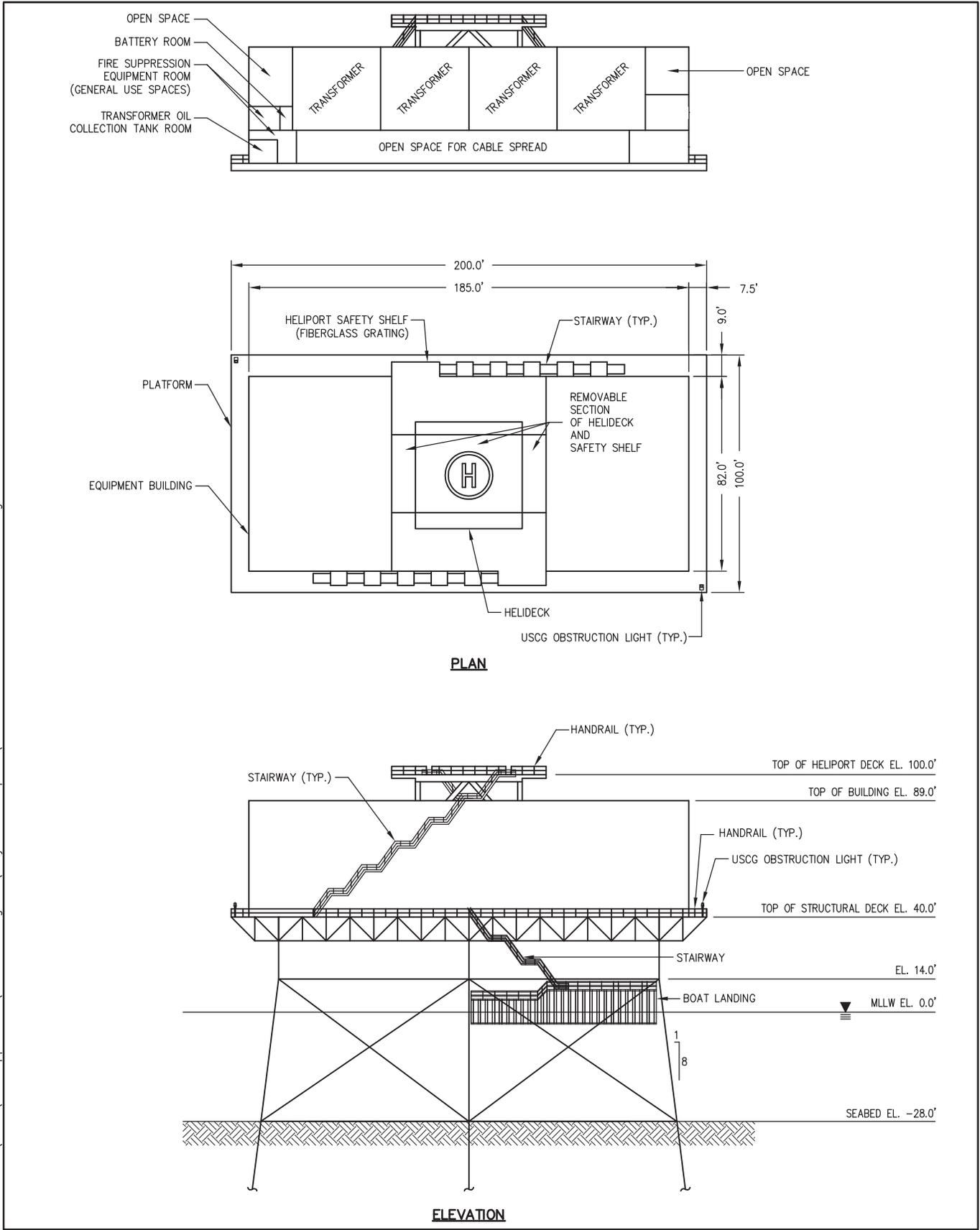


Cape Wind Associates, LLC.
Cape Wind Project

NOAA Chart# 13237, Nantucket Sound & Approaches

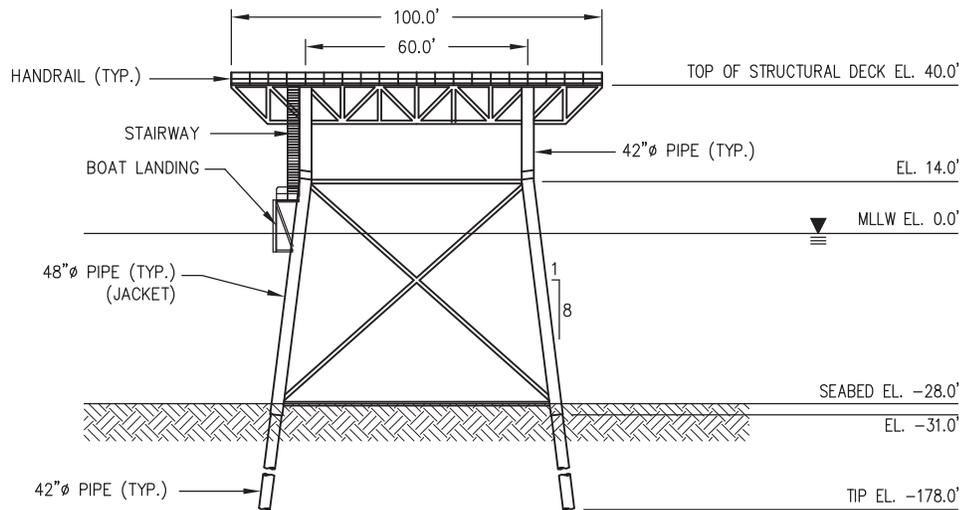
CAPE WIND ENERGY PROJECT
Proposed Rock Armor Location
Figure 2.3.2-

Engineers
Scientists
Consultants

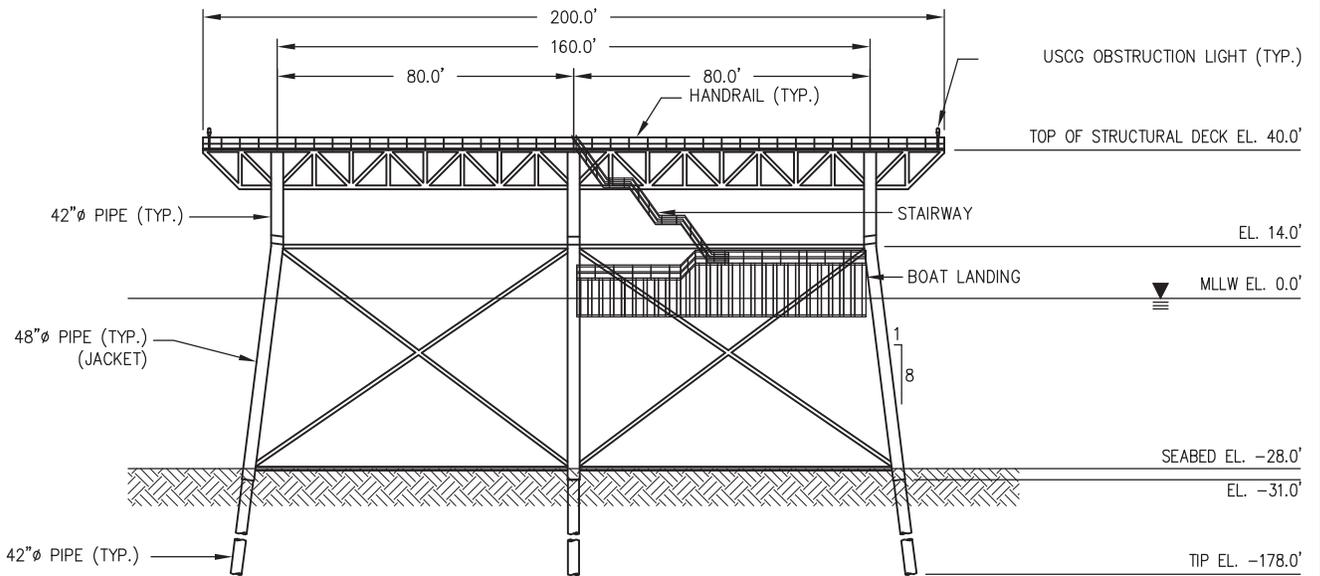


CAPE WIND ENERGY PROJECT
Propo ed Electric Ser vice Platform
Structural Detail - Not to Scale
Sheet 1 of 2
Figure 2.3.3-1

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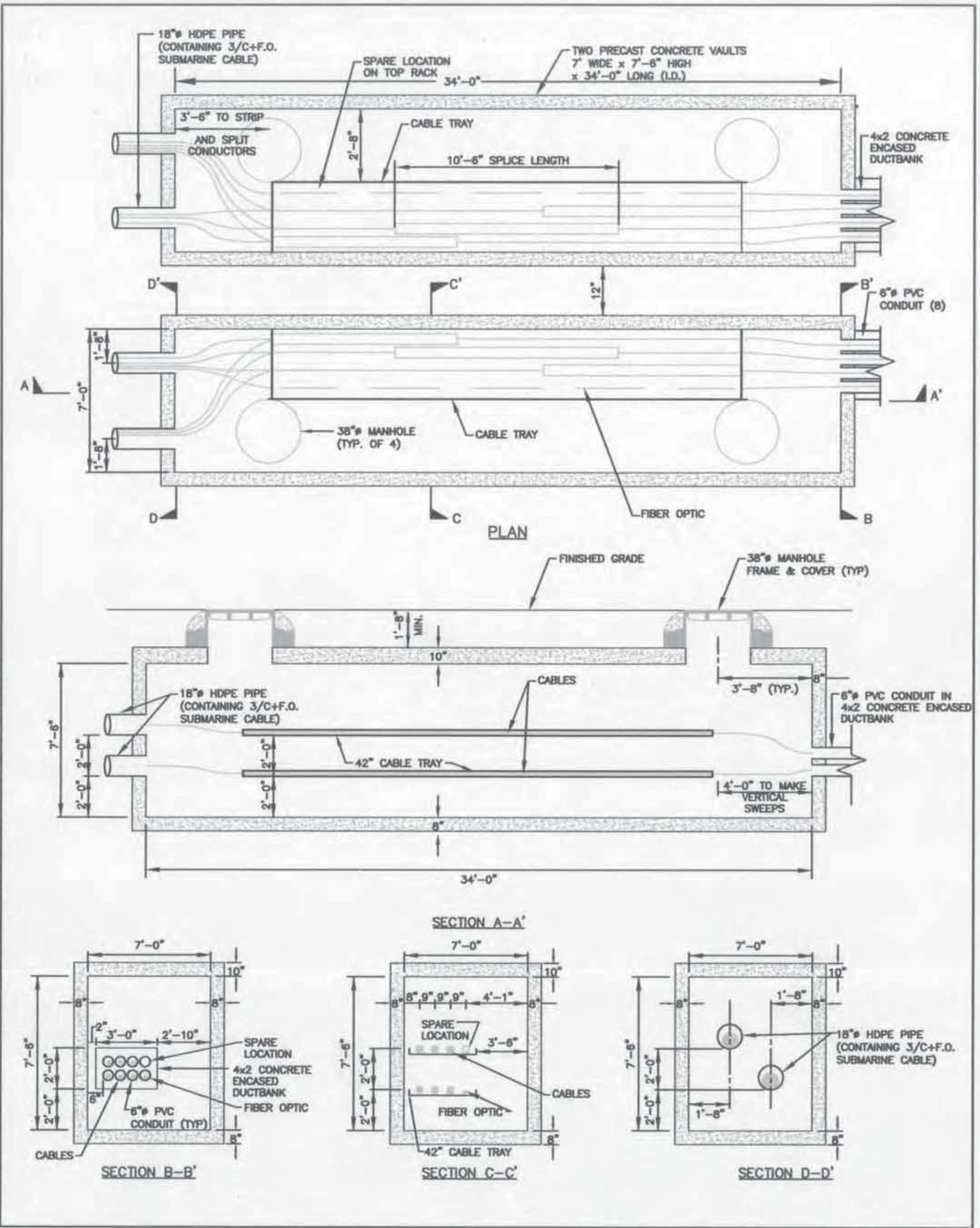
SIDE ELEVATION



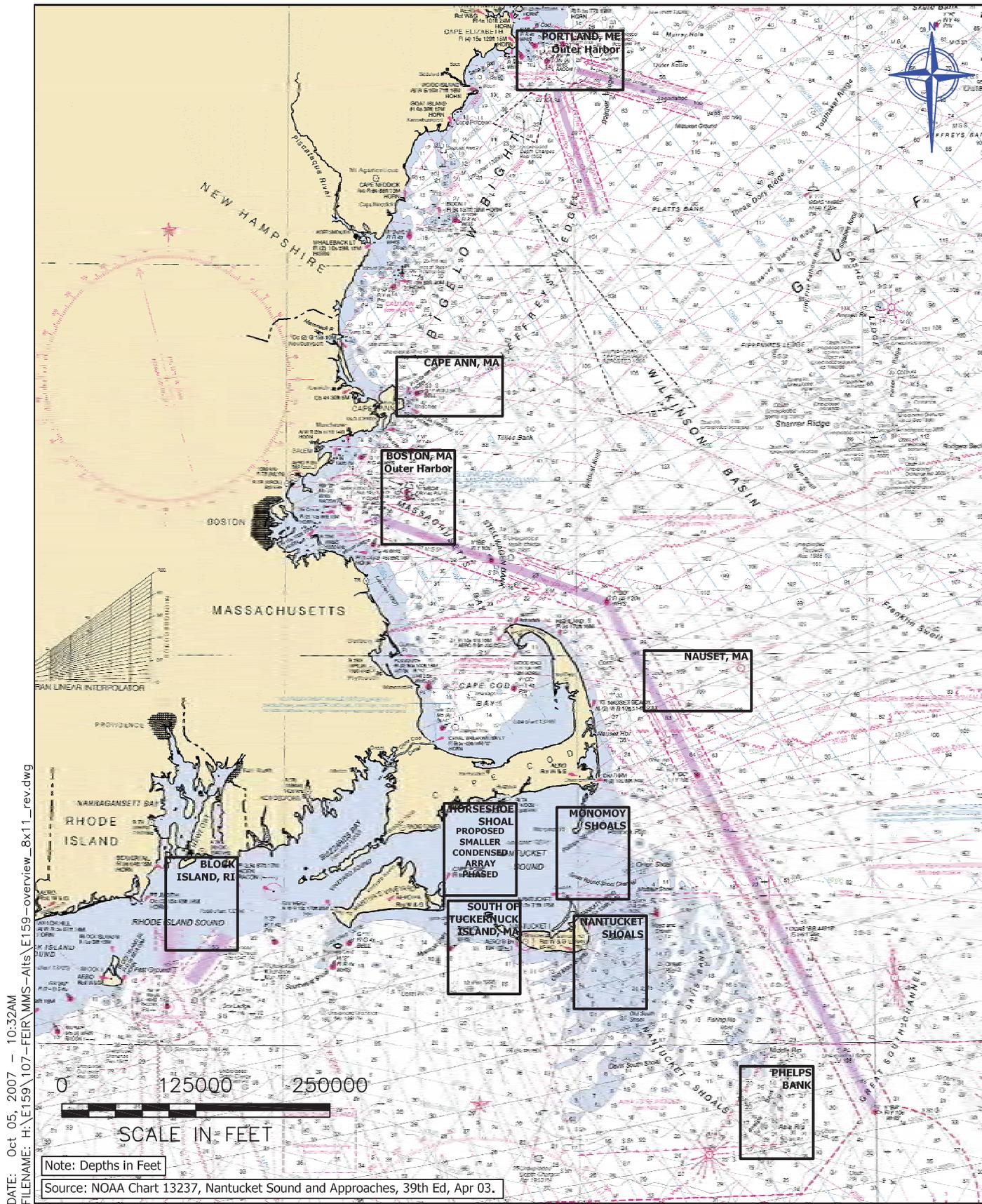
FRONT ELEVATION

CAPE WIND ENERGY PROJECT
Propo ed Electric Ser ice Platform
Structural Detail - Not to Scale

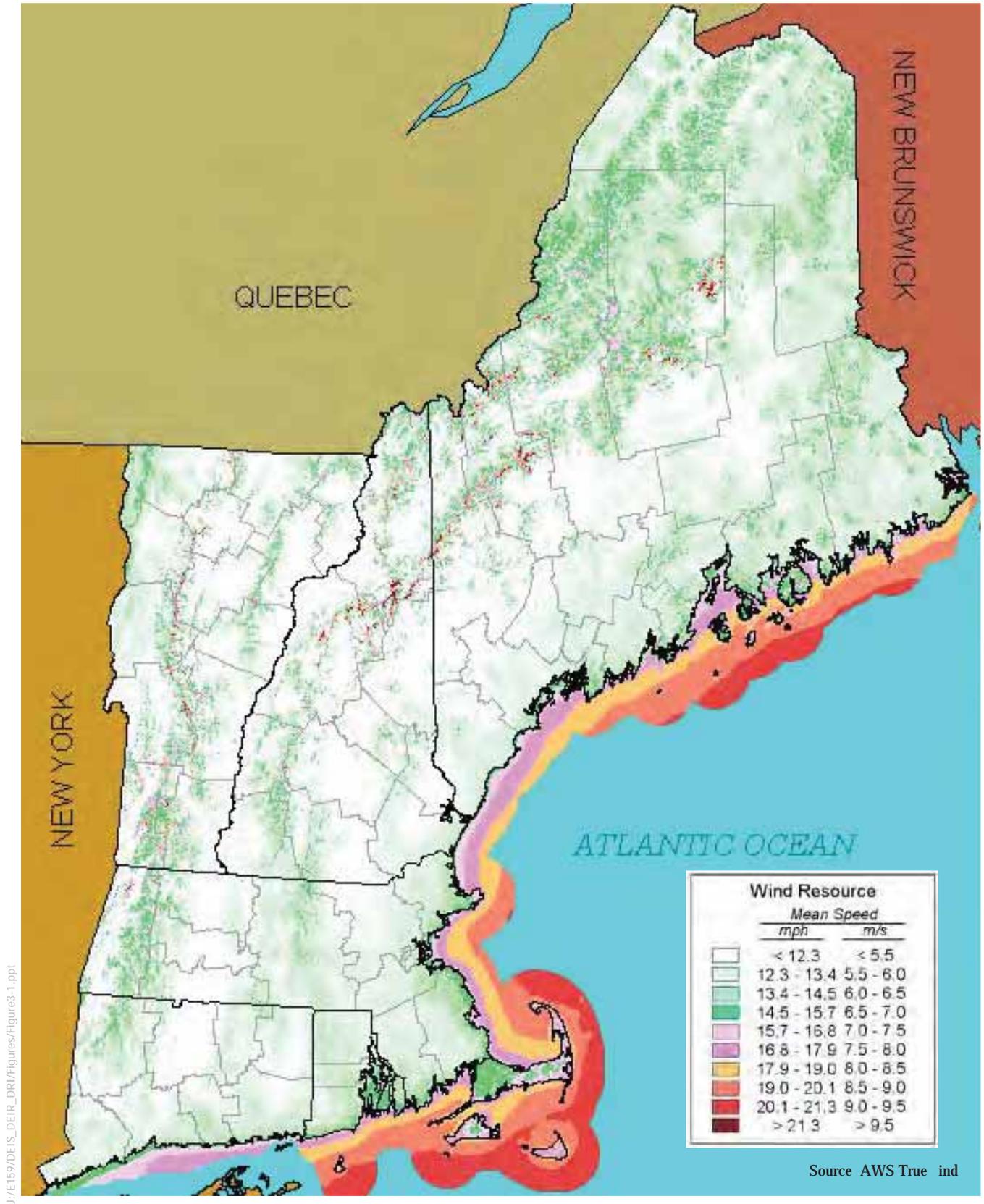
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CAPE WIND ENERGY PROJECT
 115 kV andfall Tran ition Vault
 Not to Scale
 Figure 2.3. -1

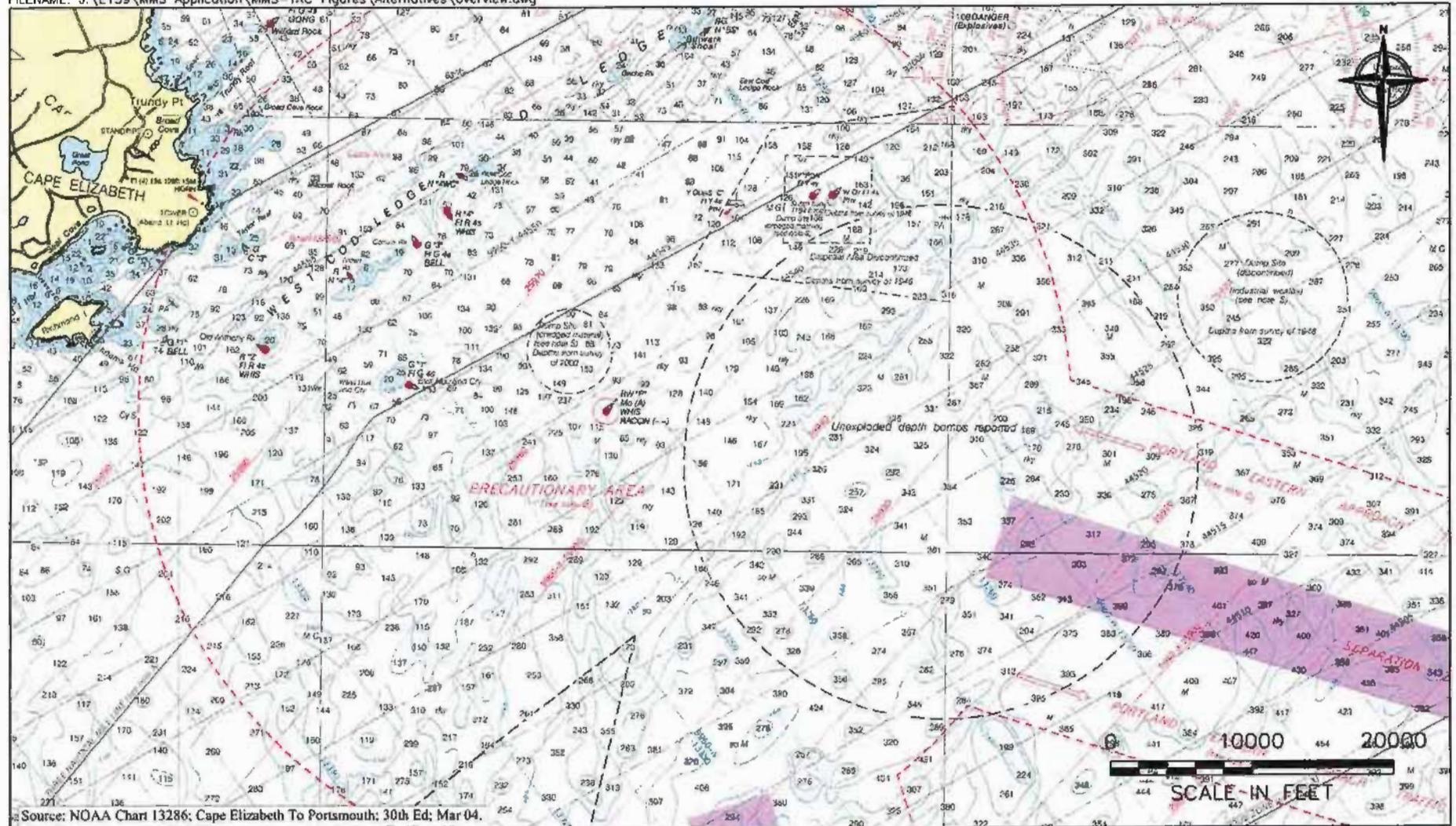


CAPE WIND ENERGY PROJECT
 Alternati e Analy i Site Con idered ocu
 Figure 3.3.3-1



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CAPE WIND ENERGY PROJECT
 Wind Resource in New England
 Figure 3.3.3-2

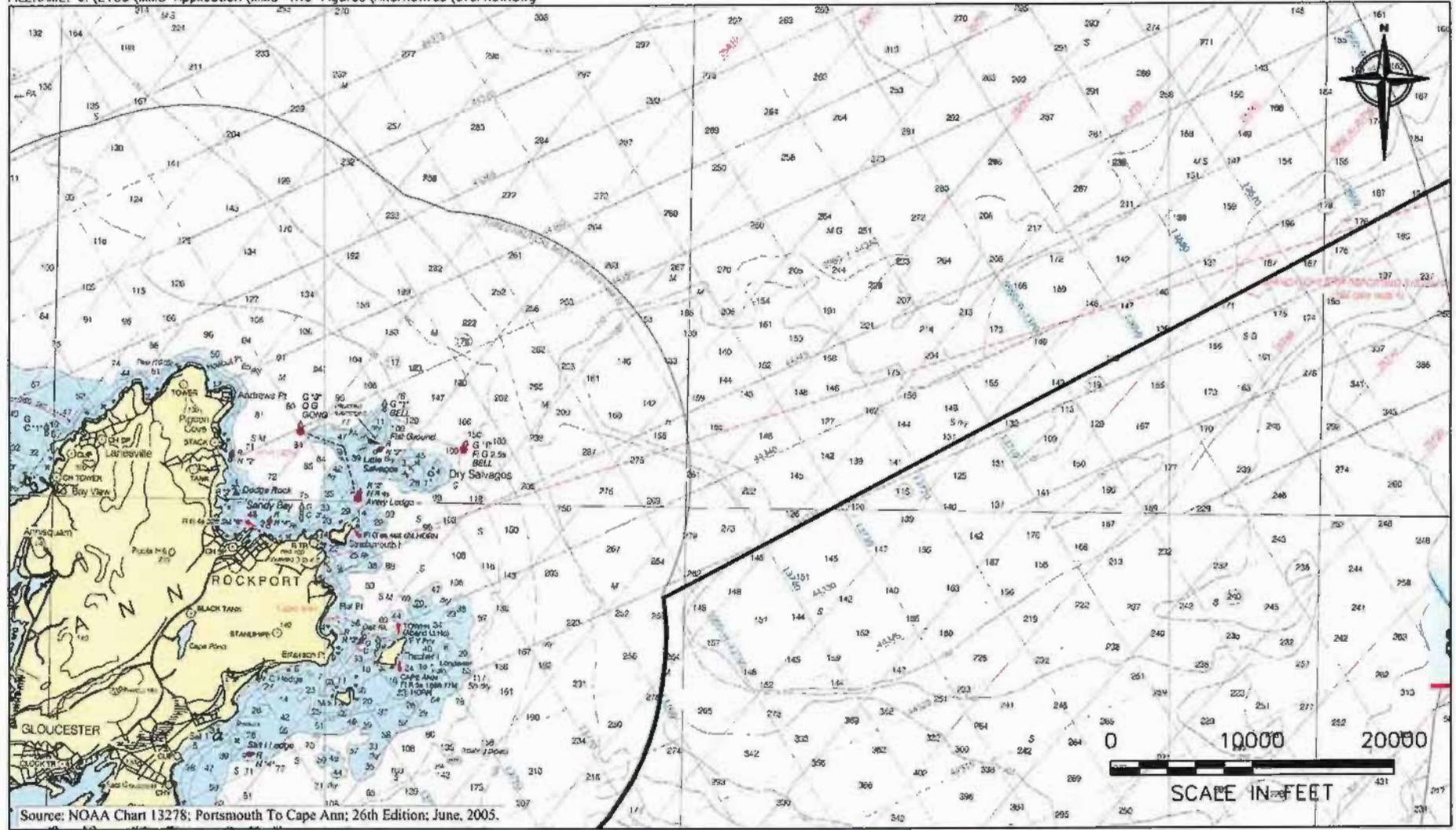


Source: NOAA Chart 13286; Cape Elizabeth to Portsmouth; 30th Ed; Mar 04.

Note: Depths in Feet

A-20

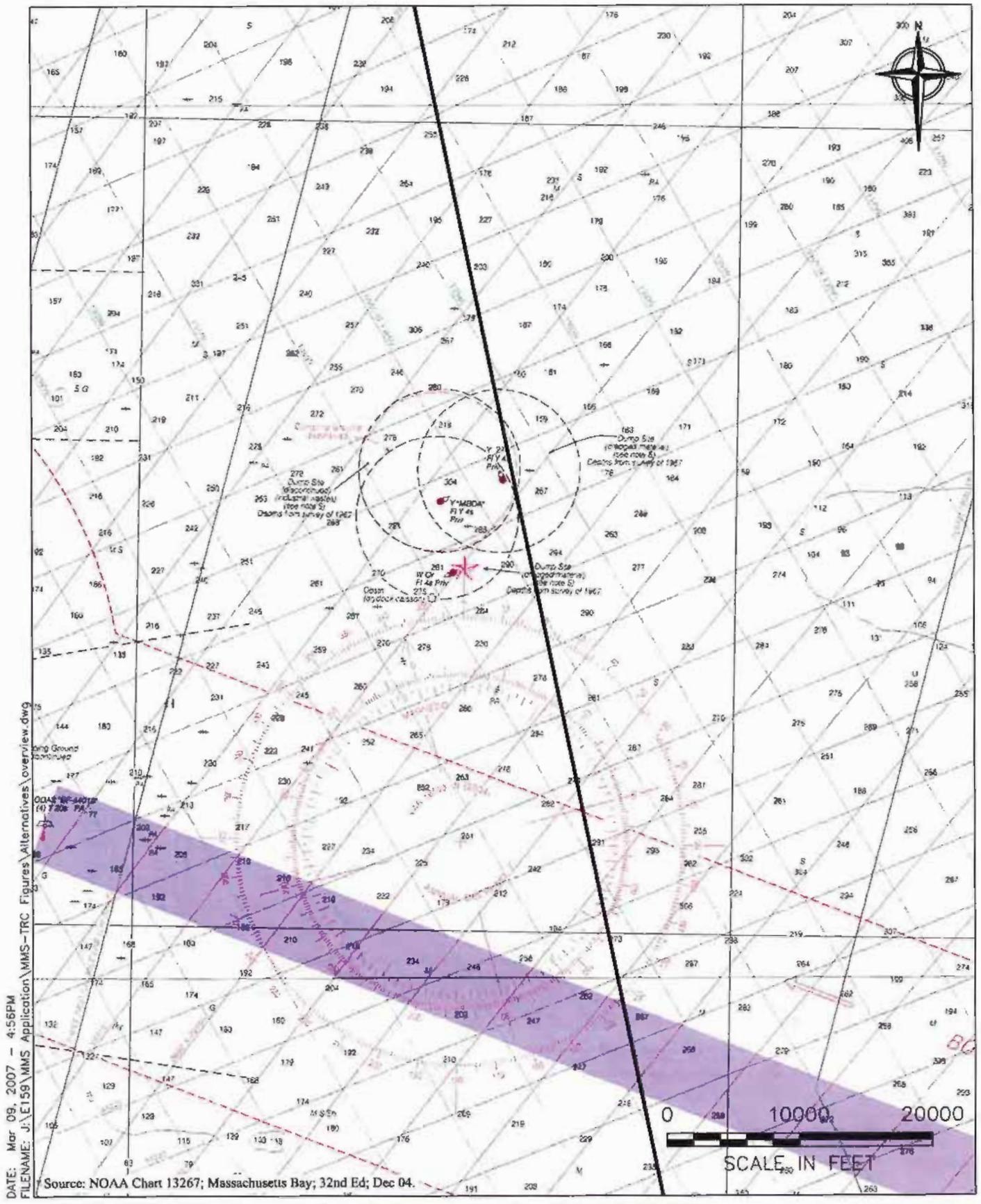
CAPE WIND ENERGY PROJECT
Portland, Maine (Outer Harbor) Alternative
Figure 3.3.3-3



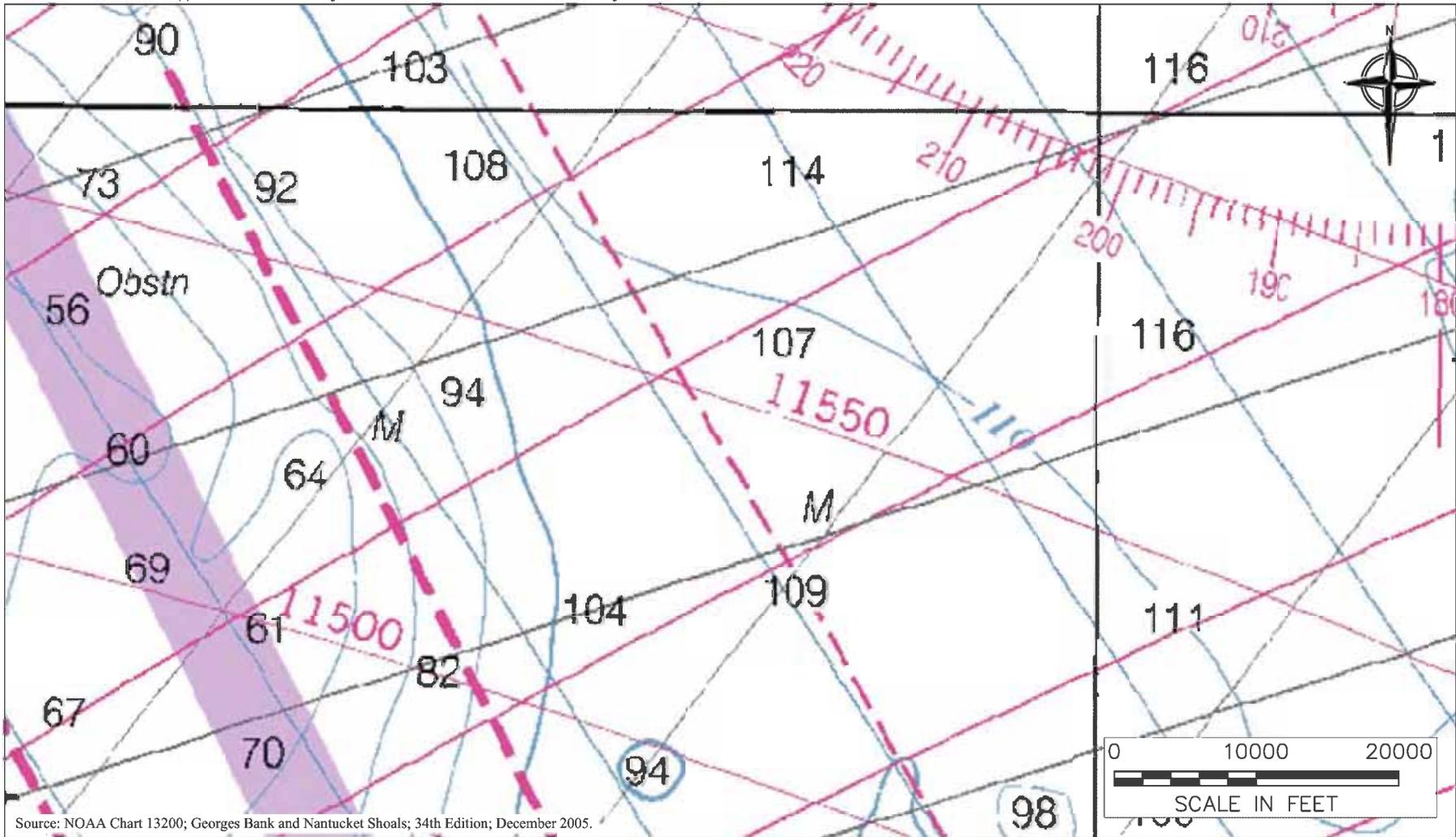
Note: Depths in Feet

A-21

CAPE WIND ENERGY PROJECT
Cape Ann, Massachusetts Alternative
Figure 3.3.3-4

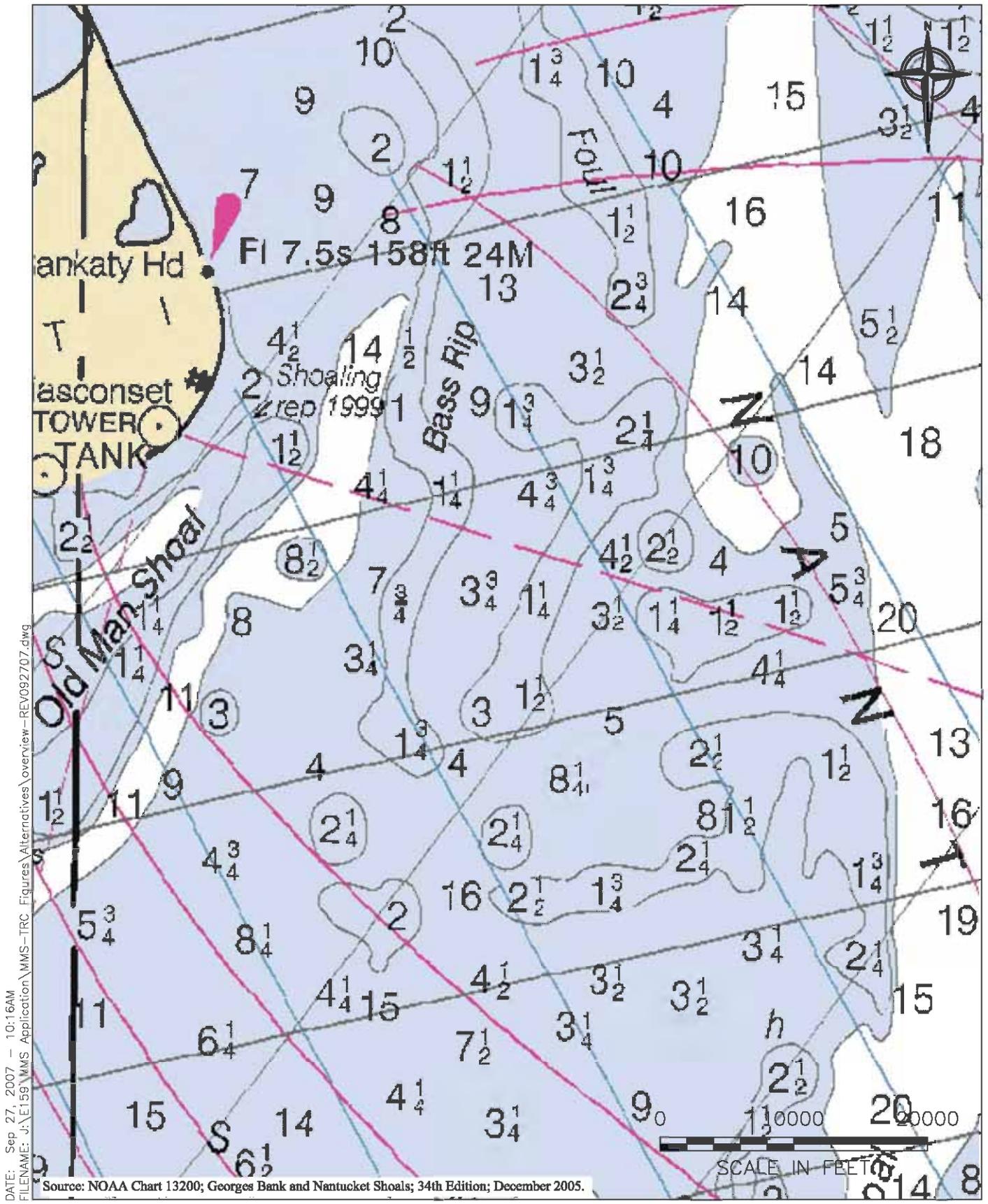


CAPE WIND ENERGY PROJECT
 Boston, Massachusetts (Outer Harbor) Alternative
 Figure 3.3.3-5

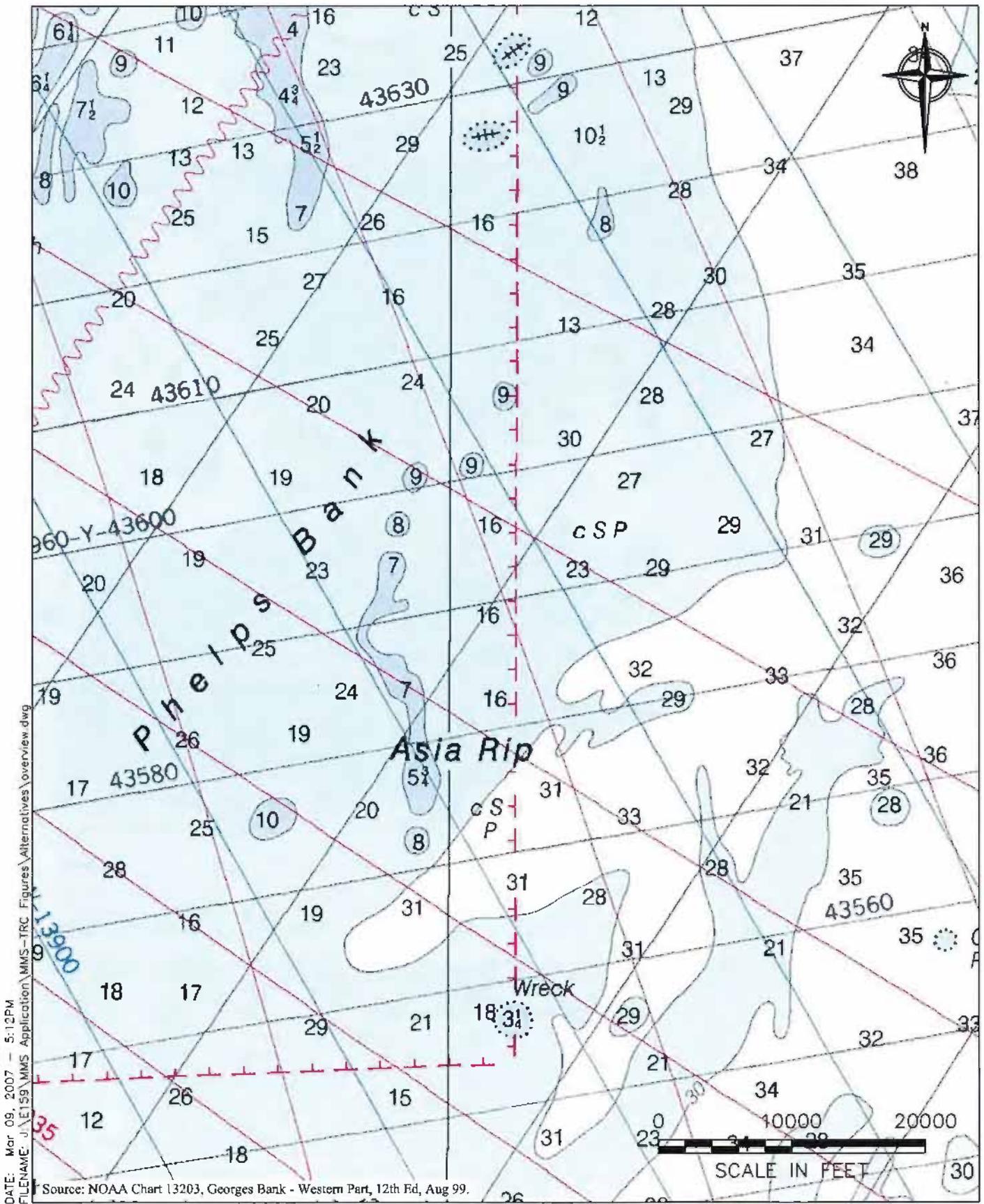


Note: Depths in Fathoms

CAPE WIND ENERGY PROJECT
Nau et a ac u ett Ea t of Nau et eac Alternati e
Figure 3.3.3-

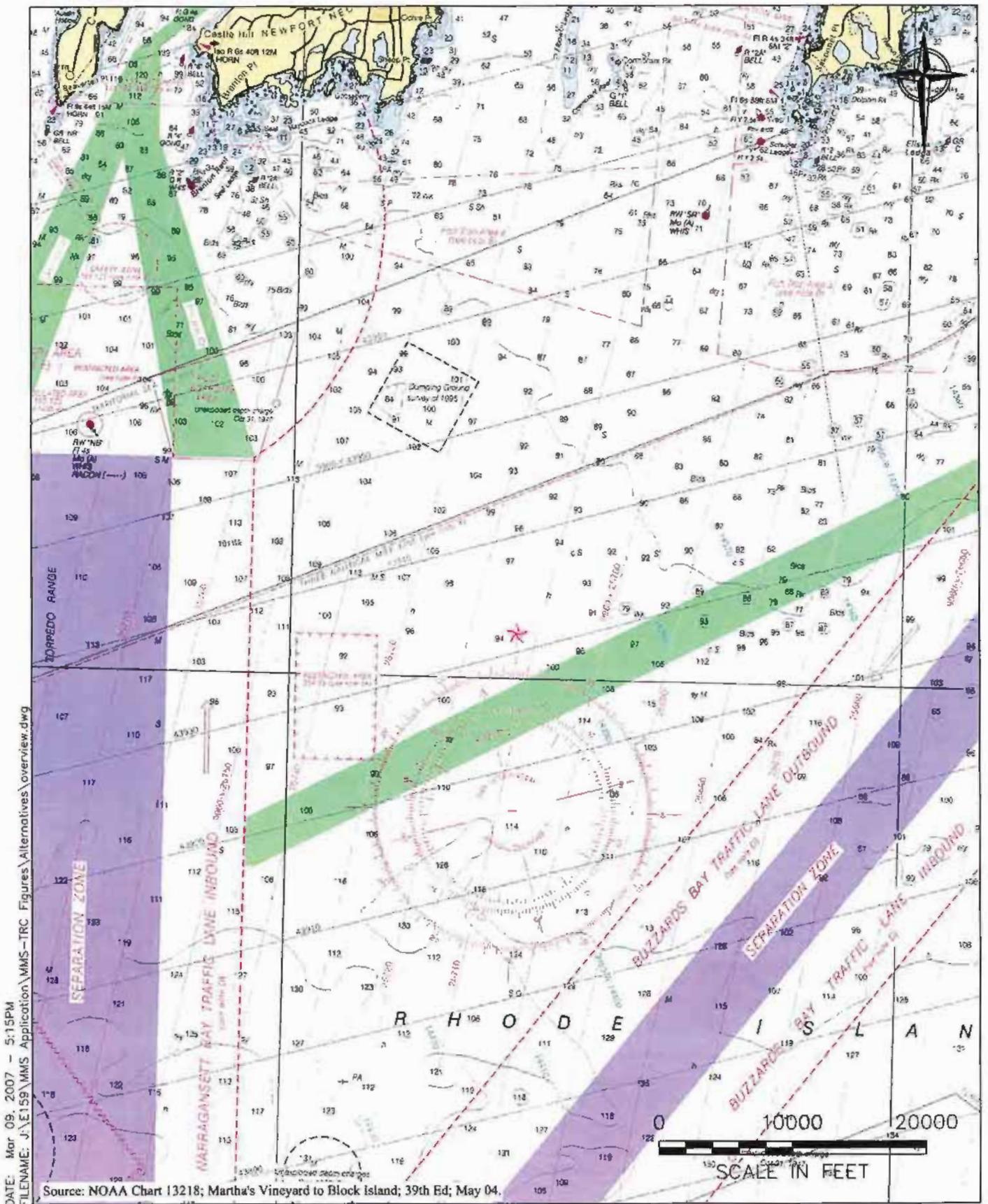


CAPE WIND ENERGY PROJECT
 Nantucket Shoals Southeast of Nantucket Island Alternative
 Figure 3.3.3-



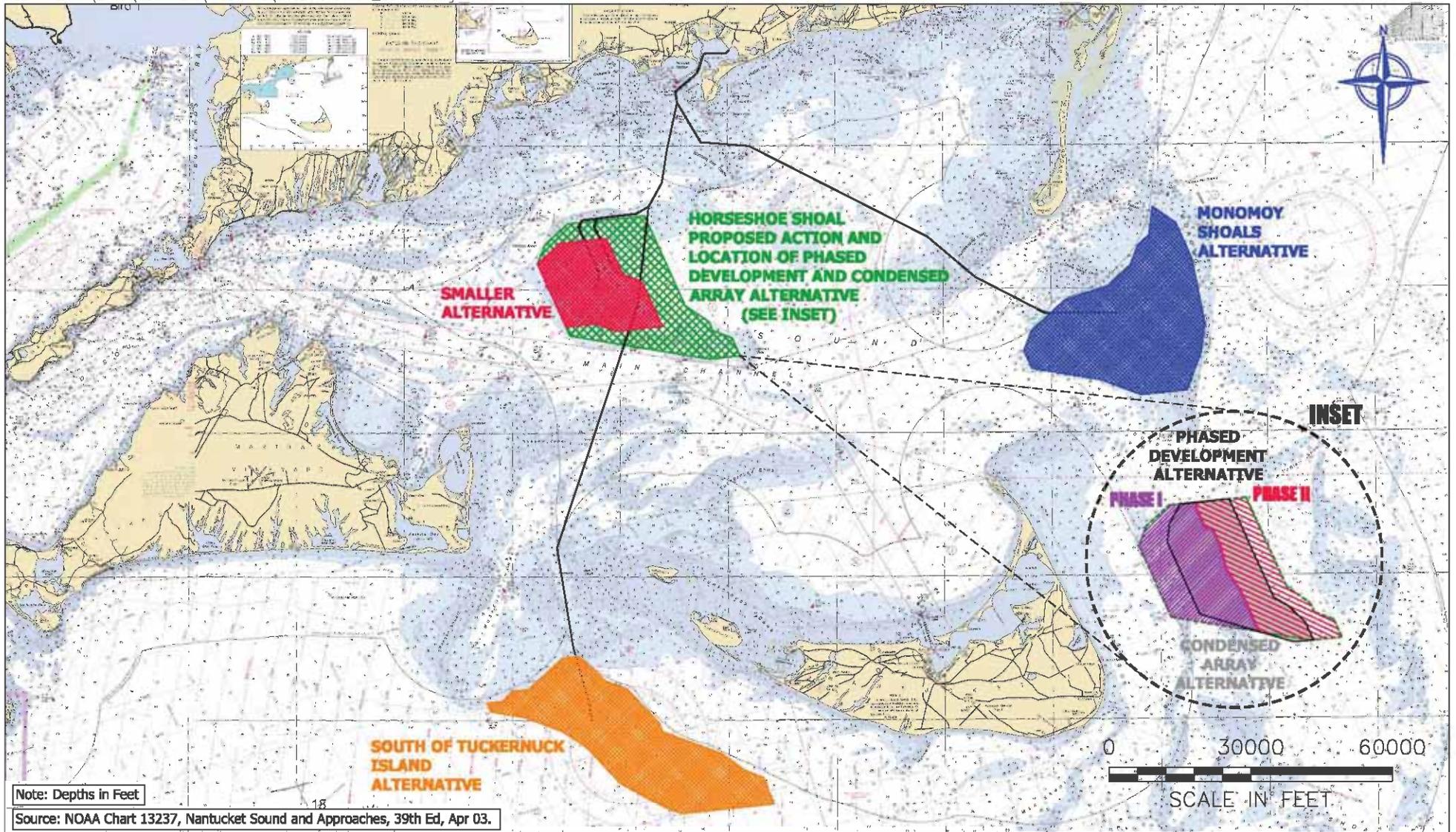
Note: Depths in Fathoms

CAPE WIND ENERGY PROJECT
 Phelps Bank (Southeast of Nantucket Island) Alternative
 Figure 3.3.3-8

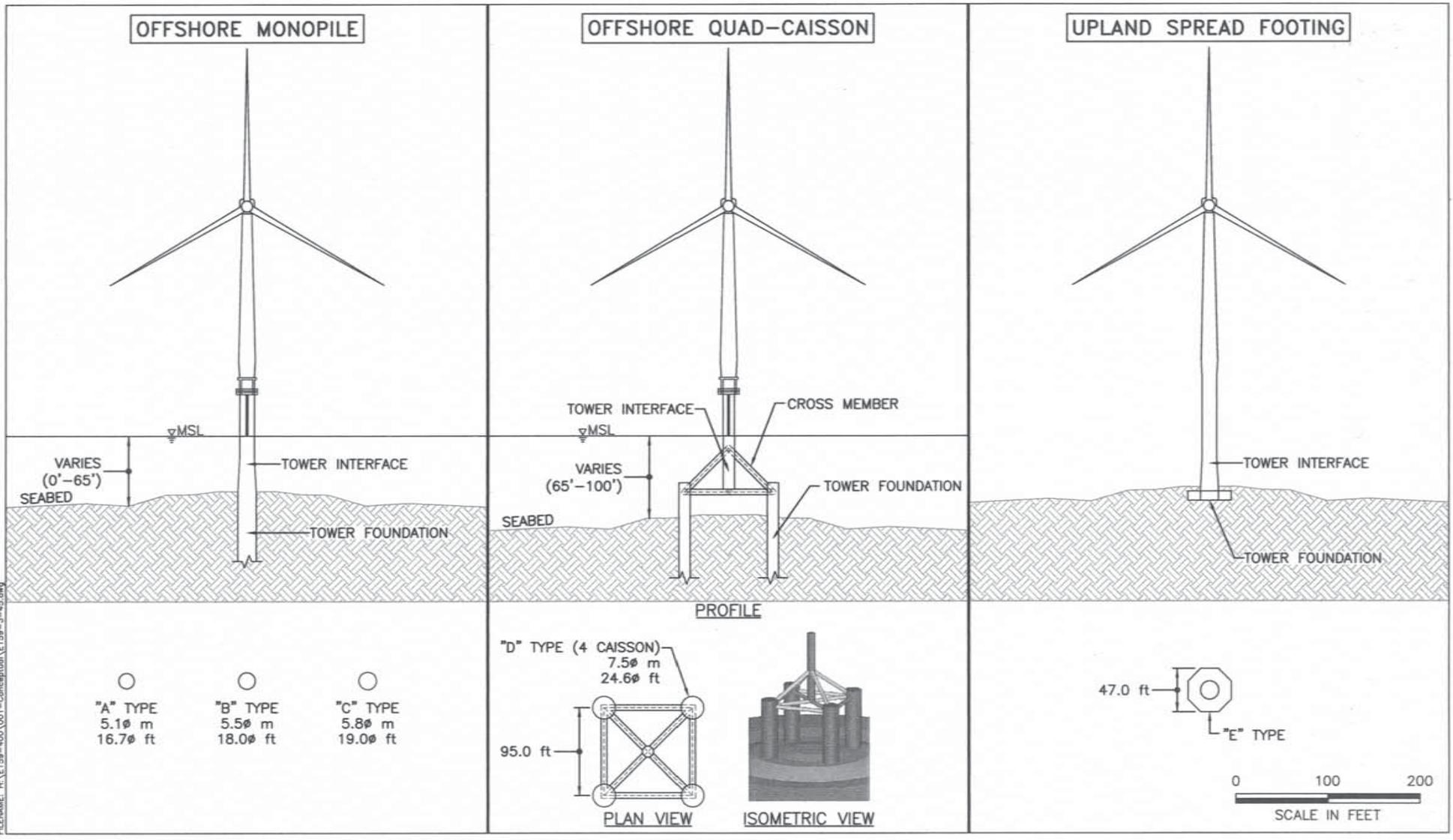


Note: Depths in Feet

CAPE WIND ENERGY PROJECT
 East of Block Island, Rhode Island Alternative
 Figure 3.3.3-9



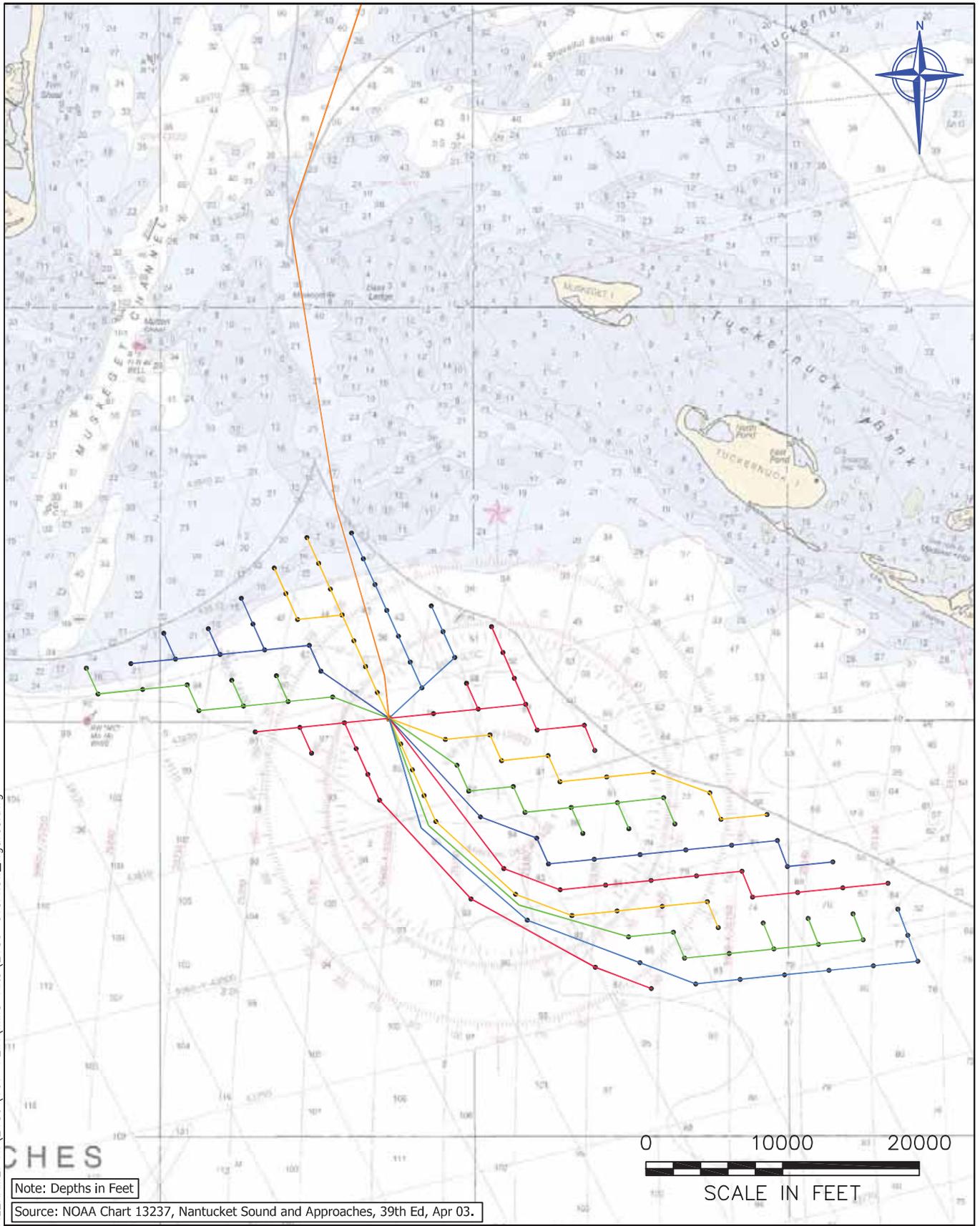
CAPE WIND ENERGY PROJECT
Alternative Identified
Figure 3.3.5-1



Cape Wind Associates, LLC
Cape Wind Project
Nantucket Sound & Approaches

CAPE WIND ENERGY PROJECT
Propo ed Wind Turbine Generator
Foundation Type
Figure 3.3.5-2

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CAPE WIND ENERGY PROJECT
South of Tuckernuck Island Alternative
Figure 3.3.5-3



INFORMATION

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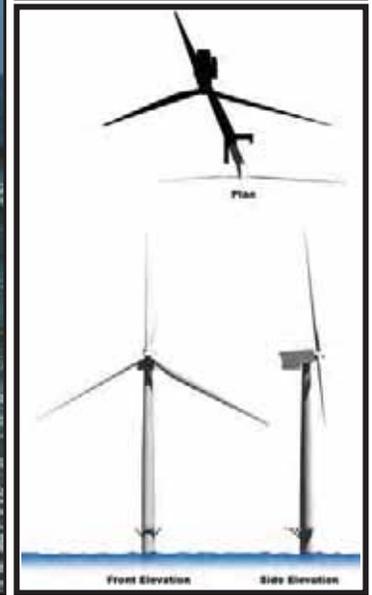
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Viewpoint #	A2
Viewpoint Location	41.351332° N 70.450781° W
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Date Parameter	6/5/2003
Time Parameter	9:14am
Temperature & Visibility	NA
Direction of View	33° West of South
Field Of View (F.O.V.)	40°
Focal Length ¹	50.0 mm
Closest Turbine in F.O.V.	3.73 miles
Furthest Turbine in F.O.V.	6.68 miles
Camera Elevation	5.1'

¹Please note that this photo rendering uses a generic seascape image that is not intended to represent actual conditions at a given location.
²This rendering is a representation of the scale, layout, color, and lighting of the proposed alternative wind park, as perceived from the selected location.

¹Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	25'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Madaket Shoreline

Nantucket

Viewpoint A2

Tuckernuck Shoal Alternative Potential View from Madaket
 Shoreline Nantucket - Daytime View

Prepared By:



March 26, 2006

Figure 3.3.5-
 Sheet 1 of



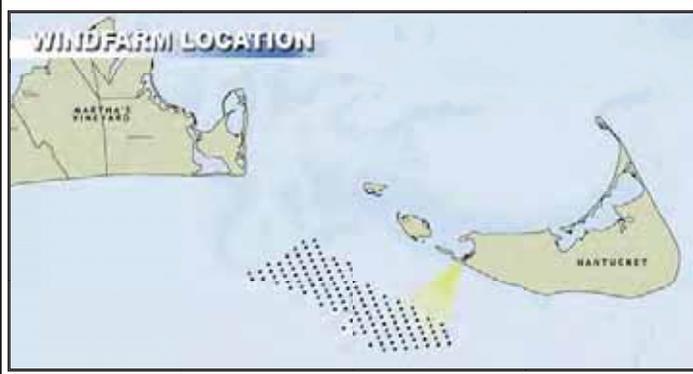
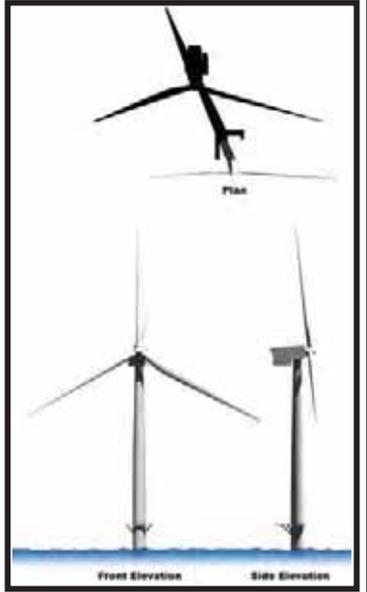
* Photograph is a daytime image that has been darkened to simulate nighttime conditions

INFORMATION

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Viewpoint #	A2
Viewpoint Location	41.351332° N 70.450781° W
Percentage of Total Turbines Visible in F.O.V.	29%
Date Parameter	NA
Time Parameter	NA
Temperature & Visibility	NA
Direction of View	33° West of South
Field Of View (F.O.V)	40°
Focal Length ¹	50.0 mm
Closest Turbine in F.O.V.	3.73 miles
Furthest Turbine in F.O.V.	6.68 miles
Camera Elevation	5.1'

¹Please note that this photo rendering uses a generic seascape image that is not intended to represent actual conditions at a given location.
²This rendering is a representation of the scale, layout, color, and lighting of the proposed alternative wind park, as perceived from the selected location.

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Madaket Shoreline

Viewpoint A2

Tuckermuck Shoal Alternative Potential View from Madaket Shoreline Nantucket - Nighttime View



Figure 3.3.5- Sheet 2 of

March 26, 2006



INFORMATION

Photo-Rendering Data

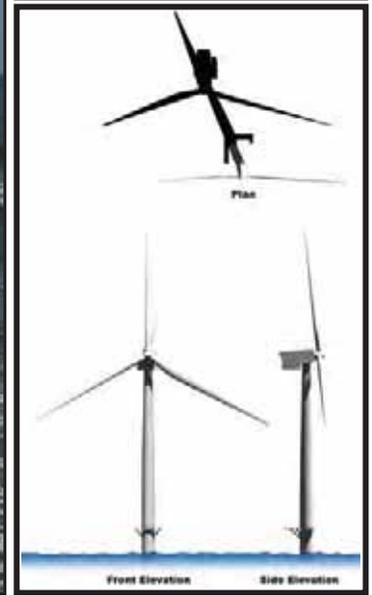
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Viewpoint #	B3
Viewpoint Location	41.351332° N 70.450781° W
Percentage of Total Turbines Visible in F.O.V.	98%
Date Parameter	2/5/2003
Time Parameter	10:14am
Temperature & Visibility	NA
Direction of View	32° East of South
Field Of View (F.O.V.)	41°
Focal Length ¹	48.6 mm
Closest Turbine in F.O.V.	5.85 miles
Furthest Turbine in F.O.V.	16.04 miles
Camera Elevation	25.7'

¹Please note that this photo rendering uses a generic seascape image that is not intended to represent actual conditions at a given location.
²This rendering is a representation of the scale, layout, color, and lighting of the proposed alternative wind park, as perceived from the selected location.

¹Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Wasque Point

Viewpoint B3

Tuckernuck Shoal Alternative Potential View from Wasque Point
 Martha's Vineyard - Daytime View

Prepared By:



March 26, 2006

Figure 3.3.5-
 Sheet 3 of

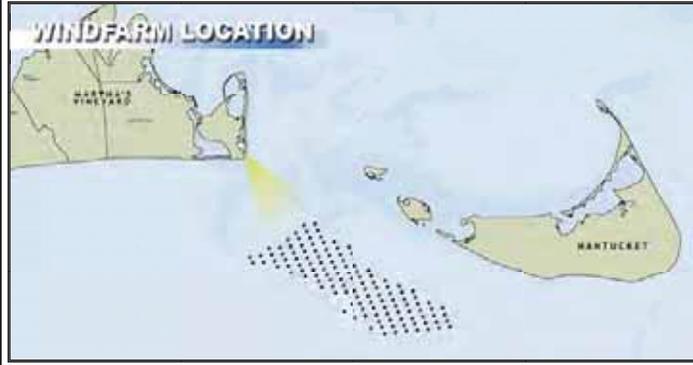
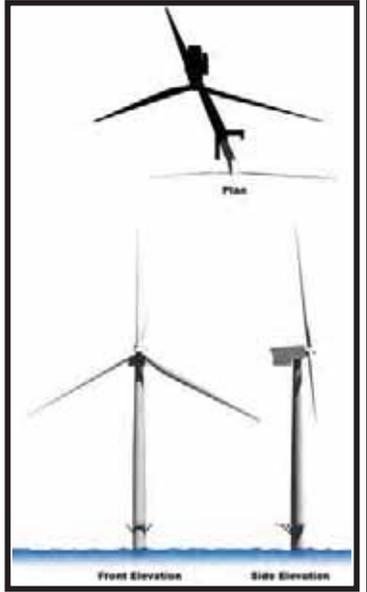


* Photograph is a daytime image that has been darkened to simulate nighttime conditions

INFORMATION	
Photo-Rendering Data	
Viewpoint Name	Wasque Point
Viewpoint #	B3
Viewpoint Location	41.351332° N 70.450781° W
Percentage of Total Turbines Visible in F.O.V.	98%
Date Parameter	NA
Time Parameter	NA
Temperature & Visibility	NA
Direction of View	32° East of South
Field Of View (F.O.V)	41°
Focal Length ¹	48.6 mm
Closest Turbine in F.O.V.	5.85 miles
Furthest Turbine in F.O.V.	16.04 miles
Camera Elevation	25.1'

¹ Please note that this photo rendering uses a generic seascape image that is not intended to represent actual conditions at a given location.
² This rendering is a representation of the scale, layout, color, and lighting of the proposed alternative wind park, as perceived from the selected location.

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Wasque Point
Martha's Vineyard

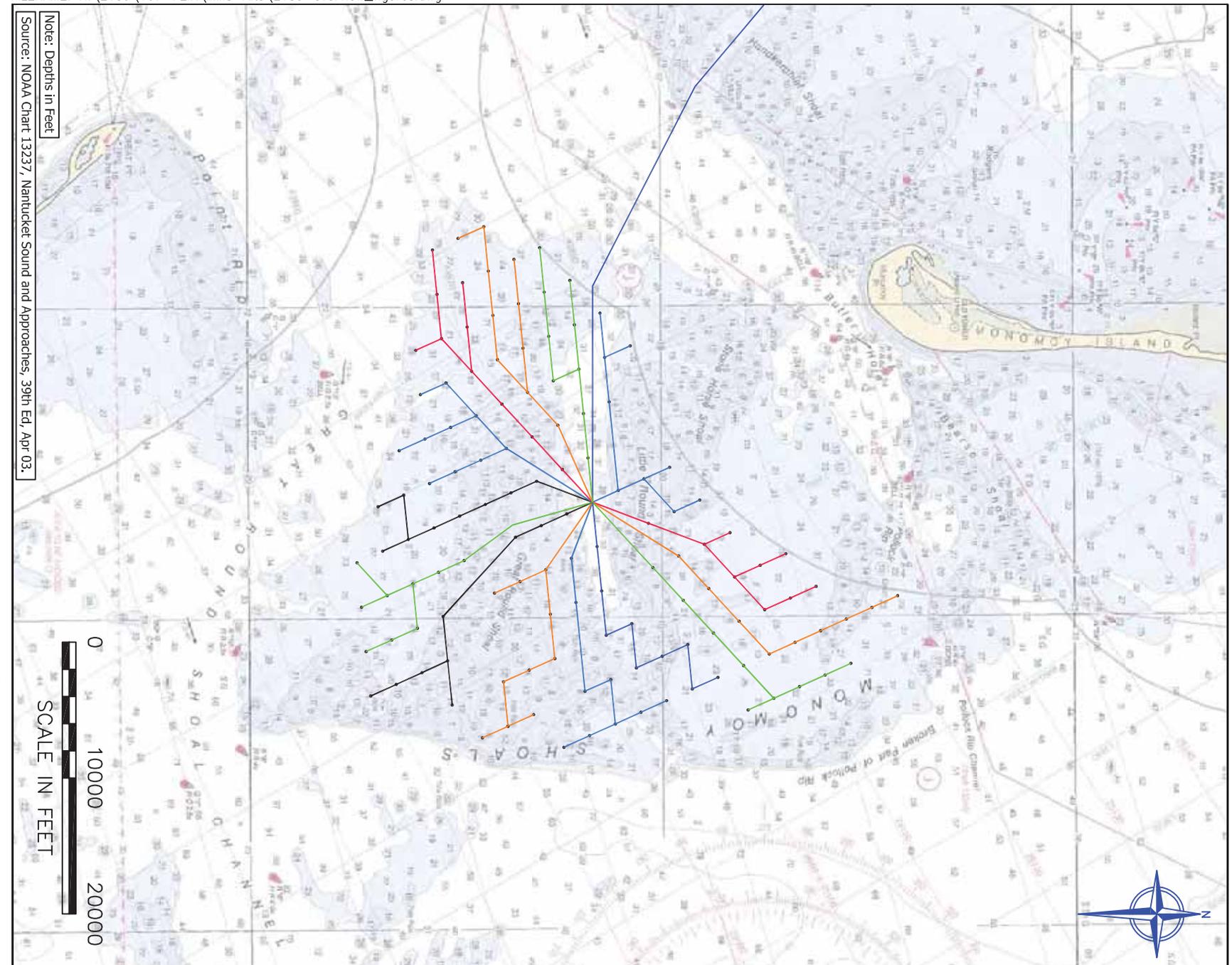
Viewpoint B3

Tuckernuck Shoal Alternative Potential View from Wasque Point
Martha's Vineyard - Nighttime View

Prepared By:

Figure 3.3.5-
Sheet of

March 26, 2006



CAPE WIND ENERGY PROJECT
Monomoy Shoal Alternative
Figure 3.3.5-5

PROPOSED VIEW

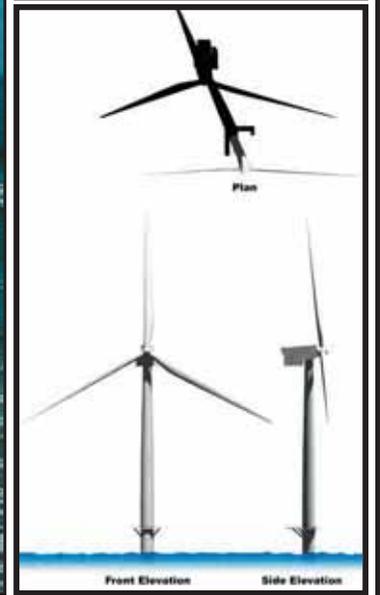


INFORMATION

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Viewpoint Name	Wianno
Viewpoint #	6
Viewpoint Location	41° 37' 01.10"N 70° 22' 12.67"W
Percentage of Total Turbines Visible in F.O.V.	100%
Date Parameter	7/4/2005
Time Parameter	11:00 AM
Temperature & Visibility	NA
Direction of View	20° South of East
Field Of View (F.O.V)	39.965°
Focal Length ¹	49.5mm
Closest Turbine in F.O.V.	20.81 miles
Furthest Turbine in F.O.V.	27.40 miles
Camera Elevation	28.5'

¹Please note that this photo rendering uses a generic waterfront image that is intended to represent conditions, as seen from the listed location.
²This rendering is a representation of the revised scale, layout, color, and lighting of the proposed wind park, as perceived from the referenced viewpoint location.

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	446'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Wianno

Viewpoint 26B

Daytime Photo-Rendering of Proposed Wind Park - Monomoy Alternative *

Prepared By:



Barnstable, Cape Cod

Figure 3.3.5-
Sheet 1 of

June 2007

PROPOSED VIEW



INFORMATION

Photo-Rendering Data

Viewpoint Name	Wianno
Viewpoint #	6
Viewpoint Location	41° 37' 01.10"N 70° 22' 12.67"W
Percentage of Total Turbines Visible in F.O.V.	100%
Date Parameter	NA
Time Parameter	NA
Temperature & Visibility	NA
Direction of View	20° South of East
Field Of View (F.O.V)	39.965°
Focal Length ¹	49.5mm
Closest Turbine in F.O.V.	20.81 miles
Furthest Turbine in F.O.V.	27.40 miles
Camera Elevation	28.58'

* Please note that this photo rendering uses a daytime generic waterfront image that is has been modified to represent nighttime conditions.
 * At long exposures, film reacts to light differently than the eye. This photo rendering has been modified to more accurately present lights as they would be perceived by the human eye.

¹ Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	448'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Wianno

Viewpoint 26B

Nighttime Photo-Rendering of Proposed Wind Park - Monomoy Alternative *

Prepared By:



Barnstable, Cape Cod

Figure 3.3.5-
Sheet 2 of

PROPOSED VIEW

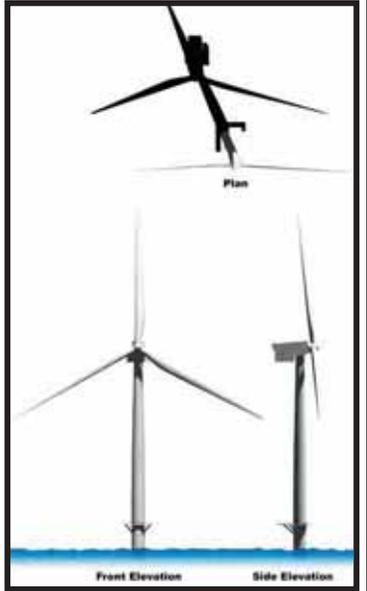


INFORMATION

Photo-Rendering Data	
Viewpoint Name	Great Point
Viewpoint #	23B
Viewpoint Location	41° 23' 22.95"N 70° 02' 52.17"W
Percentage of Total Turbines Visible in F.O.V.	90%
Date Parameter	3/19/2003
Time Parameter	2:59 PM
Temperature & Visibility	2° C 35° F Clear
Direction of View	39° East of North
Field Of View (F.O.V.)	40.7°
Focal Length ¹	48.5mm
Closest Turbine in F.O.V.	4.78 miles
Furthest Turbine in F.O.V.	12.74 miles
Camera Elevation	18.2'

¹Please note that this photo rendering uses a generic waterfront image that is intended to represent conditions as seen from the listed location.
²This rendering is a representation of the revised scale, layout, color, and lighting of the proposed wind park, as perceived from the referenced viewpoint location.

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	446'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Great Point

Viewpoint 23B

Daytime Photo-Rendering of Proposed Wind Park - Monomoy Alternative *

Prepared By:



Nantucket

Figure 3.3.5-
Sheet 3 of

A-37

PROPOSED VIEW



INFORMATION

Photo-Rendering Data

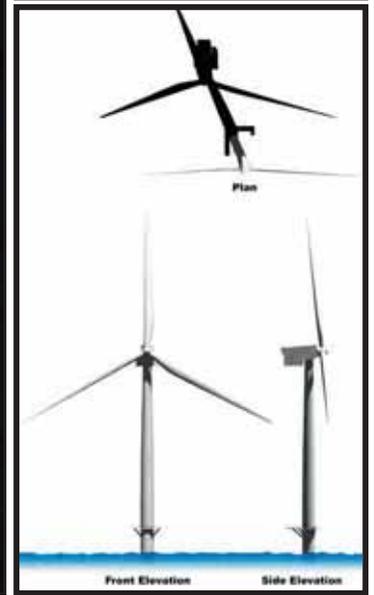
Viewpoint Name	Great Point
Viewpoint #	23B
Viewpoint Location	41° 23' 22.95"N 70° 02' 52.17"W
Percentage of Total Turbines Visible in F.O.V.	90%
Date Parameter	NA
Time Parameter	NA
Temperature & Visibility	NA
Direction of View	39° East of North
Field Of View (F.O.V.)	40.7°
Focal Length ¹	48.5mm
Closest Turbine in F.O.V.	4.78 miles
Furthest Turbine in F.O.V.	12.74 miles
Camera Elevation	18.2'

* Please note that this photo rendering uses a daytime generic waterfront image that is has been modified to represent nighttime conditions.
 * At long exposures, film reacts to light differently than the eye. This photo rendering has been modified to more accurately present lights as they would be perceived by the human eye.

¹ Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	446'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Great Point

Nantucket

Viewpoint 23B

Nighttime Photo-Rendering of Proposed Wind Park - Monomoy Alternative *

Prepared By:



Figure 3.3.5-
Sheet of

PROPOSED VIEW



INFORMATION

Photo-Rendering Data

Viewpoint Name	Monomoy
Viewpoint #	26B
Viewpoint Location	41° 33' 32.57" N 69° 59' 31.48" W
Percentage of Total Turbines Visible in F.O.V.	62%
Date Parameter	6/10/2003
Time Parameter	10:12am
Temperature & Visibility	21° C 70° F Clear
Direction of View	30° East of South
Field Of View (F.O.V)	40.7
Focal Length ¹	48.5mm
Closest Turbine in F.O.V.	4.17 miles
Furthest Turbine in F.O.V.	9.56 miles
Camera Elevation	30.0'

¹Please note that this photo rendering uses a generic waterfront image that is intended to represent conditions, as seen from the listed location.
²This rendering is a representation of the revised scale, layout, color, and lighting of the proposed wind park, as perceived from the referenced viewpoint location.

Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	446'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Monomoy

Viewpoint 26B

Daytime Photo-Rendering of Proposed Wind Park - Monomoy Alternative *

Prepared By:



Chatham

Figure 3.3.5-
Sheet 5 of

June 2007

PROPOSED VIEW



INFORMATION

Photo-Rendering Data

Viewpoint Name	Monomoy
Viewpoint #	26B
Viewpoint Location	41° 33' 32.57"N 69° 59' 31.48"W
Percentage of Total Turbines Visible in F.O.V.	62%
Date Parameter	NA
Time Parameter	NA
Temperature & Visibility	NA
Direction of View	30° East of South
Field Of View (F.O.V.)	40.7
Focal Length ¹	48.5mm
Closest Turbine in F.O.V.	4.17 miles
Furthest Turbine in F.O.V.	9.56 miles
Camera Elevation	30.0'

¹ Please note that this photo rendering uses a daytime generic waterfront image that is has been modified to represent nighttime conditions.
² At long exposures, film reacts to light differently than the eye. This photo rendering has been modified to more accurately present lights as they would be perceived by the human eye.

Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	446'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Monomoy

Viewpoint 26B

Nighttime Photo-Rendering of Proposed Wind Park - Monomoy Alternative *

Prepared By:

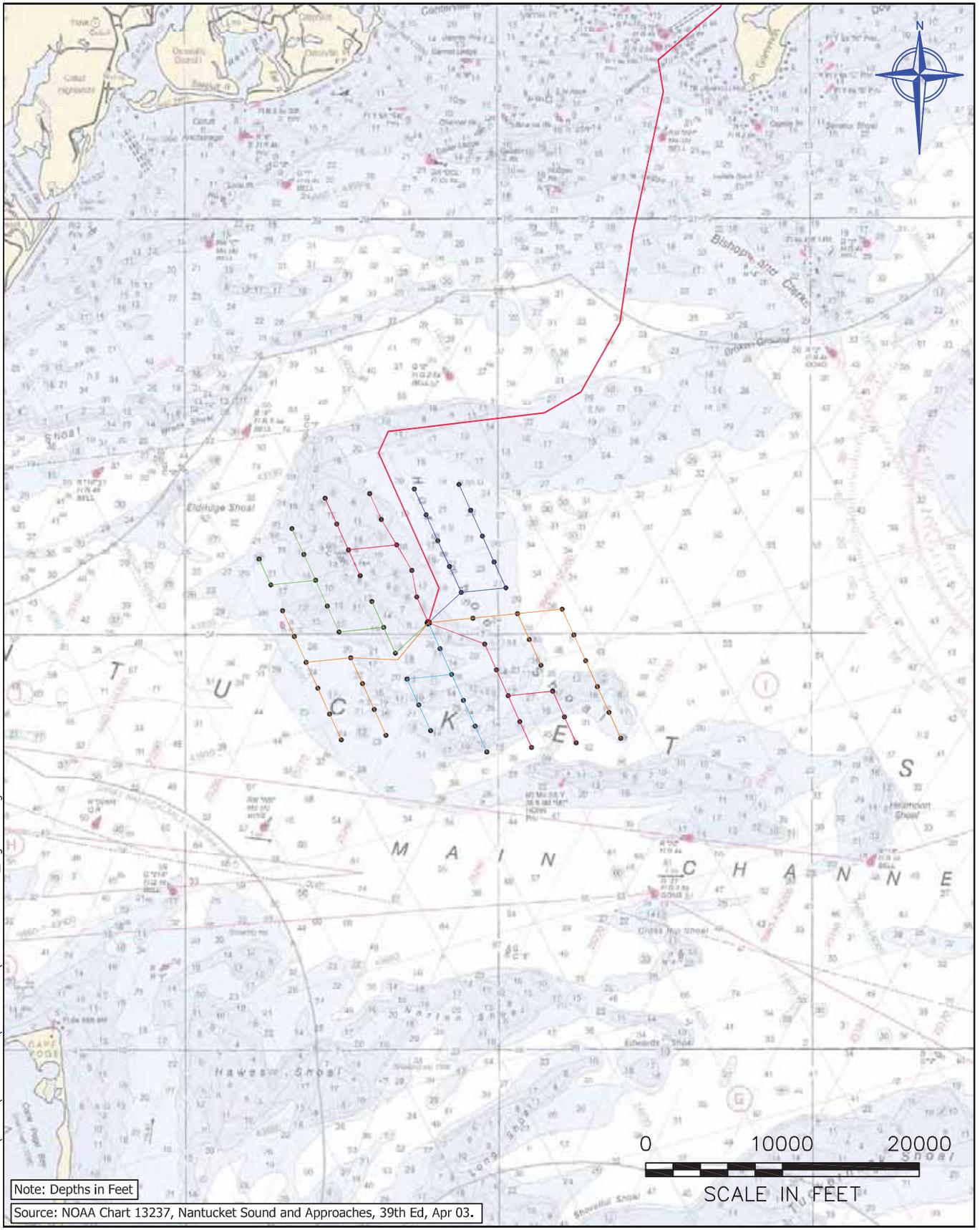


Chatham

Figure 3.3.5-
Sheet of

June 2007

DATE: Apr 24, 2007 - 2:19PM
FILENAME: H:\E159\107-PEIR\MMS-Alts\E159-overview_figures.dwg



CAPE WIND ENERGY PROJECT
or e oe S oal Smaller Alternati e
Figure 3.3. -1



INFORMATION

Viewpoint Specific Data

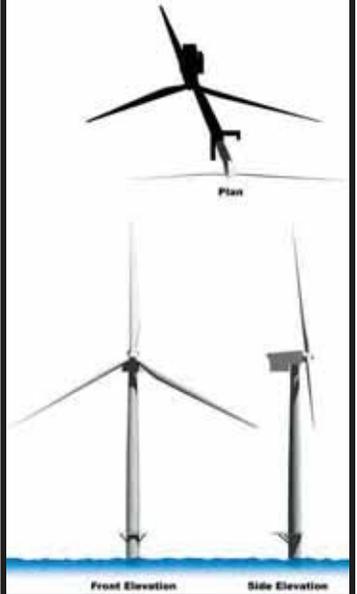
Viewpoint Name	Wianno
Viewpoint #	6
Viewpoint Location	41° 37' 01.10"N 70° 22' 12.67"W
Percentage of Total Turbines Visible	50%
Date Taken	1/22/2003
Time	4:28pm
Temperature & Visibility	-10° C 14° F Clear
Direction of View	20° East of South
Field Of View	39.966°
Focal Length ¹	49.5mm
Closest Turbine	6.88 miles
Furthest Turbine	10.16 miles
Camera Elevation	28.58'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

¹Displayed in 35mm equivalent. ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Wianno Barnstable, Cape Cod
 June 2007
 Prepared By: [Redacted]
 EDR

Daytime Visual Simulation of Proposed Wind Park - Smaller Alternative
 Figure 3.3. -2
 Sheet 1 of

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

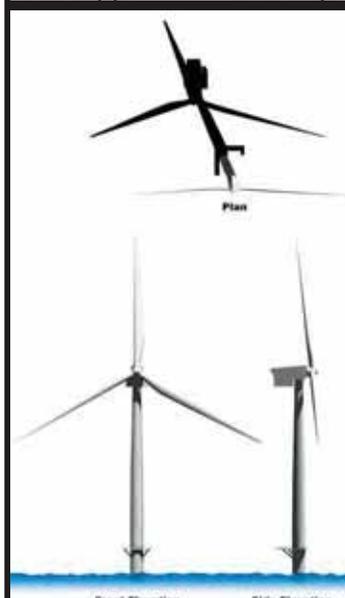
Viewpoint Name	Wianno Area
Viewpoint #	6
Viewpoint Location	41° 37' 01.10"N 70° 22' 12.67"W
Percentage of Total Turbines Visible	82%
Date Taken	1/22/2003
Time	9:43 PM
Temperature & Visibility	-13° C 5° F Clear
Direction of View	20° East of South
Field Of View	39.966°
Focal Length ¹	49.5mm
Closest Turbine	6.88 miles
Furthest Turbine	10.16 miles
Camera Elevation	28.58'

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

¹Displayed in 35mm equivalent. ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L164 and L310
Coast Guard Warning Lights	Dual Amber USCG Lights



Wianno Barnstable, Cape Cod
 June 2007
 Prepared By: [Redacted]
 EDR

Daytime Visual Simulation of Proposed Wind Park - Smaller Alternative
 Figure 3.3. -2
 Sheet 2 of

PROPOSED VIEW



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

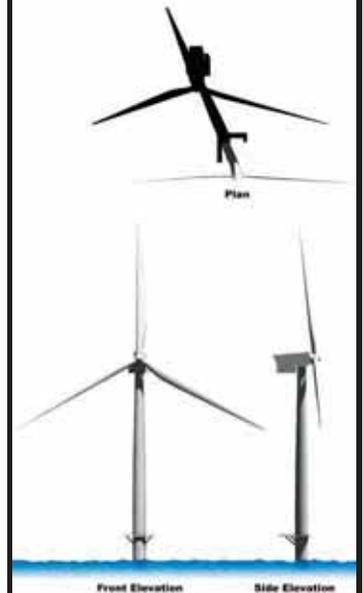
Viewpoint Name	Cape Poge
Viewpoint #	19
Viewpoint Location	41° 25' 12.64" N 70° 27' 4.57" W
Percentage of Total Turbines Visible	83%
Date Taken	2/2/2003
Time	2:14pm
Temperature & Visibility	3° C 37° F Clear
Direction of View	52° East of North
Field Of View	40.646°
Focal Length ¹	48.6mm
Closest Turbine	5.68 miles
Furthest Turbine	9.45 miles
Camera Elevation	56.77'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

¹ Displayed in 35mm equivalent. ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Viewpoint 19

Cape Poge Martha's Vineyard

June 2007

Prepared By: [Redacted]

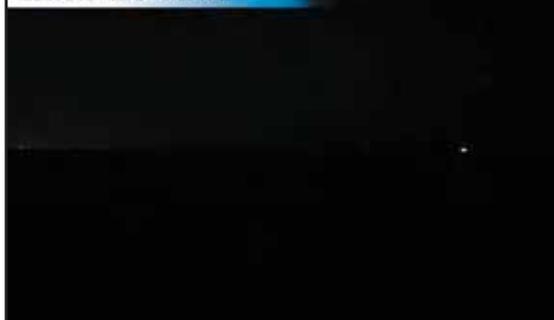
EDR

Daytime Visual Simulation of Proposed Wind Park - Smaller Alternative
Figure 3.3. -2
Sheet 3 of

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

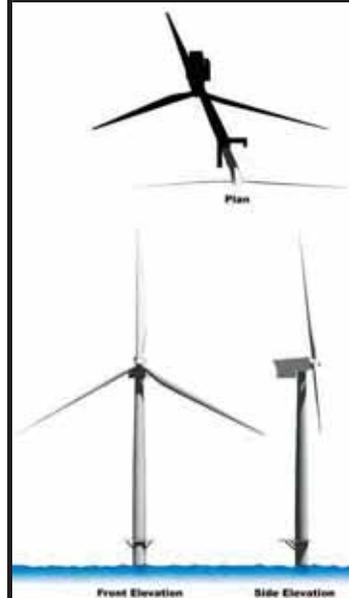
Viewpoint Name	Cape Poge
Viewpoint #	19
Viewpoint Location	41° 25' 12.64" N 70° 27' 4.57" W
Percentage of Total Turbines Visible	83%
Date Taken	2/2/2003
Time	6:36 PM
Temperature & Visibility	-2° C 26° F Clear
Direction of View	52° East of North
Field Of View	40.646°
Focal Length ¹	48.6mm
Closest Turbine	5.68 miles
Furthest Turbine	9.45 miles
Camera Elevation	56.77'

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

¹ Displayed in 35mm equivalent. ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Viewpoint 19
Cape Poge Martha's Vineyard
 June 2007
 Prepared By: [Redacted]
 EDR

Daytime Visual Simulation of Proposed Wind Park - Smaller Alternative
 Figure 3.3. -2
 Sheet of

PROPOSED VIEW



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

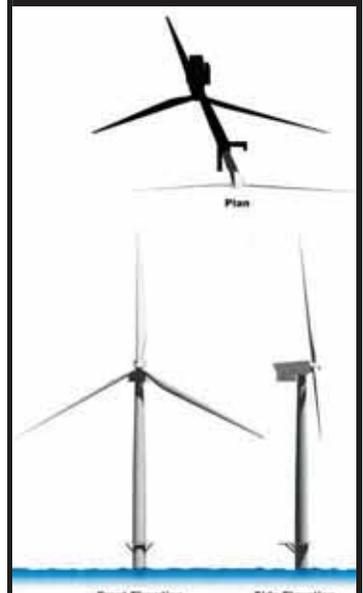
Viewpoint Name	Nantucket Cliffs
Viewpoint #	22
Viewpoint Location	41° 17' 14.18"N 70° 07' 8.40"W
Percentage of Total Turbines Visible	100%
Date Taken	3/19/2003
Time	11:01am
Temperature & Visibility	2° C 36° F Clear
Direction of View	47° West of North
Field Of View	44°
Focal Length ¹	44.5mm
Closest Turbine	16.26 miles
Furthest Turbine	21.40 miles
Camera Elevation	44.61'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

¹Displayed in 35mm equivalent. ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Nantucket Cliffs Viewpoint 22
Nantucket
June 2007
Prepared By: [Redacted]
EDR

Daytime Visual Simulation of Proposed Wind Park - Smaller Alternative
Figure 3.3. -2
Sheet 5 of

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

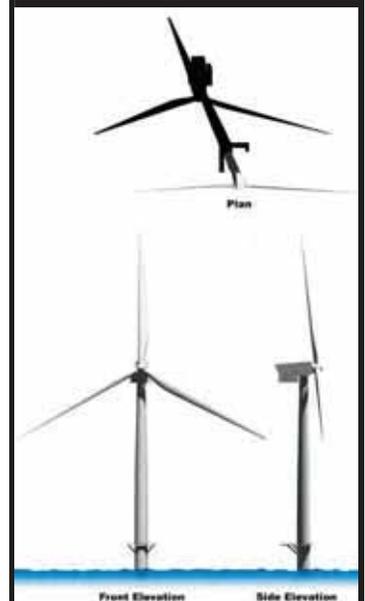
Viewpoint Name	Nantucket Cliffs
Viewpoint #	22
Viewpoint Location	41° 46' 58.15" N 70° 52' 17.79" W
Percentage of Total Turbines Visible	100%
Date Taken	5/19/2003
Time	10:43 PM
Temperature & Visibility	Clear
Direction of View	47° West of North
Field Of View	44°
Focal Length ¹	44.5mm
Closest Turbine	16.26 miles
Furthest Turbine	21.40 miles
Camera Elevation	44.6'

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

¹Displayed in 35mm equivalent. ² MLLW - Mean Lower Low Water

Model Dimensions and Data

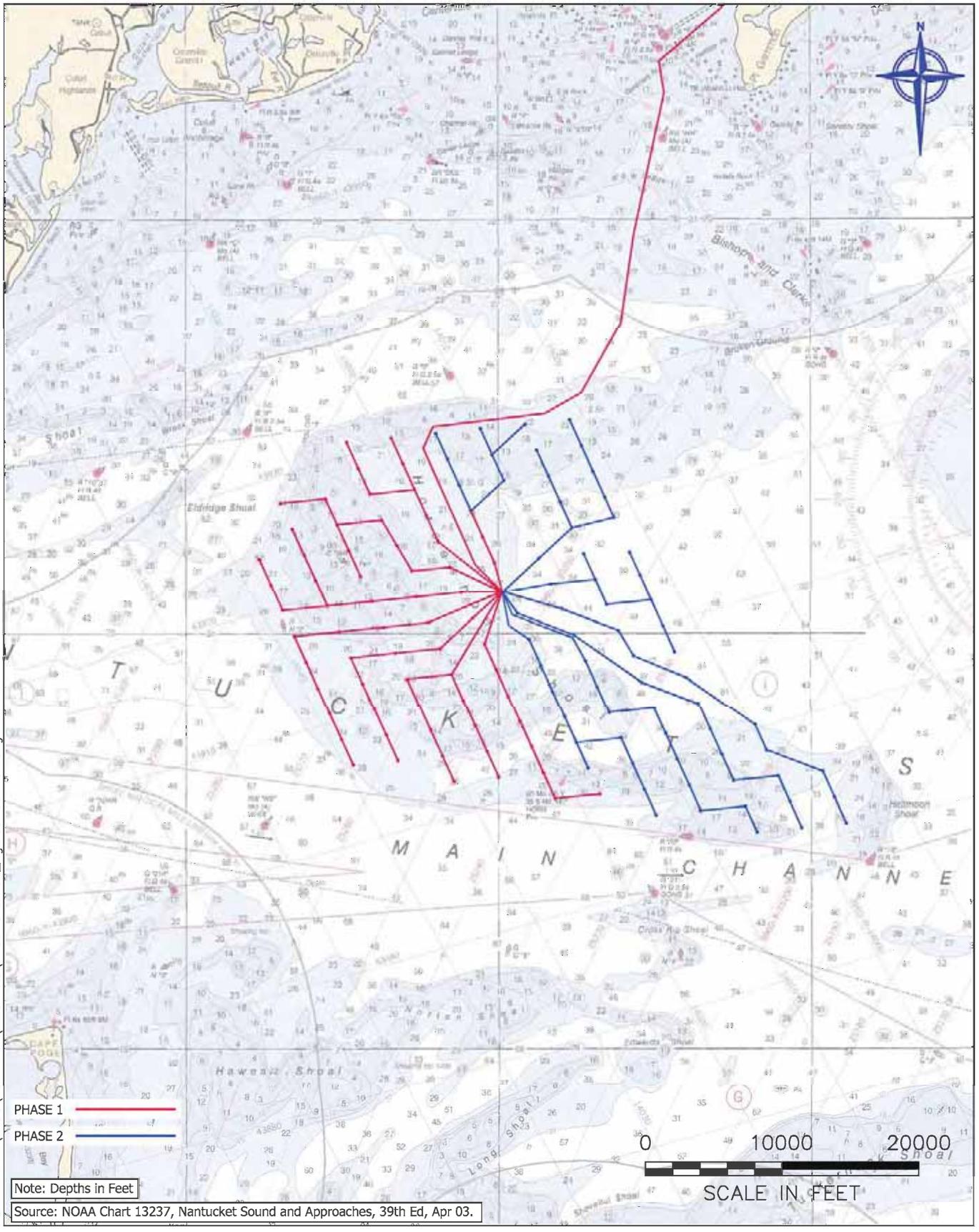
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



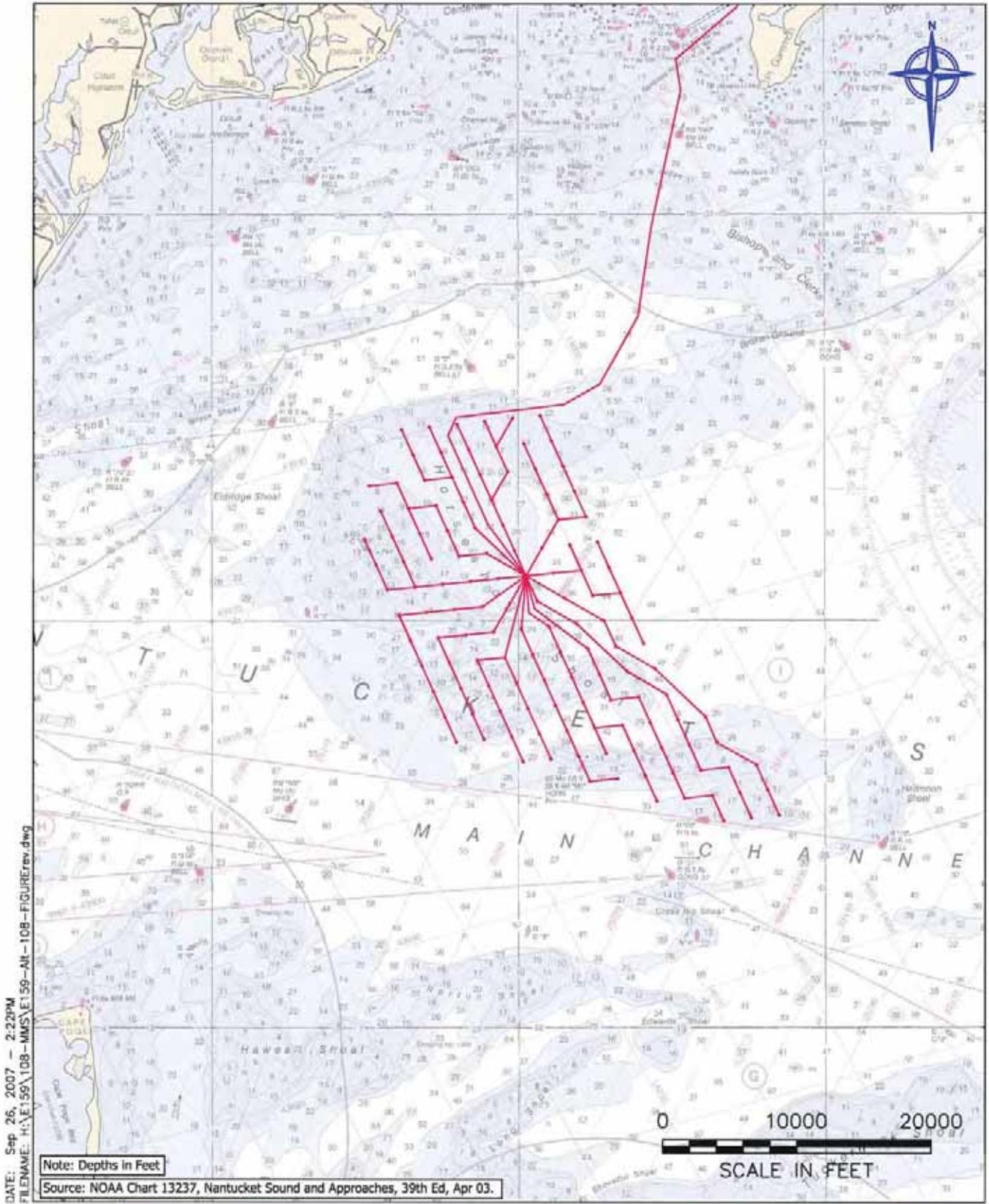
Nantucket Cliffs Viewpoint 22
Nantucket
June 2007
Prepared By: [Redacted]
EDR

Daytime Visual Simulation of Proposed Wind Park - Smaller Alternative
Figure 3.3. -2
Sheet of

DATE: Sep 26, 2007 - 2:26PM
FILENAME: H:\E159\107-Feir\MM5-Alts\E159-overview_figures-091707.dwg



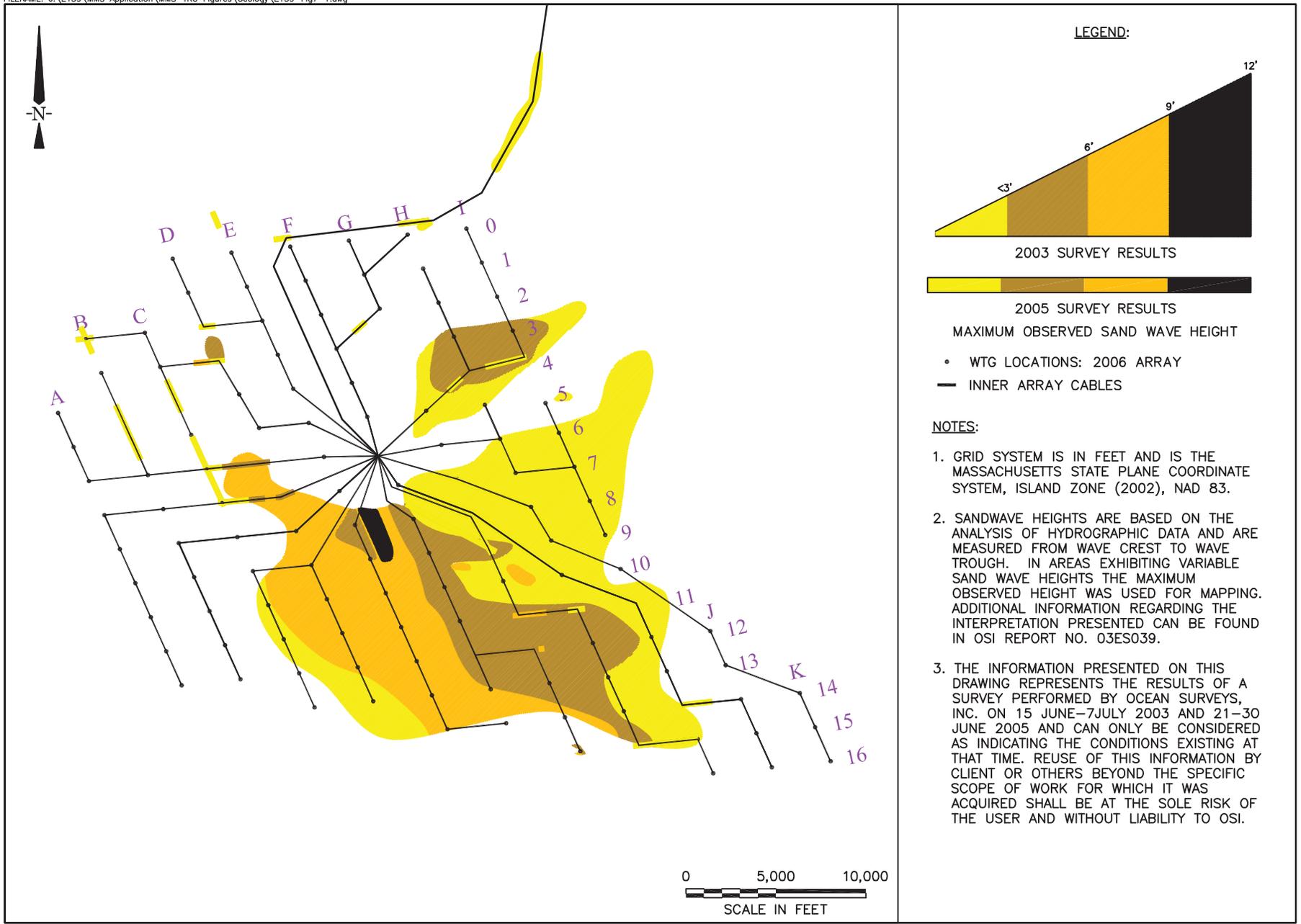
CAPE WIND ENERGY PROJECT
P a e d D e e l o p m e n t A l t e r n a t i v e
Figure 3.3. -3



CAPE WIND ENERGY PROJECT
 Condensed Array Alternative
 Figure 3.3. -

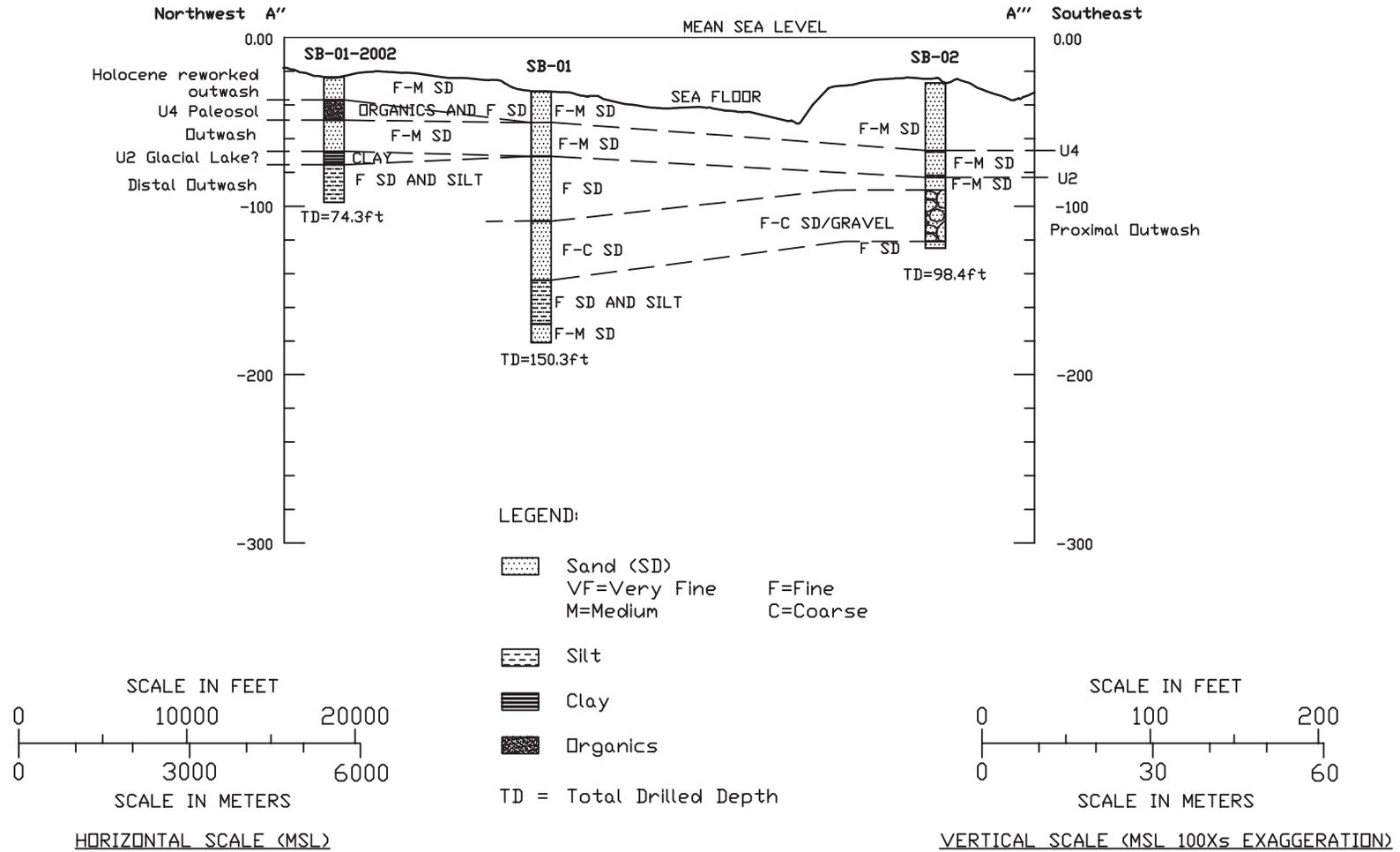


CAPE WIND ENERGY PROJECT
 Geotechnical Boring and Test Pit Location
 Figure .1.1-1



CAPE WIND ENERGY PROJECT
 Sand wave Data on Core of Seafloor
 Figure .1.1-11

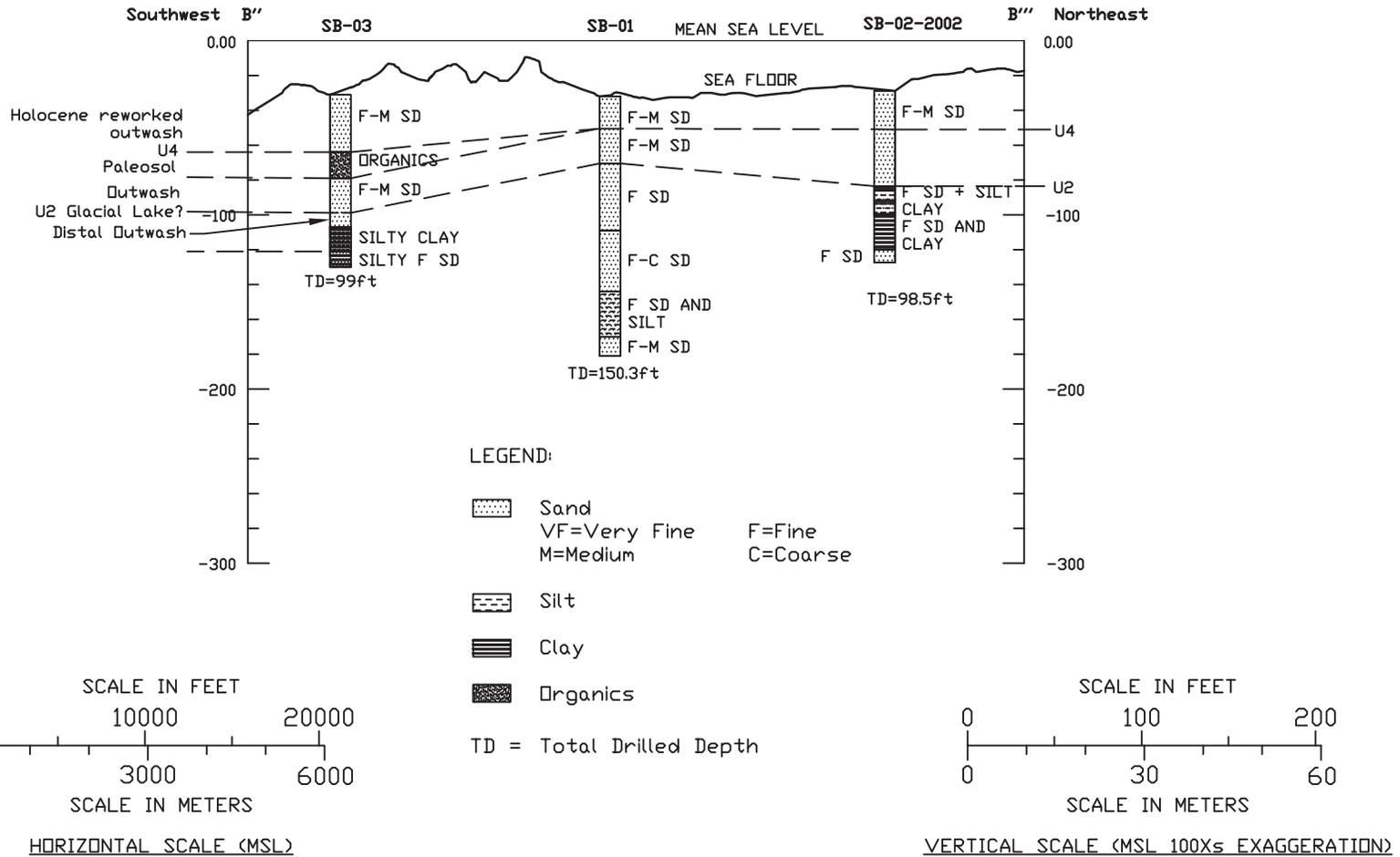
IMAGE: H:\Charts\Nad83-ma-isi-ft\MRSID-test\13237-test.sid



Source: Interpretation by ESS from GZA boring logs.

CAPE WIND ENERGY PROJECT
Detailed Cross-Section
A-A' Across the Paleosol
Figure .1.1-12

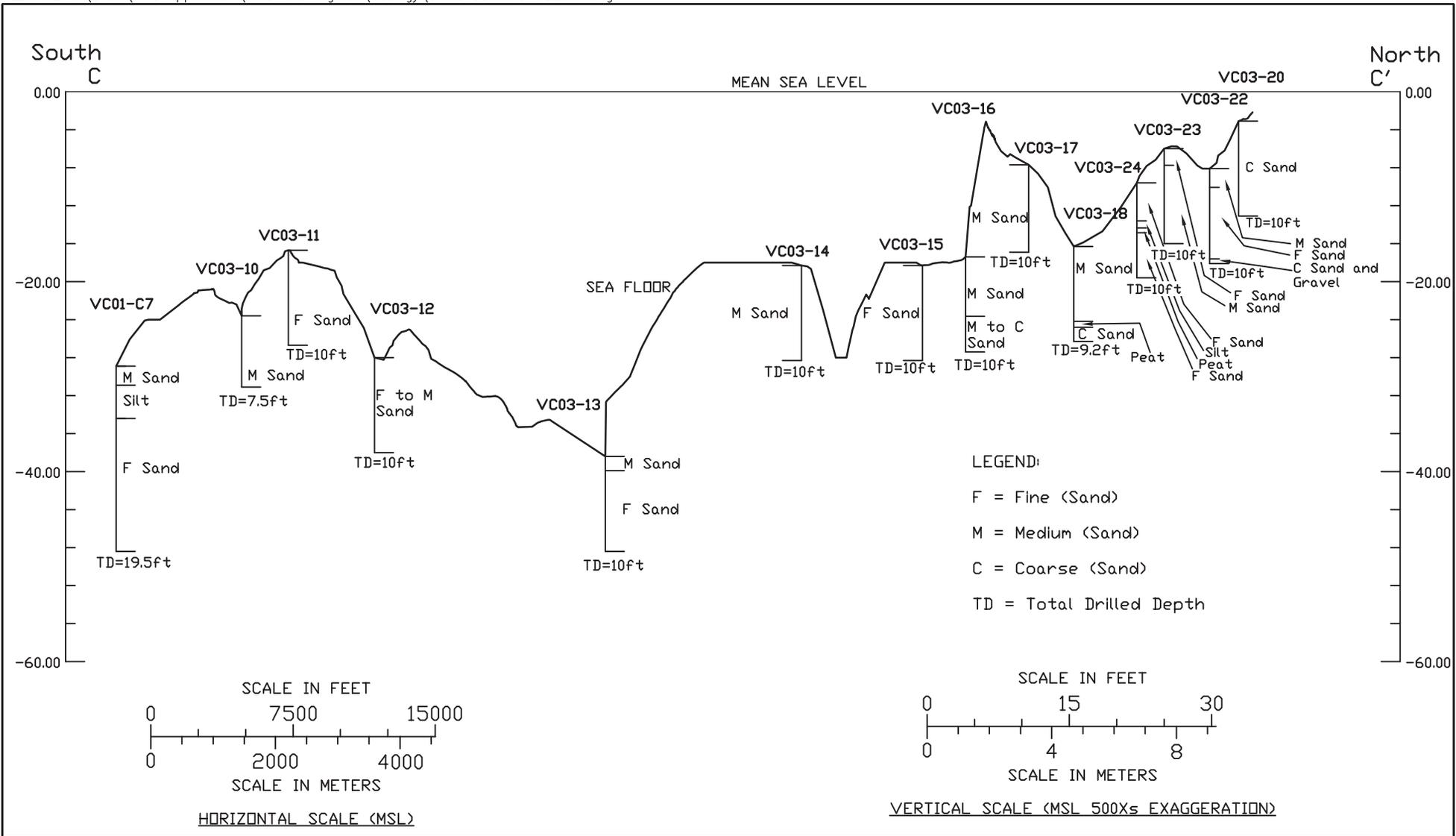
IMAGE: H:\Charts\Nad83-ma-isl-ft\MRSID-test\13237-test.sid



Source: Interpretation by ESS from GZA boring logs.

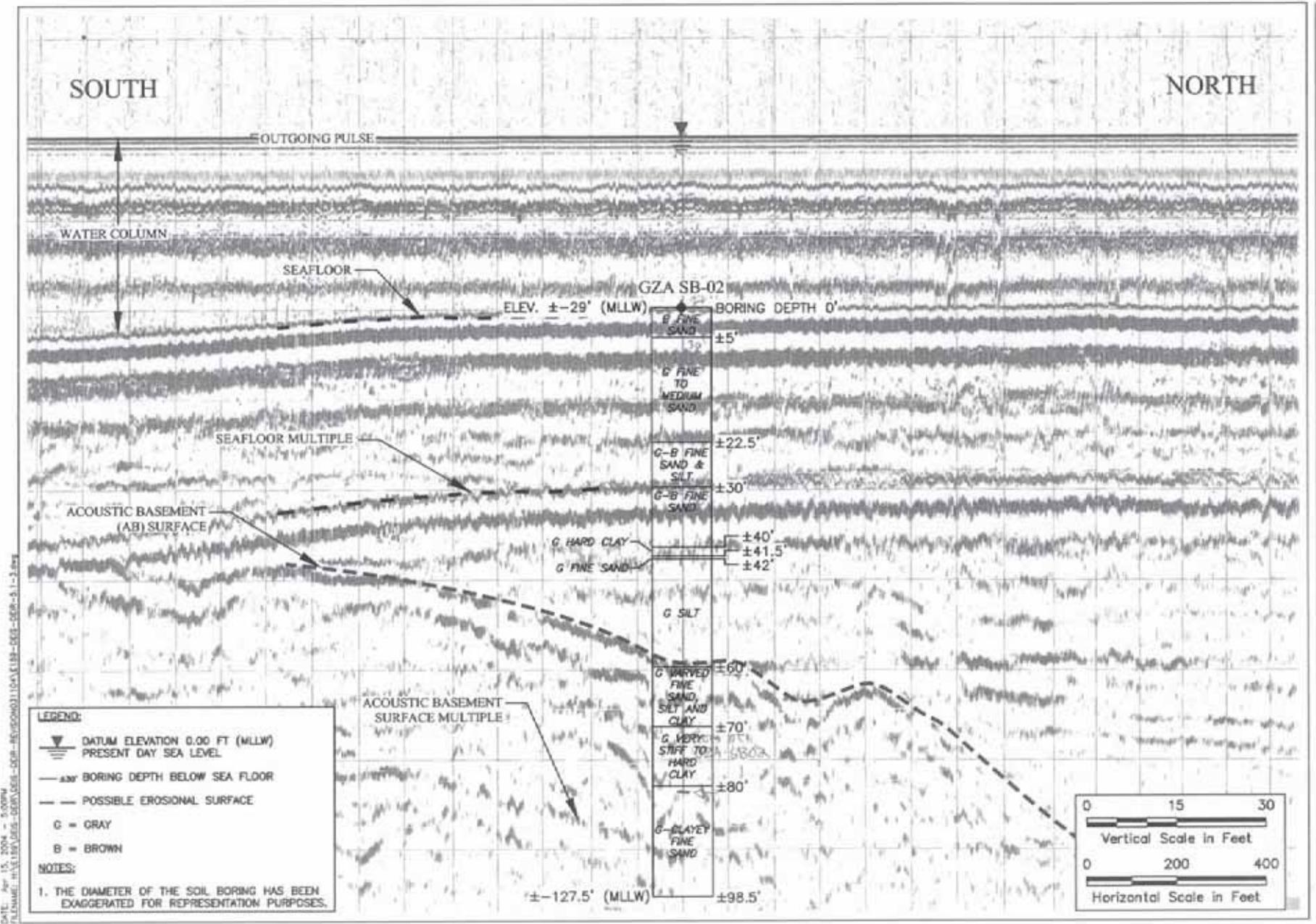
CAPE WIND ENERGY PROJECT
Detailed Cross-Section
 - Across the Profile
Figure .1.1-13

IMAGE: H:\Charts\Nad83-ma-isi-ft\MRSID-test\13237-test.sid

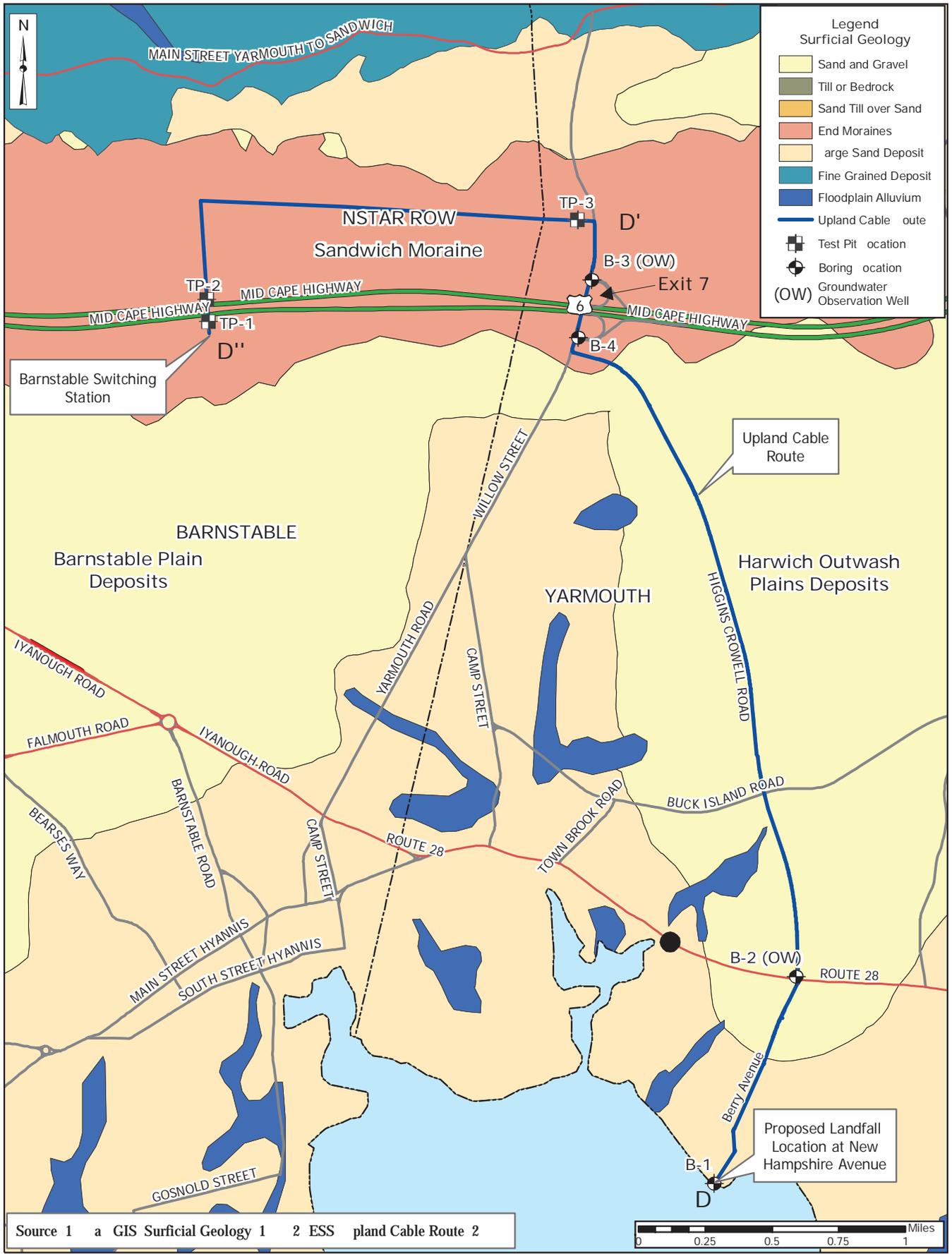


Source: Vibracore lithologies described by ESS

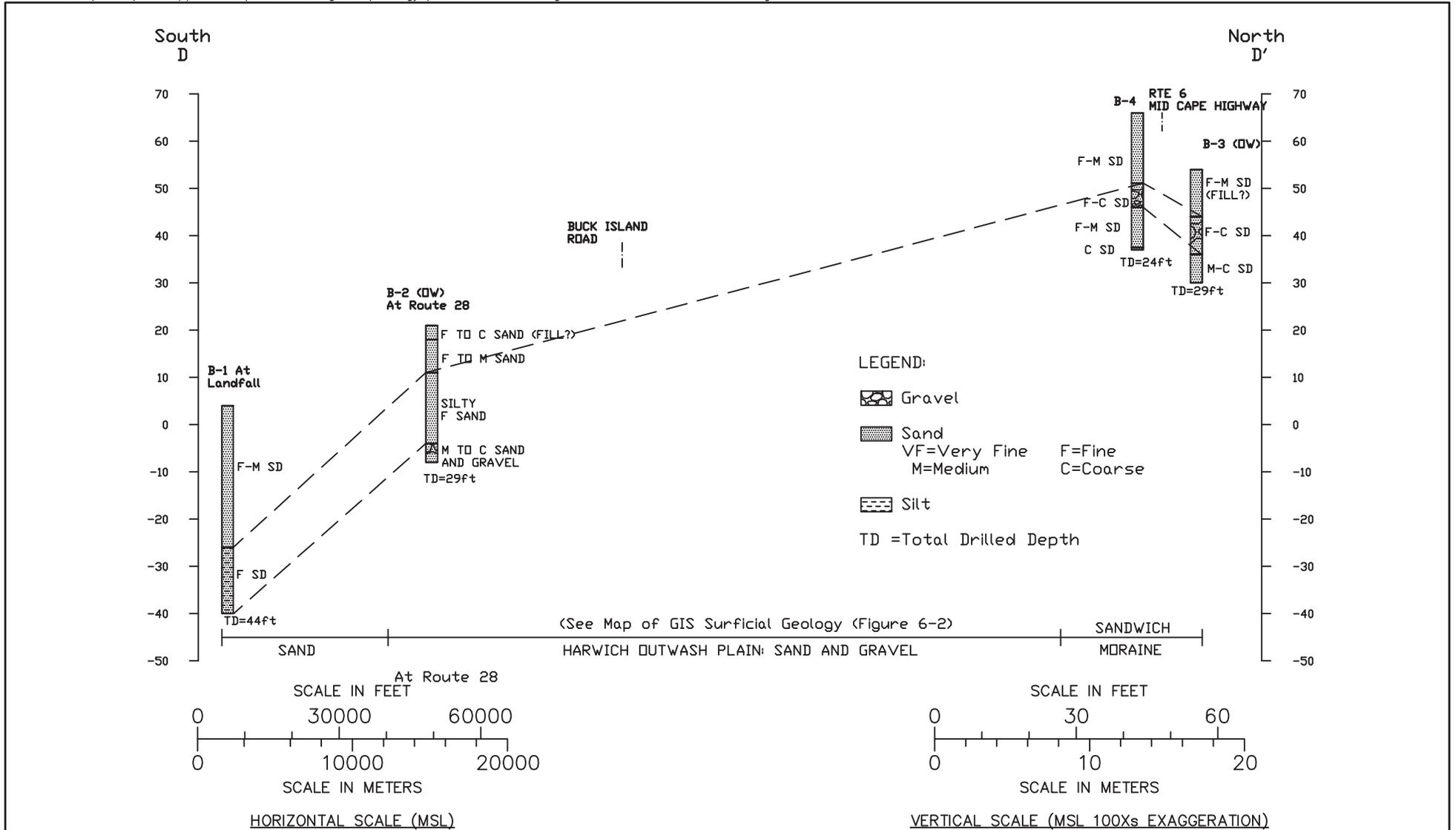
CAPE WIND ENERGY PROJECT
Detailed Cross-Section
C-C Along 115 kV Cable Route to Landfill
Figure .1.1-1



CAPE WIND ENERGY PROJECT
 Profile of 2 1 Geophysical Trackline G-13 and Boring G A-S - 2
 Figure .1.1-15

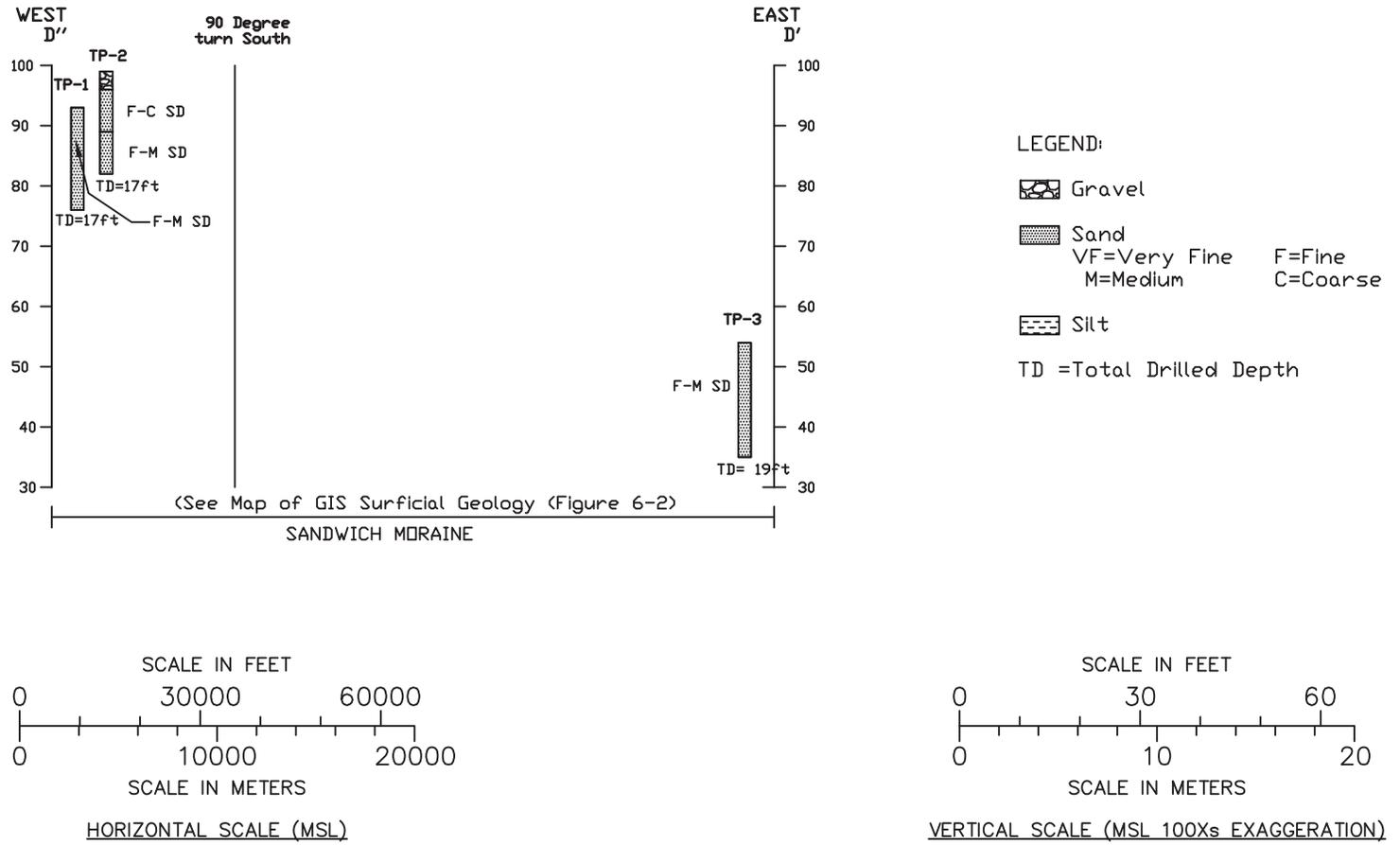


CAPE WIND ENERGY PROJECT
Surficial Geology Along Upland Cable Route
Figure .1.1-1

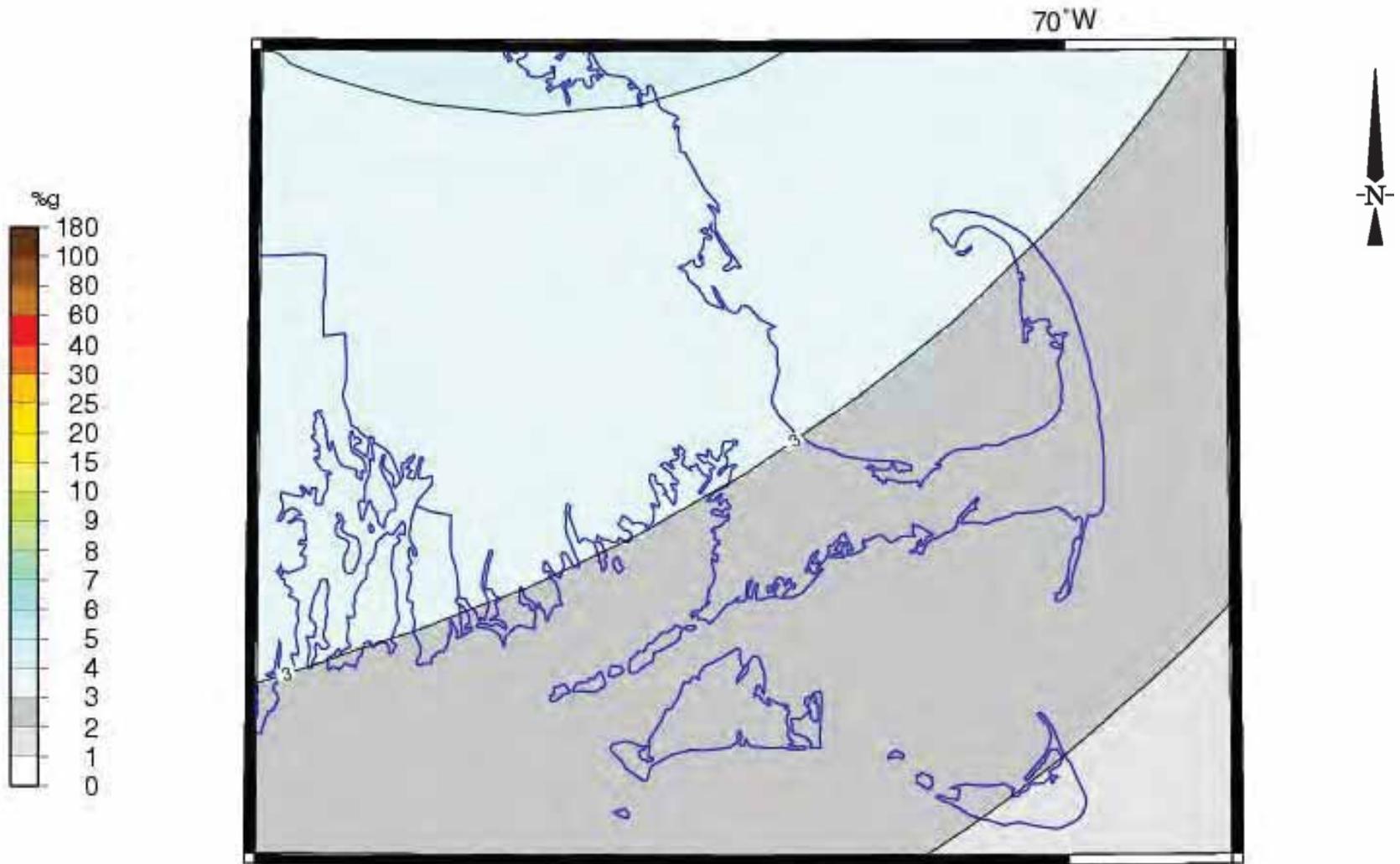


Source: Interpretation by ESS from GZA boring logs.

CAPE WIND ENERGY PROJECT
 Sout to Nort D-D Cro -Section Along On ore Cable Route
 Figure .1.1-1



CAPE WIND ENERGY PROJECT
 West to East D-D Cross-Section Along Onshore Cable Route
 Figure .1.1-1

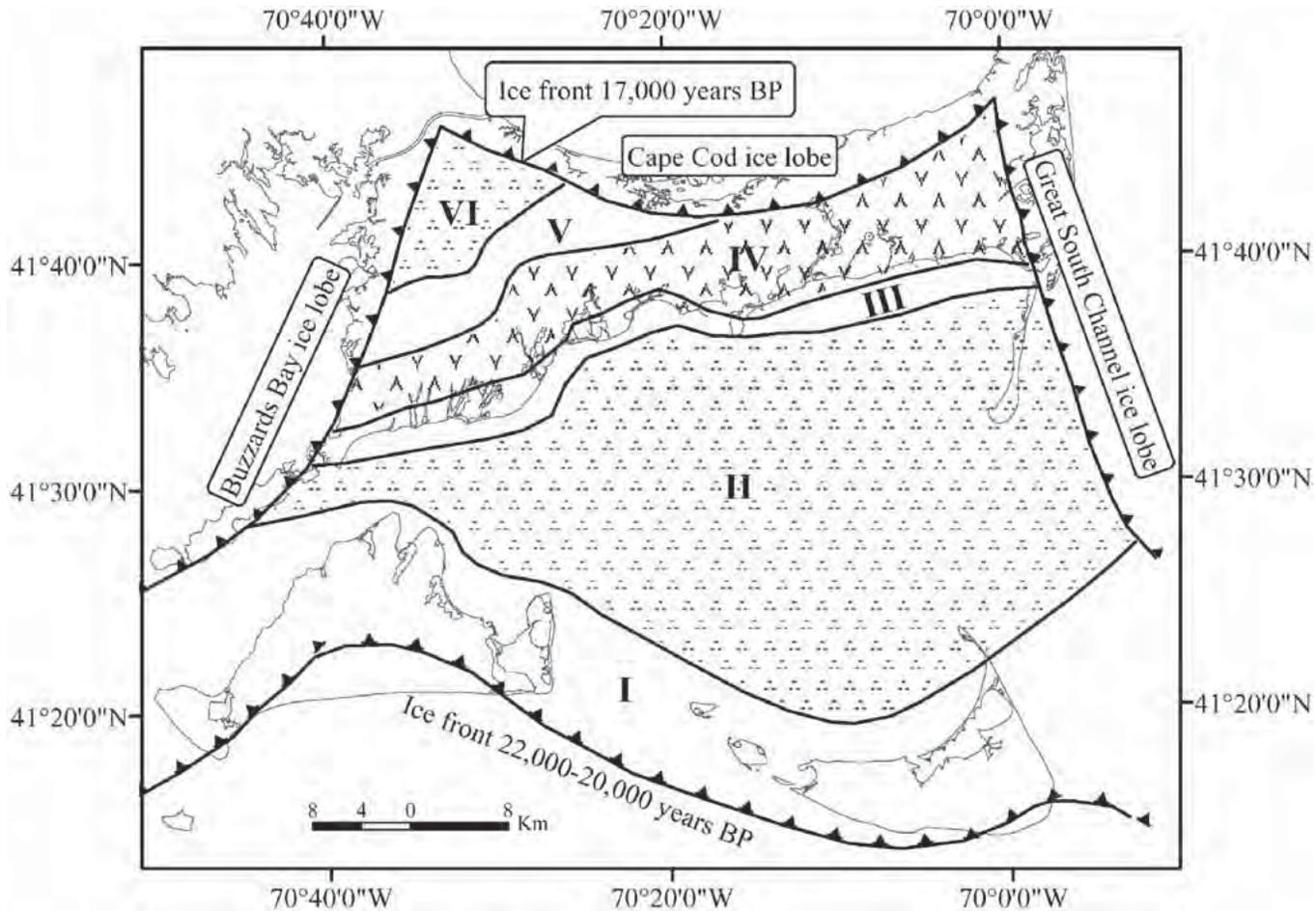


Peak Acceleration g for 1 Probability of Exceedance in 5 Year
 Site NE RP -C boundary

Source: USGS Earthquake Hazard Program Seismic Hazard Map

Scale: N/A

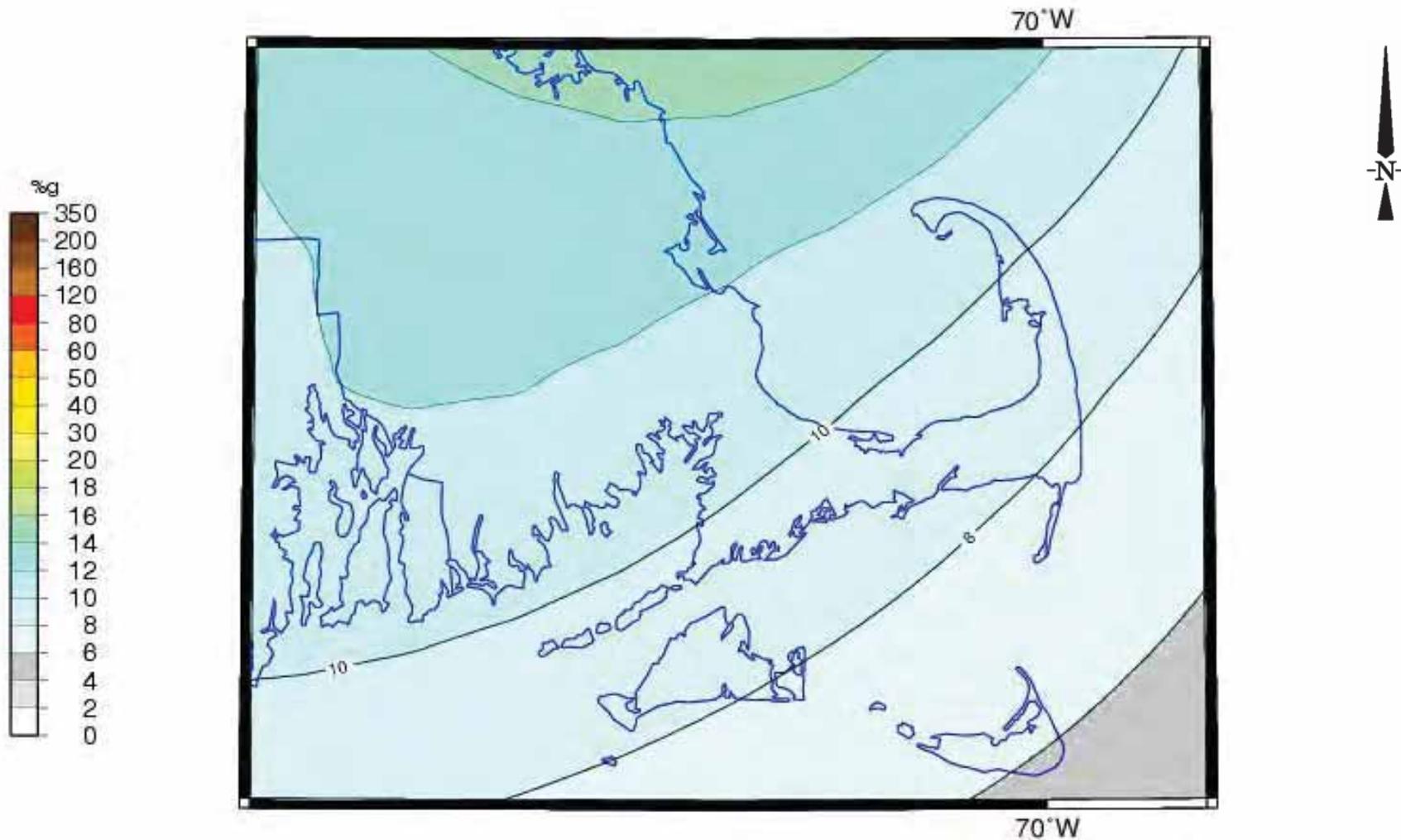
CAPE WIND ENERGY PROJECT
 USGS Seismic Hazard Map
 Peak Acceleration g for 1 Probability of Exceedance in 5 Year
 Figure .1.1-1



NOTE: Wi con in paleogeograp y during t e aurentide ice retreat. odified from ulligan and c upi 2 . I dam compo ed of Coa tal Plain ediment and Wi con in moraine II Wi con in proglacial lake Nantucket Sound ediment ranging from clay to fine sand and re t on ba ement and Illinoian proglacial lake ediment cut by subglacial alley . T e Wi con in lake may not a e been a e ten i e a indicated if ome of t e alley di ide ere abo e lake le el III dam con i ting of Wi con in ice-contact depo it and Illinoian proglacial lake ediment IV Wi con in proglacial Sout a in of lake Wampanoag andy ilt to ilty and re t on ba ement and Illinoian lake ediment V mi ed unit and to clay re t mainly on ba ement VI Wi con in proglacial Nort a in of lake Wampanoag delta and di tal ediment ranging from fine sand to clay re t on ba ement.

SO RCE Reprinted from *Marine Geology* Volume 22 Ela ar c upi Ann E. ulligan ate Plei tocene Stratigrap y of pper Cape Cod and Nantucket Sound a ac u ett . Page 3-11
 Copyrig t 2 itt permi ion from El e ier. Permi ion al o obtained from t e Nort ea tern Science Foundation ic originally publi ed t e figure in 2 in *Northeastern Geology and Environmental Science* Volume 2 3 by Ann E. ulligan Ela ar c upi in Wi con in Glacial lake on t e Sub urface of Cape Cod a ac u ett . Page 1 -2 1.

CAPE WIND ENERGY PROJECT
Glacial Paleogeograp y of t e Cape I land
Figure .1.1-1



Peak Acceleration g for 2 Probability of Exceedance in 5 Year

Site NE RP -C boundary

Source: USGS Earthquake Hazard Program Seismic Hazard Map

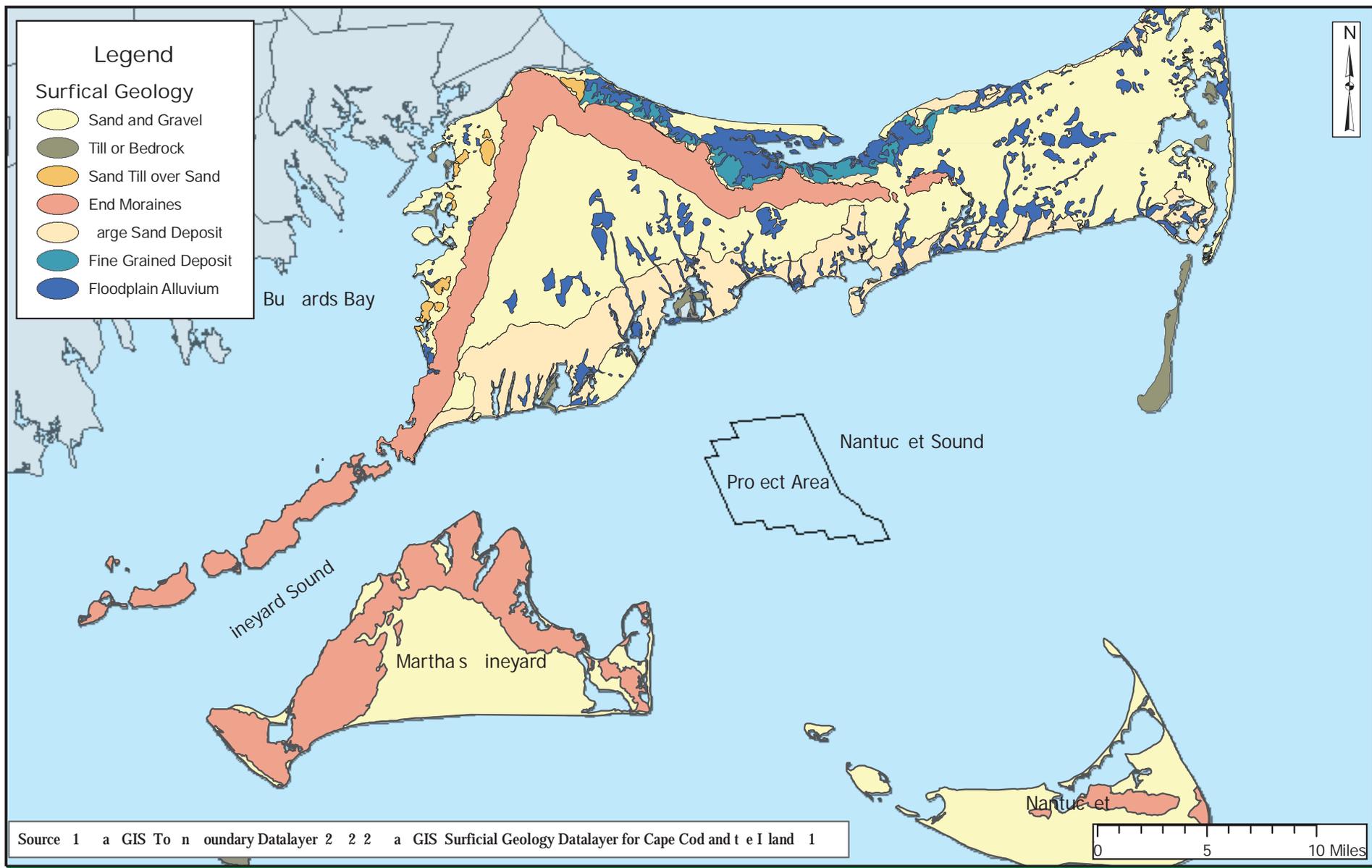
Scale: N/A

CAPE WIND ENERGY PROJECT

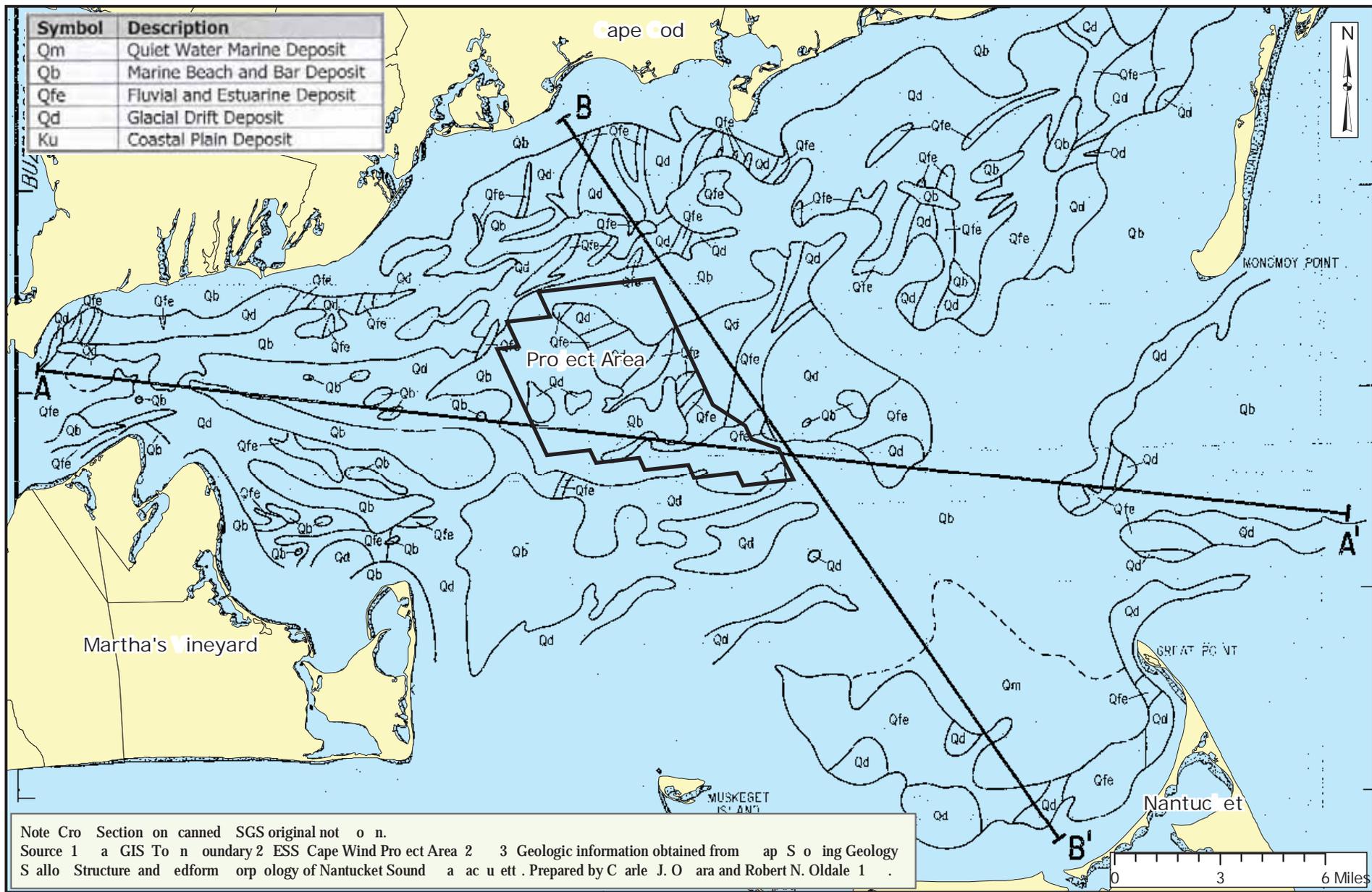
USGS Seismic Hazard Map

Peak Acceleration g for 2 Probability of Exceedance in 5 Year

Figure .1.1-2

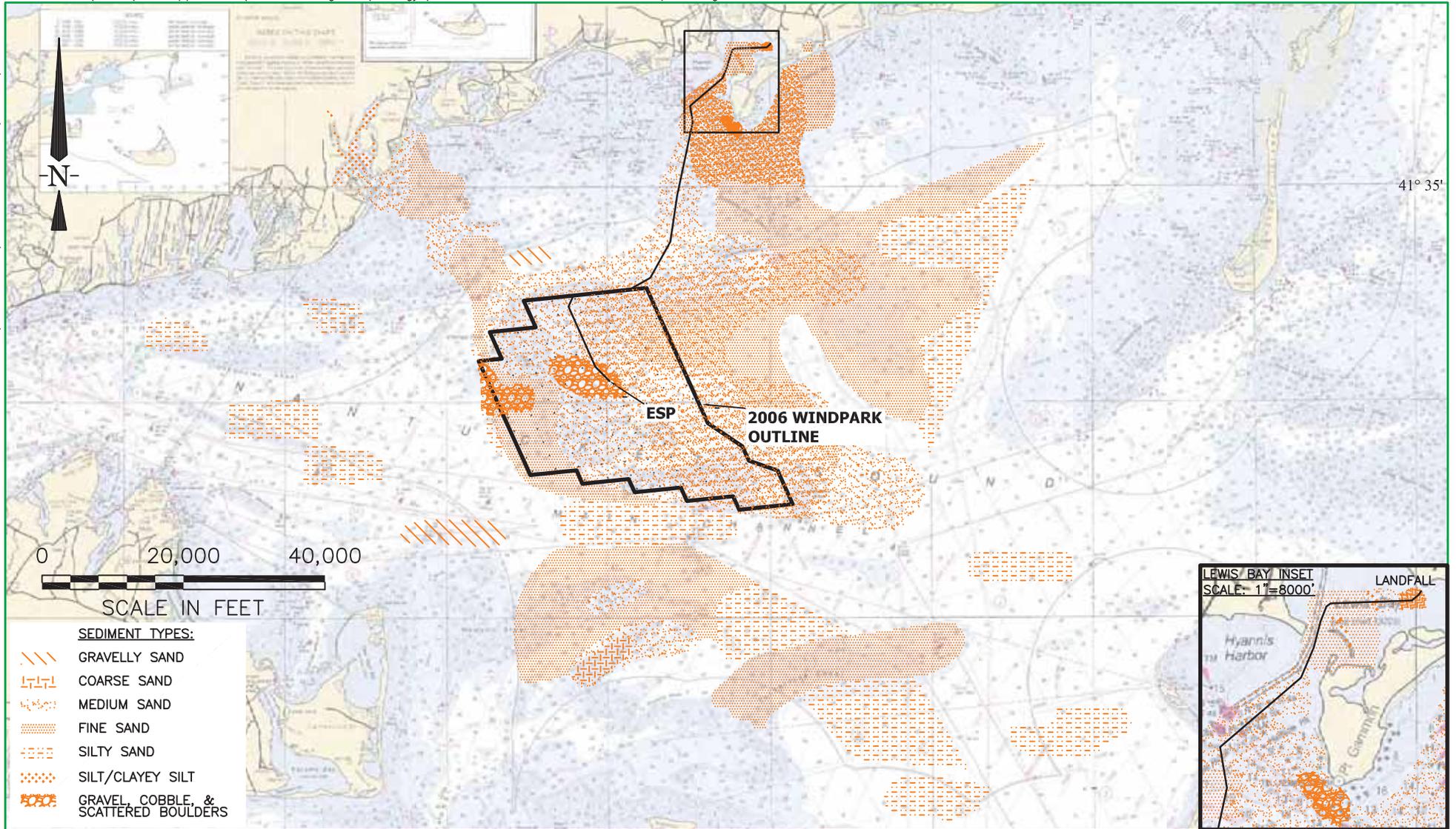


CAPE WIND ENERGY PROJECT
Regional Surficial Geology of Cape Cod and the Isthmus of Nantucket
Figure .1.1-2

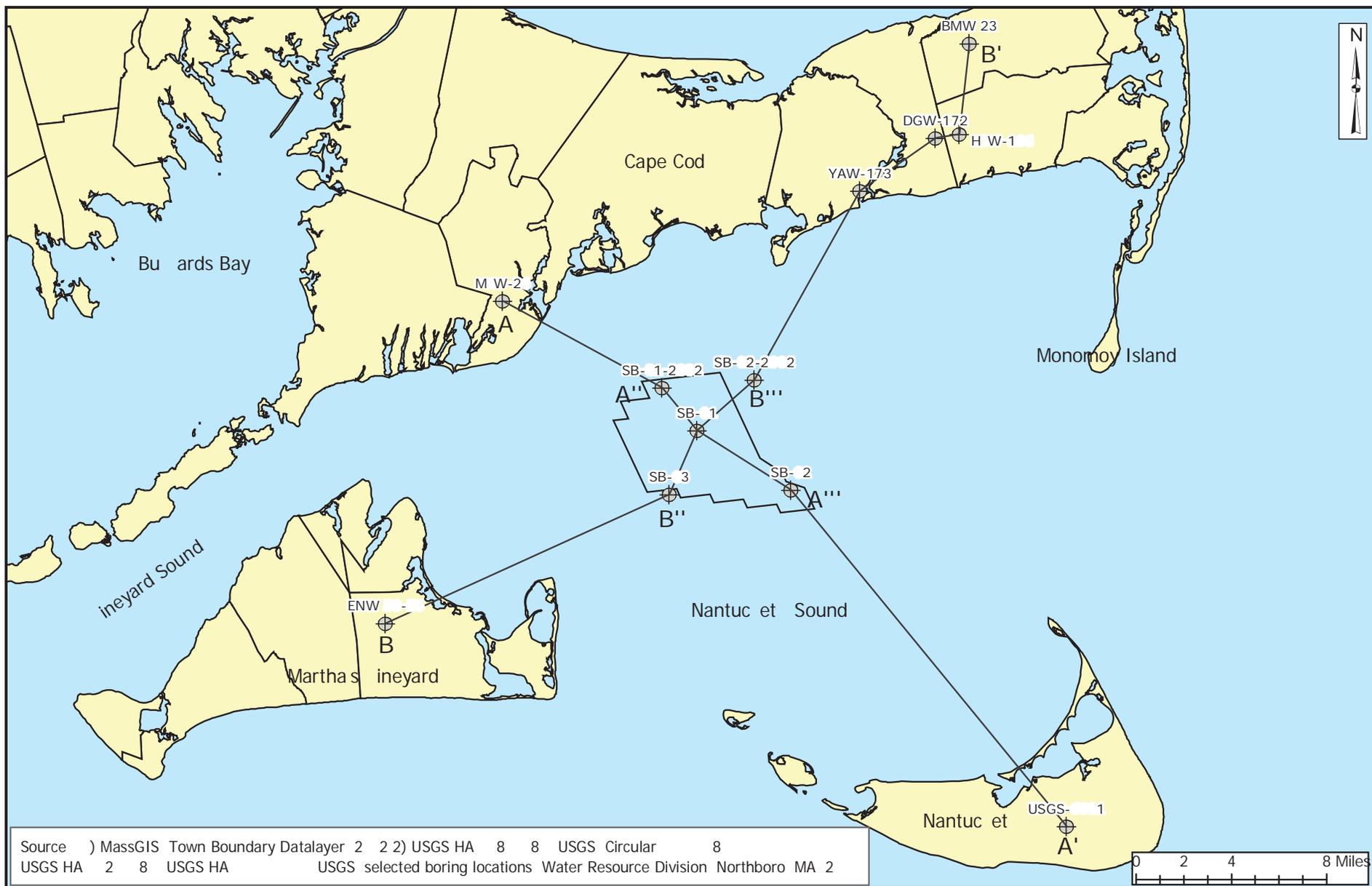


CAPE WIND ENERGY PROJECT
Regional Surficial Geology of Nantucket Sound
Figure .1.1-3

IMAGE: H:\Charts\Nad83-ma-isl-ft\MRSID-test\13229-3.sid
 IMAGE: H:\Charts\Nad83-ma-isl-ft\MRSID-test\13237-test.sid

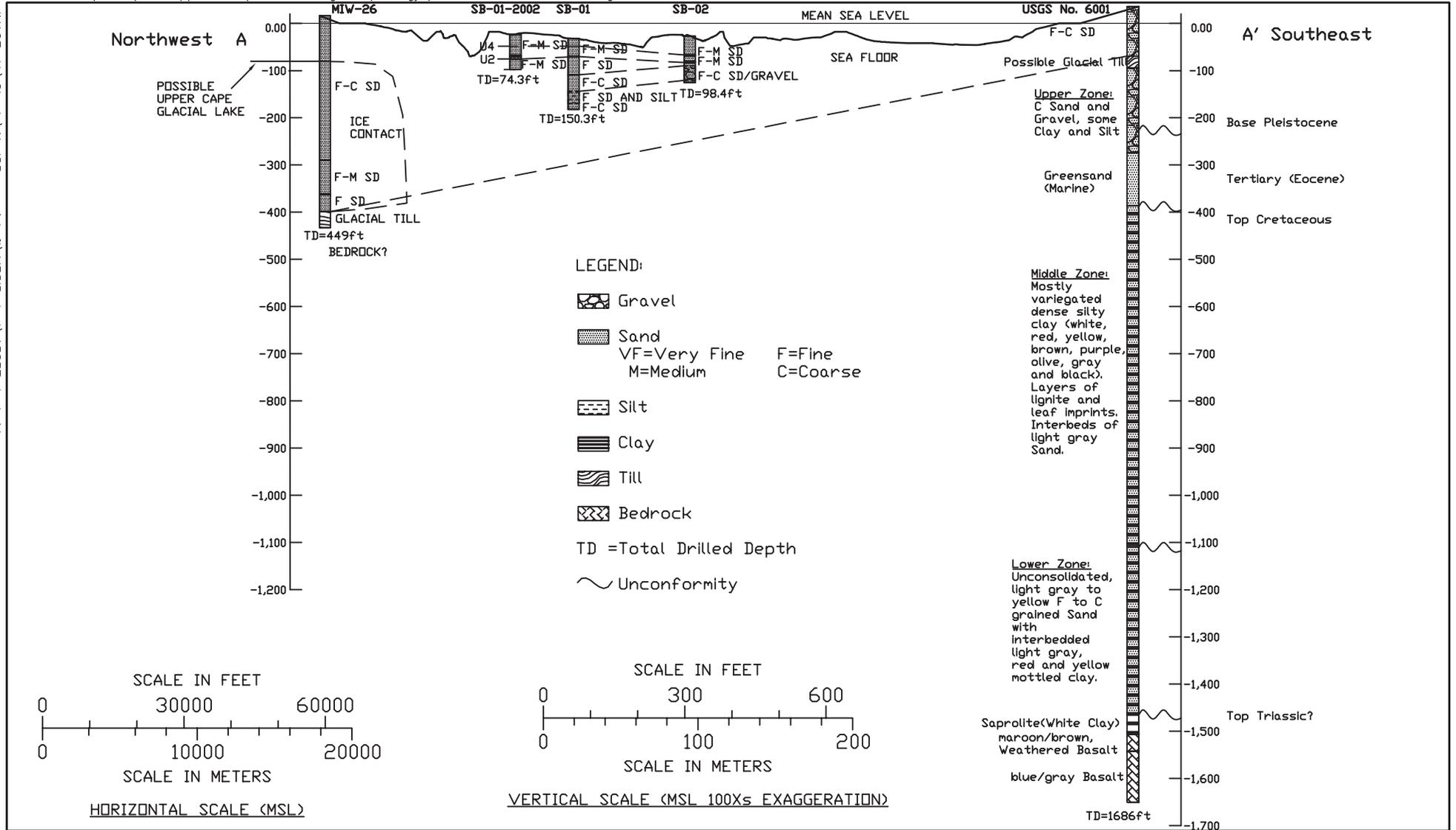


CAPE WIND ENERGY PROJECT
 Surface Sediment Type
 Cape Wind Project Area and Vicinity
 Figure .1.1-



CAPE WIND ENERGY PROJECT
 Plan View of Cro -Section A-A and -
 Detailed A -A and -
 Figure .1.1-5

IMAGE: H:\Charts\Nad83-ma-isi-ft\MRSID-test\13237-test.sid

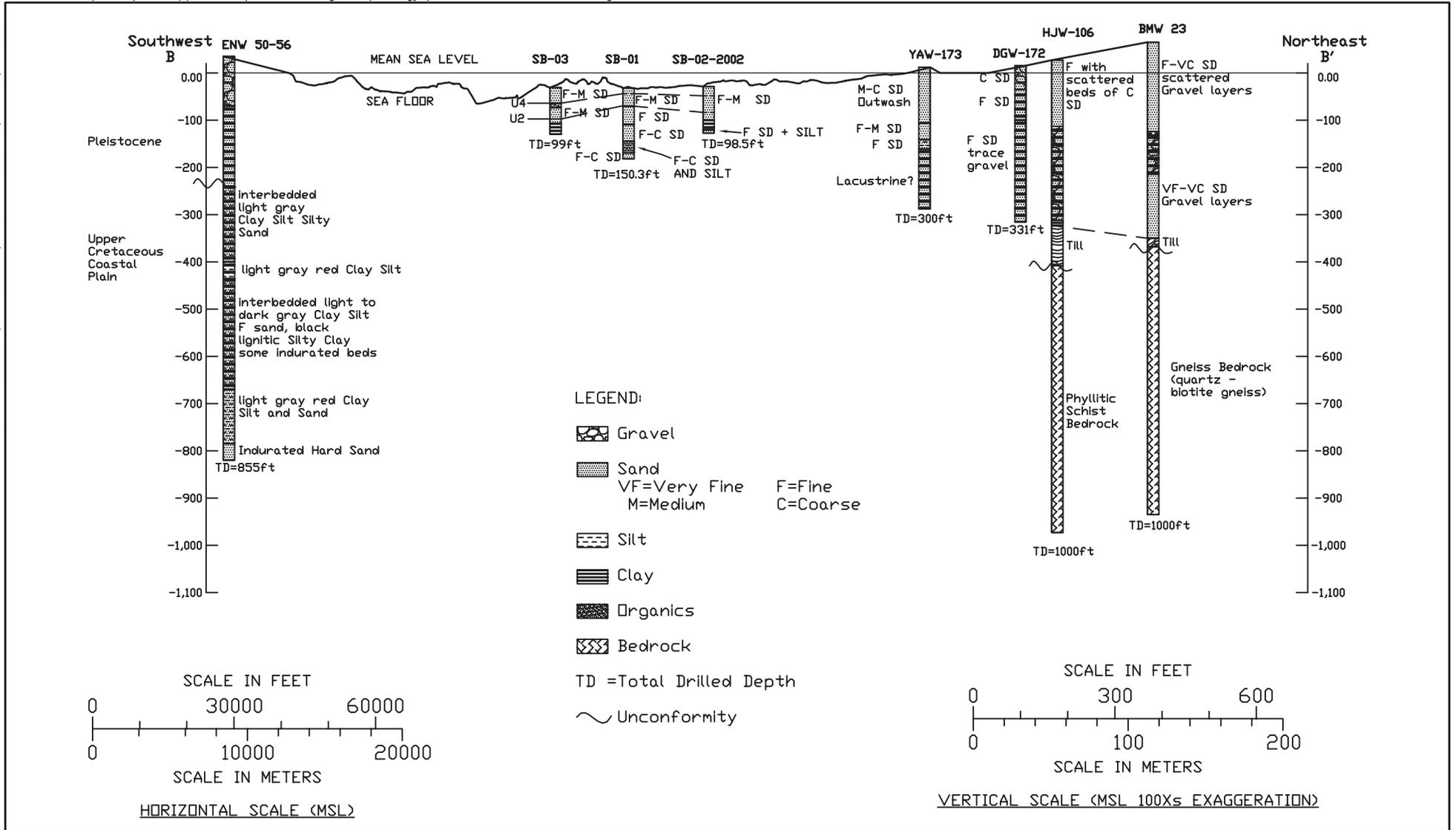


Source: MIW-26 interpretation from USGS HA-741, 1997
 USGS No. 6001 interpretation from USGS Circular 773, 1978
 SB borings interpreted by ESS from GZA boring logs

A-55

CAPE WIND ENERGY PROJECT
 Regional Cross-Section A-A from
 Onshore Cape Wind Energy Project to Nantucket
 Figure .1.1-

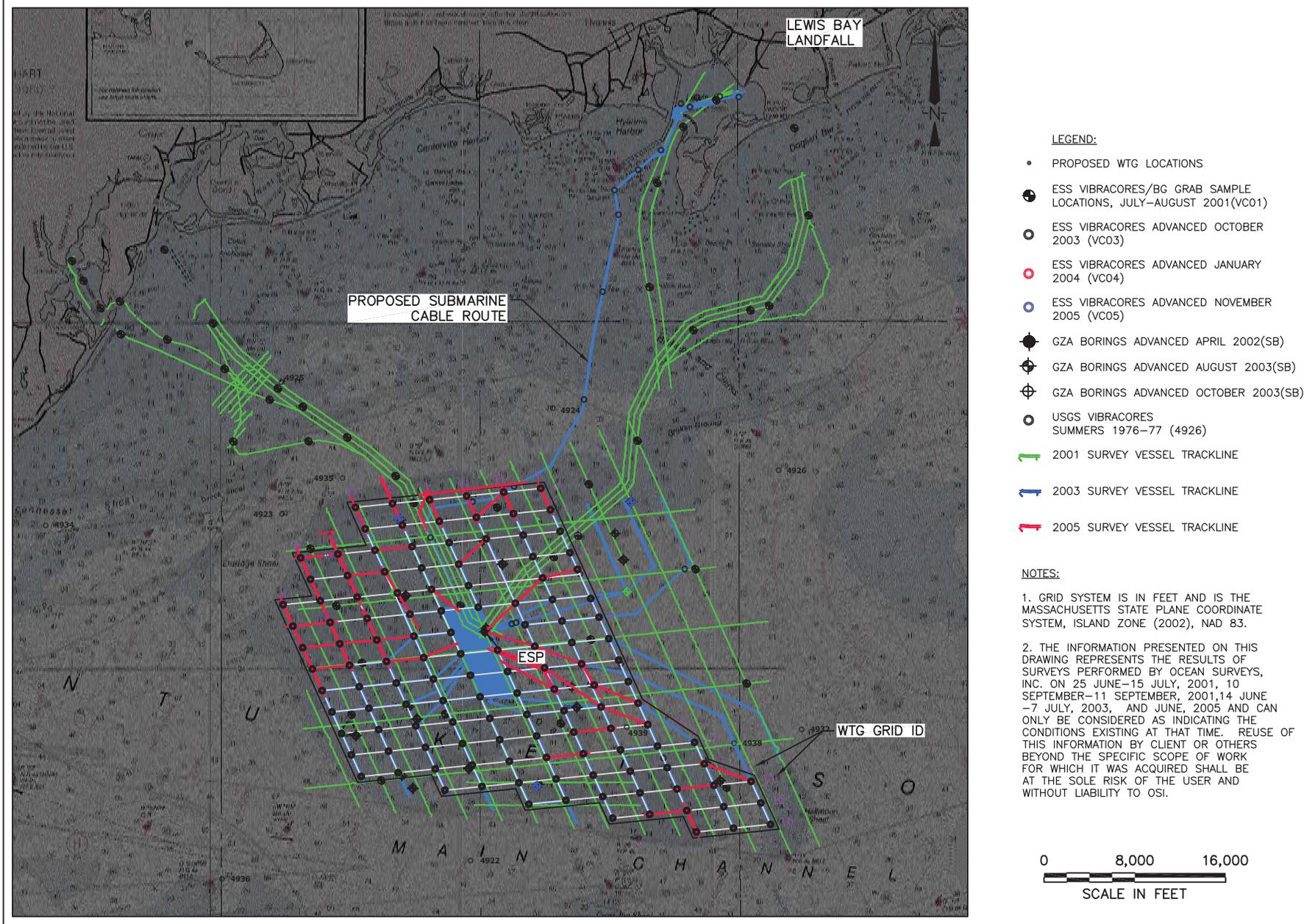
IMAGE: H:\Charts\Nad83-ma-isi-ft\MRSID-test\13237-test.sid



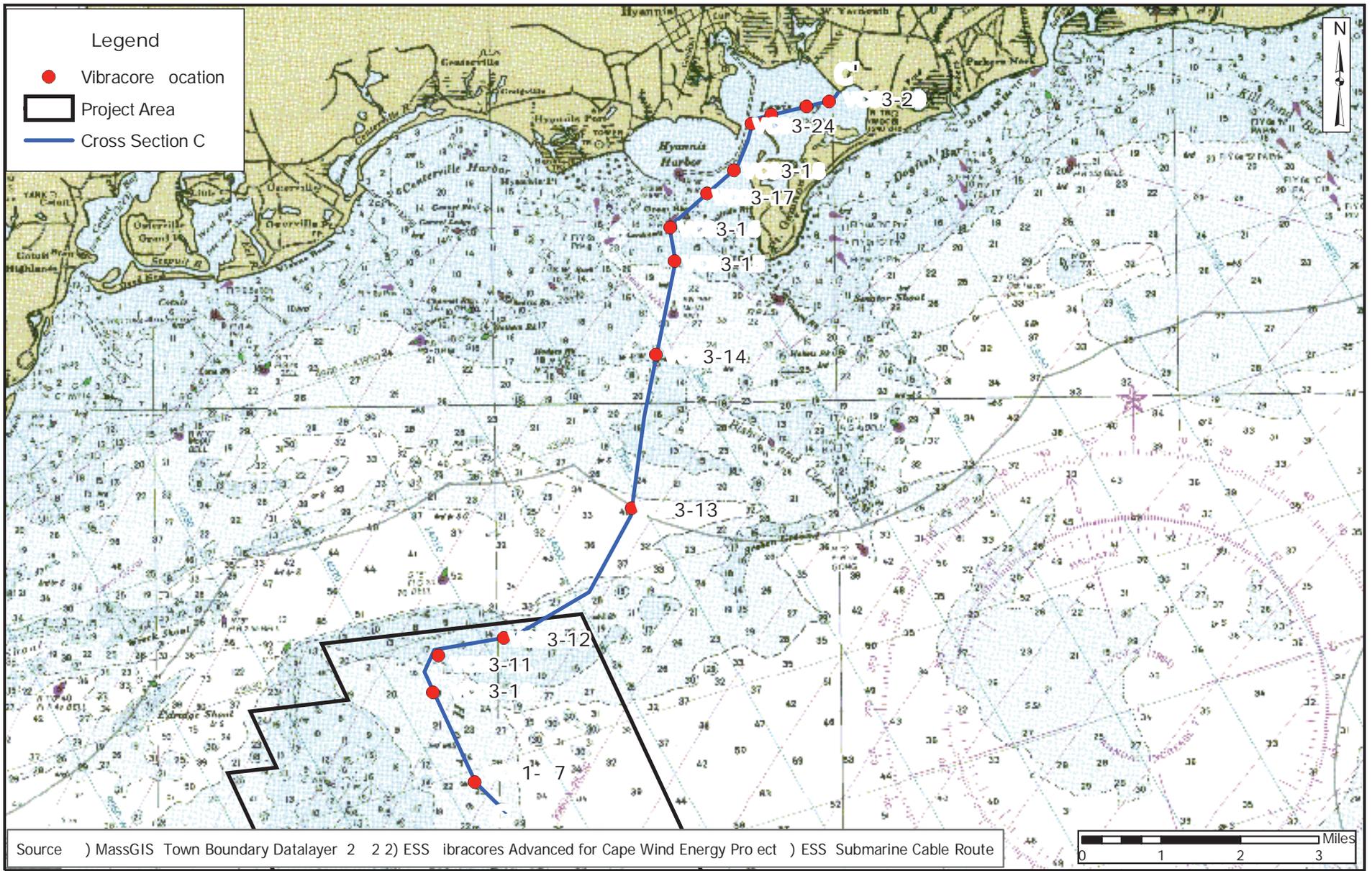
Source: ENW 50-56 interpretation from USGS HA-618, 1980
 BMW 23 and HJW-106 interpretations from USGS HA-692, 1997 and USGS field boring logs.
 YAW-173 and DGW-172 interpretations by ESS from USGS field boring logs.
 SB borings interpretation by ESS from GZA boring logs.

A-56

CAPE WIND ENERGY PROJECT
Regional Cross-Section - from
Onshore to Vineyard Shoals
Figure .1.1-

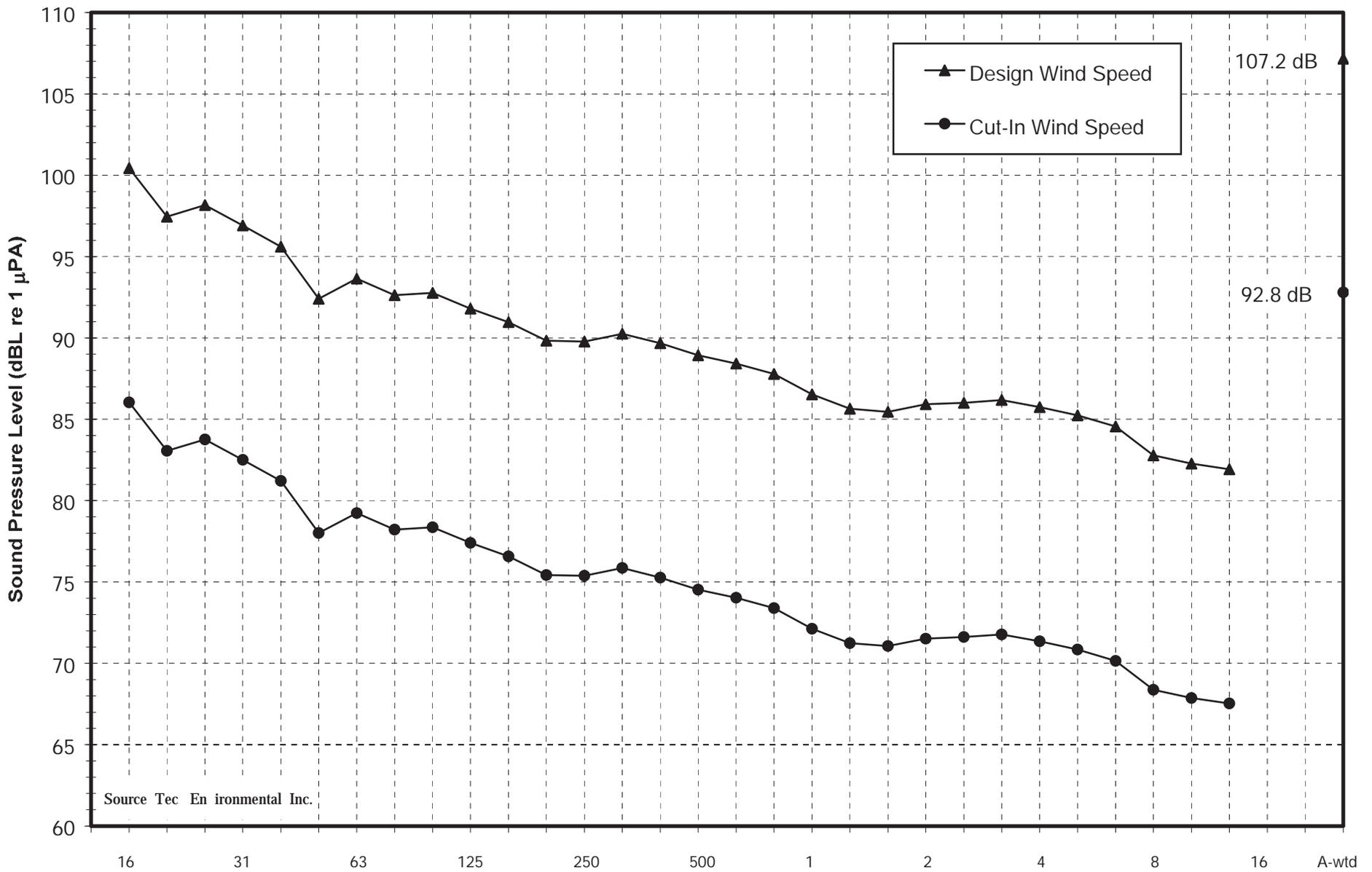


CAPE WIND ENERGY PROJECT
 Marine Geophysical and Geological Field Program - Figure 2.5
 Figure 1.1-



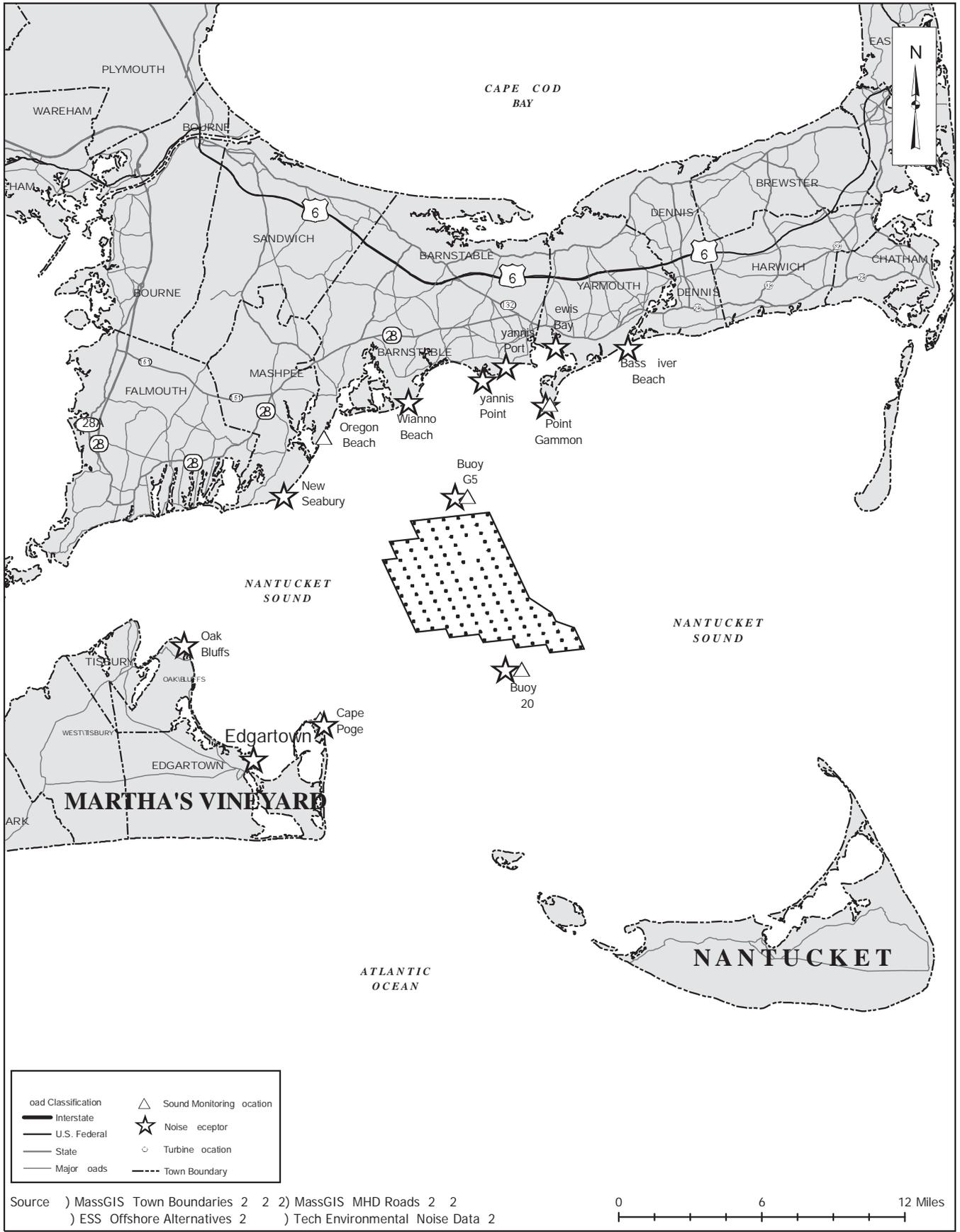
A-58

CAPE WIND ENERGY PROJECT
 Plan View of Cross-Section C-C Along 115 kV Cable Route to Landfall
 Figure .1.1-

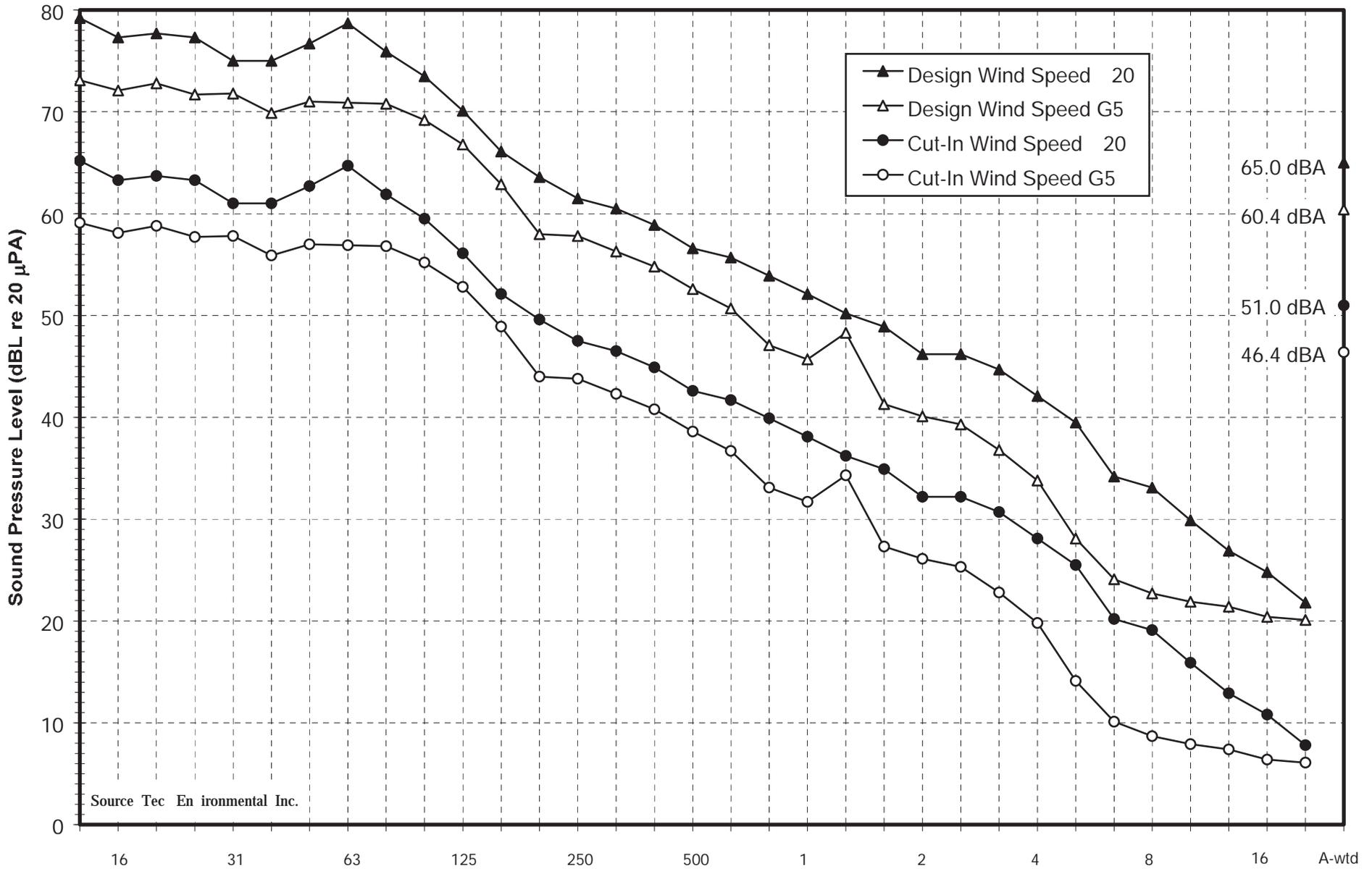


CAPE WIND ENERGY PROJECT
 Frequency Spectrum of the Ambient Underwater Sound Level
 at buoy R2 for the WTG Cut-In and Design Wind Speed

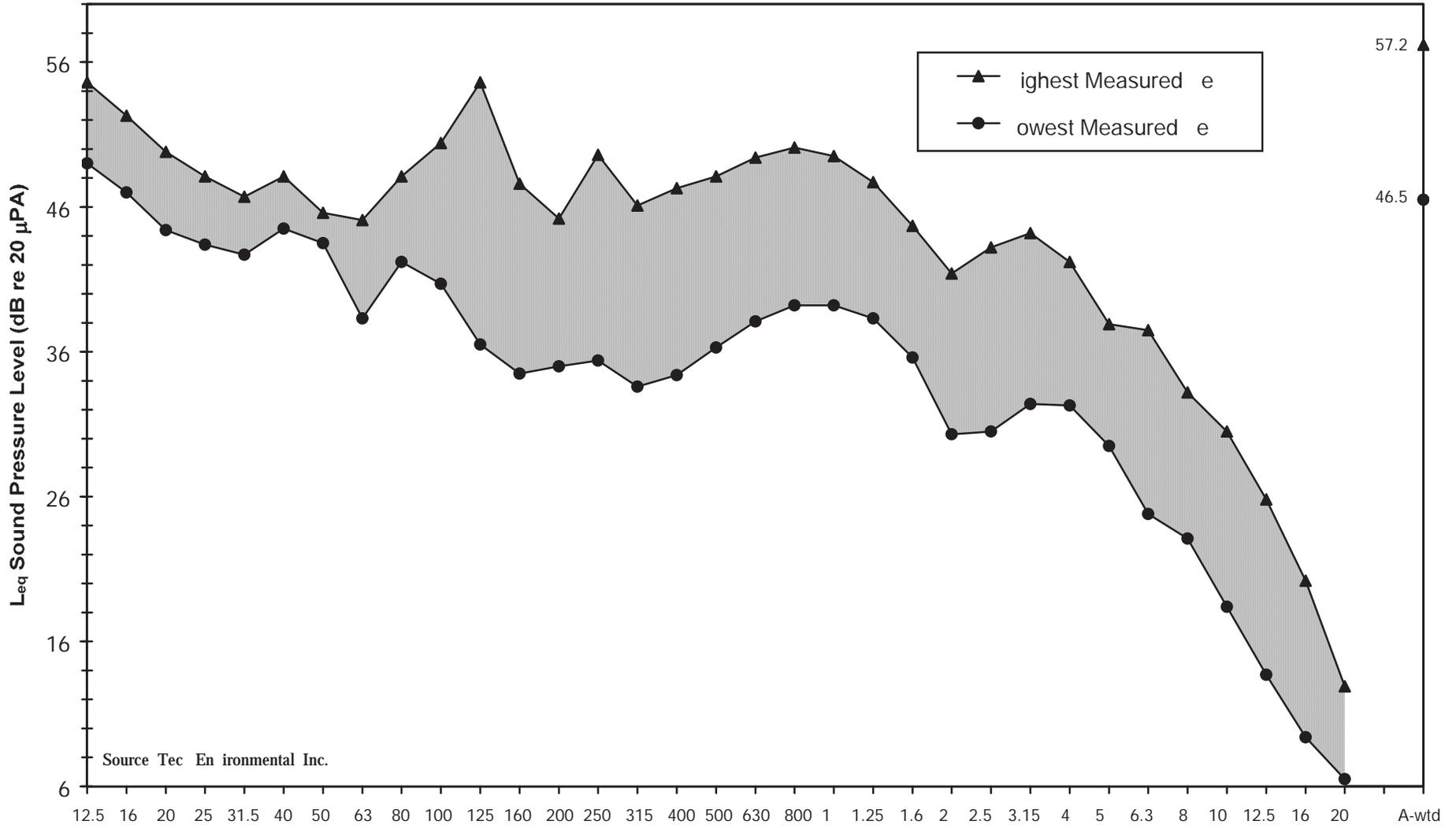
Figure .1.2-12



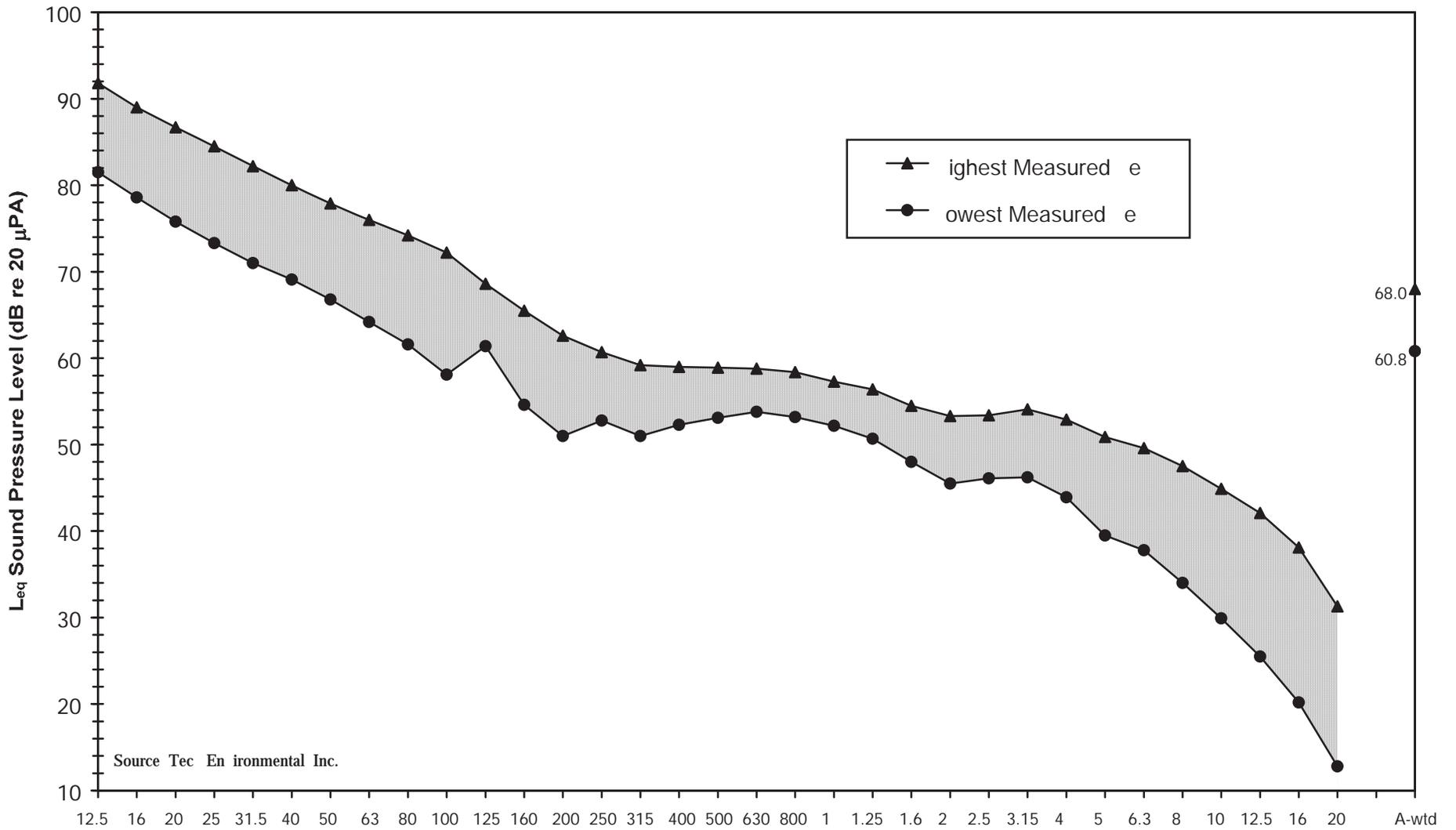
CAPE WIND ENERGY PROJECT
Noise Receptor and Sound Monitoring Location
Surrounding the Proposed Alternative
Figure .1.2-1



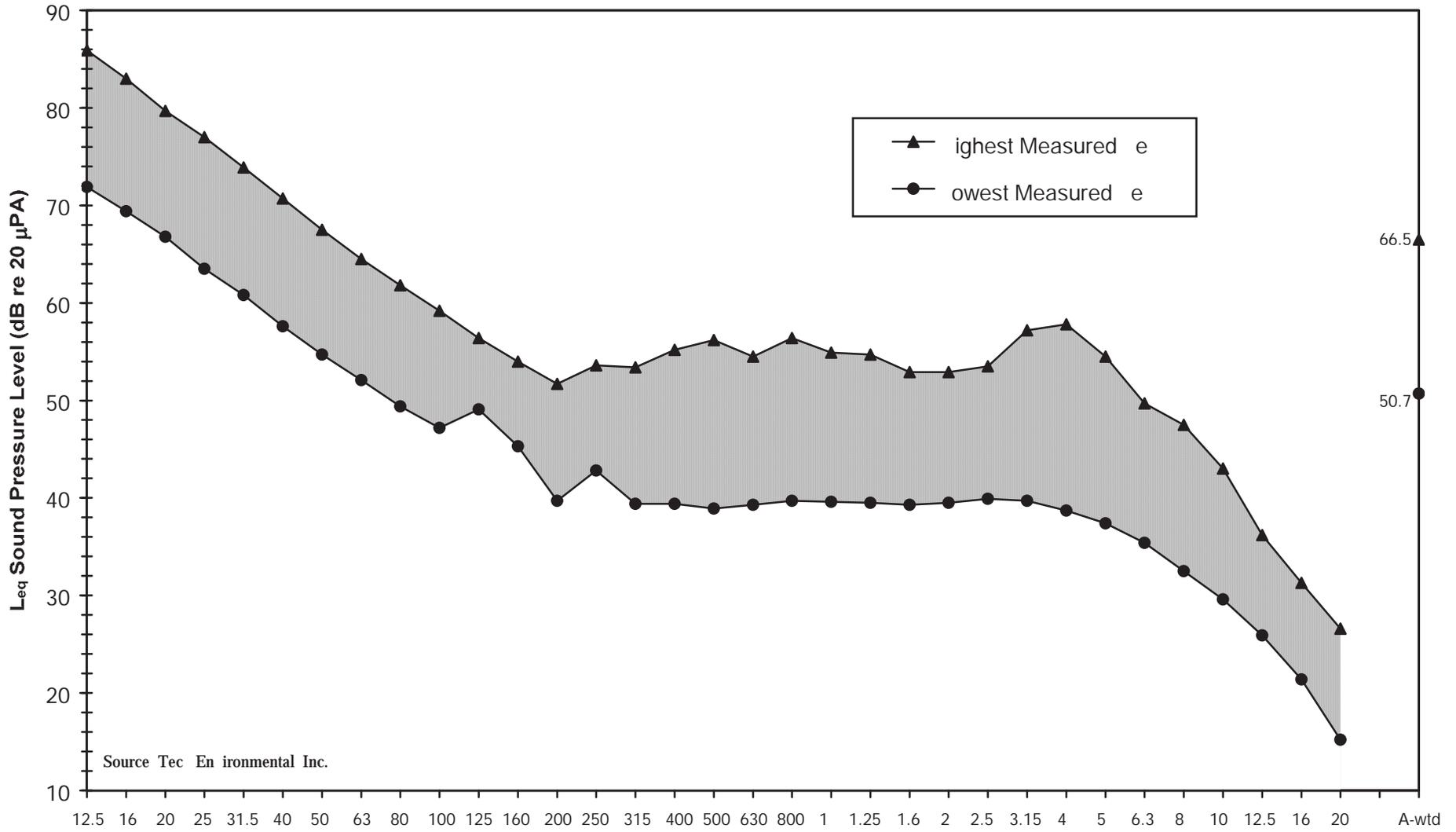
CAPE WIND ENERGY PROJECT
 Frequency Spectrum of the Ambient Above Water Sound Level
 at T-10 Off-Shore Location for the WTG Cut-In and Design Wind Speed
 Figure .1.2-2



CAPE WIND ENERGY PROJECT
 aeline Sound eel ea ured at Point Gammon No ember 15-22 2 2
 for t e Cut-In Wind Speed mp ub eig t
 Figure .1.2-3



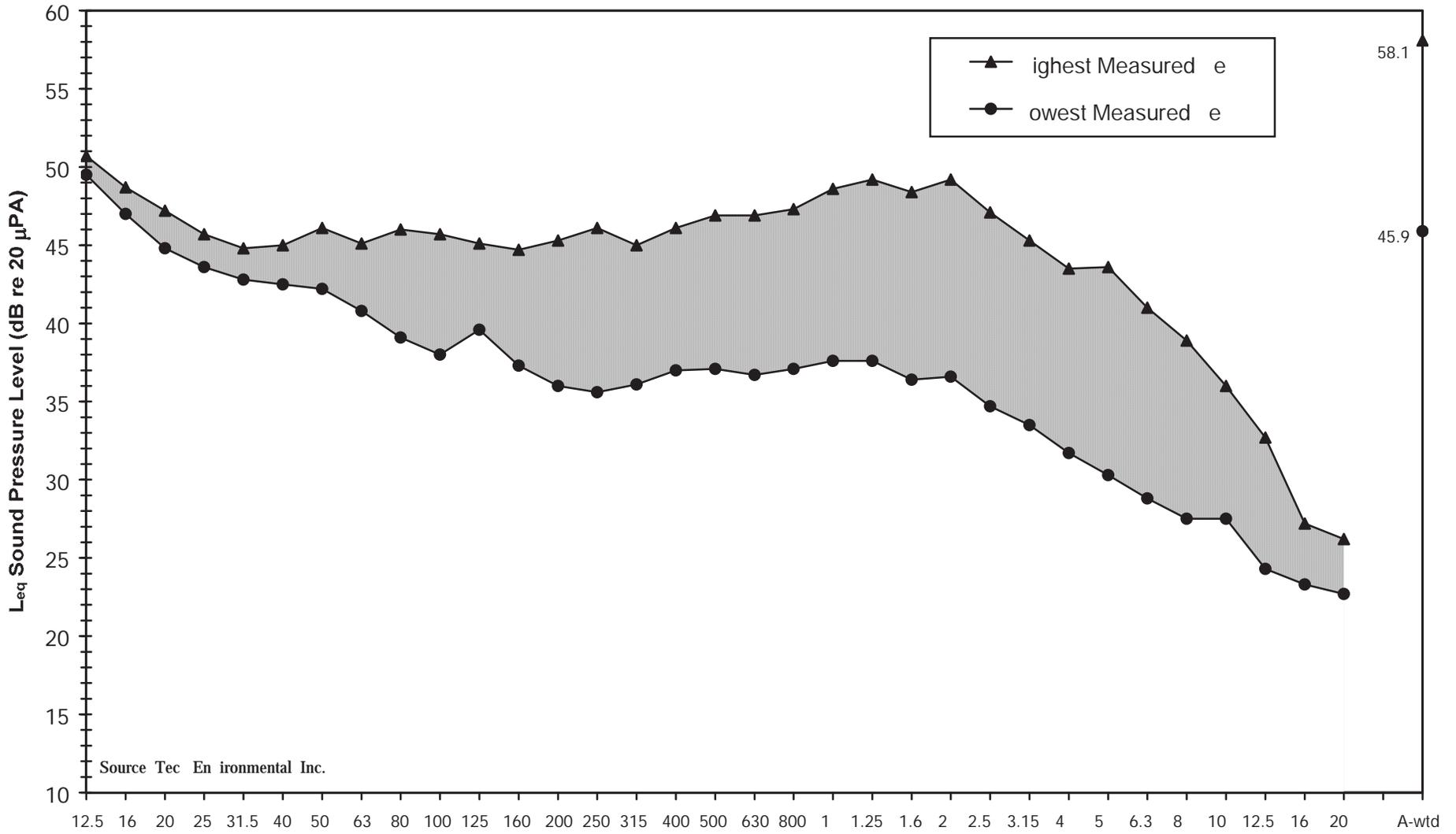
CAPE WIND ENERGY PROJECT
 aeline Sound eel eaured at Point Gammon No ember 15-22 2 2
 for t e De ign Wind Speed 3 mp ub eig t and On-S ore Wind
 Figure .1.2-



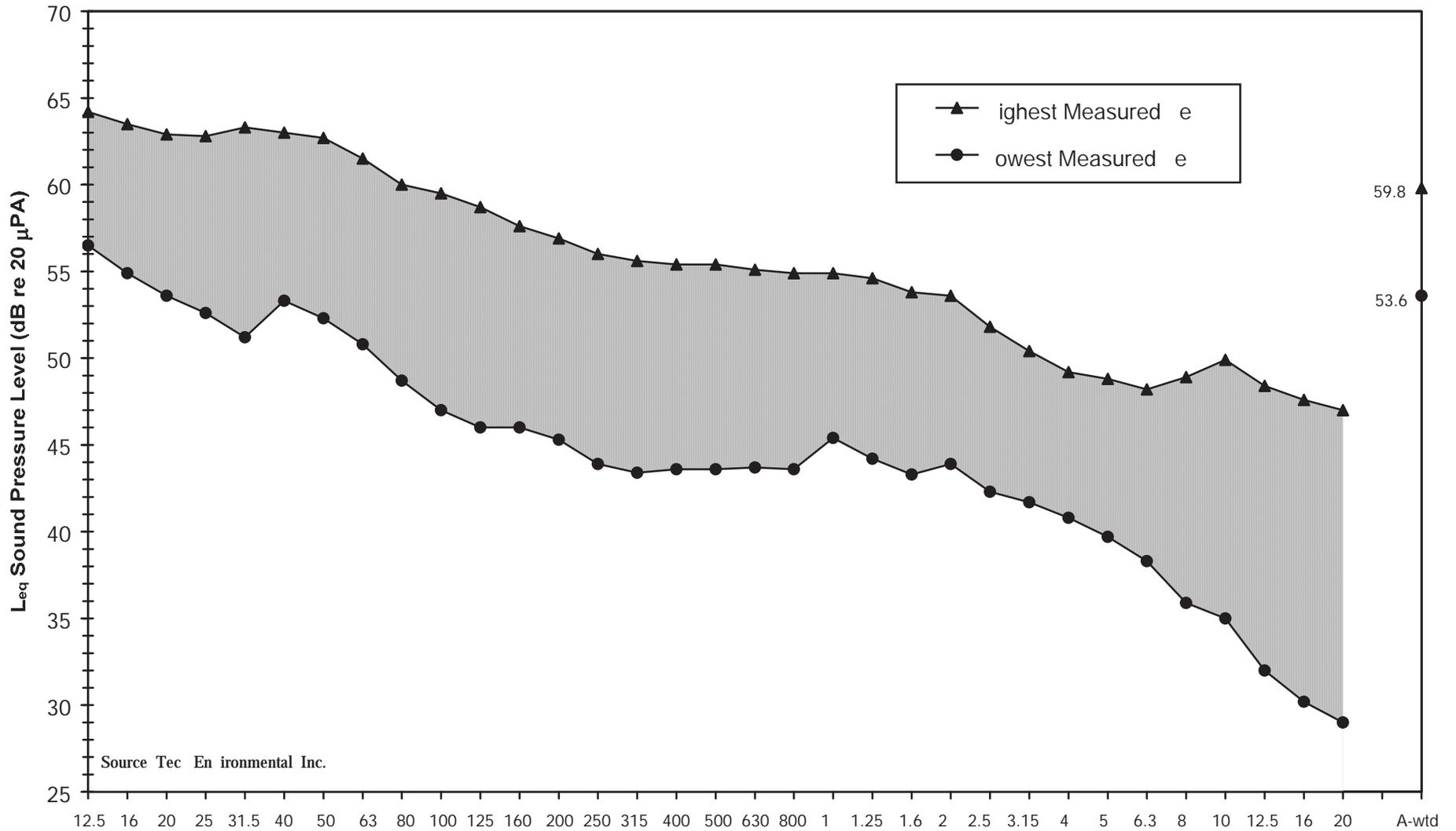
CAPE WIND ENERGY PROJECT

Baseline Sound Level Measured at Point Gammon November 15-22, 2012
 for the Design Wind Speed 3 mph Sub-Height and Off-Score Wind

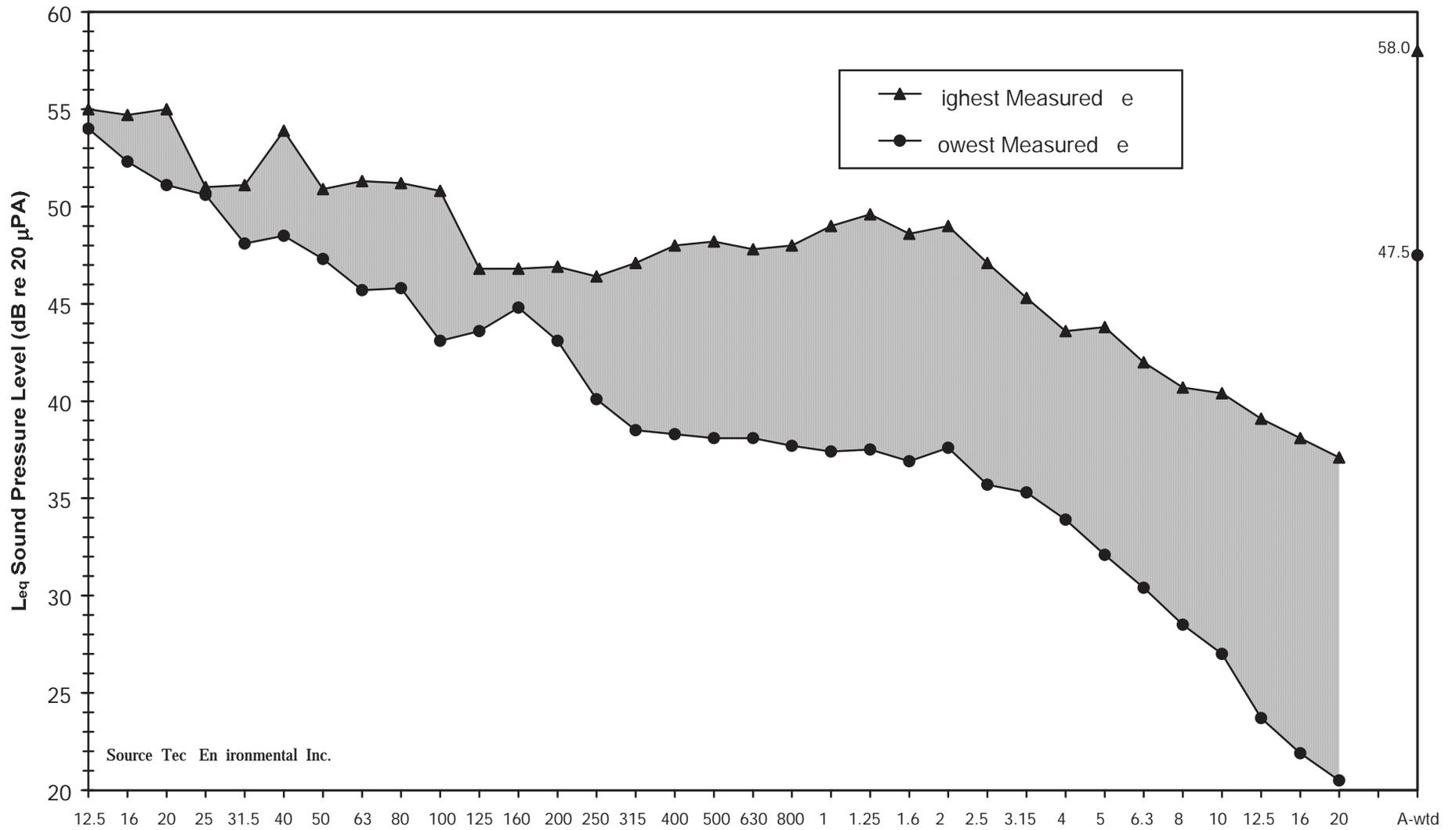
Figure .1.2-5



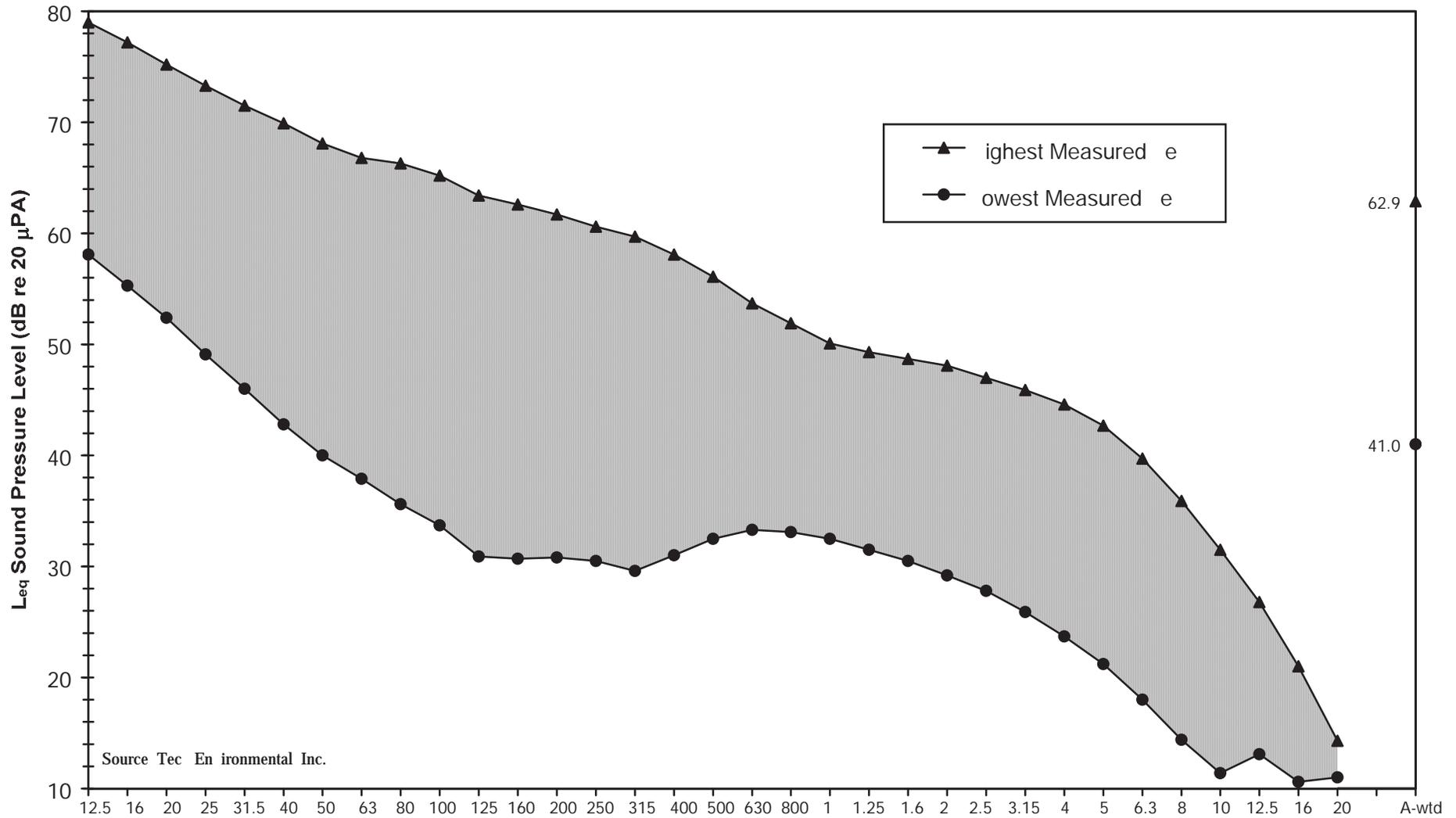
CAPE WIND ENERGY PROJECT
 a eline Sound e el ea ured at Oregon eac No ember 1 -1 2 2
 for t e Cut-In Wind Speed mp ub eig t
 Figure .1.2-



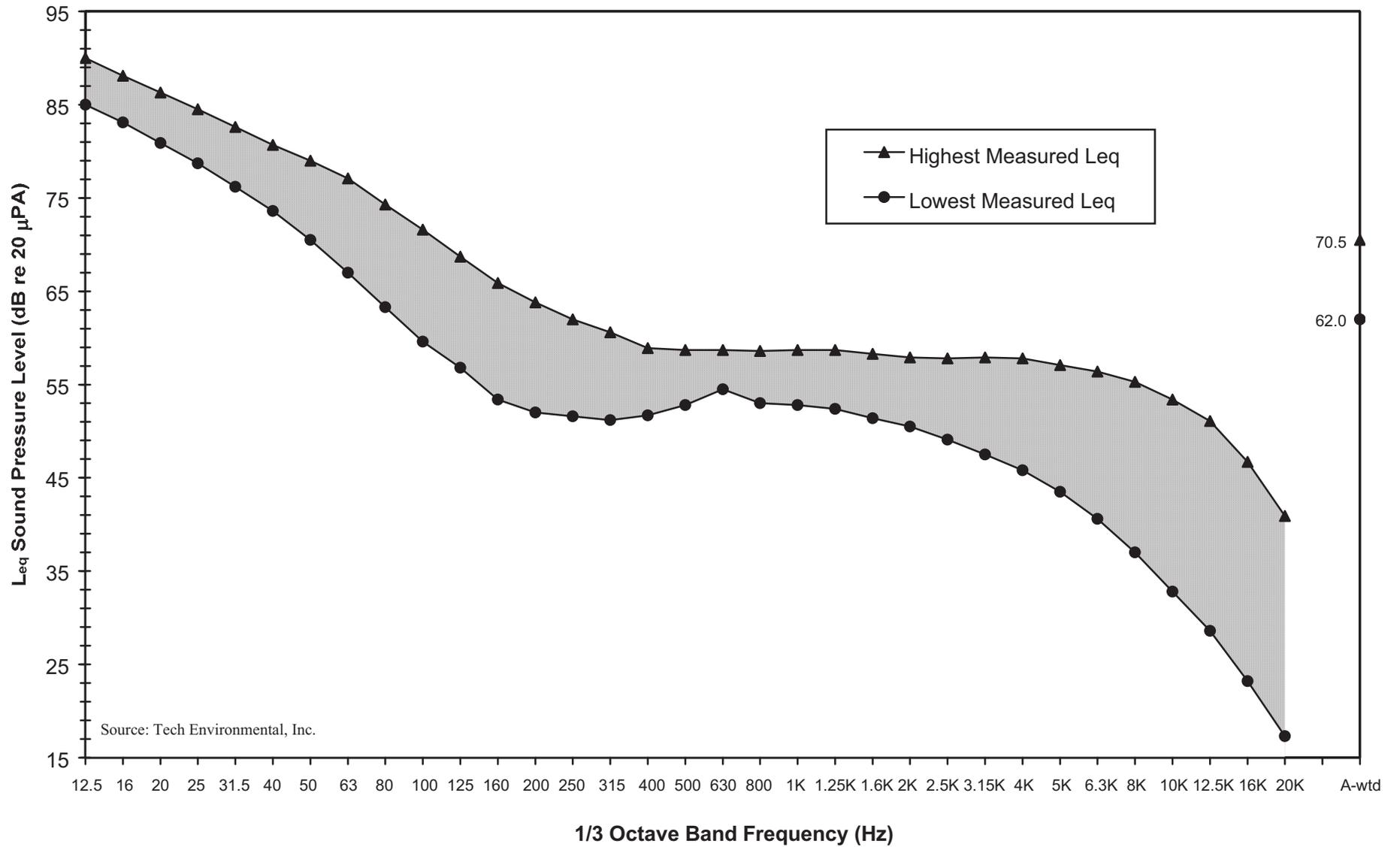
CAPE WIND ENERGY PROJECT
 aeline Sound eel ea ured at Oregon eac No ember 1 -1 2 2
 for t e De ign Wind Speed 3 mp ub eig t and On-S ore Wind
 Figure .1.2-



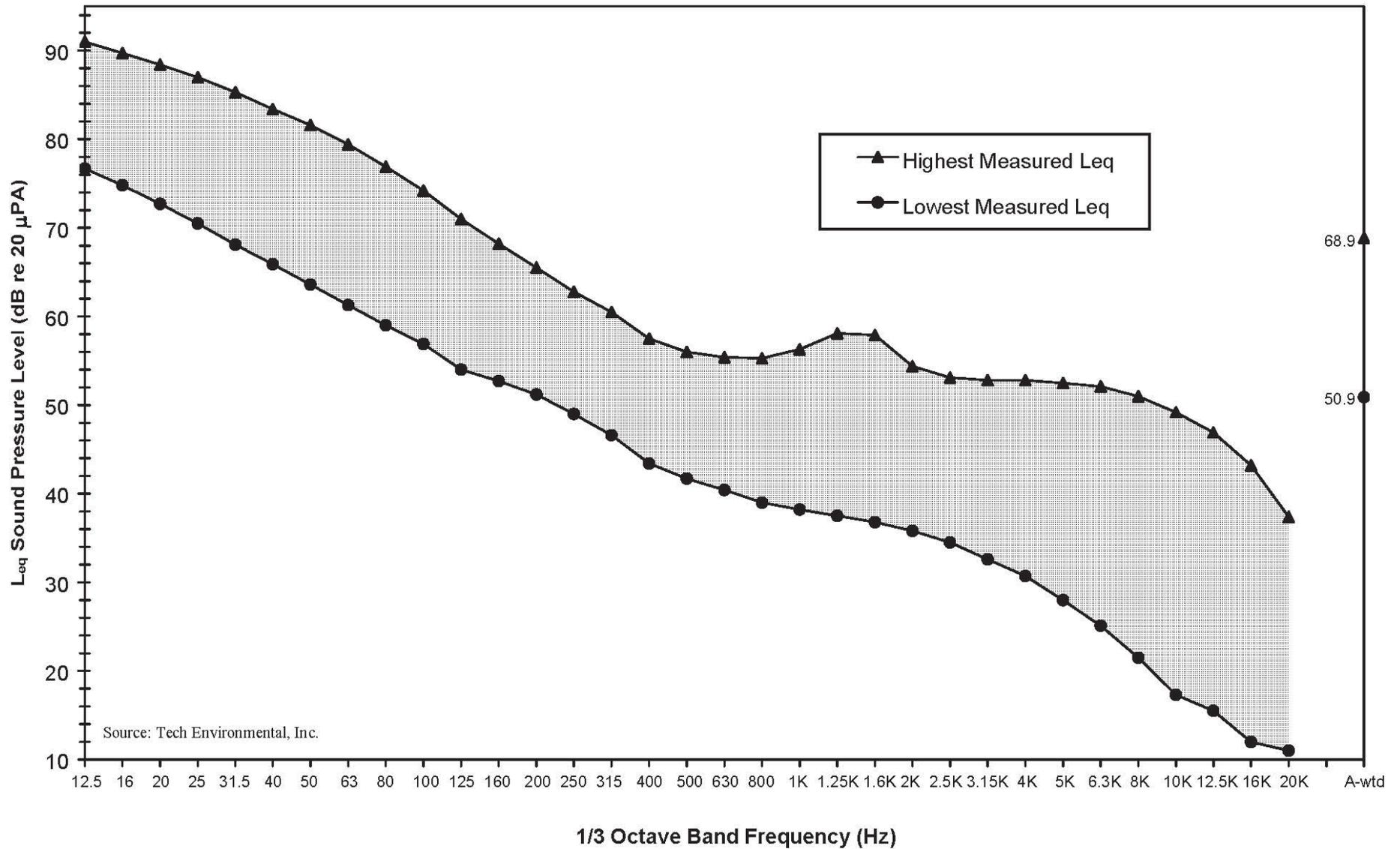
CAPE WIND ENERGY PROJECT
 aeline Sound e el ea ured at Oregon eac No ember 1 -1 2 2
 for t e De ign Wind Speed 3 mp ub eig t and Off-S ore Wind
 Figure .1.2-



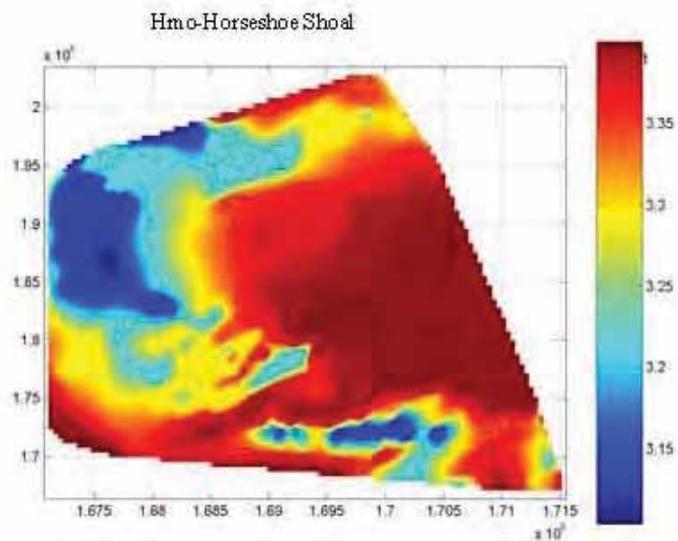
CAPE WIND ENERGY PROJECT
 aeline Sound eel ea ured at Cape Poge No .25 - Dec.3 2 2
 for t e Cut-In Wind Speed mp ub eig t
 Figure .1.2-



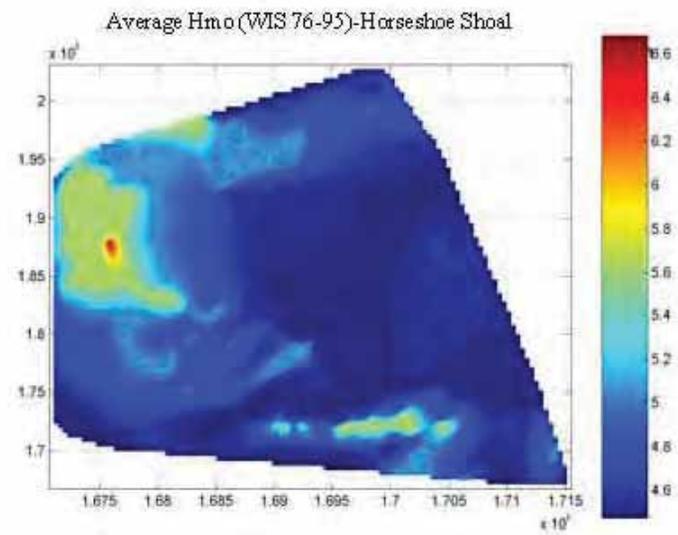
CAPE WIND ENERGY PROJECT
 Baseline Sound Levels Measured at Cape Poge (Nov. 25 - Dec. 3, 2002)
 for the Design Wind Speed (30 mph @ Hub Height) and On-Shore Winds
 Figure 4.1.2-10



CAPE WIND ENERGY PROJECT
 a eline ound e el ea ured at Cape Poge No . 25 - Dec. 3 2 2
 for t e De ign Wind Speed 3 mp ub eig t and Off-S ore Wind
 Figure .1.2-11



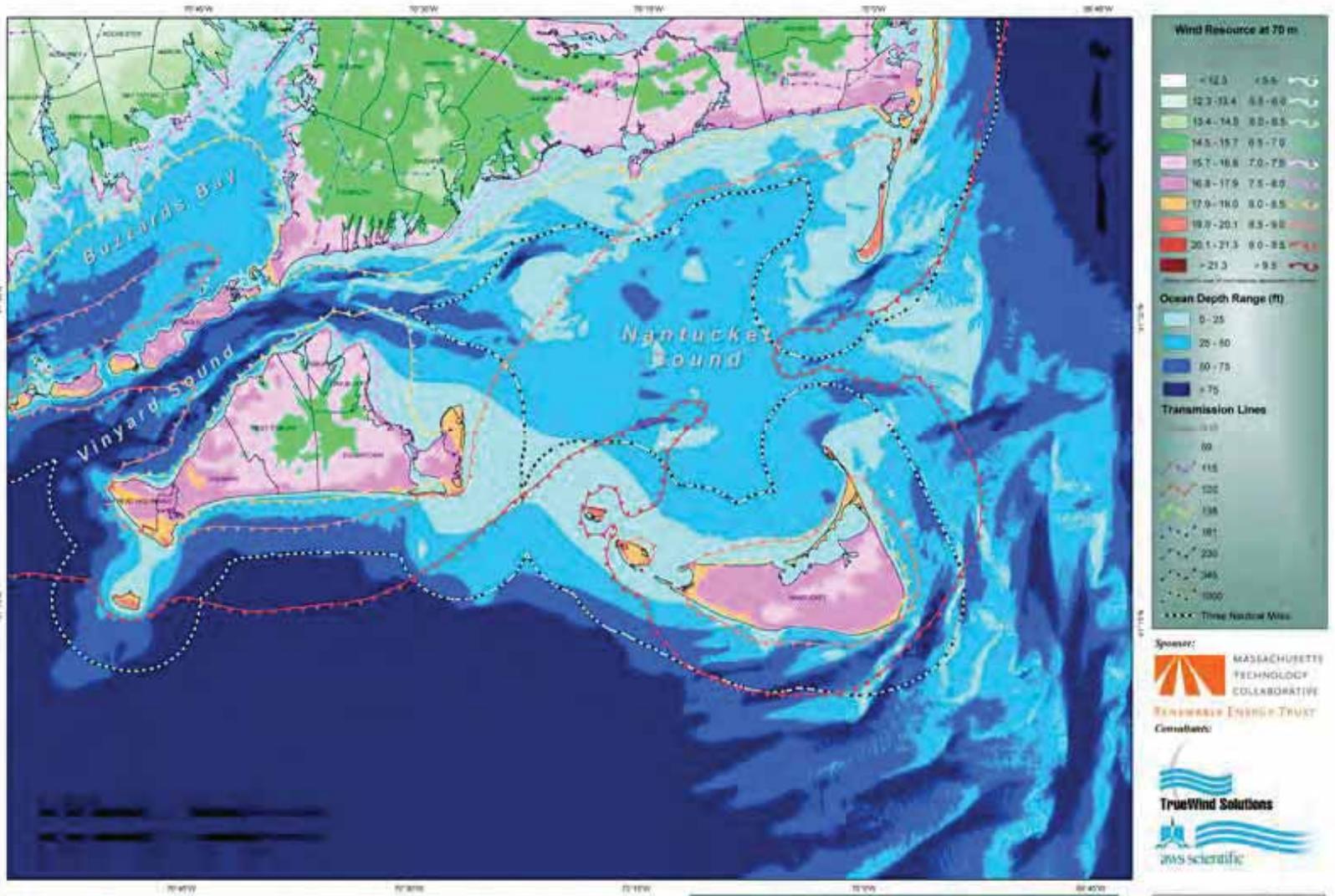
a) Local wind waves (H6)



b) Ocean swell

Source: Woods Hole Group, "Analytical Modeling of Alternative Wind Farm Sites, Existing Conditions" March 2004.

CAPE WIND ENERGY PROJECT
 Significant Wave Height Distribution Around Horseshoe Shoal
 Figure .1.3-1



**Wind Energy Resource and Coastal Bathymetry
Map of Nantucket Sound and Horseshoe Shoal**
Predicted Mean Wind Speed at a Height of 70 m (230 ft) Above Surface

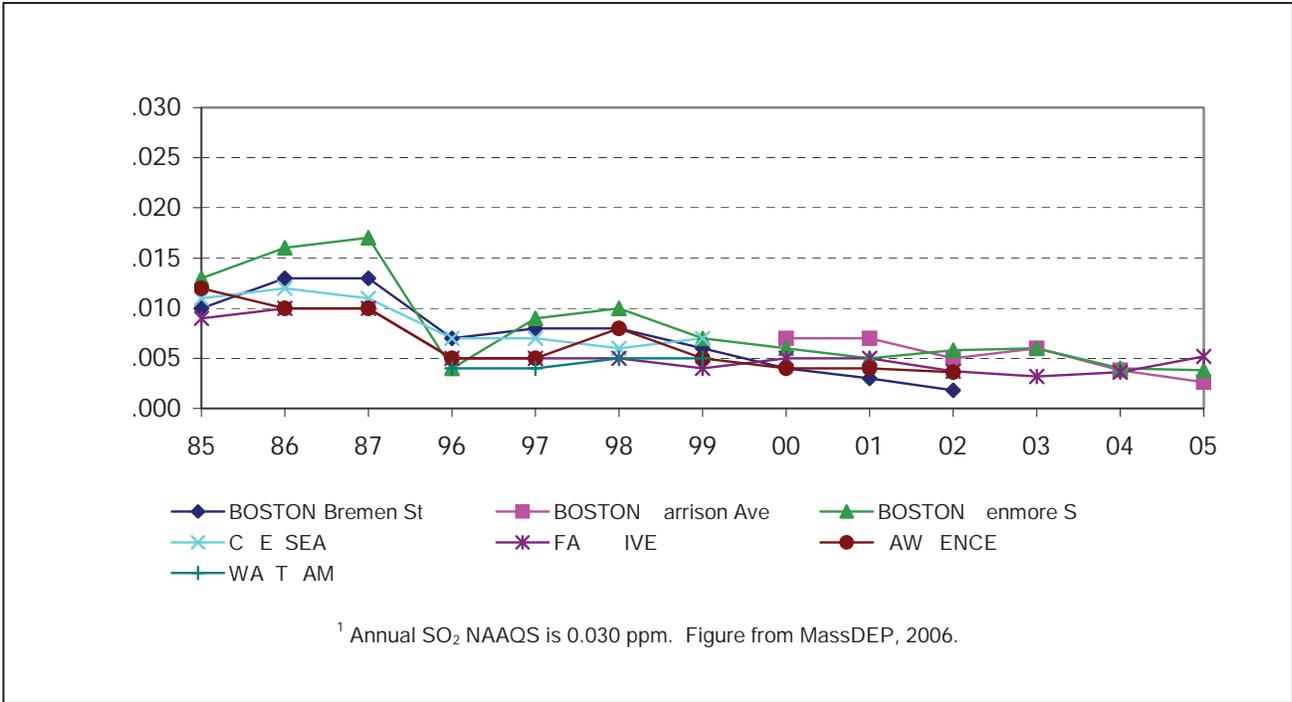
Projection: Transverse Mercator, Zone 19
Spatial Resolution of Wind Resource Data: 200m
This map was created by TrueWind Solutions using the MesoMap system and historical weather data. Although it is believed to represent an accurate overall picture of the wind energy resource, estimates at any location should be confirmed by measurement. The map has been validated by the National Renewable Energy Laboratory (NREL) and consulting meteorologists using surface wind data.

Wind resource data provided through funding from the Massachusetts Technology Collaborative, Renewable Energy Trust, the Connecticut Clean Energy Fund, and the Northeast Utilities Service Company.



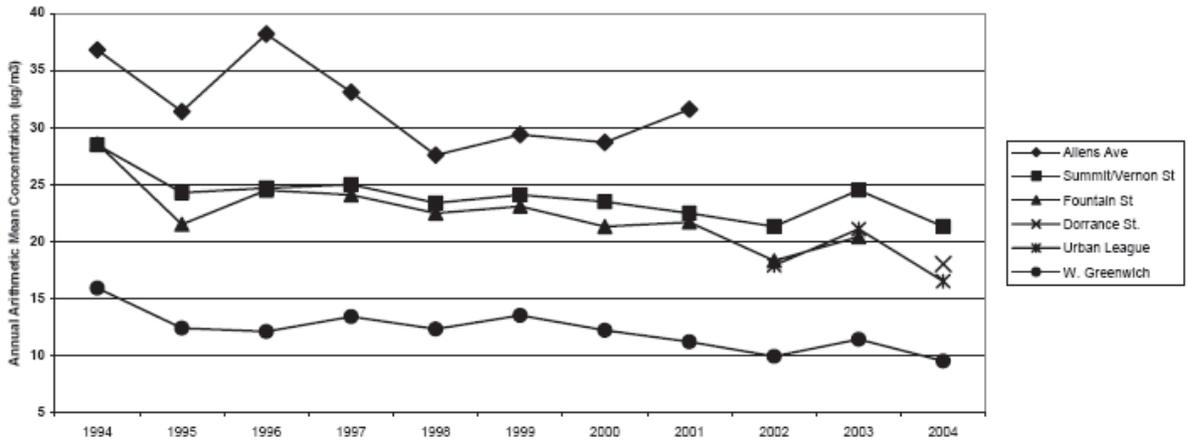
TrueWind Solutions/TrueWind Scientific 01/2012

CAPE WIND ENERGY PROJECT
Wind Energy Resource and Coastal Bathymetry Map
of Nantucket Sound and Horseshoe Shoal
Figure 1.1 - 1



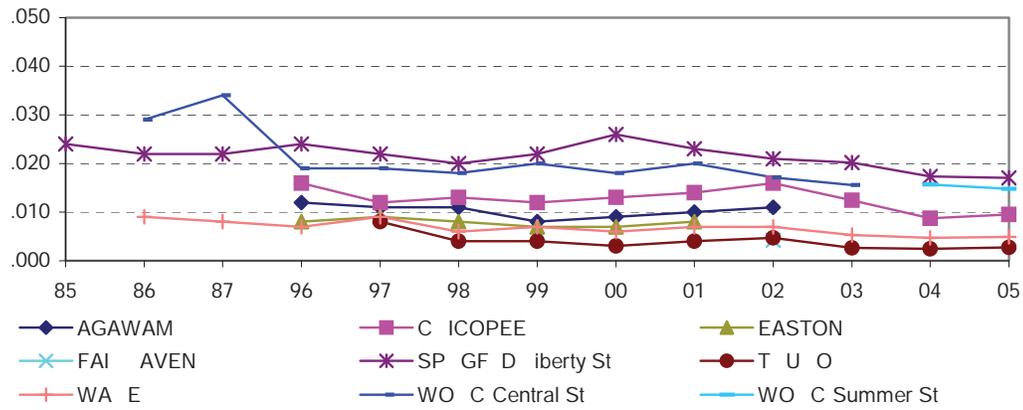
CAPE WIND ENERGY PROJECT
 Recorded Annual SO₂ Concentration

1 5-2 5¹
 Figure .1.5-1



¹ Annual PM₁₀ NAAQS is 50 µg/m³. Figure from DEM, 2006.

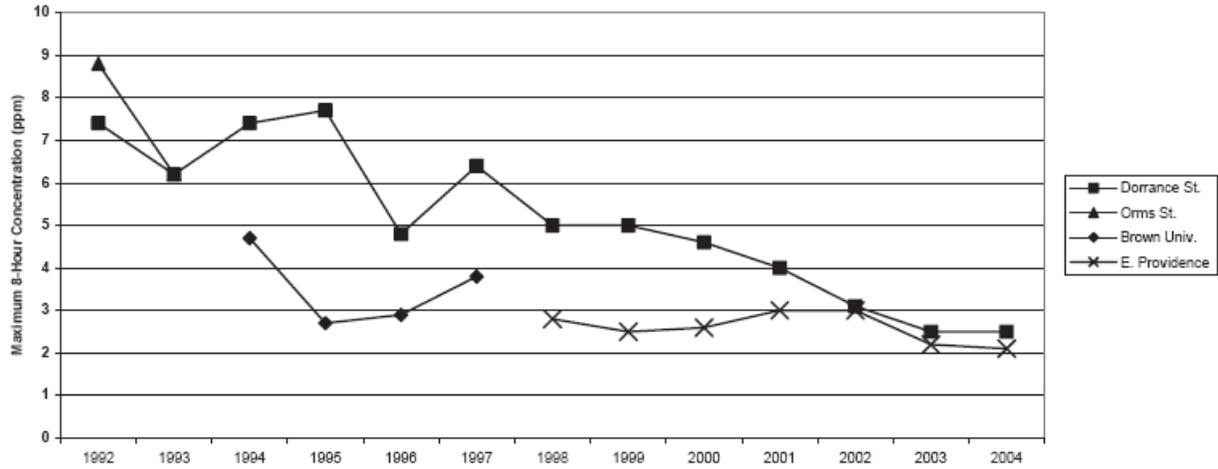
CAPE WIND ENERGY PROJECT
 Recorded Annual P₁ Concentration
 1 -2 1
 Figure .1.5-1



¹ Annual NO₂ NAAQS is 0.050 ppm. Figure from MassDEP, 2006.

CAPE WIND ENERGY PROJECT
Recorded Annual NO₂ Concentration

1 5-2 5¹
 Figure .1.5-1



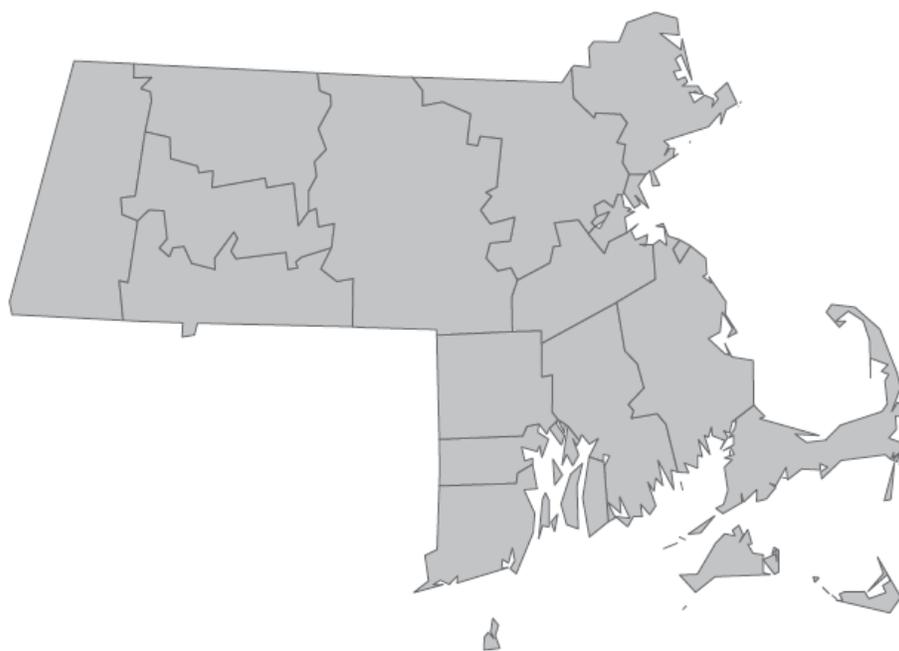
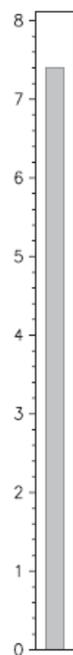
¹8- our CO NAAQS is 9 ppm. Figure from DEM, 2006.

CAPE WIND ENERGY PROJECT
Recorded - our CO Concentration

1 2-2 1
 Figure .1.5-1

Nonattainment Areas Map – Ozone (8-hour)
Massachusetts or Rhode Island

AirData



Population
(Millions)

Nonattainment Status:

Part of County

Whole County

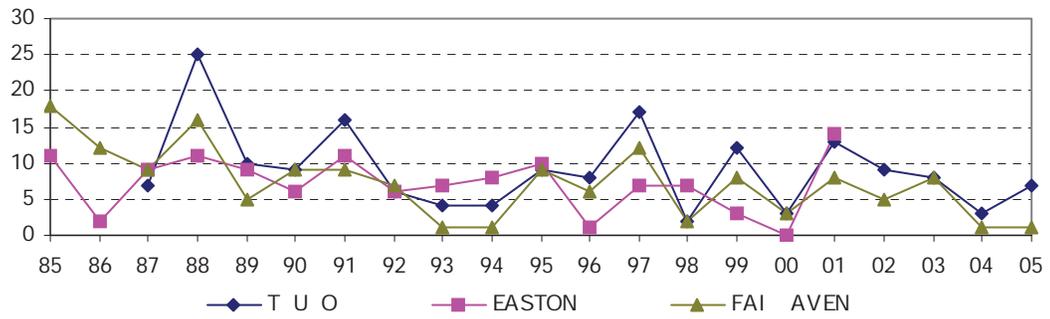
Attainment County

Source: US EPA Office of Air and Radiation, AQS Database

Thursday, March 1, 2007

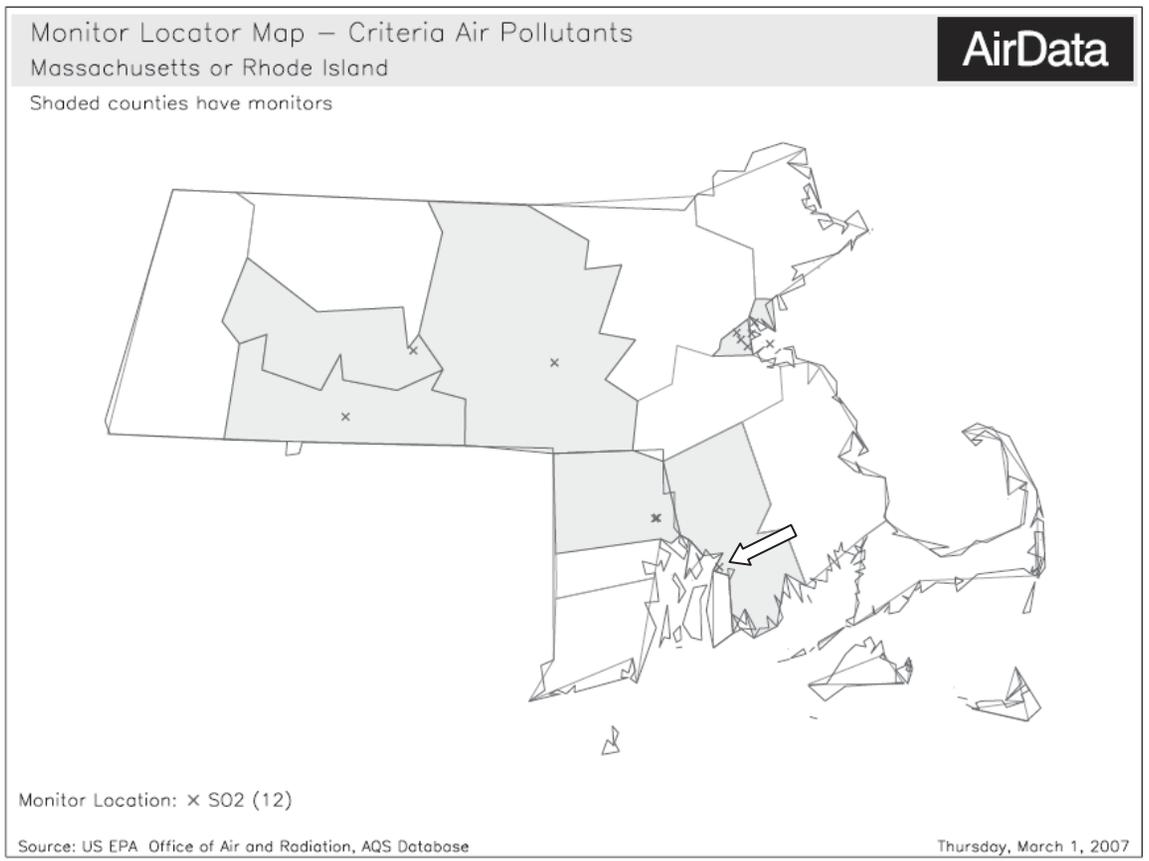
¹ Note that the entirety of Massachusetts and Rhode Island are designated moderate non-attainment for 8-hour ozone.

CAPE WIND ENERGY PROJECT
Massachusetts and Rhode Island
Non-Attainment Area
Figure .1.5-1



¹ 8- our O₃ NAAQS is 0.085 ppm. Figure from MassDEP, 2006.

CAPE WIND ENERGY PROJECT
 Recorded - our O₃ Concentration
 1 5-2 5¹
 Figure .1.5-2



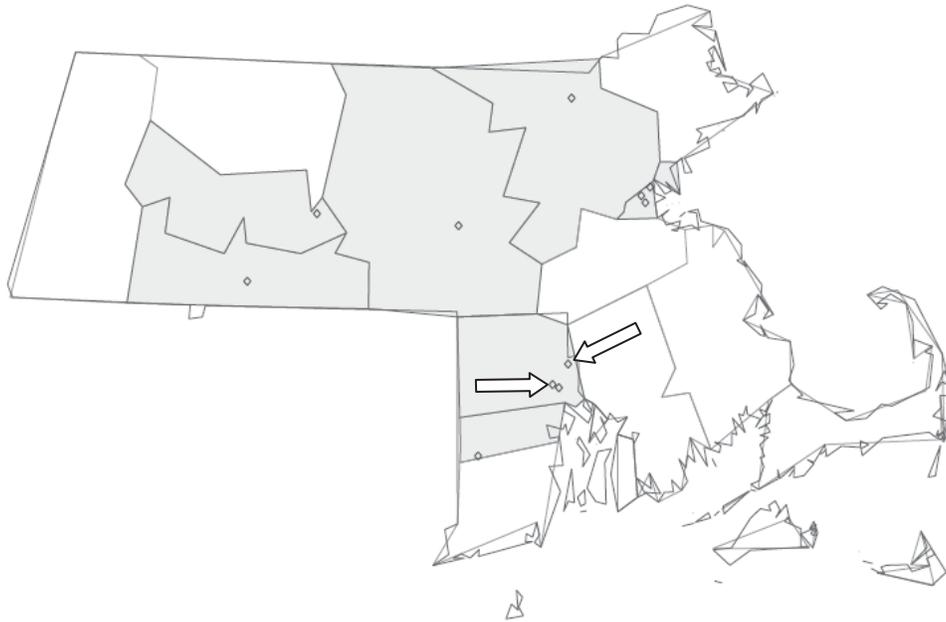
SO₂ monitoring site
 659 Globe Street, Fall River, MA 1974-present

CAPE WIND ENERGY PROJECT
Sulfur Dioxide SO₂ monitoring Site
Figure .1.5-2

Monitor Locator Map – Criteria Air Pollutants
Massachusetts or Rhode Island



Shaded counties have monitors



Monitor Location: ◊ PM10 (18)

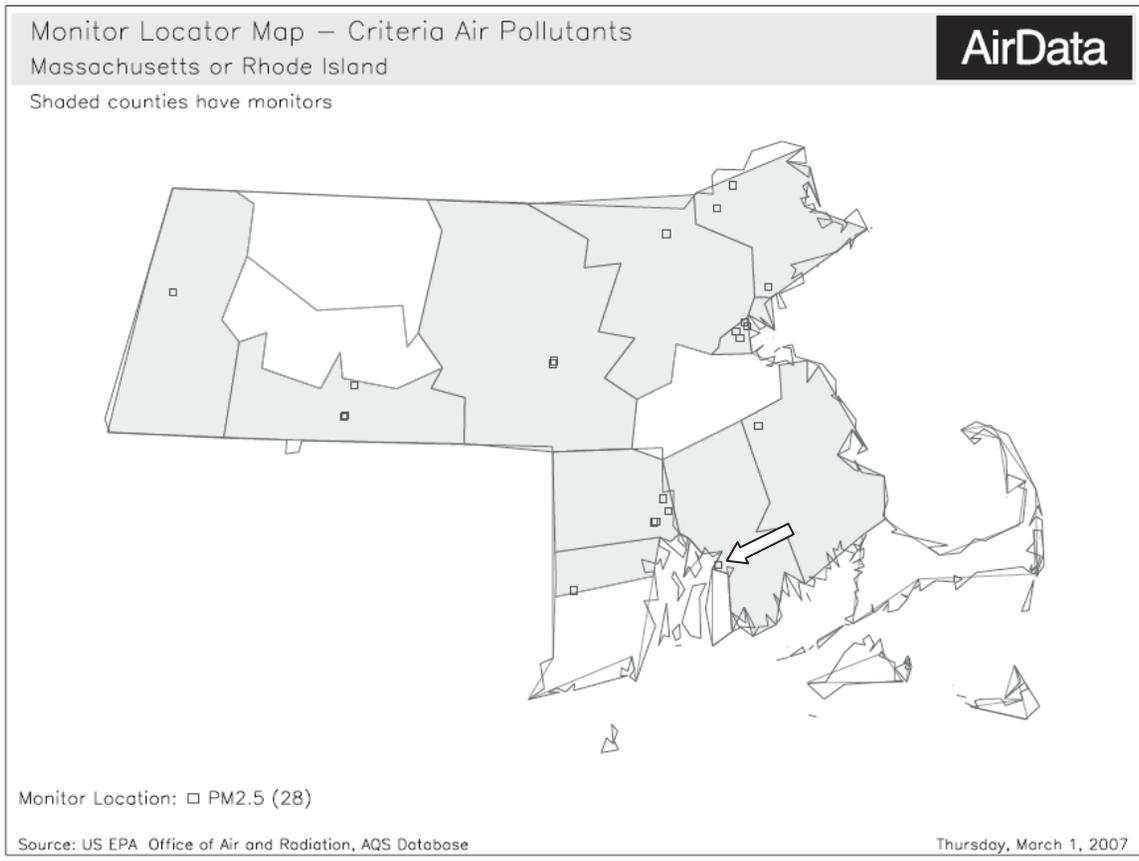
Source: US EPA Office of Air and Radiation, AQS Database

Friday, March 2, 2007

PM₁₀ monitoring sites

111 Dorrance Street, Providence, RI 2004-present
Vernon Street Trailer, Pawtucket, RI 2001-present

CAPE WIND ENERGY PROJECT
Particulate matter Size 1 micrometer P₁
Monitoring Site
Figure .1.5-3



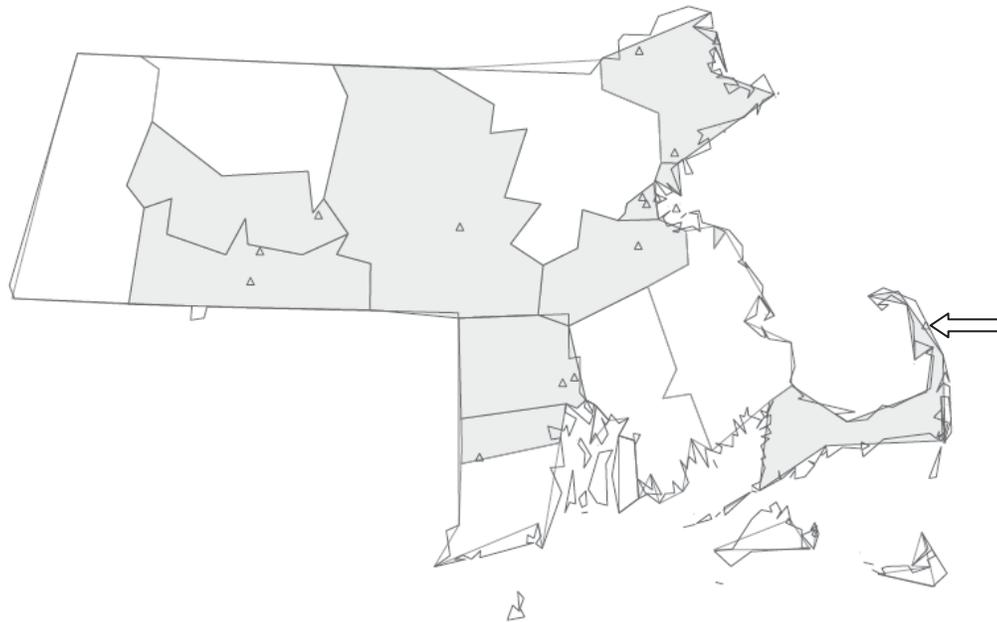
PM_{2.5} monitoring site
 659 Globe Street, Fall River, MA 1974-present

CAPE WIND ENERGY PROJECT
 Particulate matter 2.5 micrometer P_{2.5} monitoring Site
 Figure .1.5-

Monitor Locator Map – Criteria Air Pollutants
Massachusetts or Rhode Island

AirData

Shaded counties have monitors



Monitor Location: Δ NO₂ (16)

Source: US EPA Office of Air and Radiation, AQS Database

Thursday, March 1, 2007

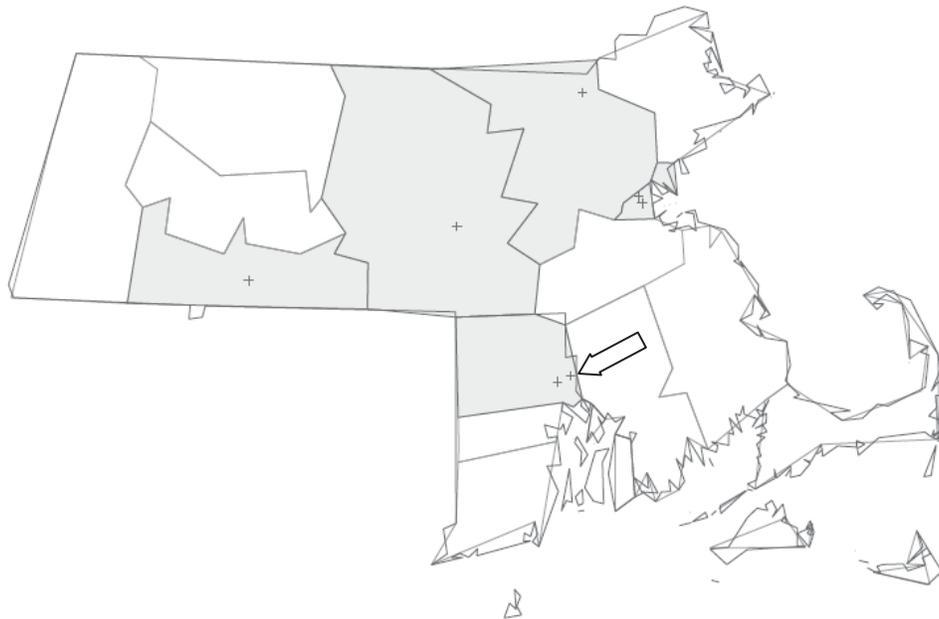
NO₂ monitoring site
Fo Bottom Area, Truro, MA 1987-present

CAPE WIND ENERGY PROJECT
Nitrogen Dioxide NO₂
Monitoring Site
Figure .1.5-5

Monitor Locator Map – Criteria Air Pollutants
Massachusetts or Rhode Island



Shaded counties have monitors



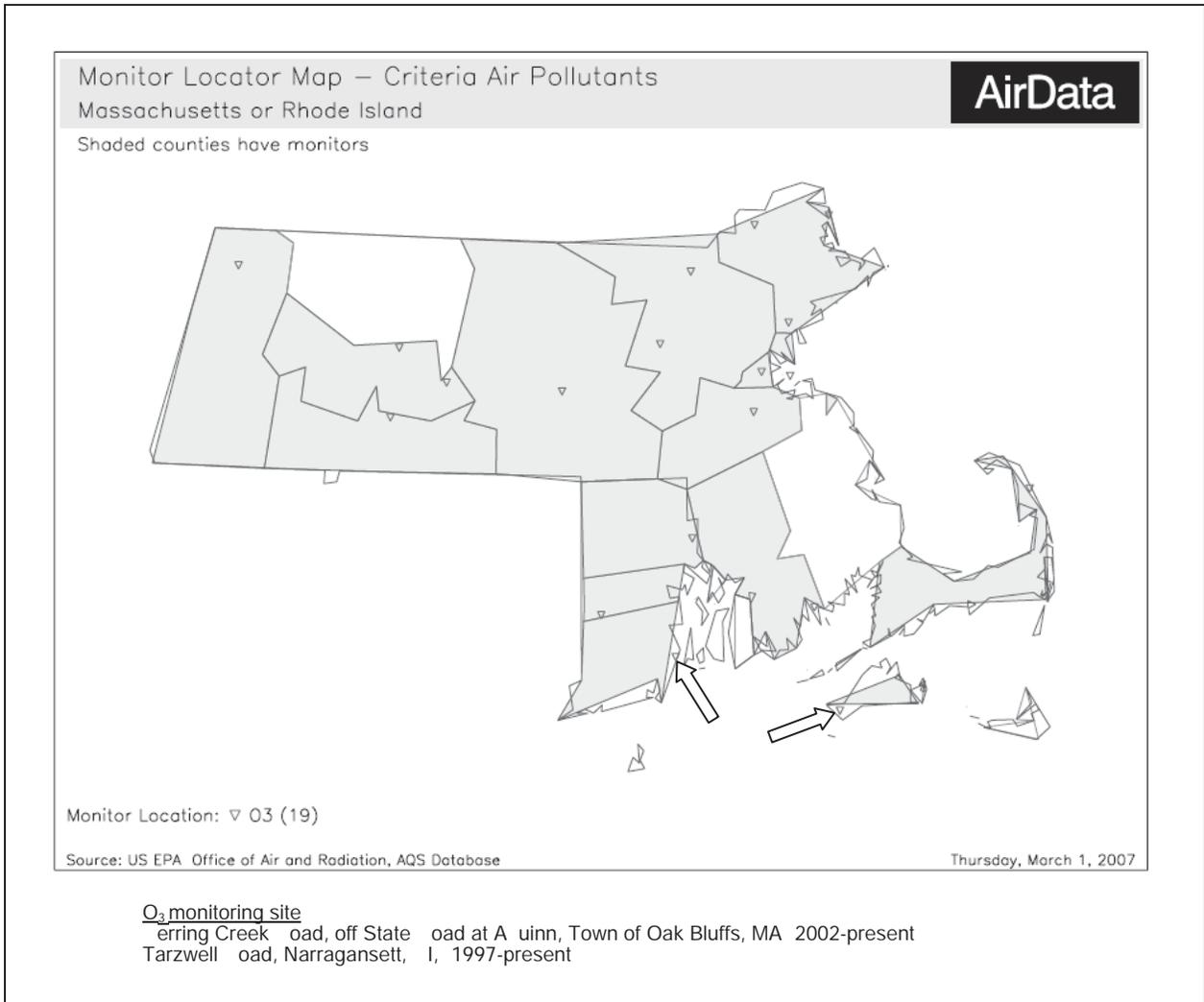
Monitor Location: +CO (7)

Source: US EPA Office of Air and Radiation, AQS Database

Thursday, March 1, 2007

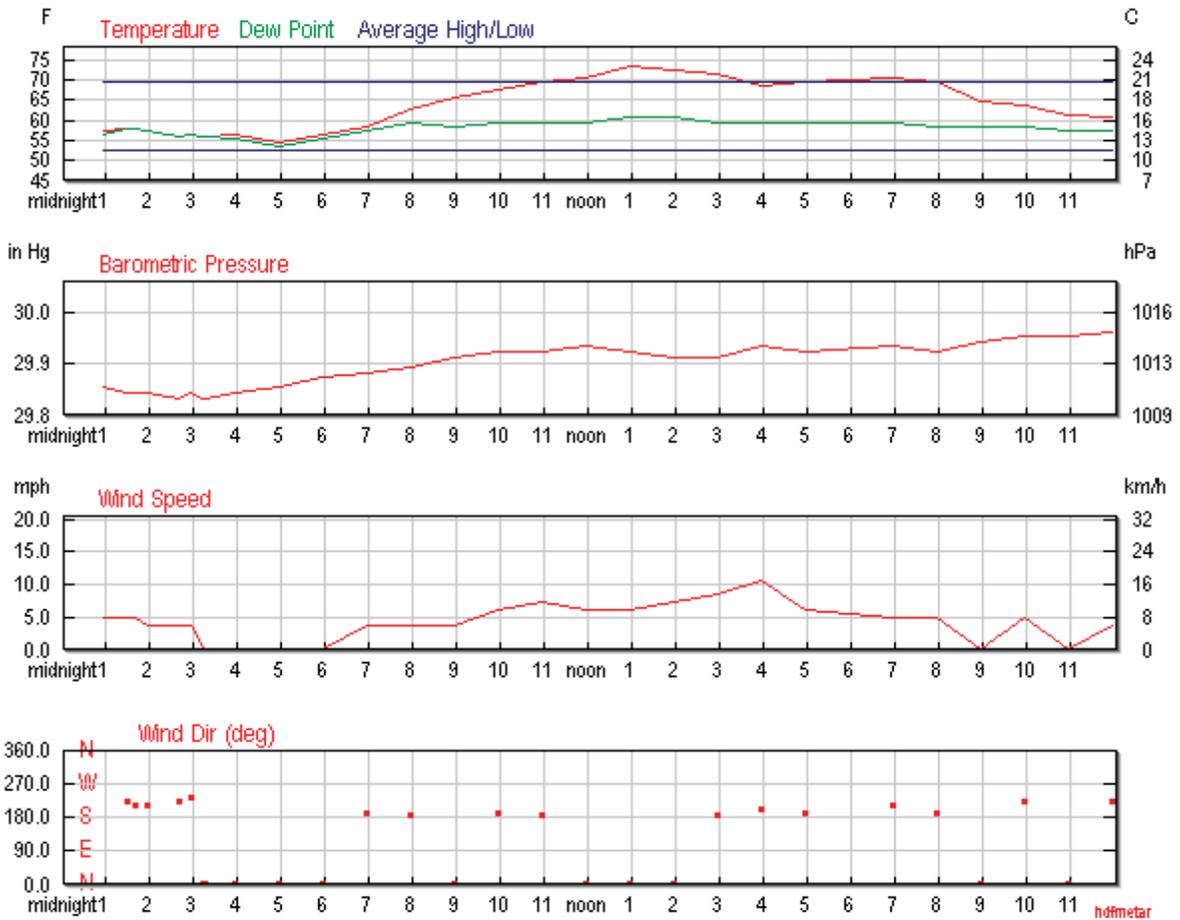
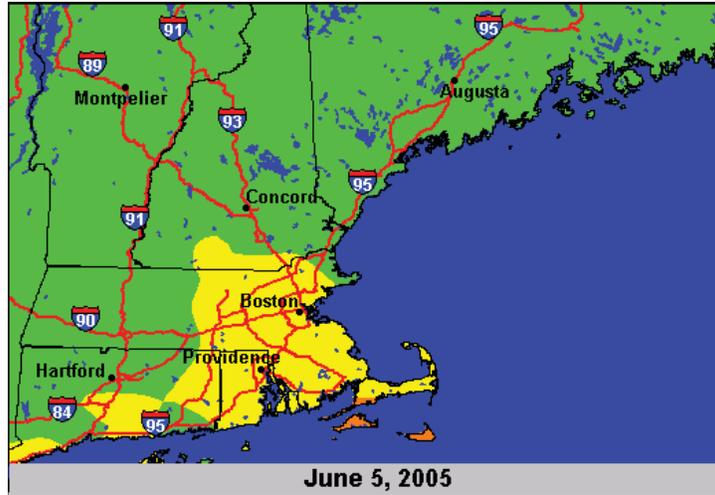
CO monitoring sites
76 Dorrance Street, Providence, RI 1973-present

CAPE WIND ENERGY PROJECT
Carbon dioxide CO
monitoring Site
Figure .1.5-



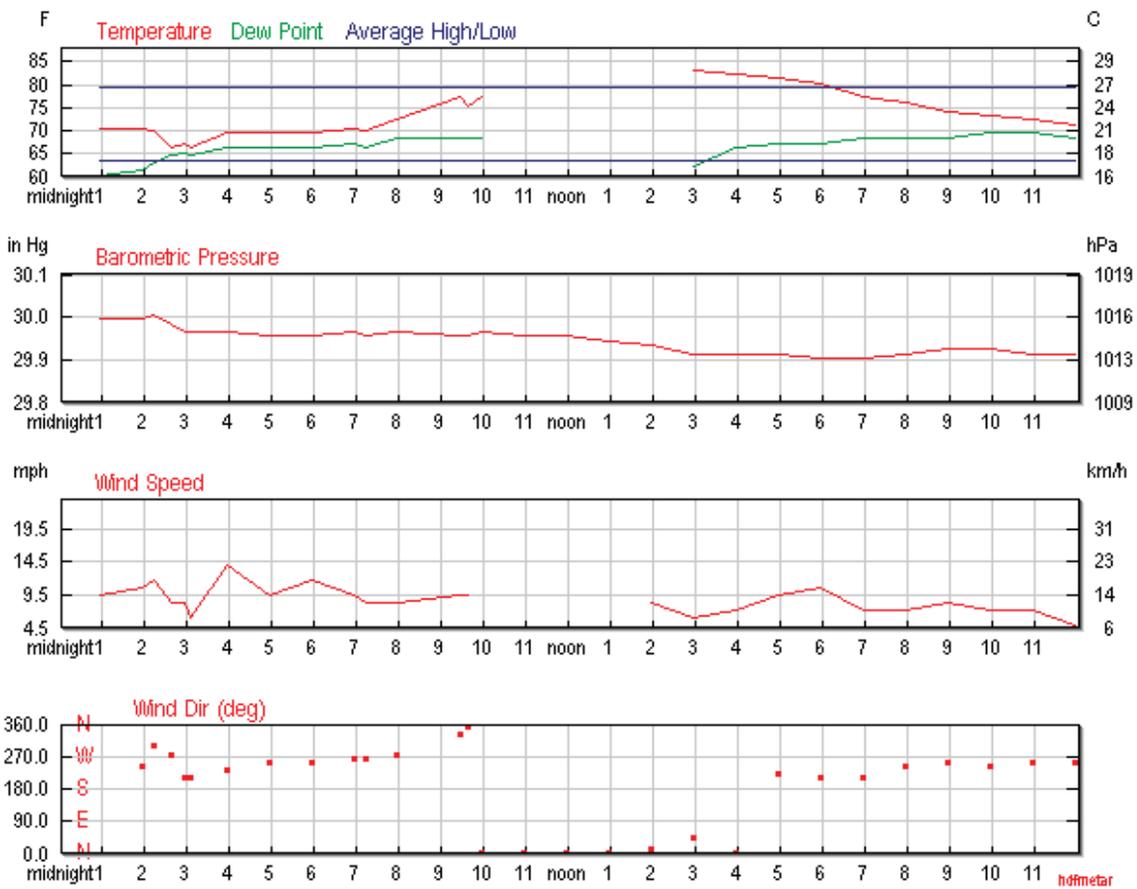
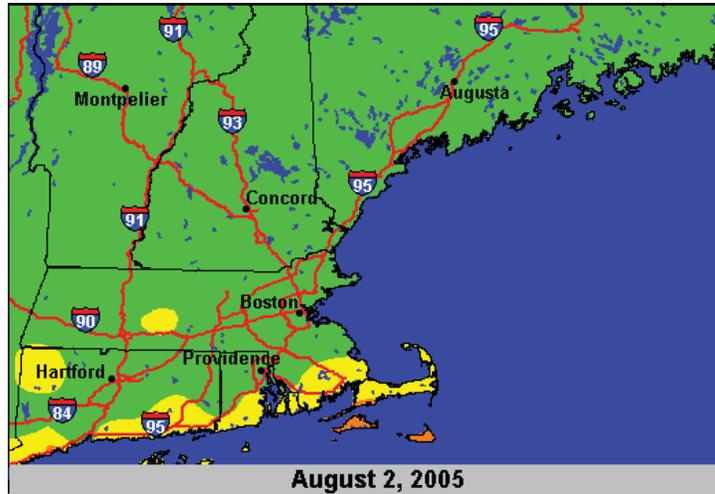
CAPE WIND ENERGY PROJECT

O₃ monitoring Site
Figure .1.5-



¹ 8-hour ozone contours are color-coded. Green represents ozone concentrations less than 0.060 ppm, yellow represents concentrations between 0.080 ppm and 0.100 ppm, orange represents concentrations between 0.100 ppm and 0.111 ppm, and red represents concentrations greater than 0.111 ppm. Data from EPA, 2007c.
² Weather data from Weather Underground, 2007b.

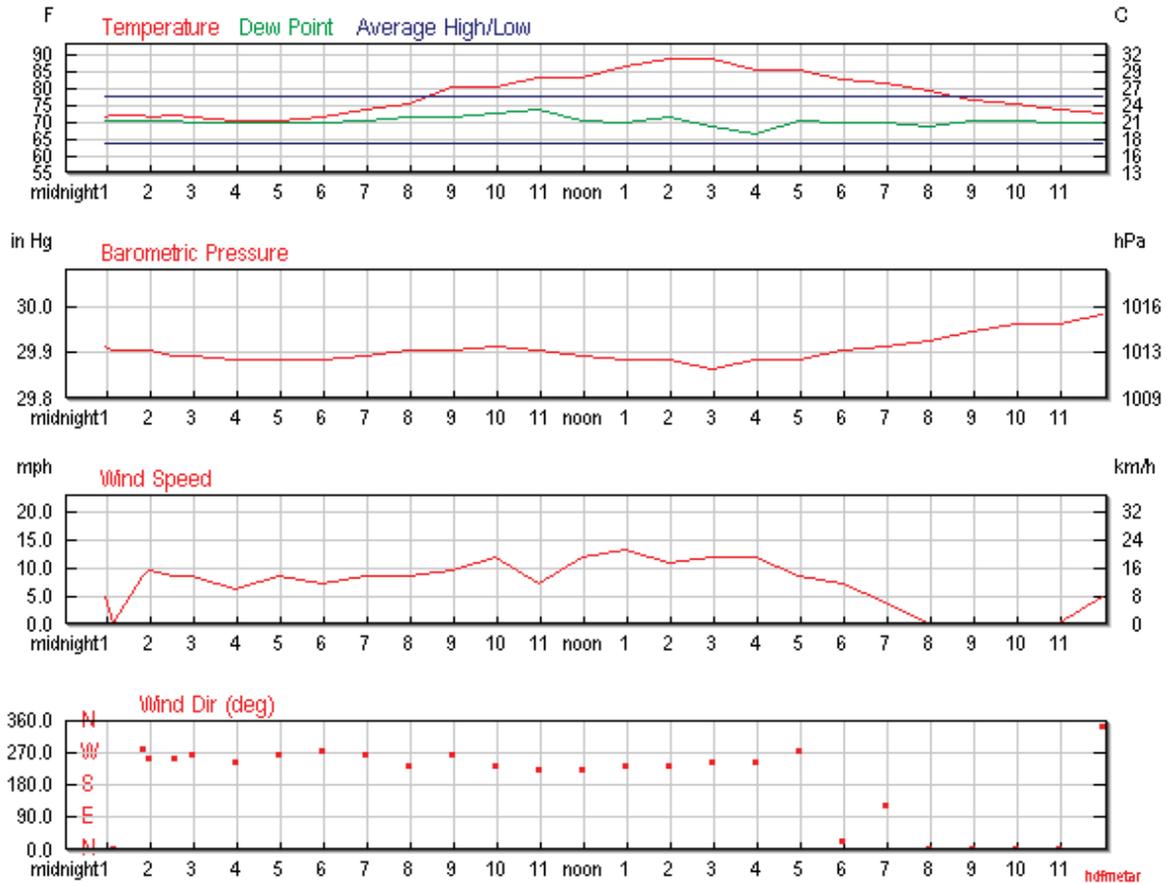
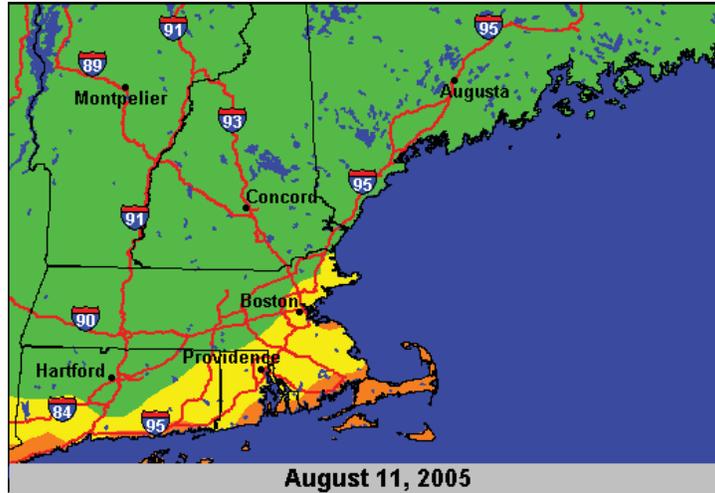
CAPE WIND ENERGY PROJECT
 June 5 2 5 - our O one O₃
 Contour and Weather Data^{1,2}
 Figure .1.5-



¹ 8-hour ozone contours are color-coded. Green represents ozone concentrations less than 0.060 ppm, yellow represents concentrations between 0.080 ppm and 0.100 ppm, orange represents concentrations between 0.100 ppm and 0.111 ppm, and red represents concentrations greater than 0.111 ppm. Data from EPA, 2007c.

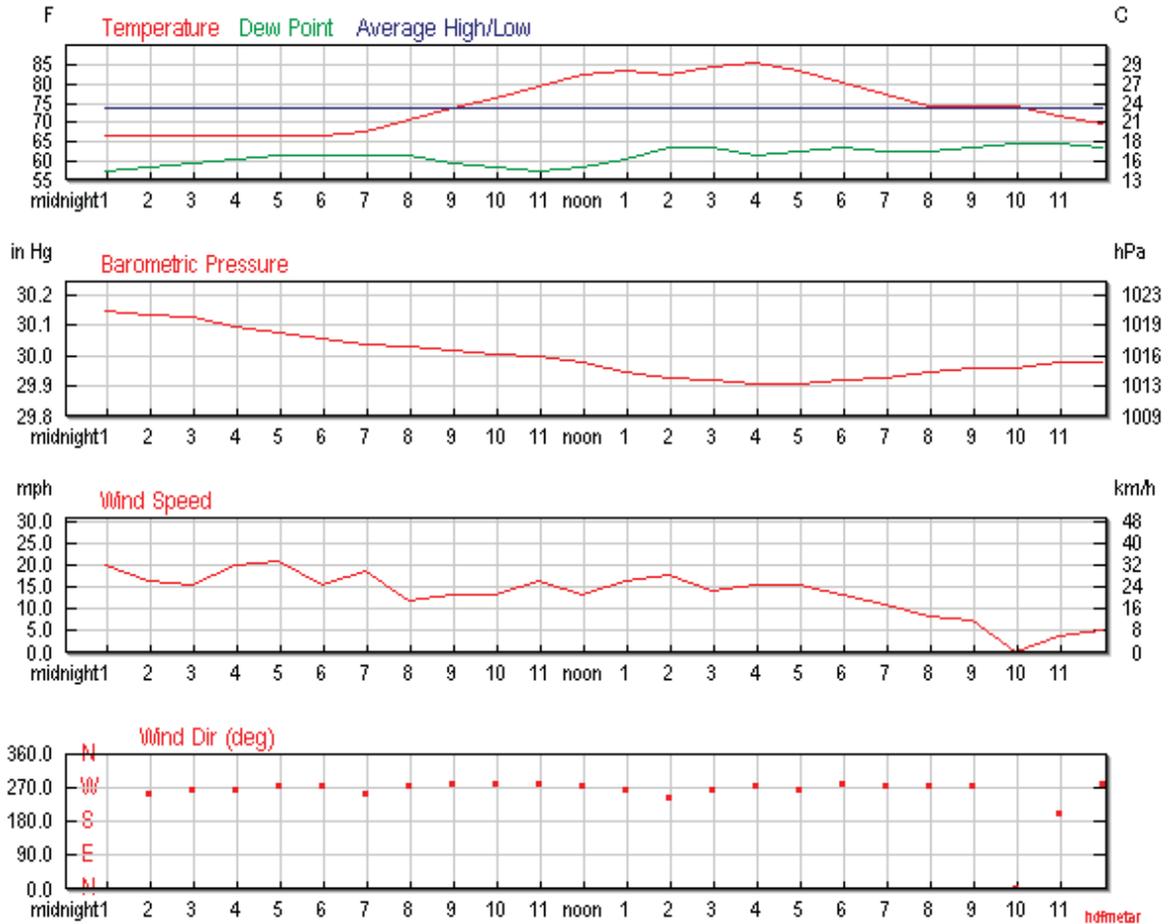
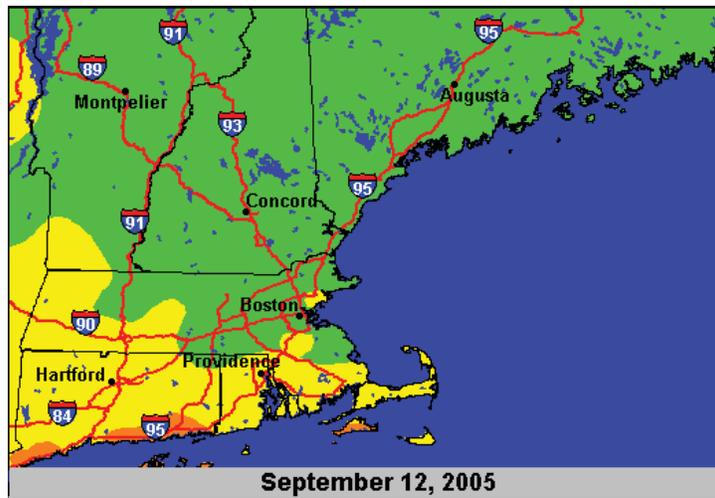
² Weather data from Weather Underground, 2007b.

CAPE WIND ENERGY PROJECT
 August 2, 2005 - our Ozone O₃
 contour and Weather Data^{1,2}
 Figure .1.5-



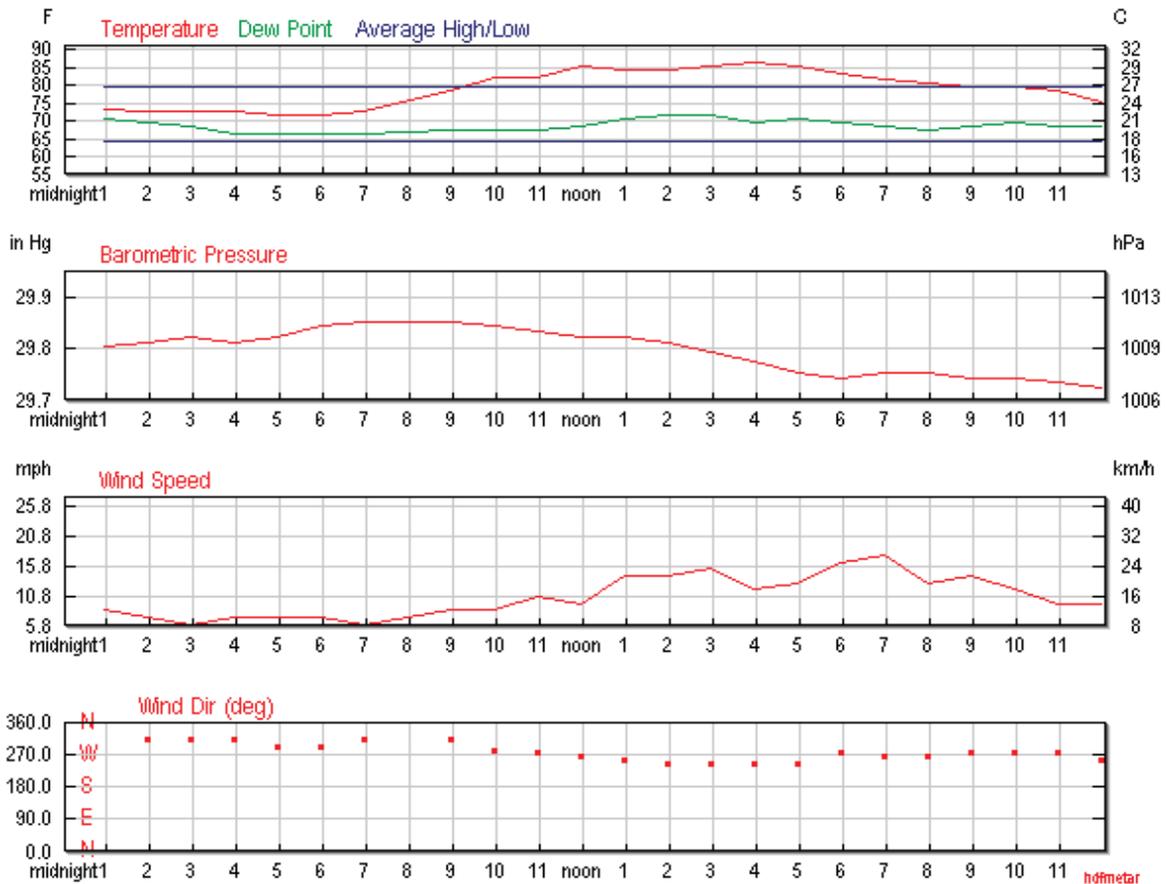
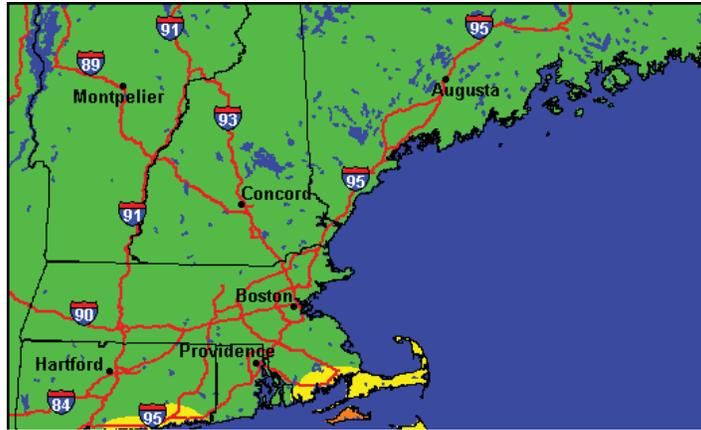
¹ 8-hour ozone contours are color-coded. Green represents ozone concentrations less than 0.060 ppm, yellow represents concentrations between 0.080 ppm and 0.100 ppm, orange represents concentrations between 0.100 ppm and 0.111 ppm, and red represents concentrations greater than 0.111 ppm. Data from EPA, 2007c.
² Weather data from Weather Underground, 2007b.

CAPE WIND ENERGY PROJECT
 August 11, 2005 - Hourly Ozone O₃
 Contour and Weather Data^{1,2}
 Figure .1.5-1



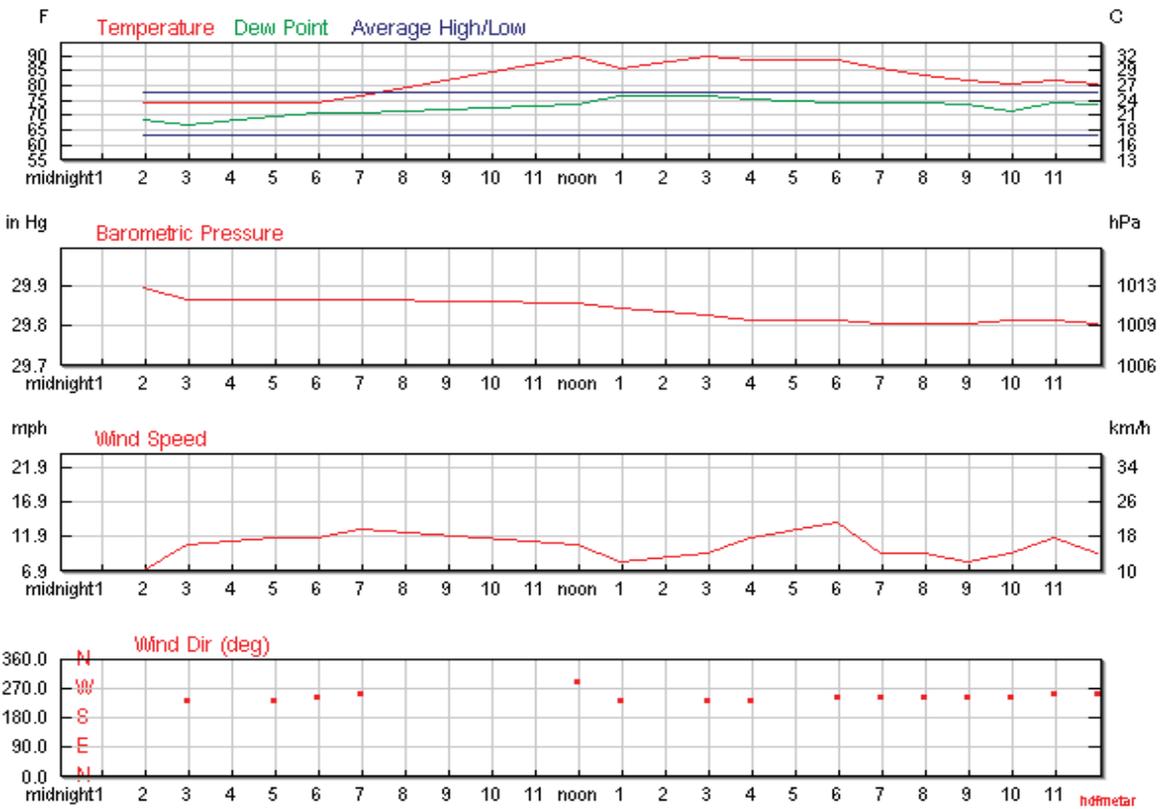
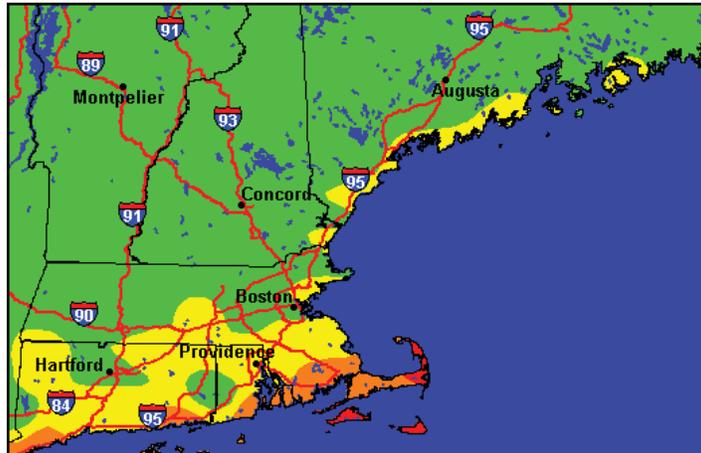
¹ 8-hour ozone contours are color-coded. Green represents ozone concentrations less than 0.060 ppm, yellow represents concentrations between 0.080 ppm and 0.100 ppm, orange represents concentrations between 0.100 ppm and 0.111 ppm, and red represents concentrations greater than 0.111 ppm. Data from EPA, 2007c.
² Weather data from Weather Underground, 2007b.

CAPE WIND ENERGY PROJECT
September 12 2 5 - our O one O₃
Contour and Weather Data^{1 2}
Figure .1.5-11



¹ 8-hour ozone contours are color-coded. Green represents ozone concentrations less than 0.060 ppm, yellow represents concentrations between 0.080 ppm and 0.100 ppm, orange represents concentrations between 0.100 ppm and 0.111 ppm, and red represents concentrations greater than 0.111 ppm. Data from EPA, 2007c.
² Weather data from Weather Underground, 2007b.

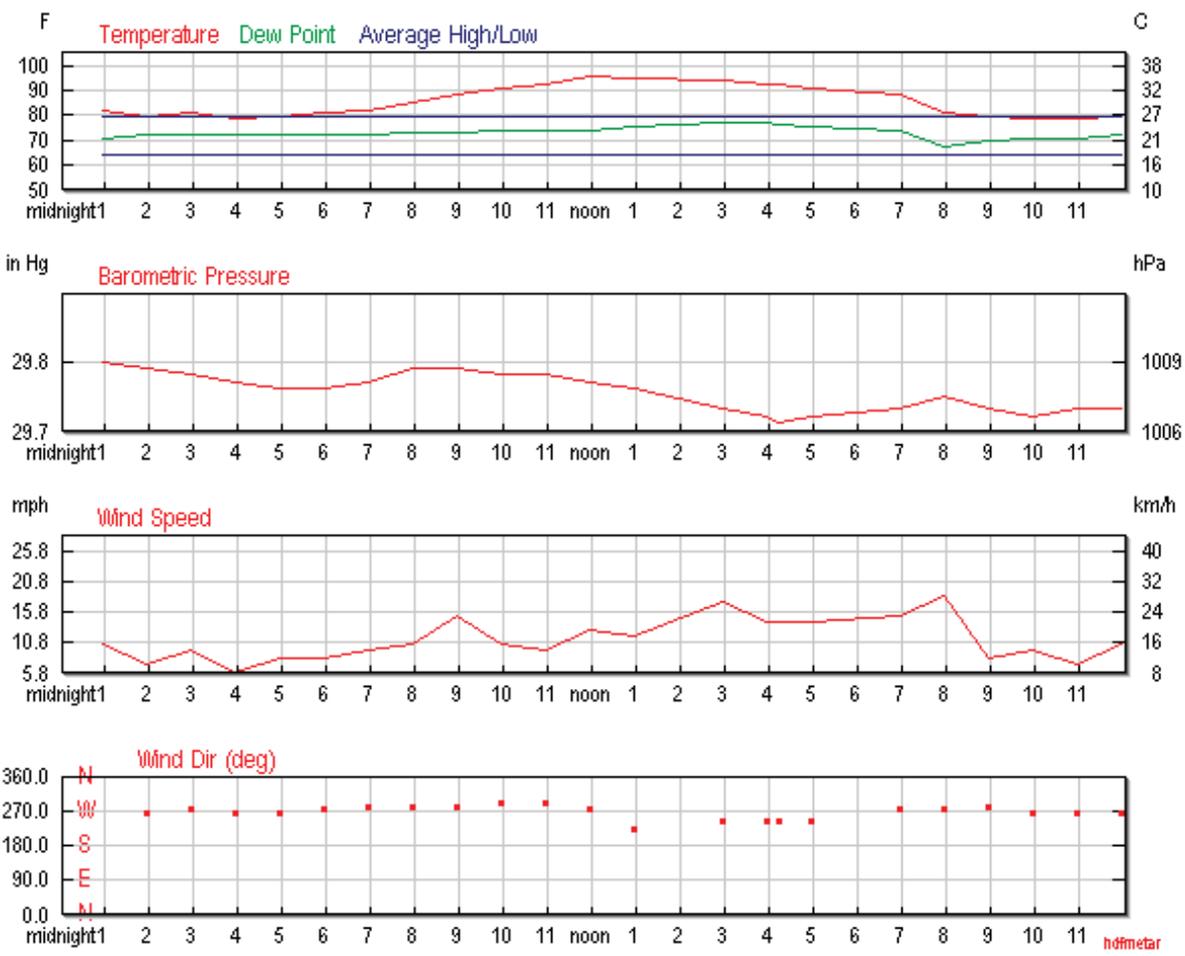
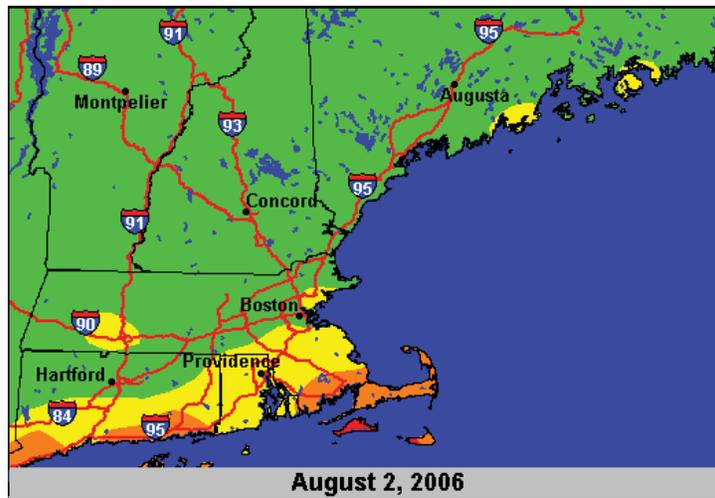
CAPE WIND ENERGY PROJECT
 July 2 2007 - our Ozone O₃
 Contour and Weather Data^{1,2}
 Figure 1.5-12



¹ 8-hour ozone contours are color-coded. Green represents ozone concentrations less than 0.060 ppm, yellow represents concentrations between 0.080 ppm and 0.100 ppm, orange represents concentrations between 0.100 ppm and 0.111 ppm, and red represents concentrations greater than 0.111 ppm. Data from EPA, 2007c.

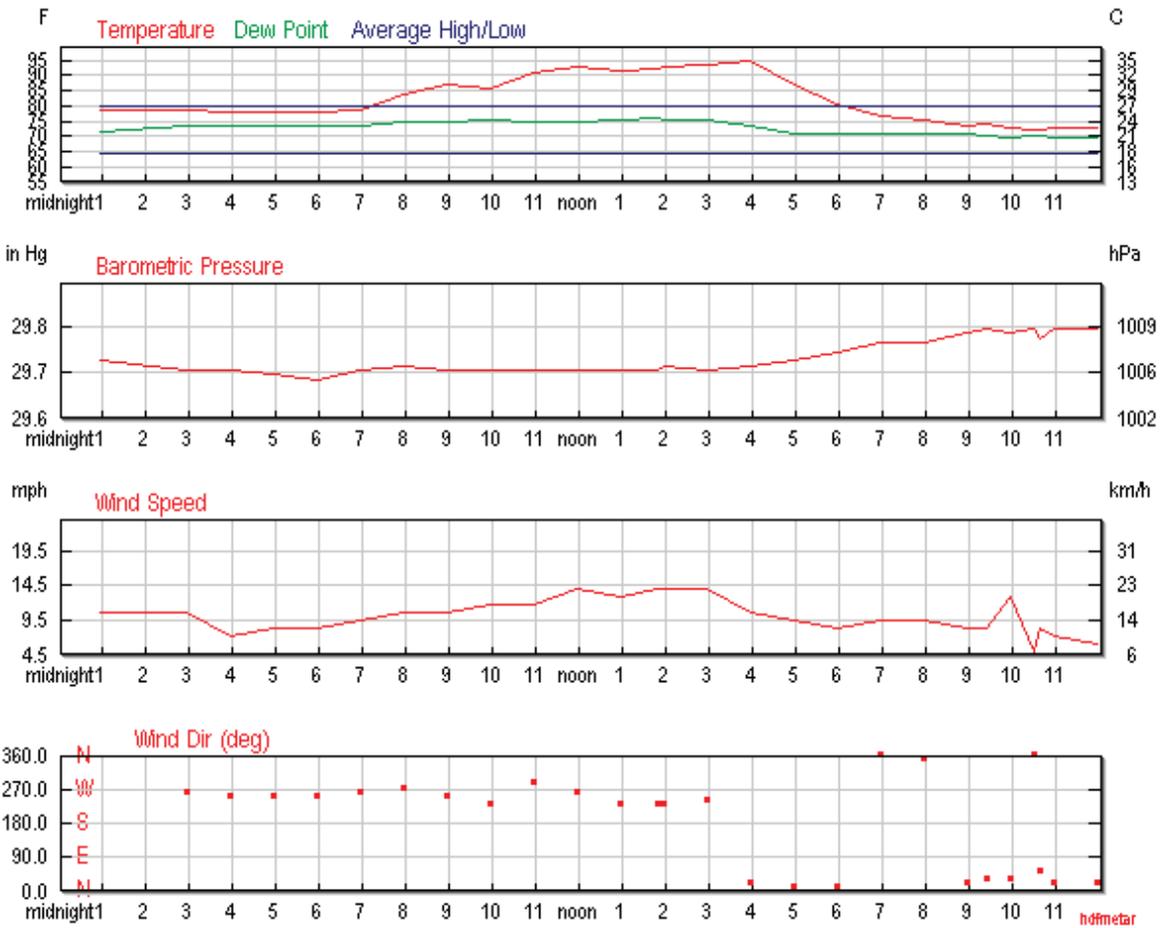
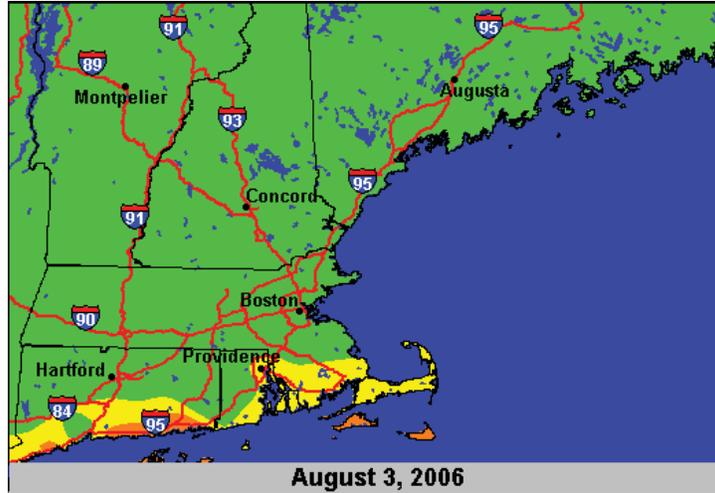
² Weather data from Weather Underground, 2007b.

CAPE WIND ENERGY PROJECT
 August 12 - our Ozone O₃
 Contour and Weather Data^{1,2}
 Figure .1.5-13



¹ 8-hour ozone contours are color-coded. Green represents ozone concentrations less than 0.060 ppm, yellow represents concentrations between 0.080 ppm and 0.100 ppm, orange represents concentrations between 0.100 ppm and 0.111 ppm, and red represents concentrations greater than 0.111 ppm. Data from EPA, 2007c.
² Weather data from Weather Underground, 2007b.

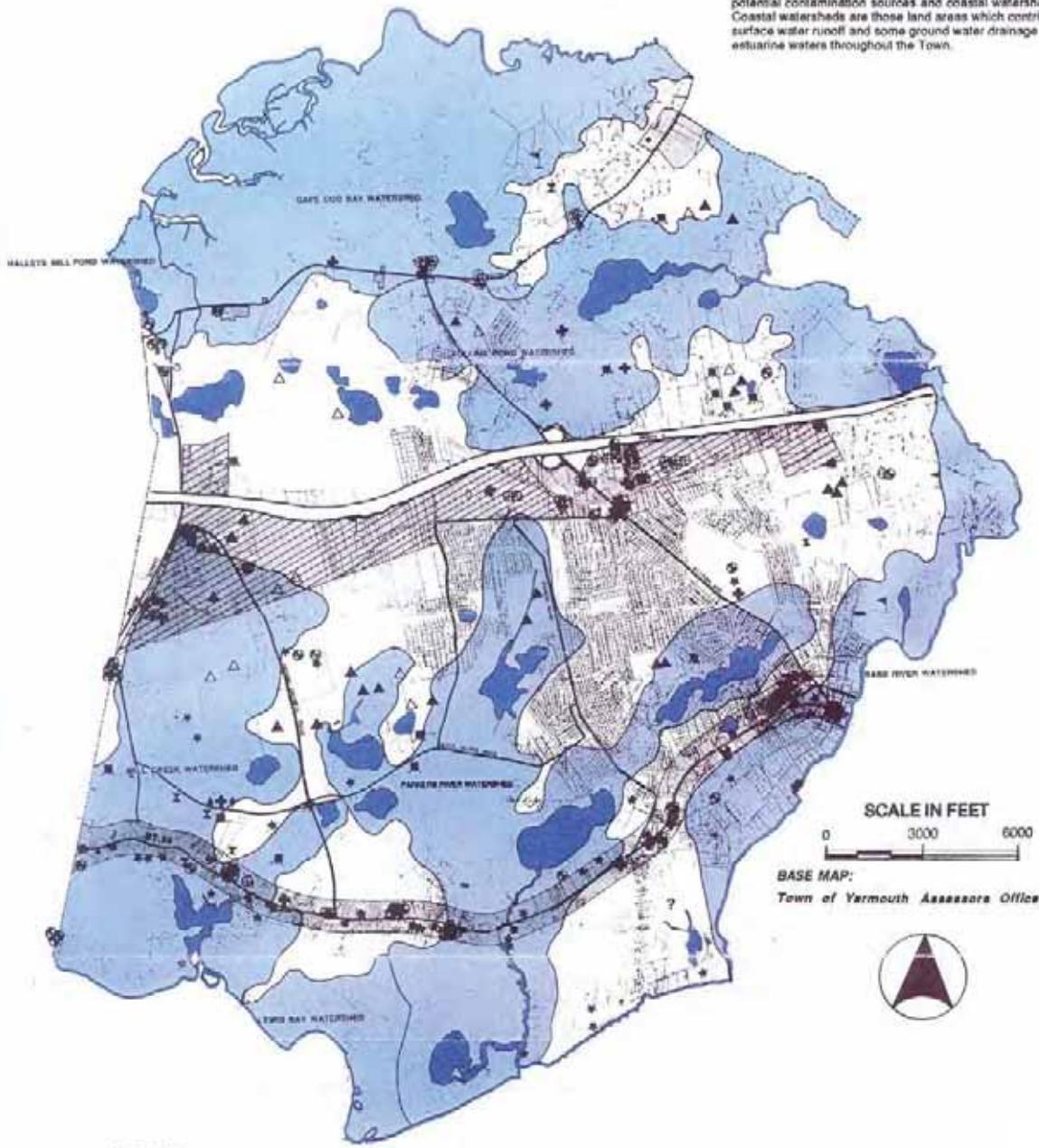
CAPE WIND ENERGY PROJECT
 August 22 - our Ozone O₃
 Contour and Weather Data^{1,2}
 Figure .1.5-1



¹ 8-hour ozone contours are color-coded. Green represents ozone concentrations less than 0.060 ppm, yellow represents concentrations between 0.080 ppm and 0.100 ppm, orange represents concentrations between 0.100 ppm and 0.111 ppm, and red represents concentrations greater than 0.111 ppm. Data from EPA, 2007c.
² Weather data from Weather Underground, 2007b.

CAPE WIND ENERGY PROJECT
 August 2 - our Ozone O₃
 Contour and Weather Data^{1,2}
 Figure 1.5-15

EXPLANATION: This map shows the relationship between potential contamination sources and coastal watersheds. Coastal watersheds are those land areas which contribute surface water runoff and some ground water drainage to estuarine waters throughout the Town.



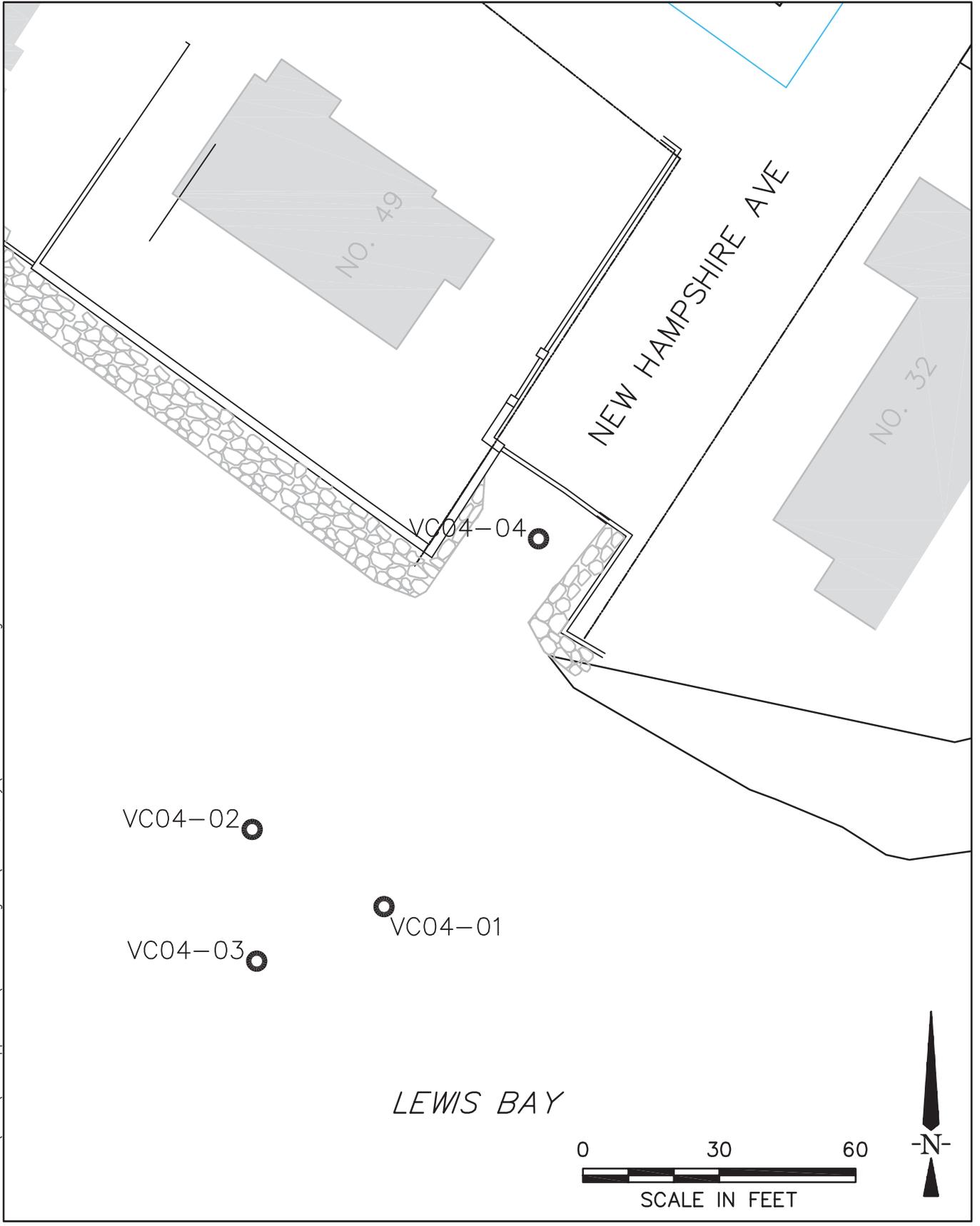
LEGEND

- | | |
|---|---|
| <p>ZONING</p> <ul style="list-style-type: none"> RESIDENTIAL BUSINESS <p>POTENTIAL SOURCES OF CONTAMINATION</p> <ul style="list-style-type: none"> UNDERGROUND GAS/DIESEL TANKS LESS THAN 15 YEARS OLD, 1000 OR MORE GALLONS 15 YEARS OR OLDER, LESS THAN 1000 GALLONS LESS THAN 15 YEARS OLD, 1000 OR MORE GALLONS LESS THAN 15 YEARS OLD, LESS THAN 1000 GALLONS EXISTING TOWN LANDFILL ABANDONED TOWN LANDFILL | <ul style="list-style-type: none"> THE RUN WATERSHED IS UNDEFINED DUE TO INSUFFICIENT DATA STUMP DUMP LARGE SEPTIC SYSTEMS (GREATER THAN 5000 GALLONS) PRIVATELY OWNED WASTEWATER TREATMENT PLANT GOLF COURSE SALT STORAGE CONFIRMED HAZARDOUS WASTE SITE PUBLIC WATER SUPPLY PUBLIC WATER SUPPLY WELL PROPOSED PUBLIC WATER SUPPLY WELL COASTAL WATERSHED |
|---|---|

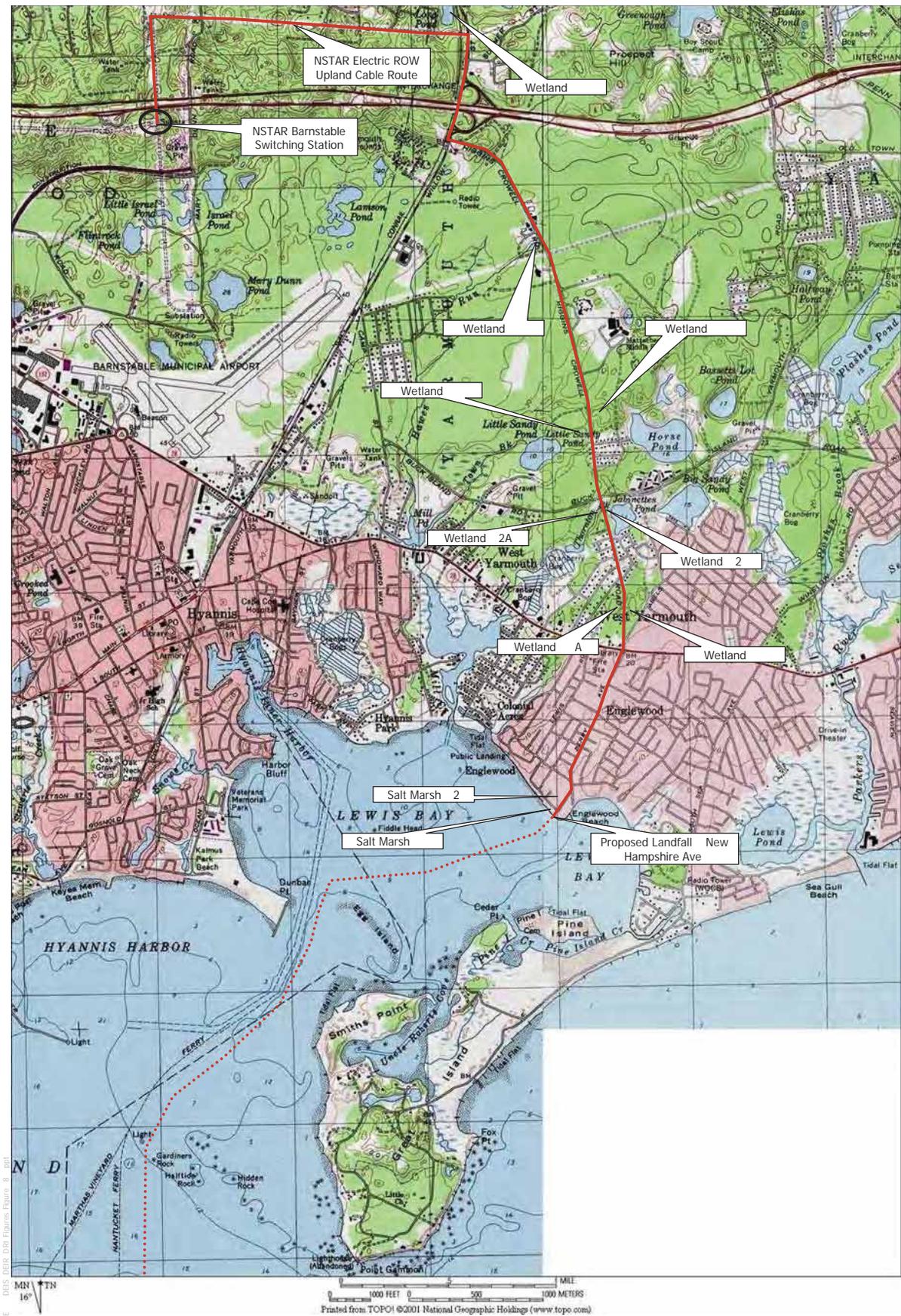
IERP Inc.
 00508 0018 0018 0018 Figures Figure 8 .ppt

CAPE WIND ENERGY PROJECT
 Coastal Watershed Potential Contamination Source
 Figure .1. -1

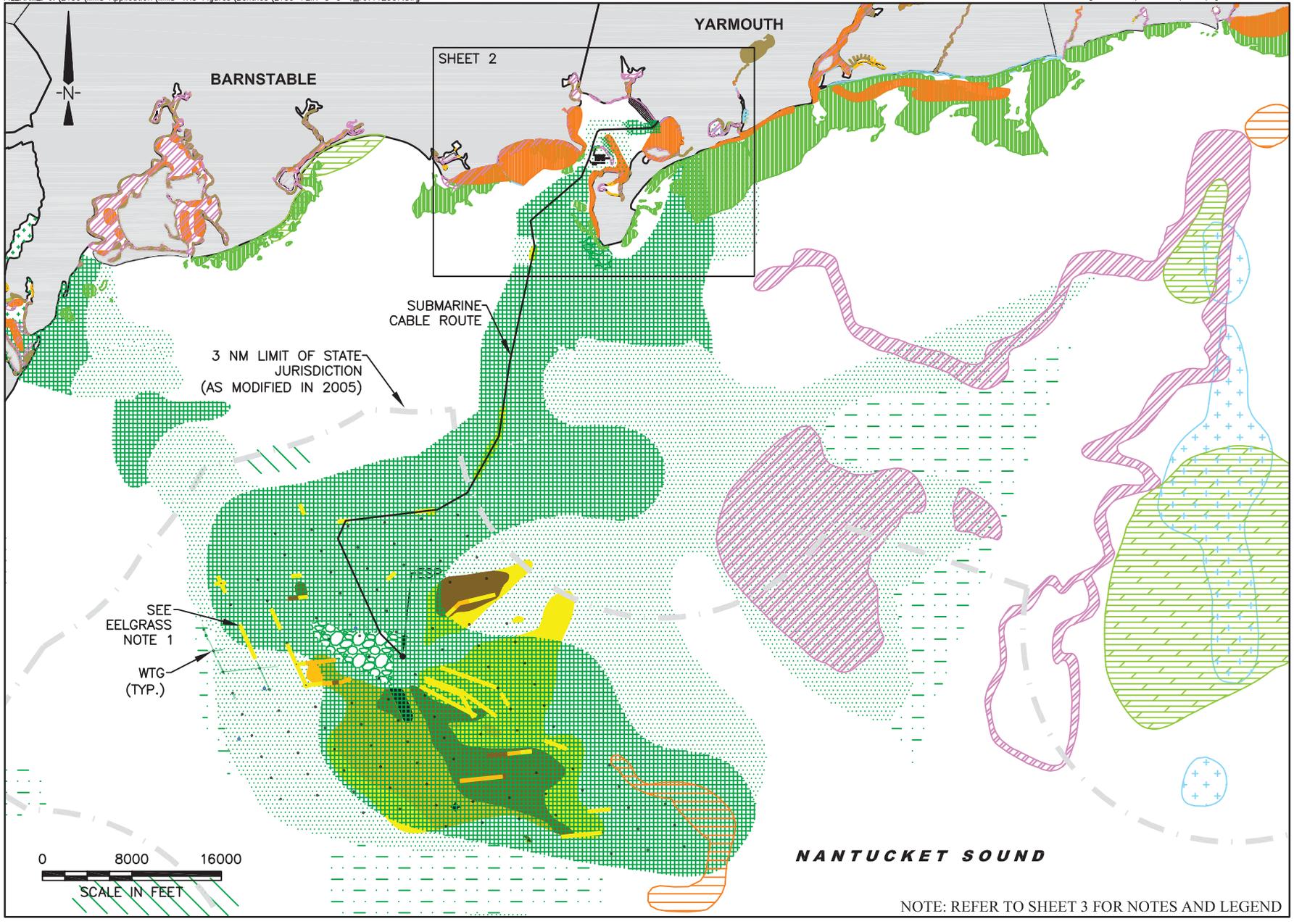
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IMAGE: H:\Charts\Nad83-ma-isl-ft\13229-3.tif
IMAGE: H:\Charts\Nad83-ma-isl-ft\13229-4\13229-4.tif
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CAPE WIND ENERGY PROJECT
Vibracore location
Lewis Bay
Figure .1. -2

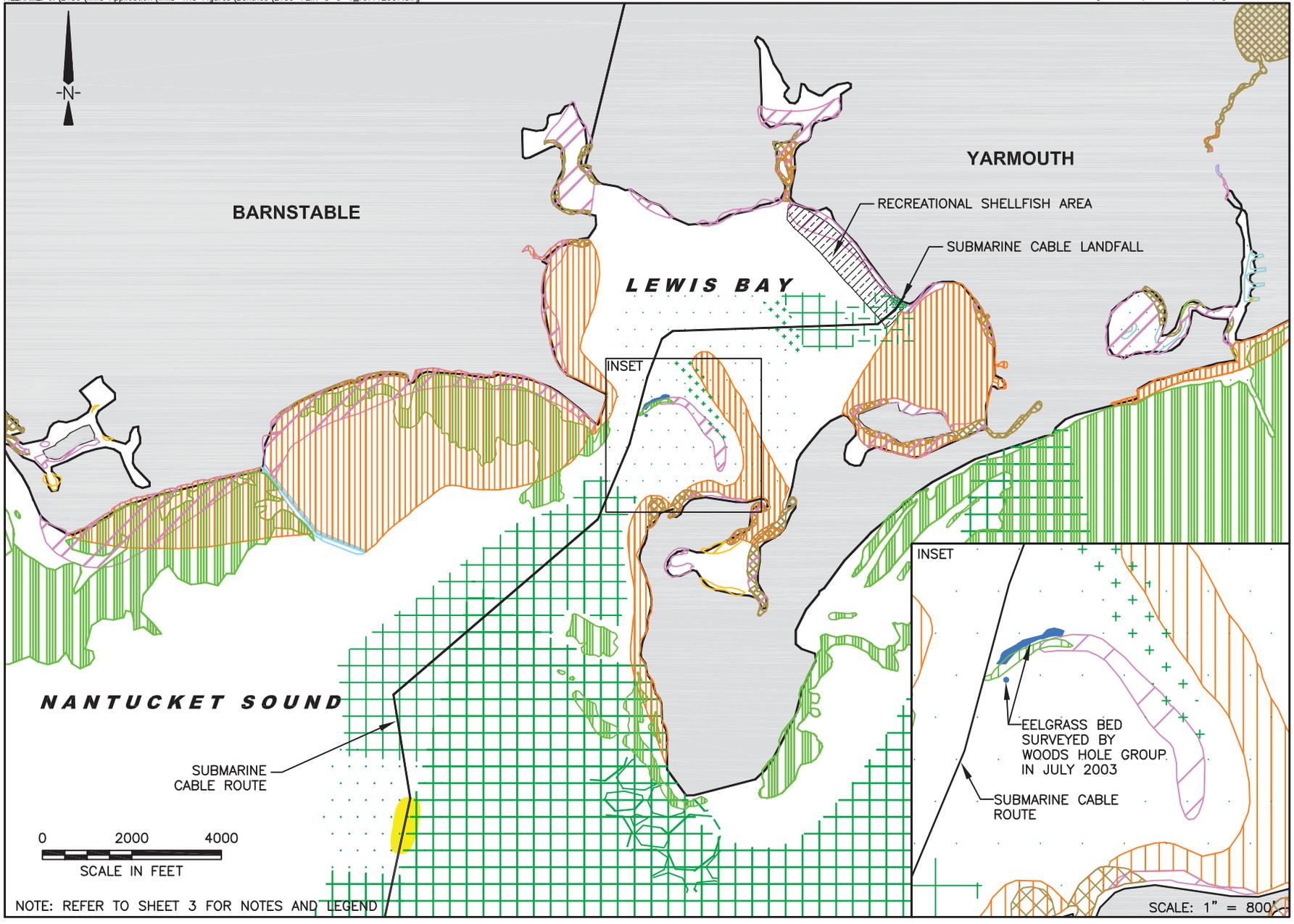


CAPE WIND ENERGY PROJECT
 Wetland on pland Tran mi ion ine Route
 Figure .2.1-1



A-107

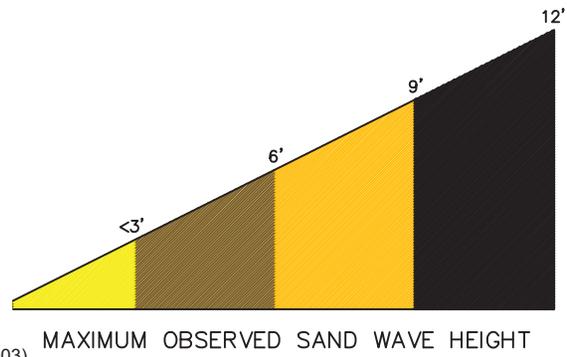
CAPE WIND ENERGY PROJECT
Benthic Habitat Map Sheet 1
Figure .2.2-1



CAPE WIND ENERGY PROJECT
Benthic Habitat Map Sheet 2
Figure .2.2-1

SEDIMENT TYPES:

-  GRAVELLY SAND
-  COARSE SAND
-  MEDIUM SAND
-  FINE SAND
-  SILTY SAND
-  SILT/CLAYEY SILT
-  COBBLE AND SCATTERED BOULDERS (2003)
-  COBBLE AND SCATTERED BOULDERS (2005)



MAXIMUM OBSERVED SAND WAVE HEIGHT

SHELLFISH SUITABILITY AREAS:

-  BLUE MUSSEL
-  BAY SCALLOP
-  SEA SCALLOP
-  SURF CLAM
-  SOFT SHELL CLAM
-  QUAHOG
-  YARMOUTH AQUACULTURE LEASE AREAS

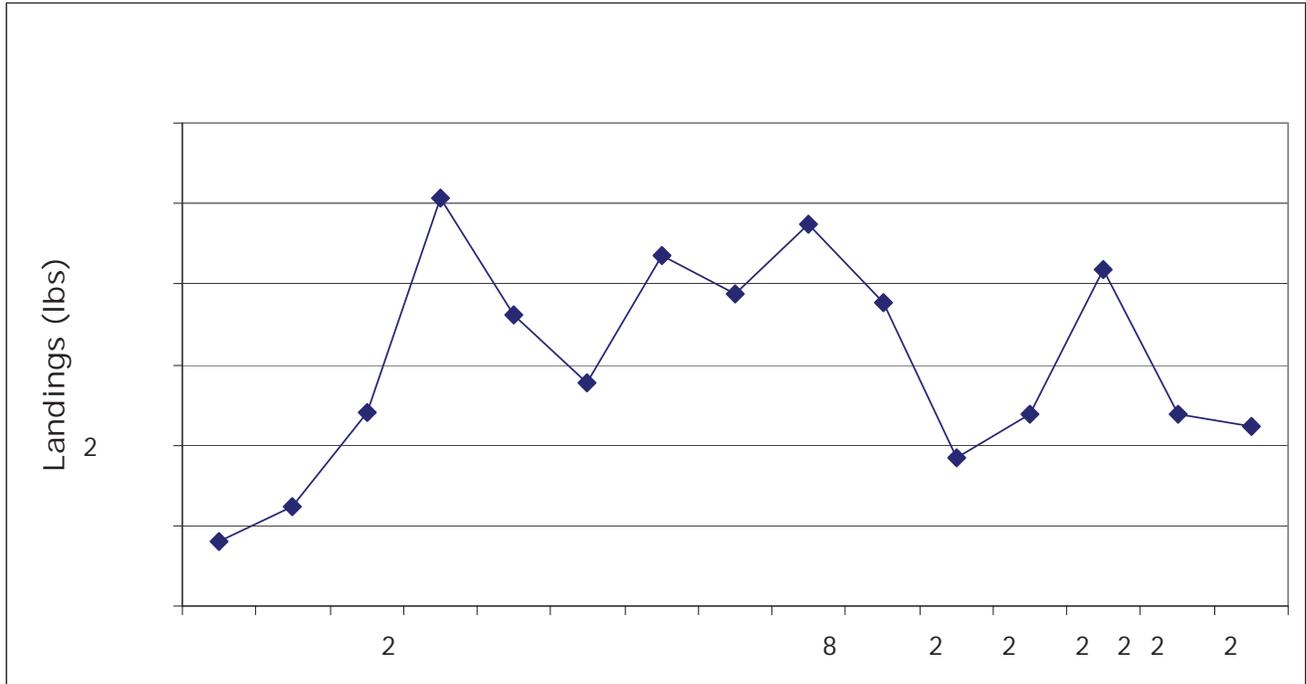
EELGRASS:

-  MA DEP EELGRASS MAPPING INVENTORY (2000 DATA)
-  EELGRASS BED SURVEYED BY WOODS HOLE GROUP IN JULY 2003

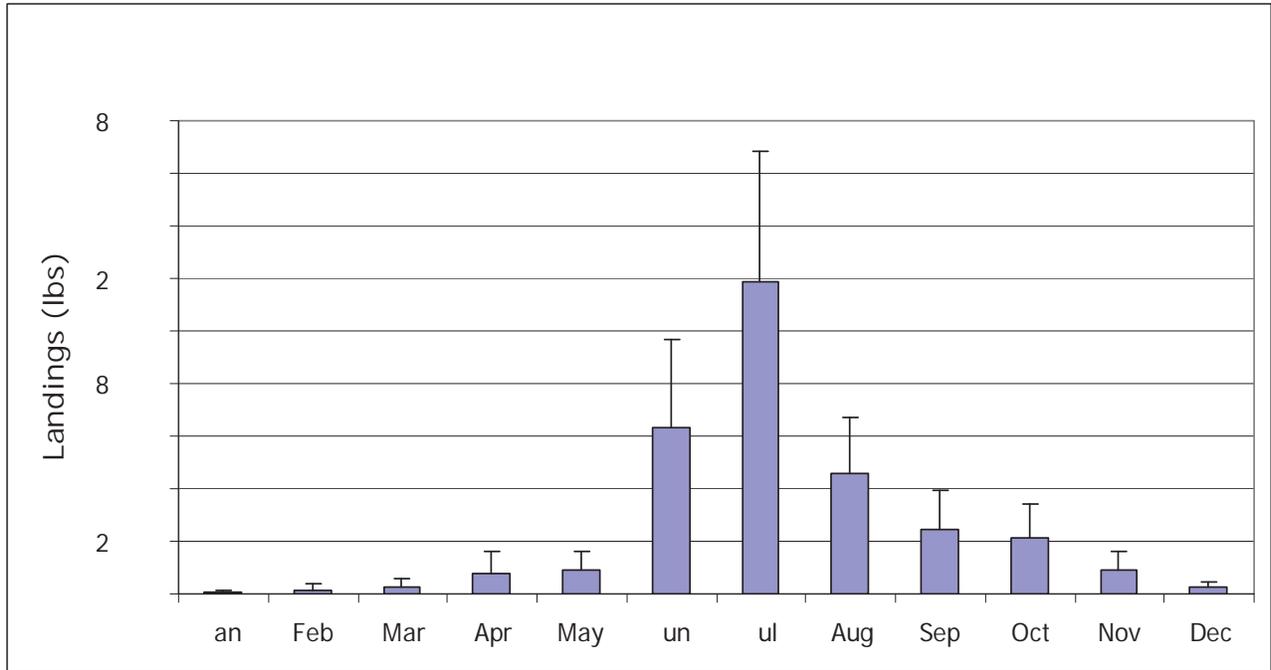
EELGRASS NOTE 1:
 EELGRASS PATCH OBSERVED BY OSI/ESS SURVEY ON JULY 25, 2006 (SEVERAL SMALL PATCHES RANGING IN SIZE FROM 1 TO 3 METERS IN DIAMETER - SEE REPORT No. 4.2.2-1)

NOTES:

1. THIS FIGURE INCLUDES SEDIMENT TYPE DATA FROM VISUAL INSPECTION OF SURFACE SEAFLOOR SEDIMENTS (< 0.5 FEET) COLLECTED DURING THE FOLLOWING GEOTECHNICAL PROGRAMS: 2001, 2003 AND 2005 OSI/ESS MARINE GEOPHYSICAL SURVEYS AND SEDIMENT SAMPLING PROGRAMS; 2002 AND 2005 ESS SEDIMENT SAMPLING PROGRAM; AND FROM 1987 USGS MISCELLANEOUS FIELD STUDY MAP MF-1911, OHARA & OLDALE 1987.
2. SAND WAVE HEIGHTS ARE BASED ON THE ANALYSIS OF HYDROGRAPHIC DATA AND ARE MEASURED FROM WAVE CREST TO WAVE TROUGH. IN AREAS EXHIBITING VARIABLE SAND WAVE HEIGHTS, THE MAXIMUM OBSERVED HEIGHT WAS USED FOR MAPPING. ADDITIONAL INFORMATION REGARDING THE INTERPRETATION PRESENTED CAN BE FOUND IN OSI REPORT NO. 03ES039 (2003) AND 05ES024 (2005).
3. THE SAND WAVE INFORMATION PRESENTED ON THIS DRAWING REPRESENTS THE RESULTS OF SURVEYS PERFORMED BY OCEAN SURVEYS, INC. ON 15 JUNE-7 JULY 2003 (SHADED AREA) AND 21 JUNE-16 JULY 2005 (BOLD LINE) AND CAN ONLY BE CONSIDERED AS INDICATING THE CONDITIONS EXISTING AT THAT TIME.
4. SHELLFISH SUITABILITY AREA INFORMATION OBTAINED FROM MASSGIS, AND IS DATED JUNE 2004. THE MASSGIS DATALAYER DESCRIPTION STATES, "THE POLYGONS DELINEATE AREAS THAT ARE BELIEVED TO BE SUITABLE FOR SHELLFISH BASED ON THE EXPERTISE OF THE MASSACHUSETTS DIVISION OF MARINE FISHERIES, THE OPINION OF LOCAL MASSACHUSETTS SHELLFISH CONSTABLES, AND INFORMATION CONTAINED IN MAPS AND STUDIES OF SHELLFISH IN MASSACHUSETTS. THE AREAS COVERED INCLUDE SITES WHERE SHELLFISH HAVE HISTORICALLY BEEN SIGHTED, BUT MAY NOT CURRENTLY SUPPORT ANY SHELLFISH. THE SHELLFISH SUITABILITY AREAS WERE NOT VERIFIED IN THE FIELD AND THE BOUNDARIES WERE NOT SURVEYED. FOR THESE REASONS, THE AREAS SHOULD BE USED ONLY AS GUIDES TO THE APPROXIMATE LOCATIONS OF POTENTIAL HABITATS."
5. COORDINATES OF YARMOUTH AQUACULTURE LEASES PROVIDED BY YARMOUTH NATURAL RESOURCES DEPARTMENT IN AUGUST 2002.
6. MA DEP 2000 EELGRASS MAPPING INVENTORY DATA PROVIDED BY MA DEP IN JUNE 2005.

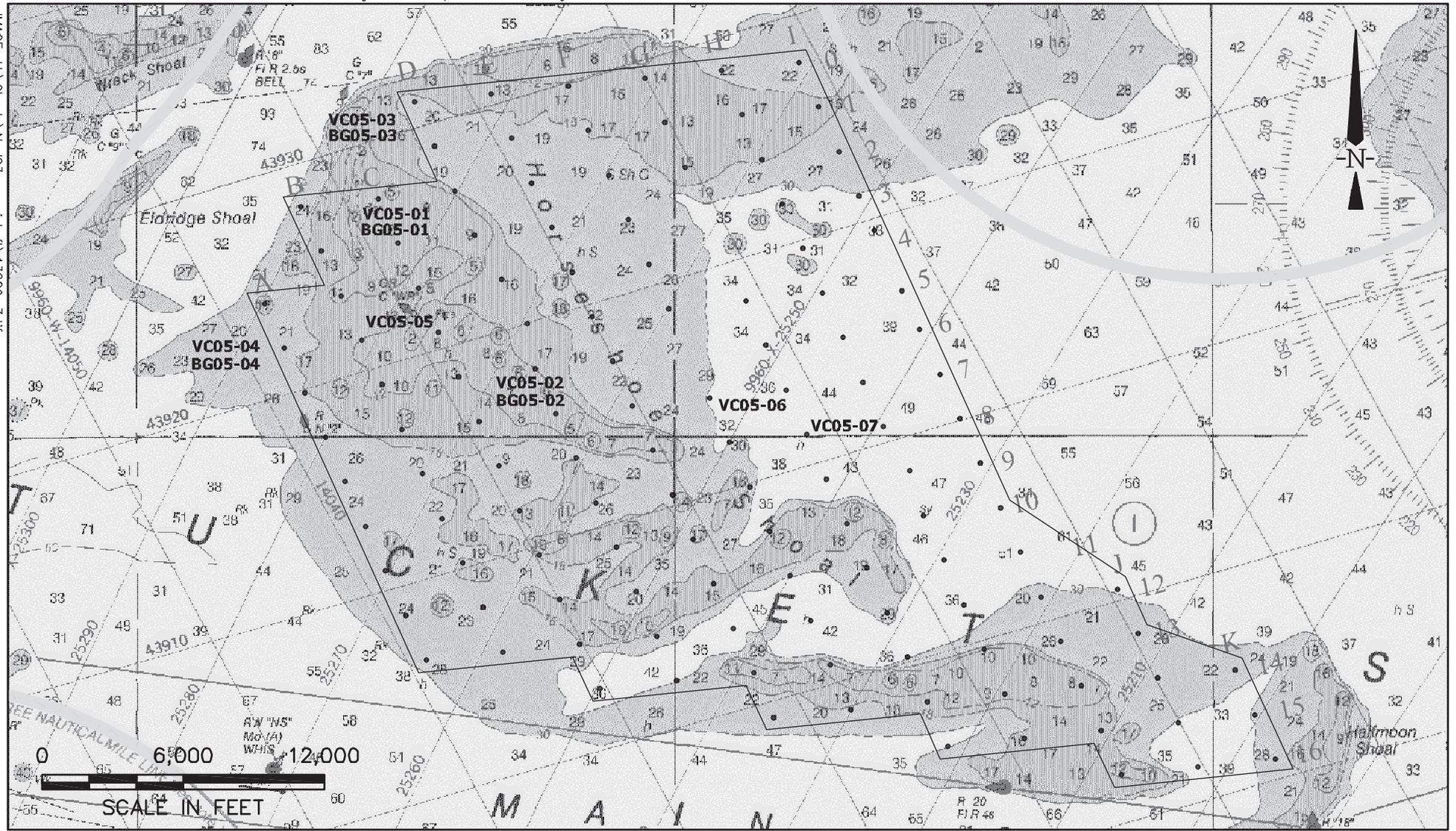


CAPE WIND ENERGY PROJECT
 Total Annual State-Regulated lobster landing from
 D F Area 1 from 1982 through 2012
 Source *Marine Fisheries Commercial Data 1* - 2
 Figure .2.5-1



CAPE WIND ENERGY PROJECT
 Mean Monthly State-Regulated Commercial Landings from D F Area 1 from
 1 through 2
 Source *Marine Fisheries Commercial Data 1 -2*
 Figure .2.5-11

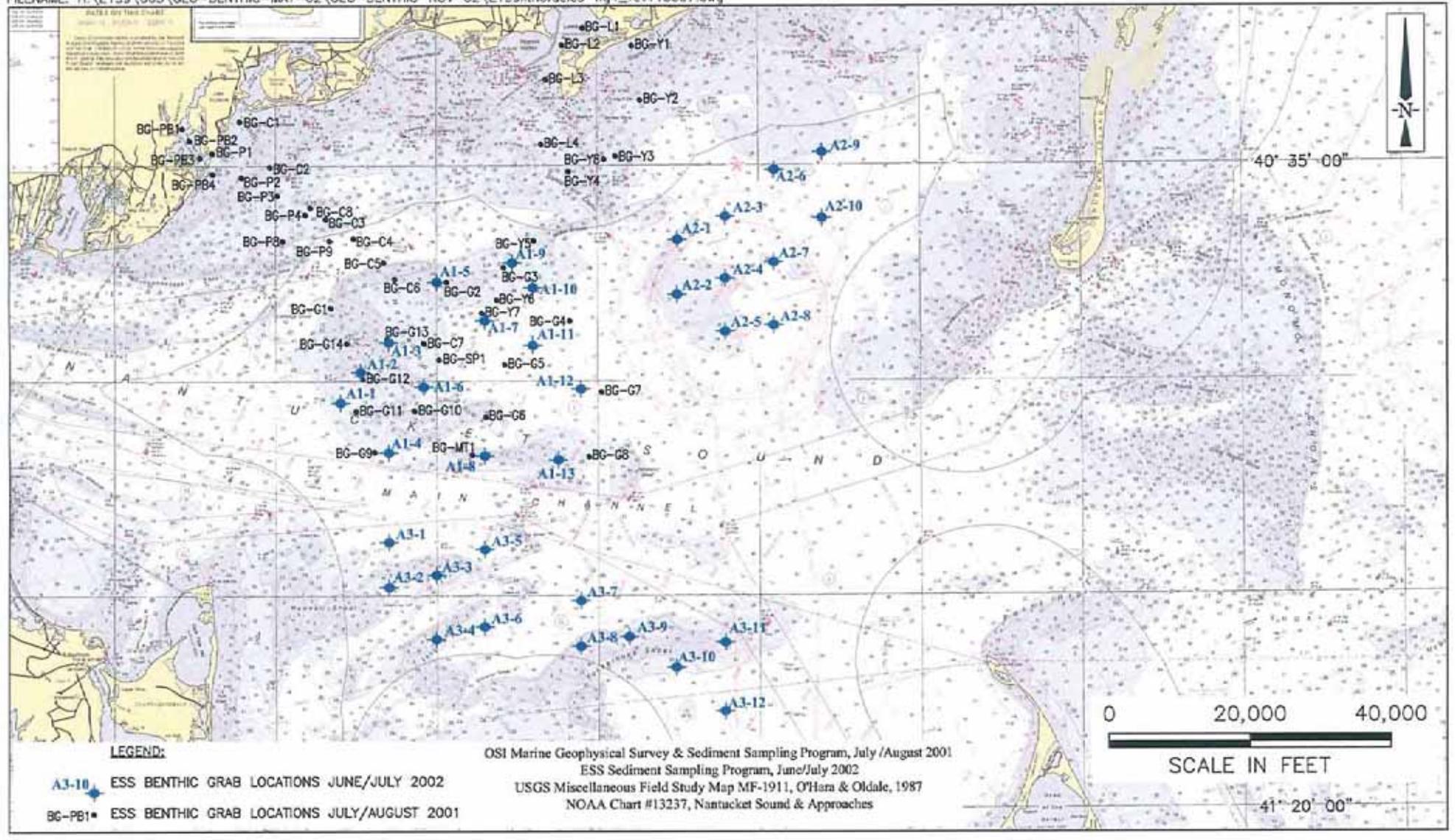
IMAGE: H:\Charts\Nod83-mo-isl-ft\13229-3.tif
IMAGE: H:\Charts\Nod83-mo-isl-ft\13229-4\13229-4.tif



Cape Wind Associates, LLC.
Cape Wind Project

CAPE WIND ENERGY PROJECT
Vibracore and Benthic Grab Locations 2005 Field Program
Figure 4.2.5-1A

Scale: 1"=6,000'

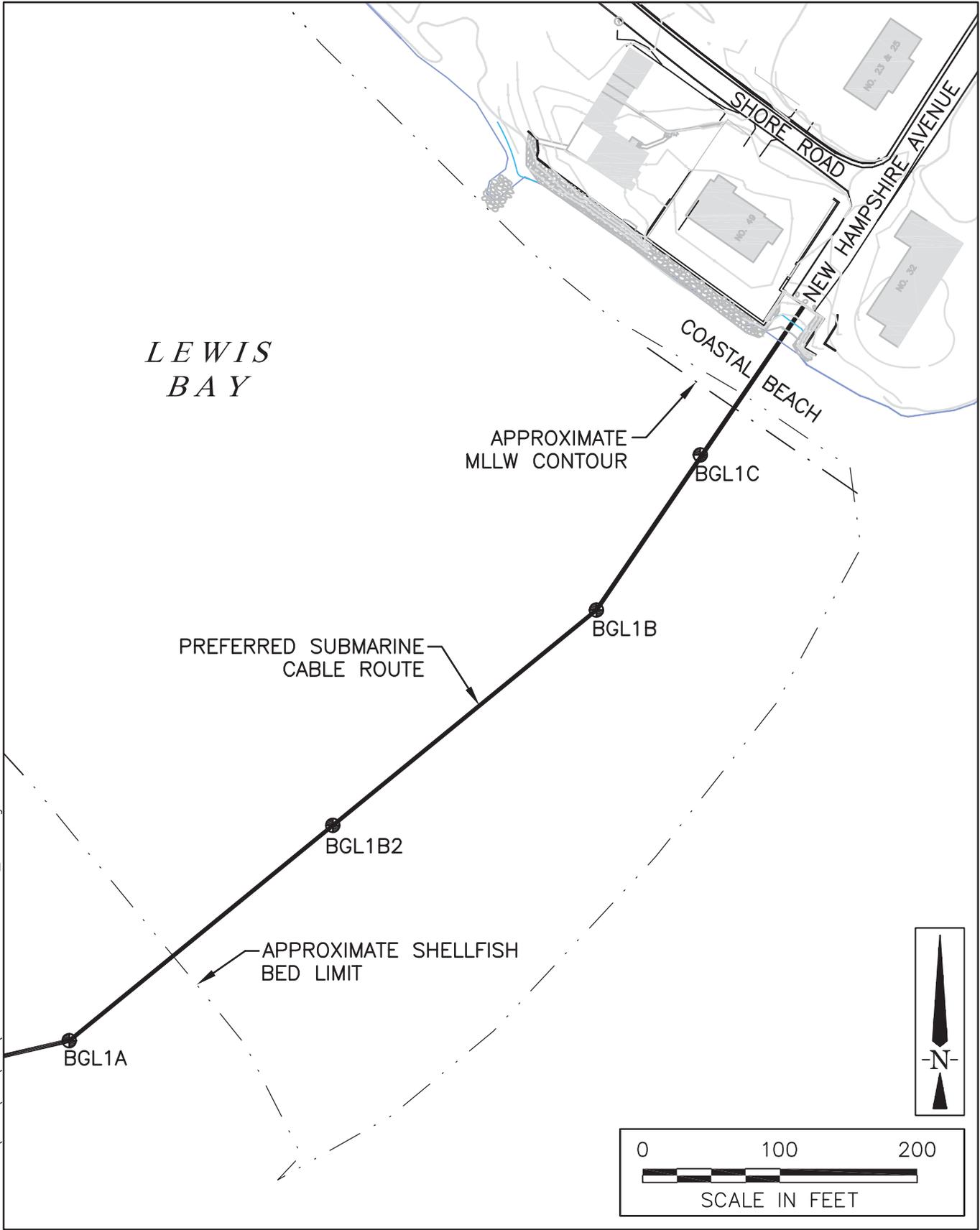


A-110

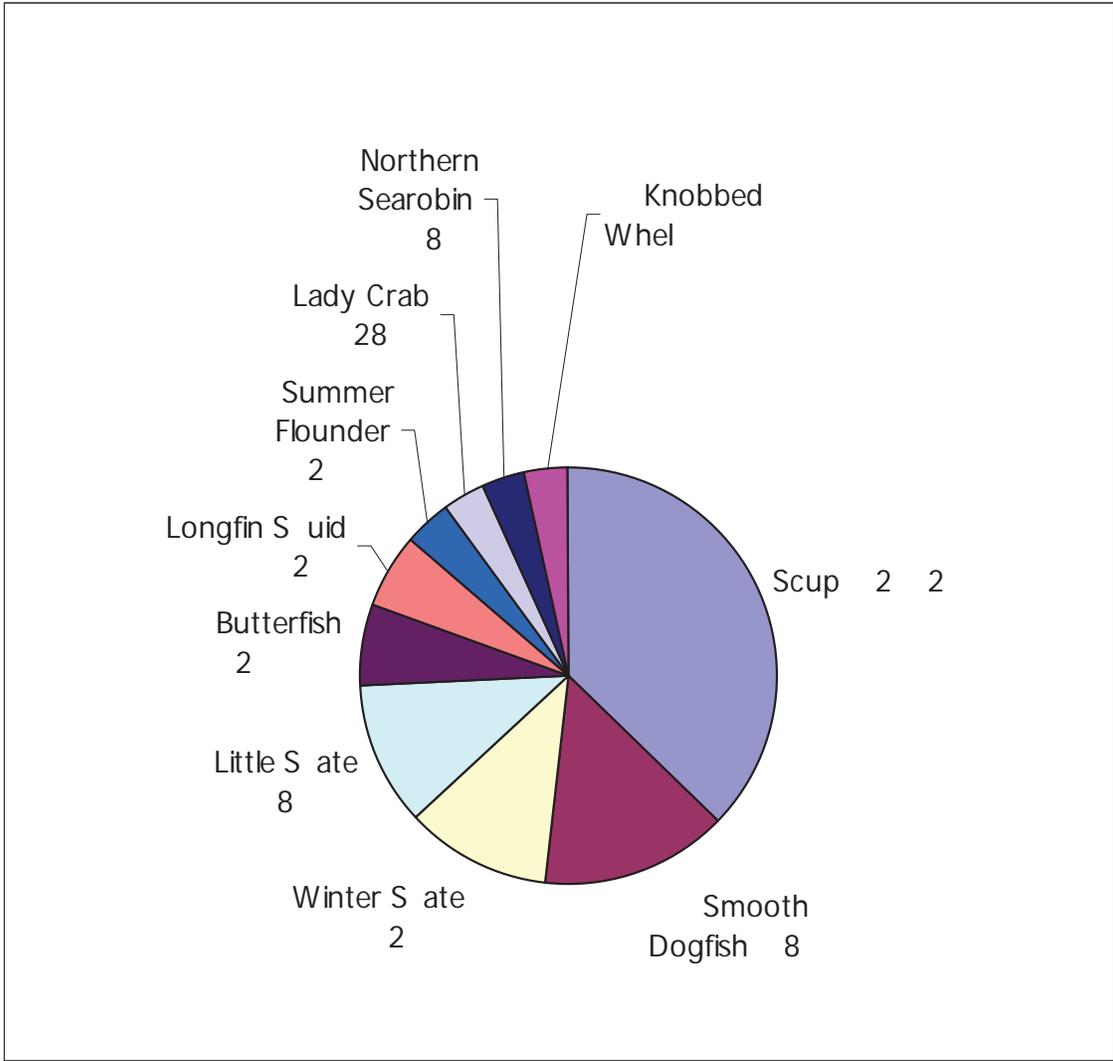
CAPE WIND ENERGY PROJECT
 Benthic Grab Sample Location
 Figure .2.5-1

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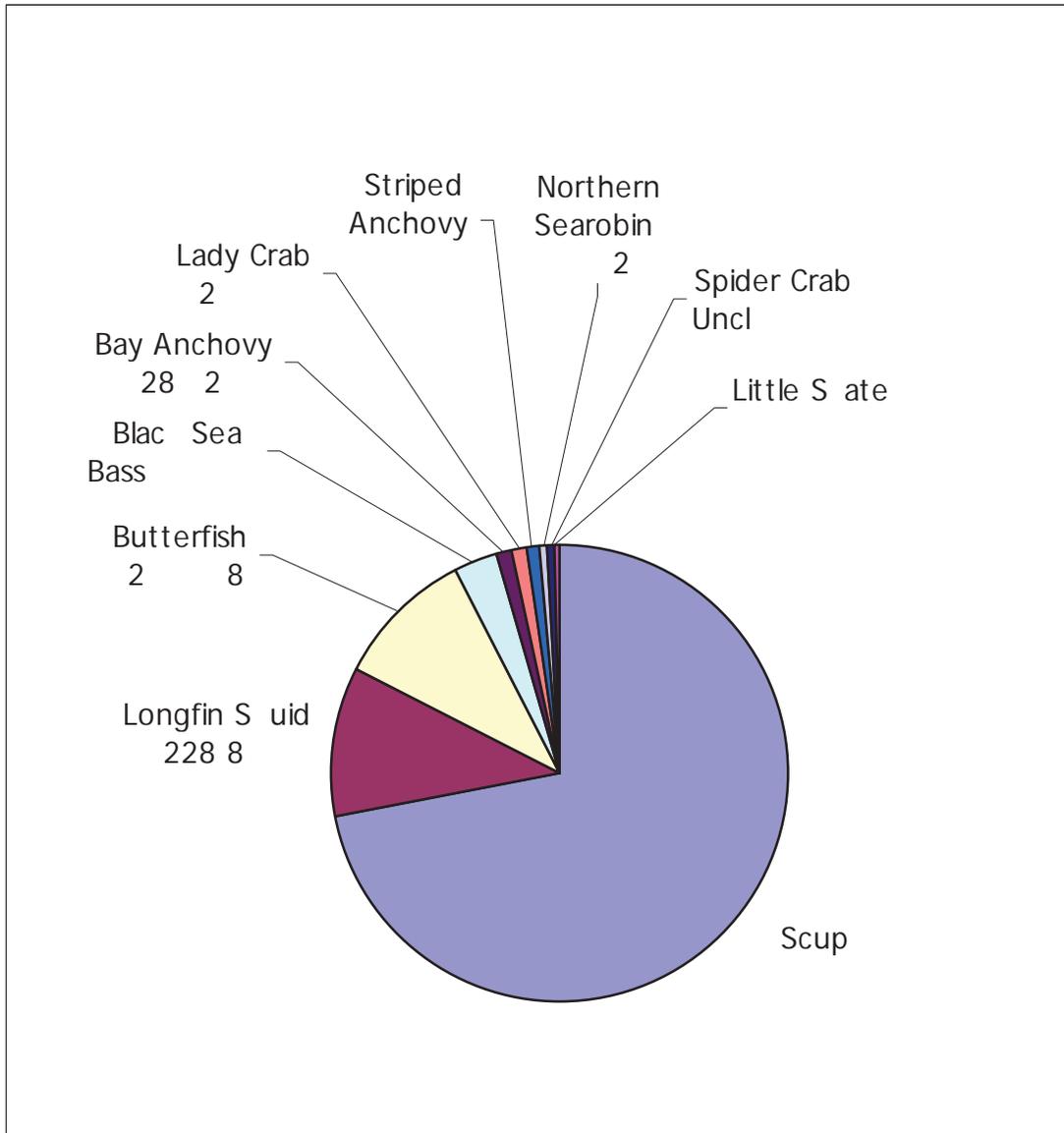
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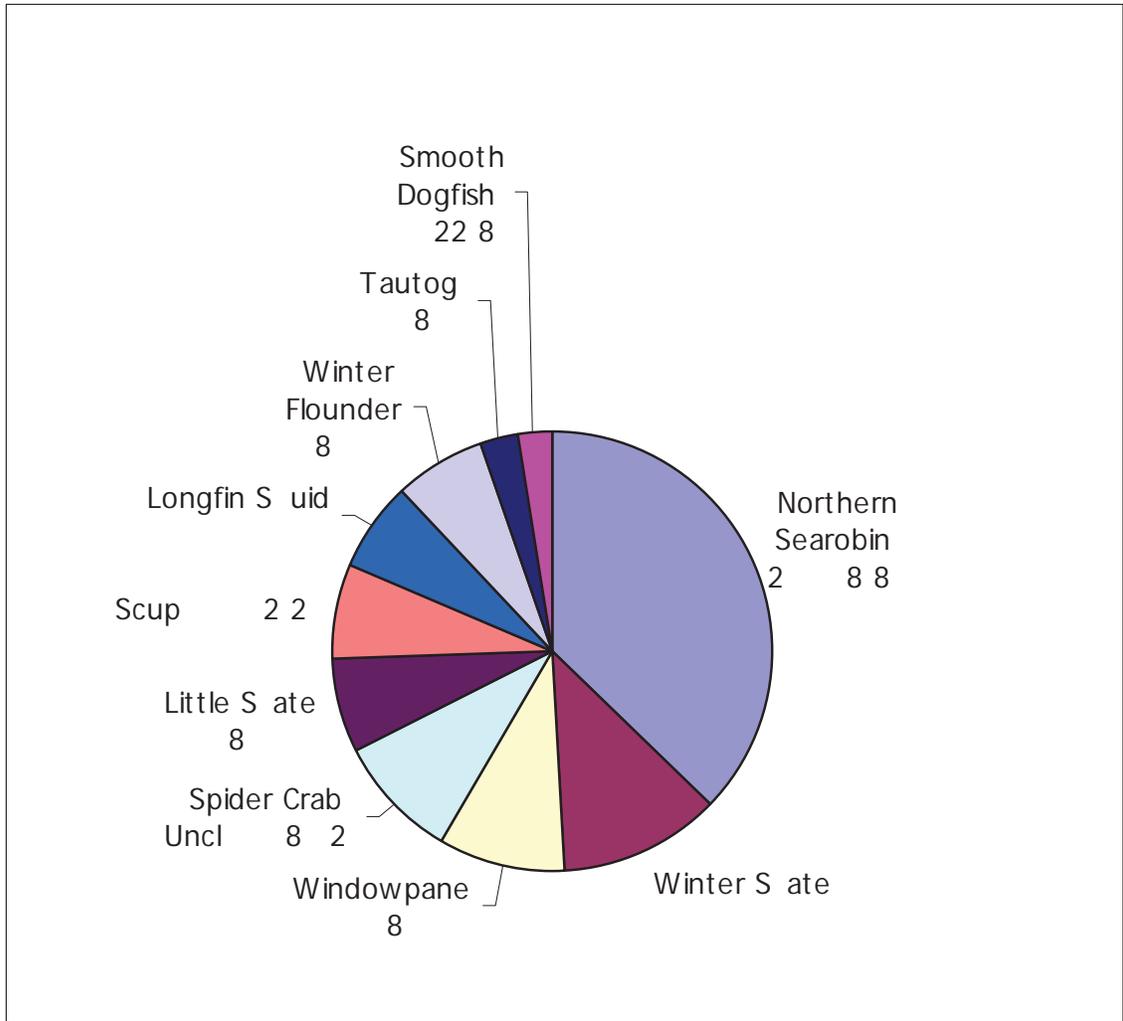
CAPE WIND ENERGY PROJECT
marine Invertebrate Sample location
Lewis Bay
Figure .2.5-2



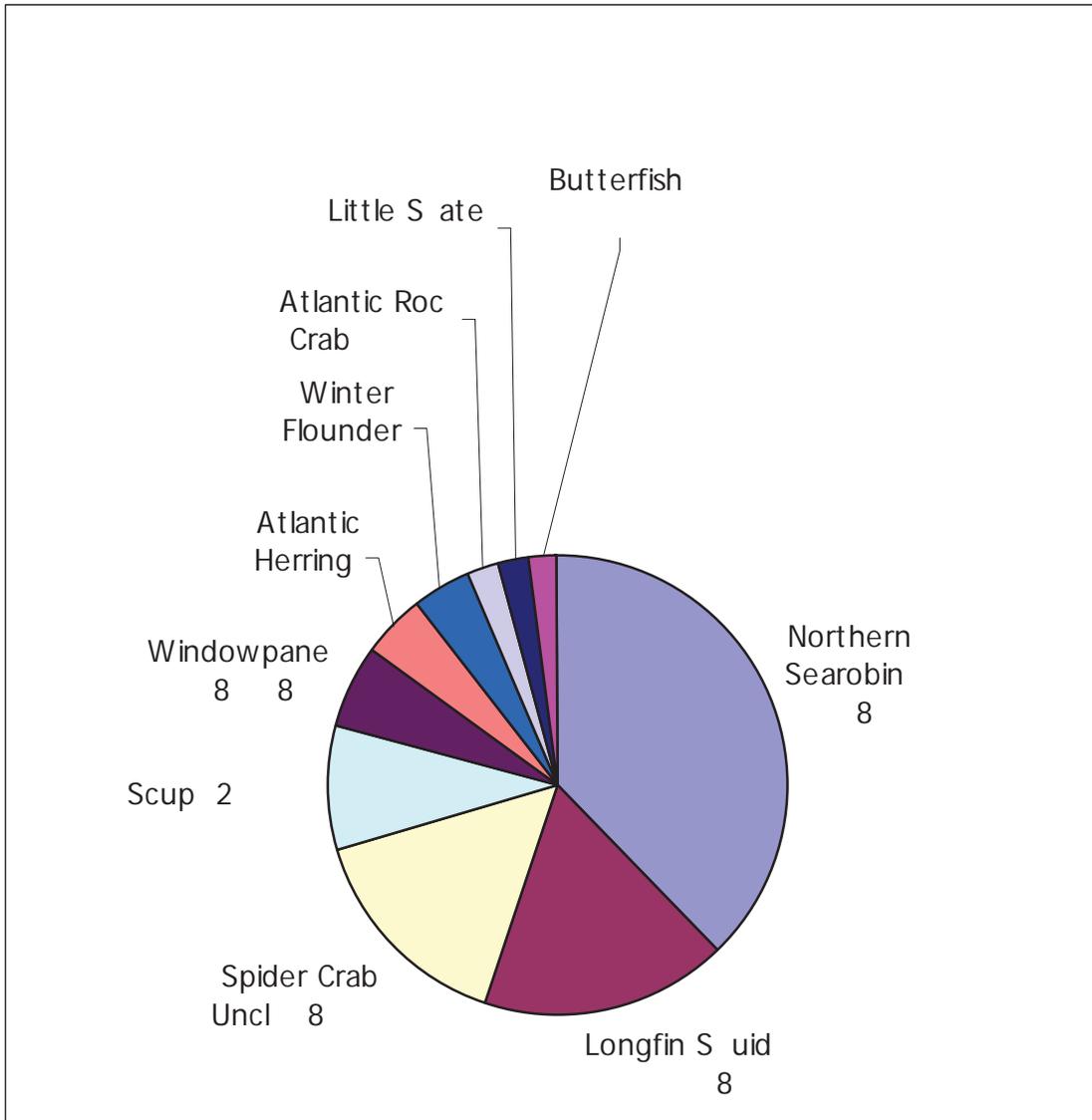
CAPE WIND ENERGY PROJECT
 Top 1 Species by Catch Weight (kg) Collected from
 Fall Marine Fisheries Resource Trawl Survey
 in Nantucket Sound from 1991-2002
 Source: D.F. Trawl Survey Data
 Figure .2.5-3



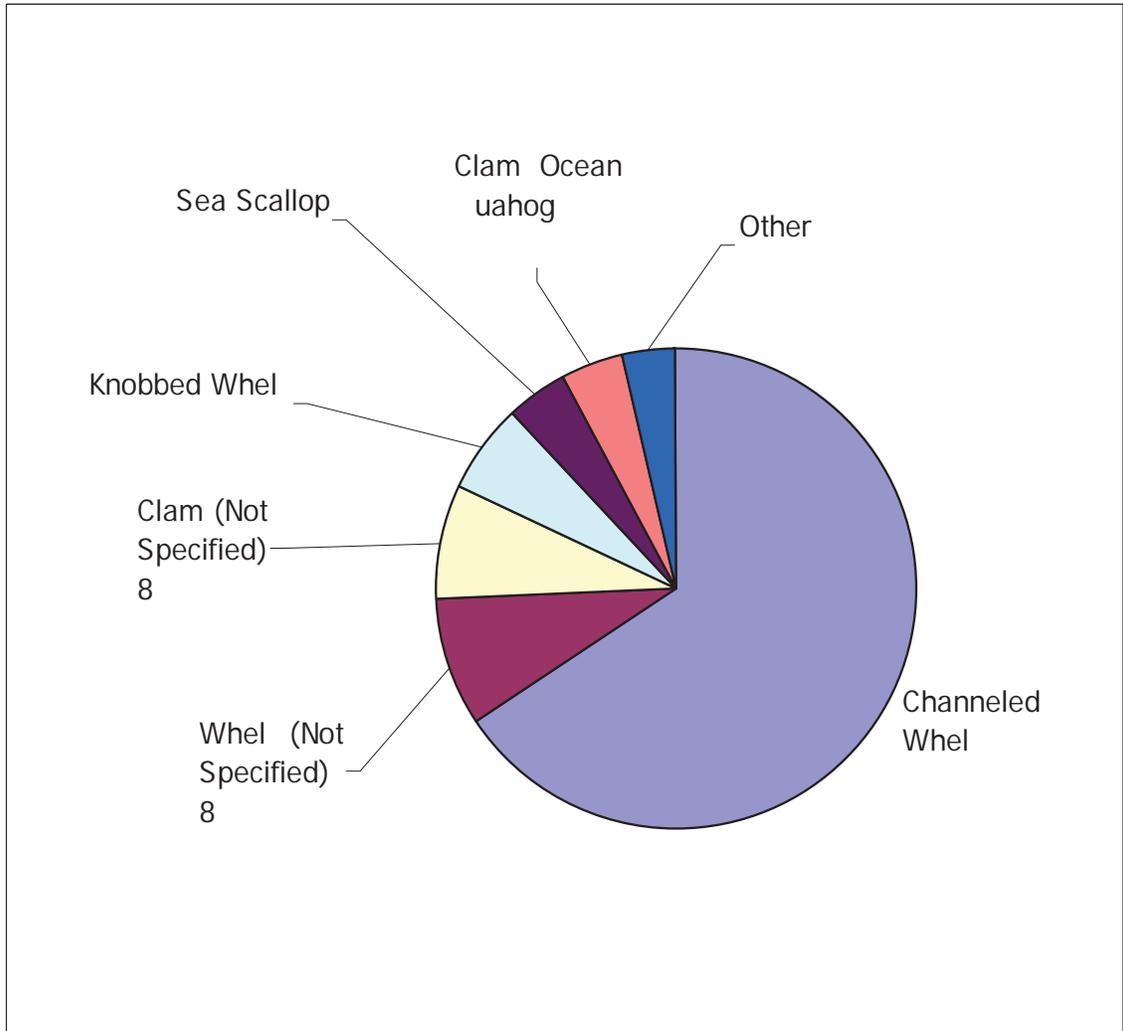
CAPE WIND ENERGY PROJECT
 Top 10 Species by Category Number Collected from Fall Marine Fisheries Resource Transect
 Survey in Nantucket Sound from 1991-2002
 Source: D. F. Transect Survey Data
 Figure 2.5-



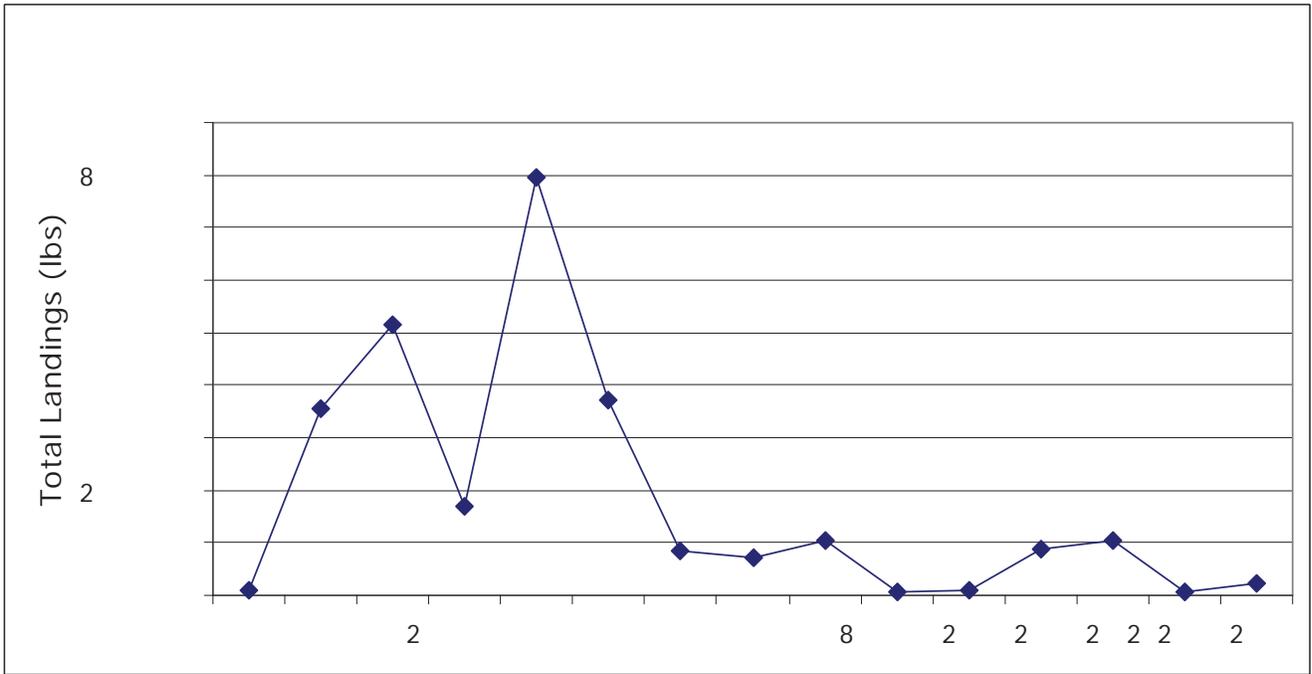
CAPE WIND ENERGY PROJECT
Top 10 Species by Catch Weight (kg) Collected from Spring Marine Fisheries Resource
Transect Survey in Nantucket Sound from 1991-2002
 Source: DFF Transect Survey Data
Figure .2.5-5



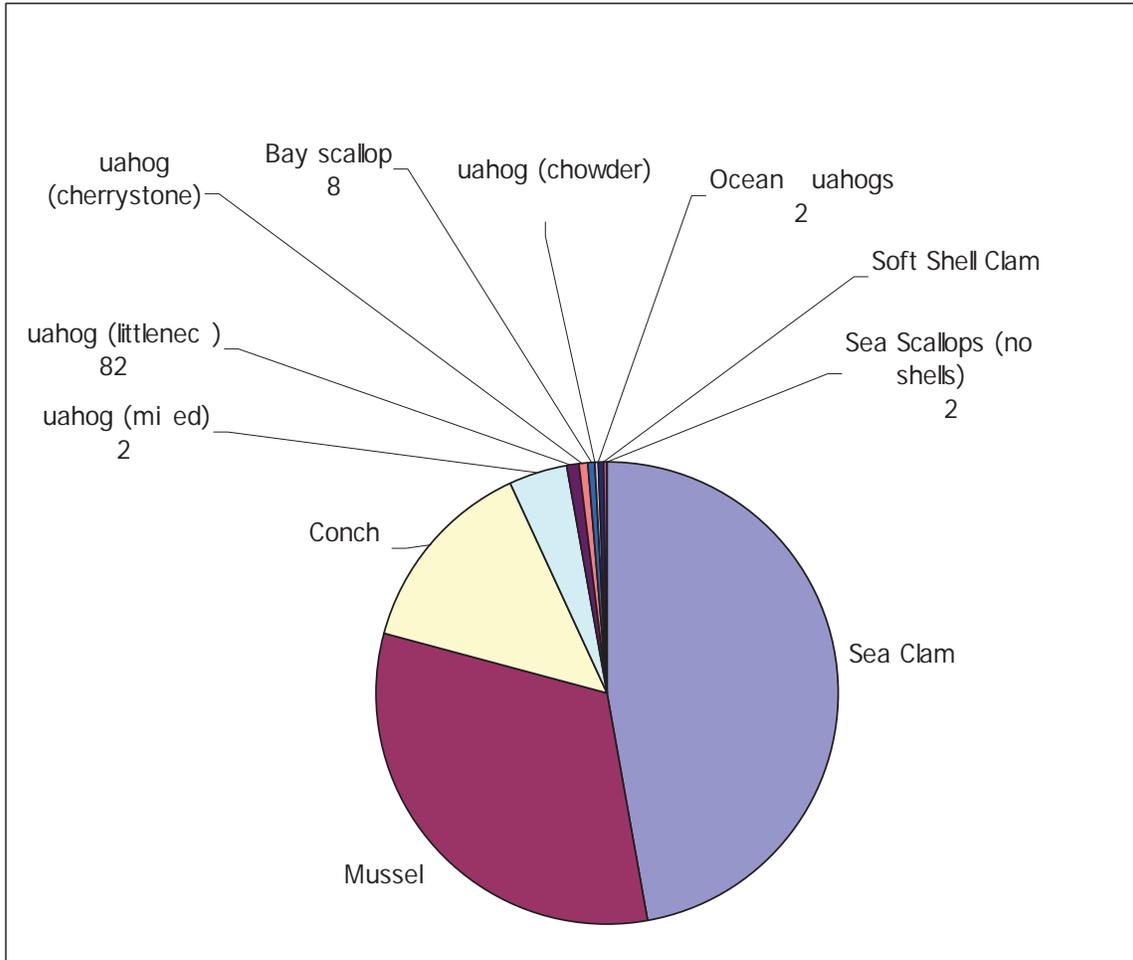
CAPE WIND ENERGY PROJECT
 Top 10 Species by Category Number Collected from Spring Marine Fisheries Resource Transect 1
 Survey in Nantucket Sound from 1991-2002
 Source: DDF Transect 1 Survey Data
 Figure 2.5-



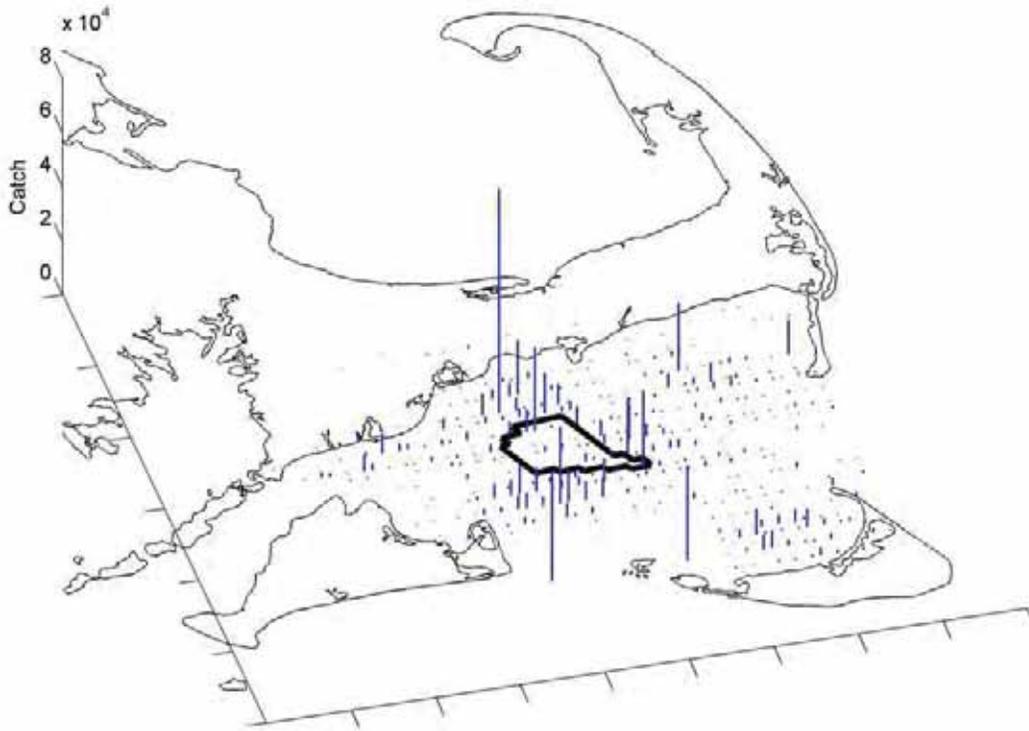
CAPE WIND ENERGY PROJECT
Top Federally-Reportable Species Identified from NFS Statistical
Area 5 from 1 through 2
Source: NFS Vehicle Trip Report Data for Area 5
Figure .2.5-



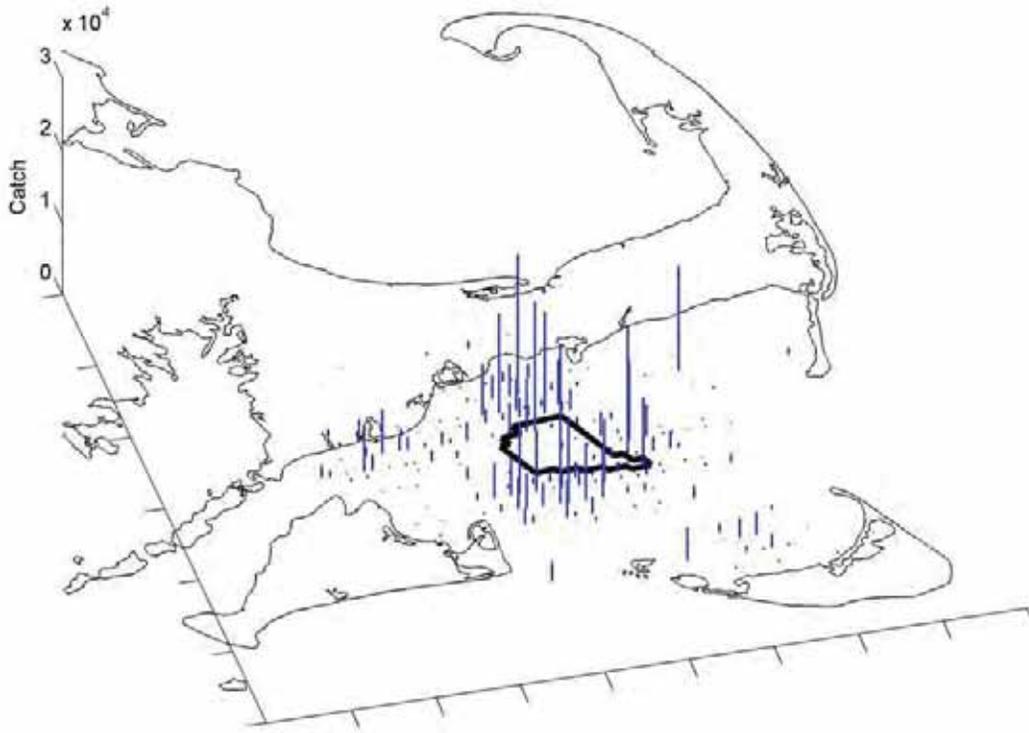
CAPE WIND ENERGY PROJECT
 Total Annual State-Regulated Landings of Scup from District 1
 Area 1 from 1991 through 2006
 Source: Marine Fisheries Commercial Data 1991-2006
 Figure 2.5-



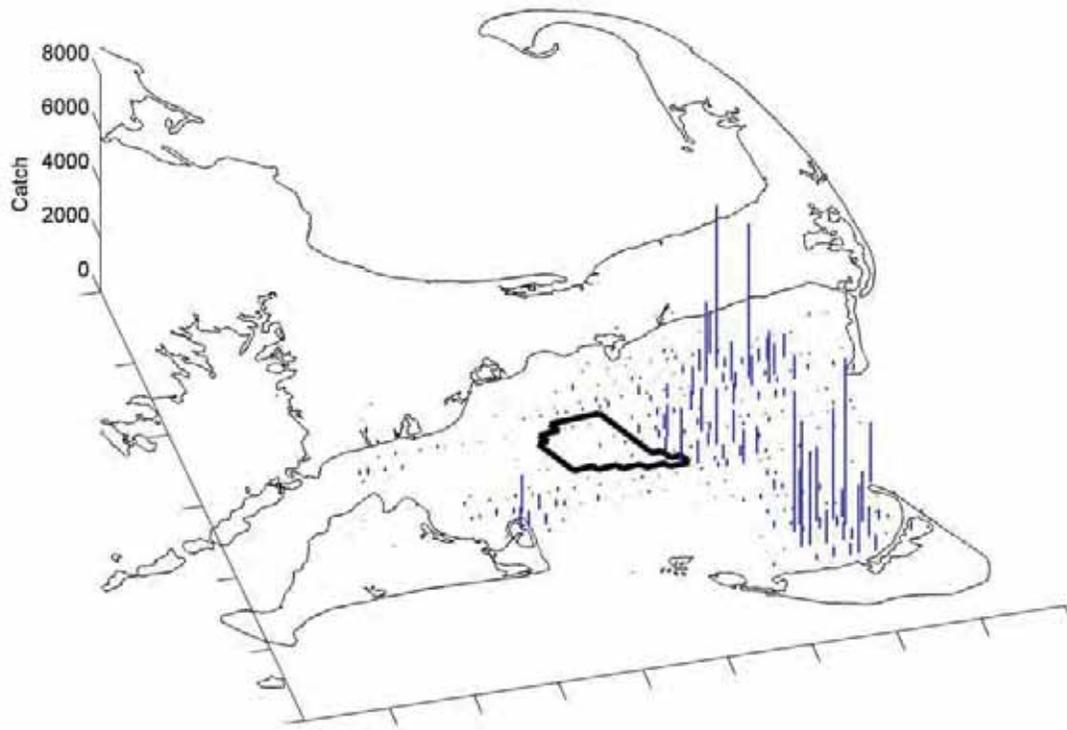
CAPE WIND ENERGY PROJECT
Percent of Total State-Regulated Landings for Various Shellfish Species Harvested
from D/F Area 1 from 1991 through 2002
 Source: *Marine Fisheries Commercial Data 1991-2002*
Figure .2.5-



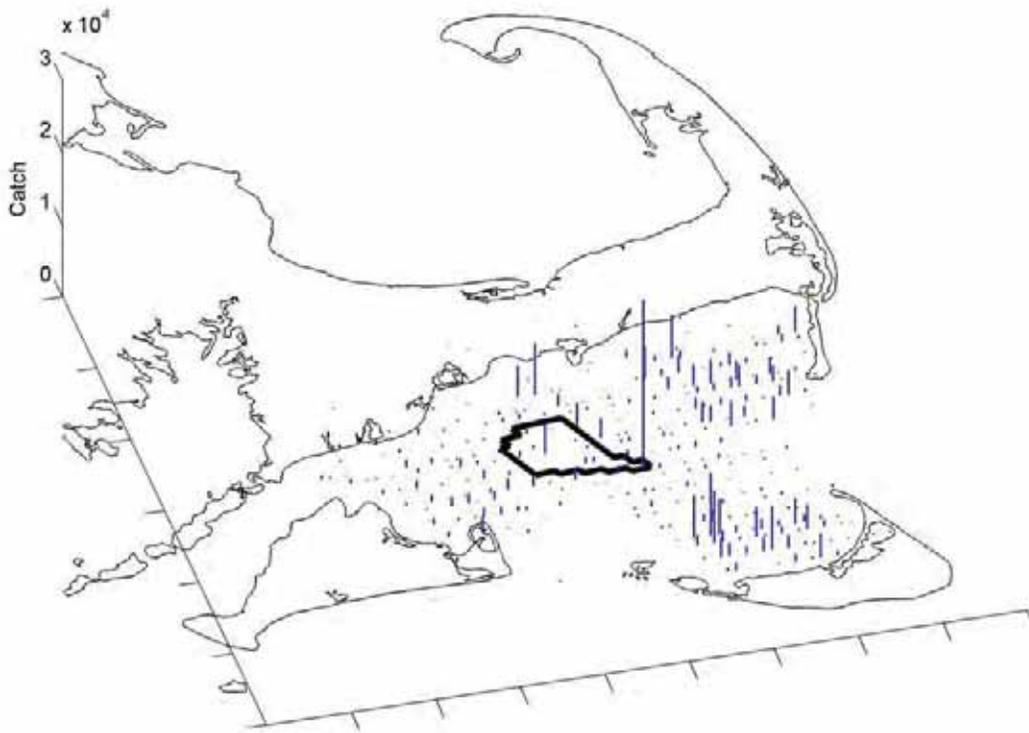
CAPE WIND ENERGY PROJECT
 Spatial Distribution of Average Annual Finfish Catch in Nantucket Sound 1 -2
 Source NOAA Fisheries VTR Data
 Figure 2. -1



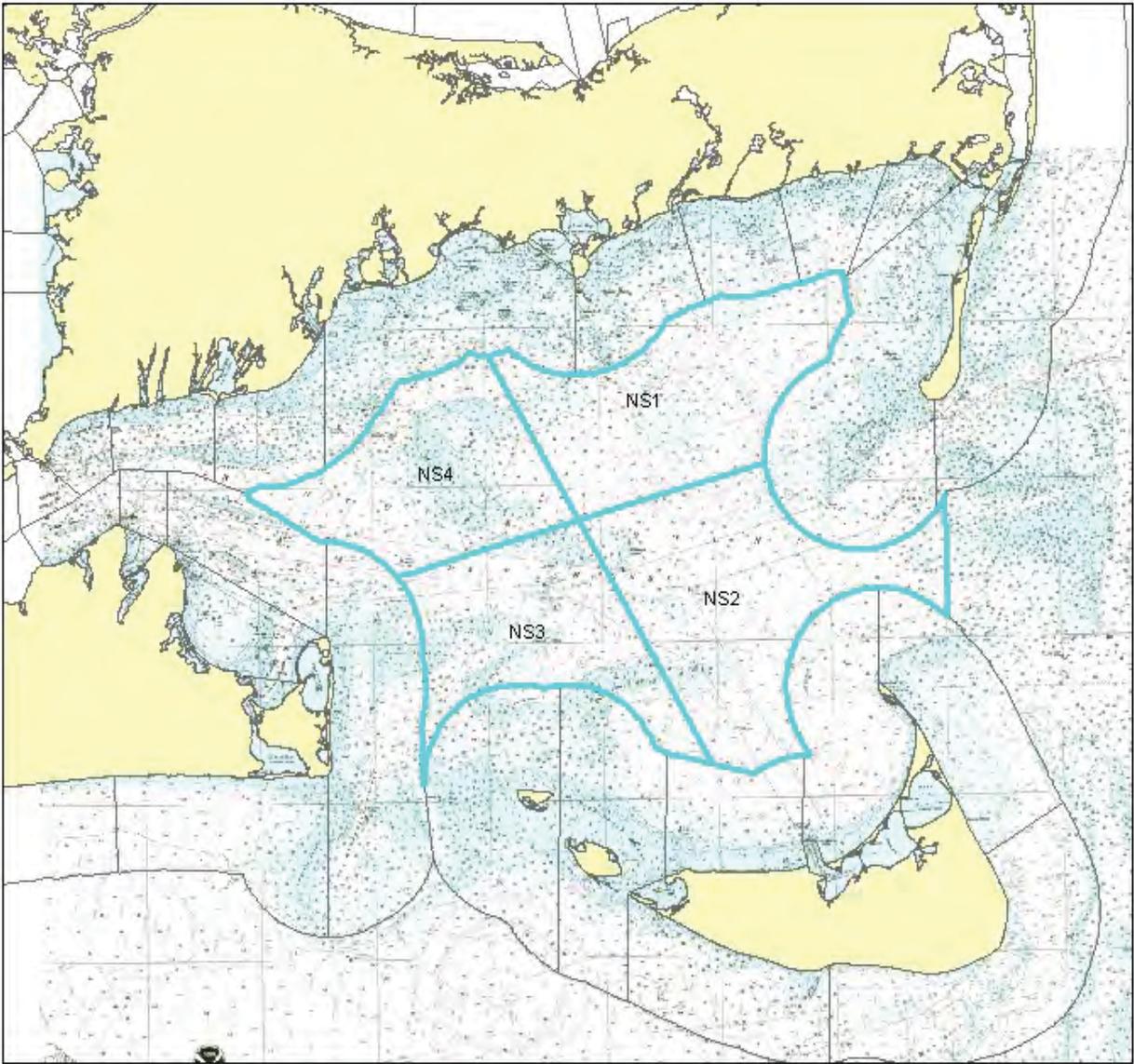
CAPE WIND ENERGY PROJECT
 Spatial Distribution of Average Annual Squid Catch in Nantucket Sound 1 -2
 Source NOAA Fisheries VTR Data
 Figure 2. -2



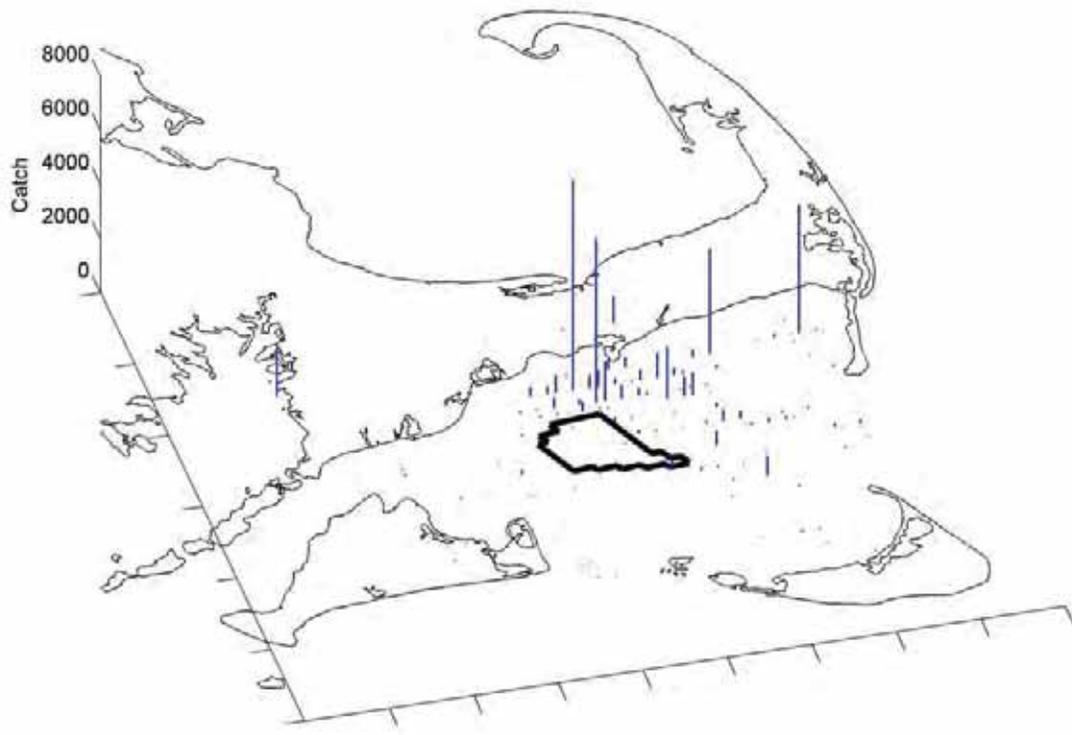
CAPE WIND ENERGY PROJECT
 Spatial Distribution of Average Annual Fluke Catch in Nantucket Sound 1 -2
 Source NOAA Fisheries VTR Data
 Figure 2. -3



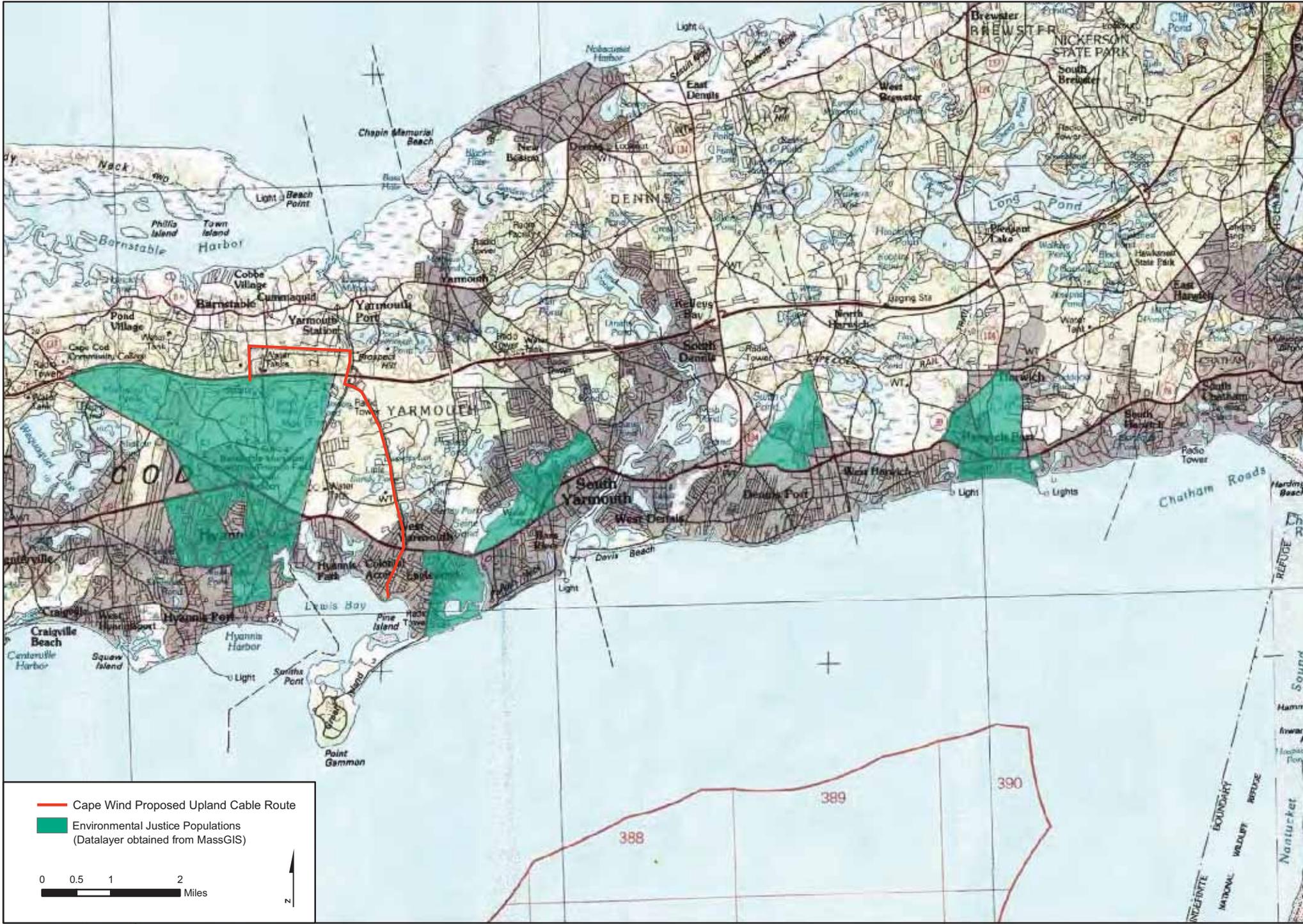
CAPE WIND ENERGY PROJECT
 Spatial Distribution of Average Annual Shellfish Catch in Nantucket Sound 1 -2
 Source NOAA Fisheries VTR Data
 Figure .2. -



CAPE WIND ENERGY PROJECT
Four Designated Shellfishing Growing Area in Nantucket Sound
Figure .2. -5



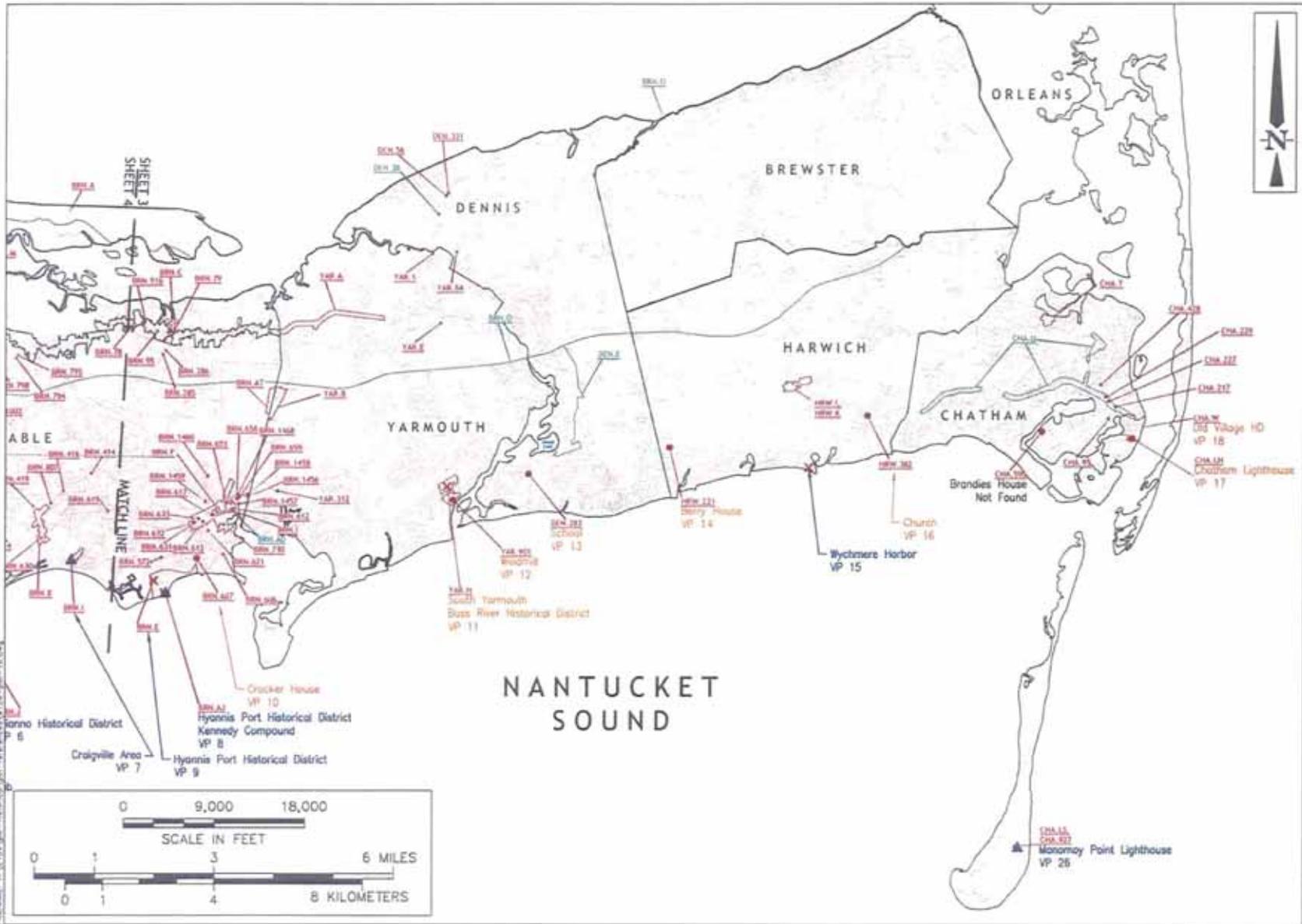
CAPE WIND ENERGY PROJECT
 Spatial Distribution of Average Annual Charter and Party Boat Catch in Nantucket Sound 1 -2
 Source NOAA Fisheries VTR Data
 Figure 2. -



CAPE WIND ENERGY PROJECT - Environmental Justice Population Datalayer obtained from a GIS

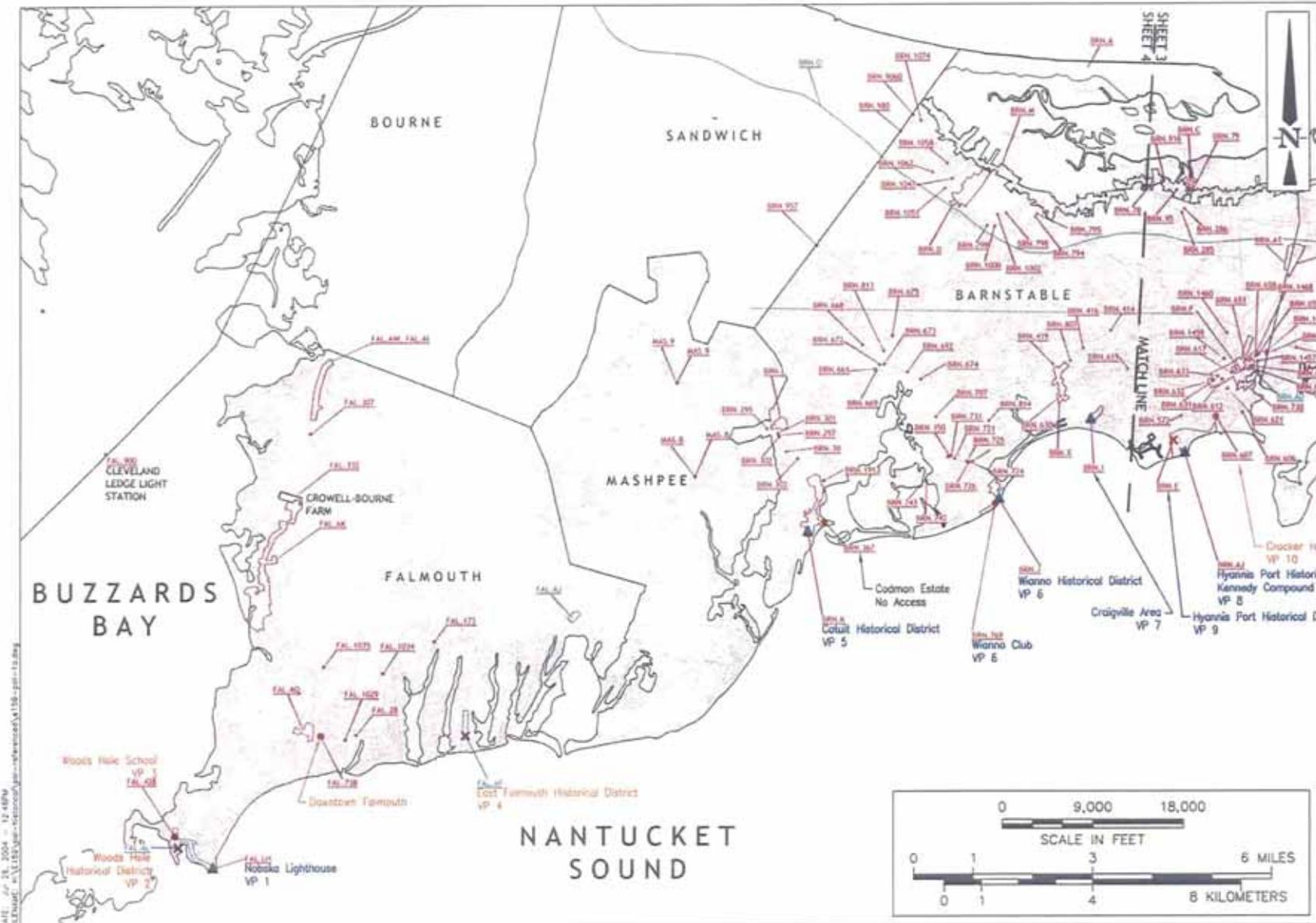
Figure .3.3-1

A-128



CAPE WIND ENERGY PROJECT
 Viewed Reconnaissance for Designated Historic Properties
 Sheet 3 of
 Figure 3. -1

DATE: 10/15/2013 10:47:27 AM



CAPE WIND ENERGY PROJECT

Viewed Reconnaissance for Designated Historic Properties

Sheet of
Figure .3. -1



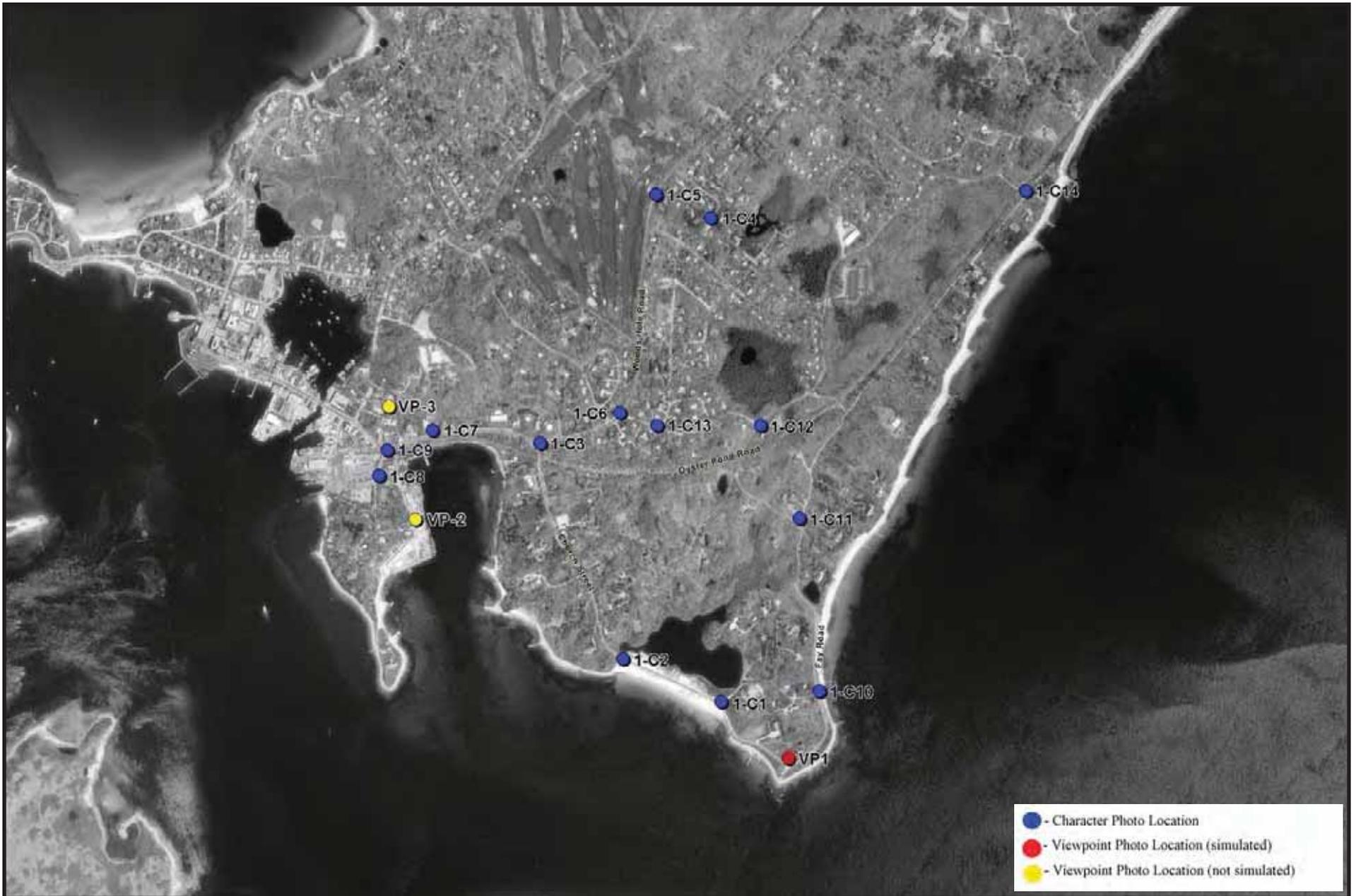
Viewpoint 1
View of Representative Historic Structure
S/NRHP Historic Property – Nobska Lighthouse



Viewpoint 1
Existing View to South East Toward Proposed Project

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Viewpoint 1 - Nobska Lighthouse - Wood Hole Falmouth Cape Cod
Figure .3. -2 Sheet 1 of



CAPE WIND ENERGY PROJECT
 Viewpoint 1 - Nobeke Light Tower - Falmouth, Cape Cod
 Figure 3. -2 Sheet 2 of



A-135

Source: Environmental Design Research P.C.

CAPE WIND ENERGY PROJECT
 Viewpoint 1 - Nobekeigton - Falmouth Cape Cod
 Figure .3. -2 Sheet 3 of



Viewpoint 1-C1



Viewpoint 1-C1



Viewpoint 1-C2



Viewpoint 1-C3



Viewpoint 1-C4



Viewpoint 1-C5

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 1 - Falmouth Cape Cod
Figure 3. -2 Sheet of



Viewpoint 1-C6



Viewpoint 1-C7



Viewpoint 1-C8



Viewpoint 1-C9



Viewpoint 1-C10



Viewpoint 1-C11

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 1 - Falmouth Cape Cod
Figure 3. -2 Sheet 5 of



Viewpoint 1-C12



Viewpoint 1-C13



Viewpoint 1-C14



Viewpoint 2

Local Woods Hole Historic District MCH No. FAL.AL Little Harbor Woods Hole



Viewpoint 2-CE-3

View Southeast from southern portion of MHC No. FAL.AL



Viewpoint 3-CE-4

Woods Hole School MCH No. FAL.AL
24 School Street, Woods Hole

Source Environmental Design Research P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 1 - Falmouth Cape Cod
Figure .3. -2 Sheet of



Viewpoint 3-CE-4
View Southeast from southern portion of MCH No. FAL.AL



Viewpoint 4-CE-9 Local East Falmouth Historic District MCH No. FAL.AF View
Southwest from 481 Davisville Rd. No open view toward Wind Park.

Source: Environmental Design Research P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 1 - Falmouth Cape Cod
Figure .3. -2 Sheet of



Viewpoint 5-CE-6
Representative Historic Structure in Cotuit Historic District
249 Ocean View Avenue
MHC No. BRNK. HD



Viewpoint 5
Existing View South East Toward Proposed Project
From Loop Beach, South of Cotuit Historic District

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Viewpoint 5 - Cotuit Barnstable Cape Cod
Figure 3.2 Sheet of



CAPE WIND ENERGY PROJECT
 Viewpoint 5 - Cotuit, Cape Cod
 Figure 3.2 - 2 South of



Viewpoint 5-C1



Viewpoint 5-C2



Viewpoint 5-C3



Viewpoint 5-C4



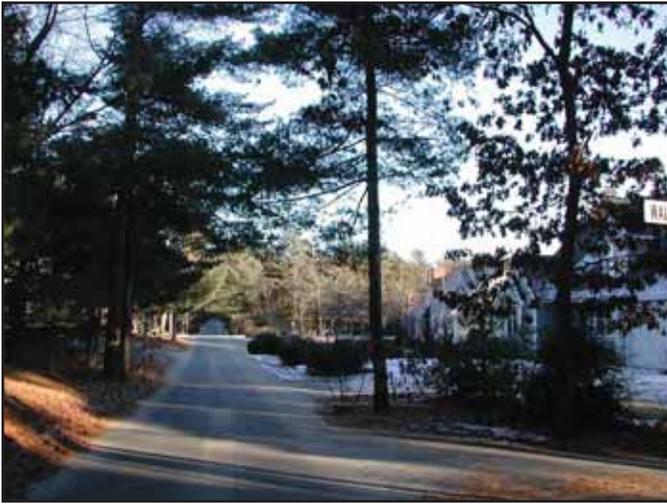
Viewpoint 5-C5



Viewpoint 5-C6

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 5 - Cotuit Cape Cod
Figure 3. -2 Sheet 1 of



Viewpoint 5-C7



Viewpoint 5-C8



Viewpoint 5-C9



Viewpoint 5-C10
Codman Estate MHC No. BRN. 367
(Posted - no access)

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 5 - Cotuit Cape Cod
Figure 3. -2 Sheet 11 of



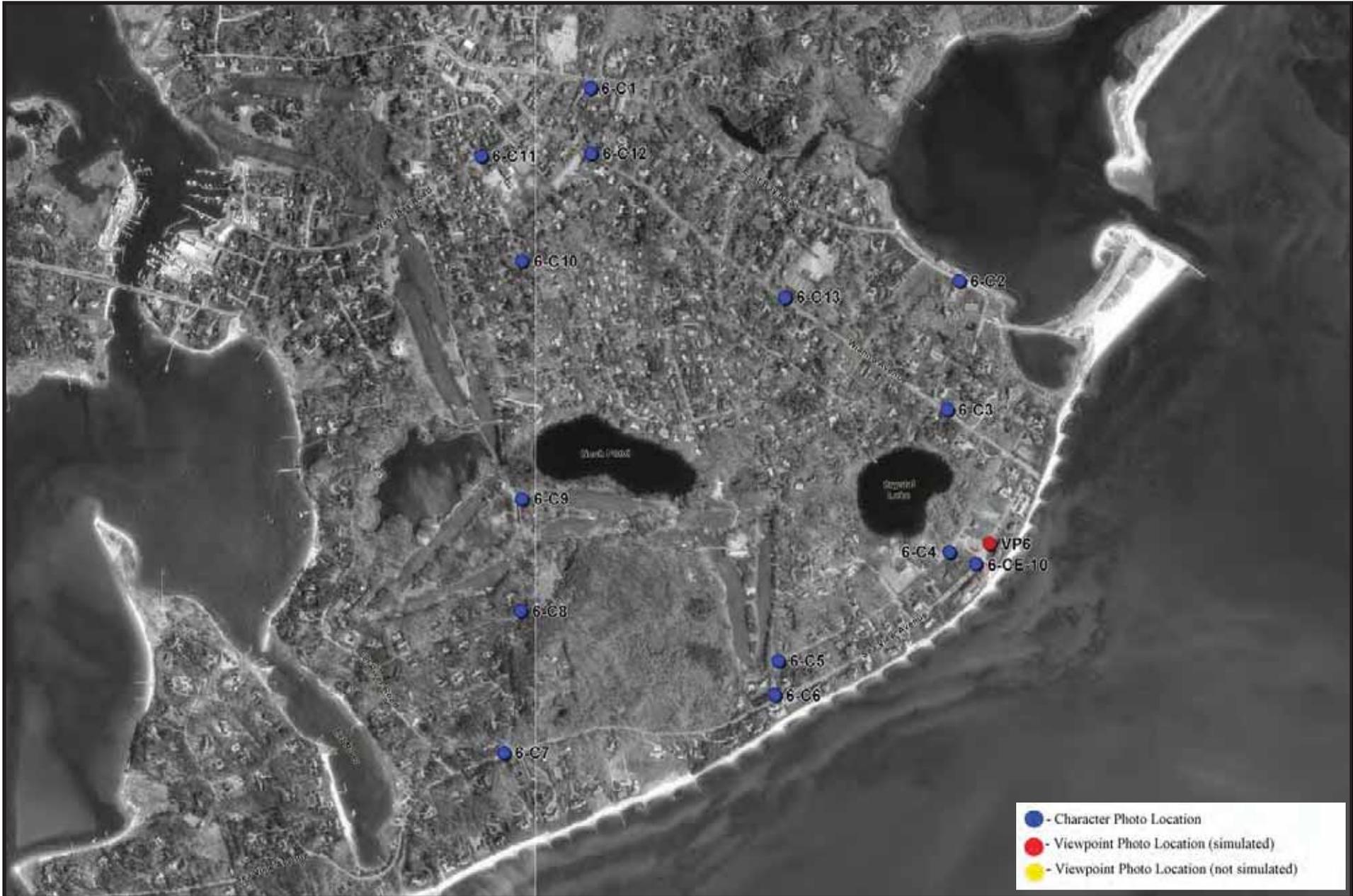
Viewpoint 6
Representative Property in Wianno Historic District
71 Seaview Avenue, Osterville
MHC No. BRN.J



Viewpoint 6
Existing View South East Toward Proposed Project

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
View point - Wianno Outer Island, Barnstable, Cape Cod
Figure .3. -2 Sheet 12 of



Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
 Viewpoint - Wianno Cape Cod
 Figure 3.2 - Sheet 13 of 13



Viewpoint 6-CE-10

Wianno Club, MHC No. BRN.769 107 Seaview Avenue, Osterville



Viewpoint 6-C1



Viewpoint 6-C2



Viewpoint 6-C3



Viewpoint 6-C4



Viewpoint 6-C5

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint - Wianno Cape Cod
Figure 3. -2 Sheet 1 of



Viewpoint 6-C6



Viewpoint 6-C7



Viewpoint 6-C8



Viewpoint 6-C9



Viewpoint 6-C10



Viewpoint 6-C11

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint - Wianno Cape Cod
Figure 3. -2 Sheet 15 of



Viewpoint 6-C12



Viewpoint 6-C13

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint - Wianno Cape Cod
Figure .3. -2 Sheet 1 of



Viewpoint 7
Representative Property in Craigville
Craigville Manor & Lodge
(Not within Craigville Historic District)



Viewpoint 7
Existing View South Toward Proposed Project

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Viewpoint - Craigville, Barnstable, Cape Cod
Figure 3.3-2 Sheet 1 of



Source: Environmental Design Research P.C.

CAPE WIND ENERGY PROJECT
 Viewpoint - Craigville, Cape Cod
 Figure 7.3.2 - Sheet 1 of 2



Viewpoint 7-C7



Viewpoint 7-C7



Viewpoint 7-C10 (Centerville)



Viewpoint 7-C12 (Centerville)



Viewpoint 7-C13 (Centerville)



Viewpoint 7-C14 (Centerville)

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint - Craigville Cape Cod
Figure 3. -2 Sheet 1 of



Viewpoint 7-CE-2



Viewpoint 7-CE-4



Viewpoint 7-CE-5



Viewpoint 7-CE-7



Viewpoint 7-CE-8



Viewpoint 7-CE-13

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint - Craigville Cape Cod
Figure 3. -2 Sheet 2 of



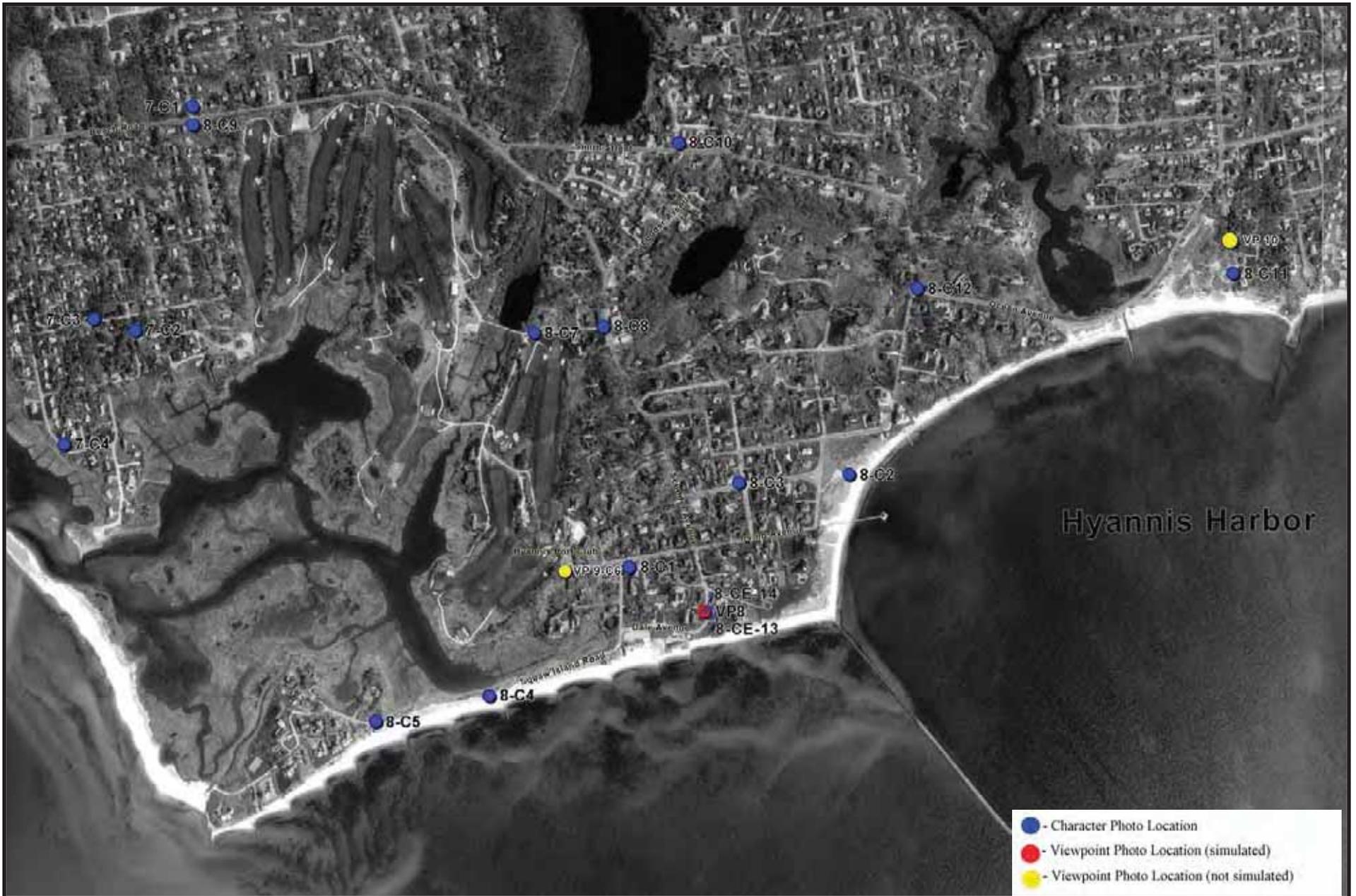
Viewpoint 8 - CE-13
Representative Property in Hyannis Port Historic District
61 Scudder Avenue (Near VP 8)
MHC No. BRN.E



Viewpoint 8
Existing View South Toward Proposed Project

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
View point - Hyannis Port Cape Cod
Figure .3. -2 Sheet 21 of



Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
 Viewpoint - Hyannis Port Cape Cod
 Figure 3.2 Sheet 22 of



South Yarmouth



Dennis



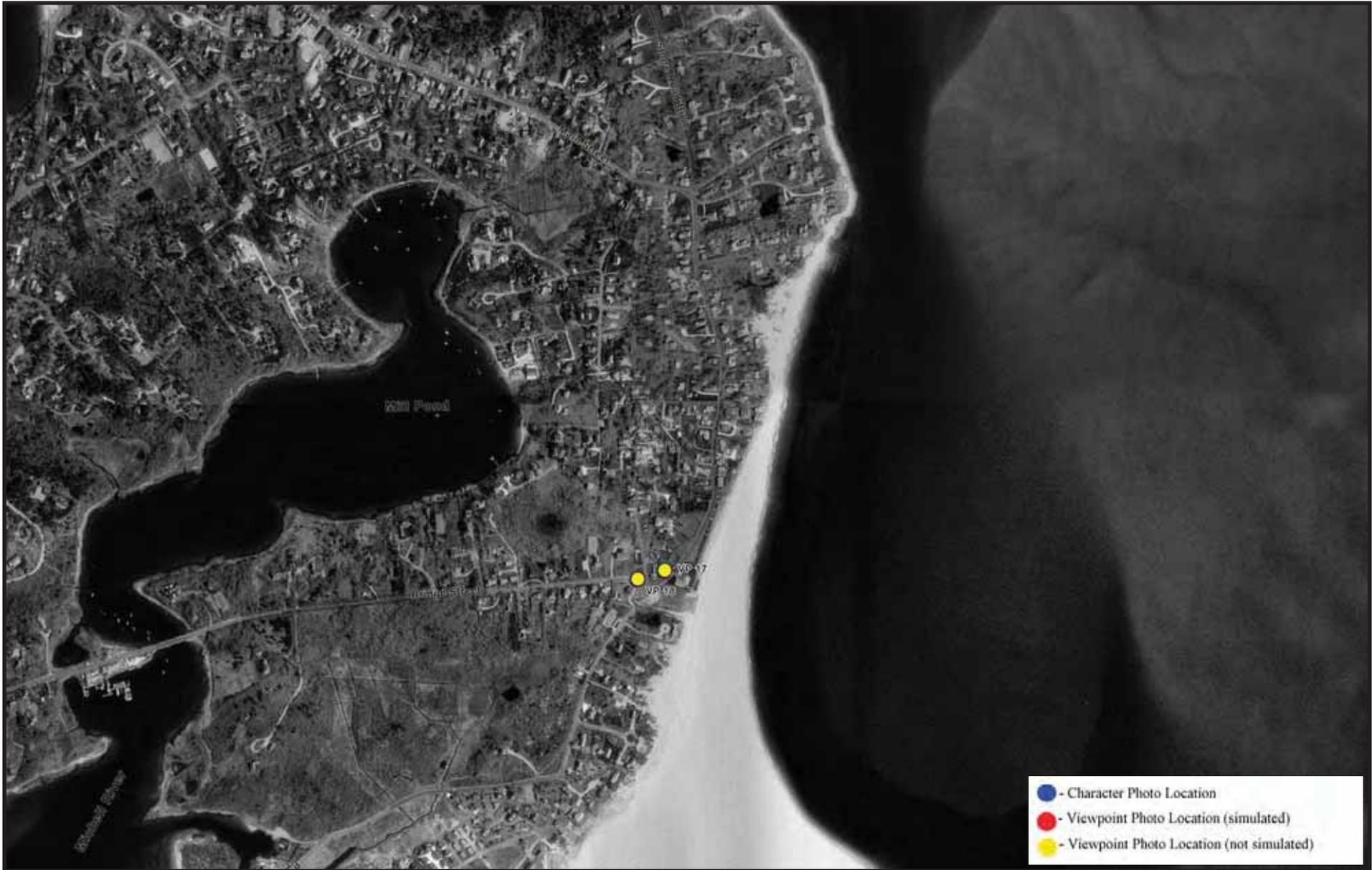
Harwich



South Harwich and Harwich Port

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
 Viewpoint - Harwich Port Cape Cod
 Figure 3. -2 Sheet 23 of



Source: Environmental Design Research, P.C.

Chatham

CAPE WIND ENERGY PROJECT
 Viewpoint - Yanni Port Cape Cod
 Figure 3. -2 Sheet 2 of



Viewpoint 8-C1



Viewpoint 8-C2



Viewpoint 8-C2



Viewpoint 8-C3



Viewpoint 8-C4



Viewpoint 8-C4

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint - Gianni Port Cape Cod
Figure .3. -2 Sheet 25 of



Viewpoint 8-C5



Viewpoint 8-C5



Viewpoint 9-C6 - Hyannis Port Historic District (elevated)



Viewpoint 9-C6



Viewpoint 8-C7



Viewpoint 8-C7

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint - Hyannis Port Cape Cod
Figure .3. -2 Sheet 2 of



Viewpoint 8-C8



Viewpoint 8-C9



Viewpoint 8-C10



Viewpoint 8-C11



Viewpoint 8-C12



Viewpoint 8-C12

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint - Yanni Port Cape Cod
Figure 3. -2 Sheet 2 of



Viewpoint 8-CE-14 Hyannis Port Historic District
 MCH NO. BRN.E Representative Properties (Similar to Kennedy Compound BRN.AJ)



Viewpoint 10-CE-1 Captian Alexander Crocker House
 MCH No. BRN.607 358 Sea Street, Hyannis



Viewpoint 10-CE-2 Southerly View Across BRN.607
 No open view toward Wind Park



Viewpoint 11-CE-1 Representative Property in Bass River Historic District
 MCH No. YAR.H 162 Old Main Street, South Yarmouth No open view toward Wind Park.



Viewpoint 12-CE-1 Judith Baker Windmill
 MCH No. YAR.901 River Street at Willow Street, Yarmouth



Viewpoint 12-CE-1 Southwesterly View From
 MCH No. YAR.901 Judith Baker Windmill

Source Environmental Design Research P.C.

CAPE WIND ENERGY PROJECT
 Character Photo Near Viewpoint - Hyannis Port Cape Cod
 Figure .3. -2 Sheet 2 of



Viewpoint 13-CE-1 West Dennis Grade School
 MCH NO. DEN.283 67 School Street, Dennis - No open view toward Wind Park



Viewpoint 14-CE-1 Captain James Berry House
 MCH NO. HRW.221 37 Main Street, Harwich - No open view toward Wind Park



Viewpoint 15-CE-1 Snow Inn at Wychmere Harbor
 Not a designated Historic Property Harwich Port



Viewpoint 15-CE-2 Wychmere Harbor Club
 Not a designated Historic Property Harwich Port



Viewpoint 15-CE-3 Southwesterly View from Snow Inn
 Open view toward Wind Park



Viewpoint 16-CE-1 South Harwich Methodist Church
 MHC No. HRW.382 270 Chatham Road, Harwich

Source Environmental Design Research P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint - Yanni Port Cape Cod
Figure .3. -2 Sheet 2 of



Viewpoint 16-CE-2 Southwesterly view from HRW. 382
No open view toward Wind Park



Viewpoint 17 Southwesterly view toward Chatham Light Station
MCH NO. CHA.LH Main Street, Chatham No open view toward Wind Park



Viewpoint 18 Old Village Historic District
MCH NO. CHA.W Along Bearses / Bridge Street



Viewpoint 18 Representative Properties in CHA.W
Bridge Street, Chatham Open view toward Wind Park

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint - Yanni Port Cape Cod
Figure .3. -2 Sheet 3 of



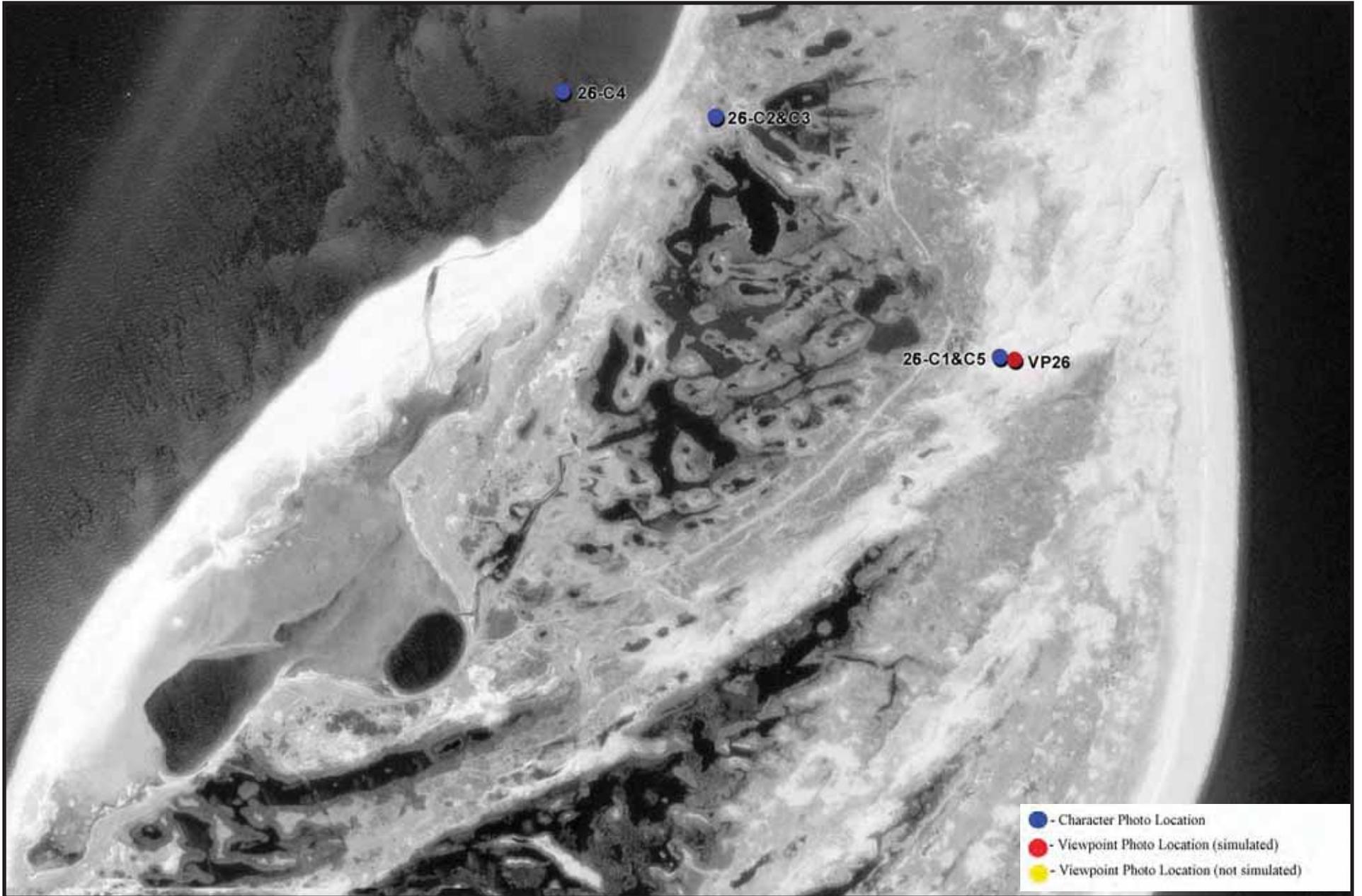
Viewpoint 26 - C - 1
Representative Property in Monomoy, Chatham
MHC No. CHA.927



Viewpoint 26
Existing View West Toward Proposed Project

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
View point 2 - Monomoy Point C at Monomoy Cape Cod
Figure .3. -2 Sheet 31 of



Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
 Viewpoint 2 - Monomoy Point C at Cape Cod
 Figure 3.2 Sheet 32 of 32



Viewpoint 26-C1



Viewpoint 26-C2



Viewpoint 26-C3



Viewpoint 26-C4



Viewpoint 26-C5

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 2 - Monomoy Point C at Am
Figure .3. -2 Sheet 33 of



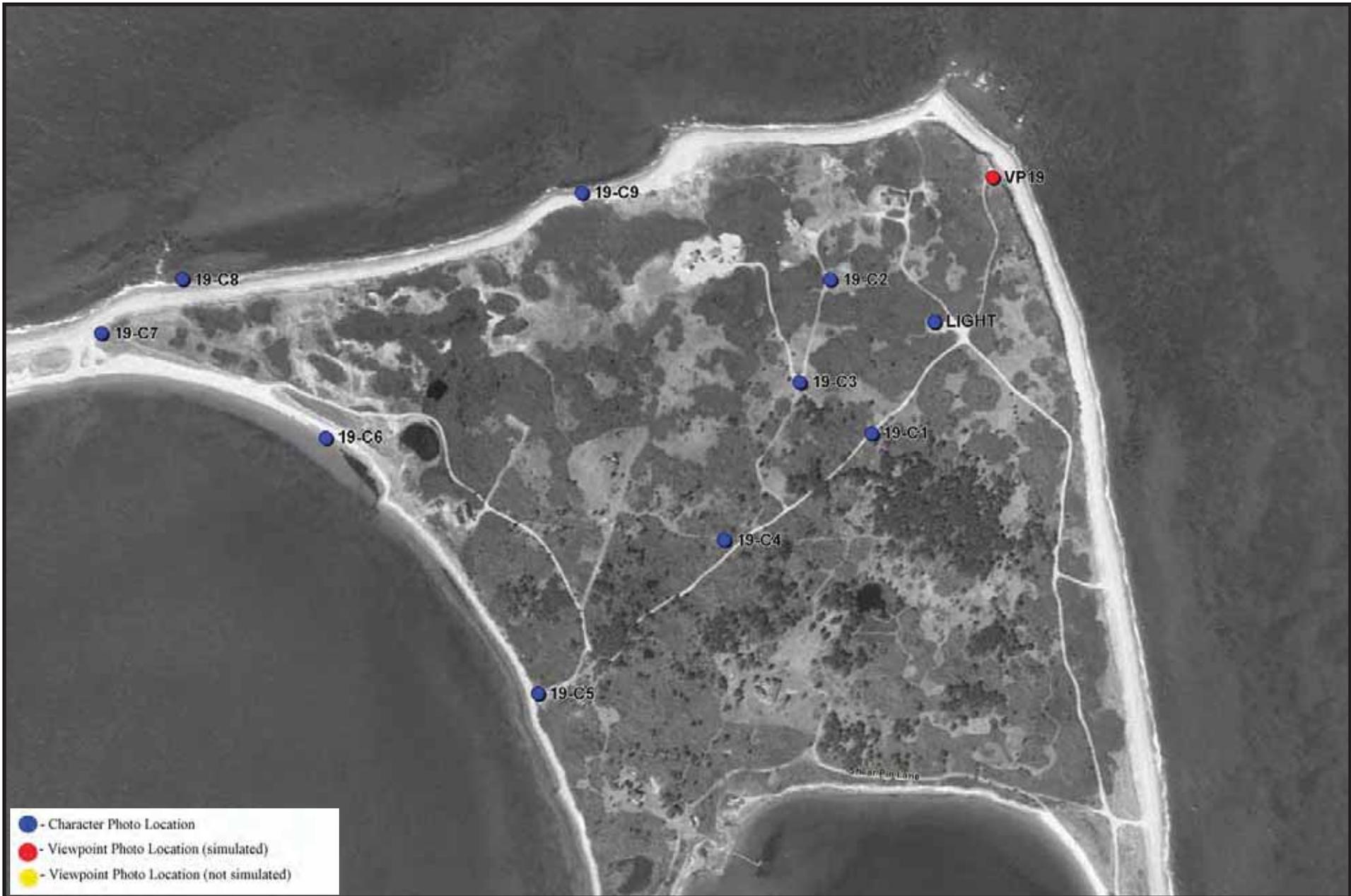
Viewpoint 19
View of Representative Historic Structure
Cape Poge Lighthouse
MHC No. EDG.900



Viewpoint 19
View North-East Toward Proposed Project

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
View point 1 - Cape Poge Martha Vineyard
Figure .3. -2 Sheet 3 of



Source: Environmental Design Research P.C.

CAPE WIND ENERGY PROJECT
 Viewpoint 1 - Cape Poge Martha's Vineyard
 Figure 3.2 Sheet 35 of



Viewpoint 19-C1



Viewpoint 19-C2



Viewpoint 19-C2



Viewpoint 19-C3



Viewpoint 19-C4



Viewpoint 19-C5

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 1 - Cape Poge Part a Vineyard
Figure .3. -2 Sheet 3 of



Viewpoint 19-C6



Viewpoint 19-C7



Viewpoint 19-C8



Viewpoint 19-C9



Viewpoint 19-C9

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 1 - Cape Poge Lighthouse and Vineyard
Figure 3.2 Sheet 3 of 3



Viewpoint 20

View of Representative Historic Structure in
Edgartown Historic District
MHC No. EDG.901



Viewpoint 20

Existing View North-East Toward Proposed Project

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Viewpoint 2 - Edgartown Martha's Vineyard
Figure 3.2 Sheet 3 of



Source: Environmental Design Research P.C.

CAPE WIND ENERGY PROJECT
 Viewpoint 2 - Edgartown Martha's Vineyard
 Figure 3.2 - Sheet 3 of 3



Viewpoint 20-C1



Viewpoint 20-C2



Viewpoint 20-C3



Viewpoint 20-C4



Viewpoint 20-C4



Viewpoint 20-C5

Source: Environmental Design Research

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 2 - Edgarton Port and Vineyard
Figure .3. -2 Sheet of



Viewpoint 20-C6



Viewpoint 20-C6



Viewpoint 20-C7



Viewpoint 20-C8



Viewpoint 20-C9



Viewpoint 20-C10

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 2 - Edgarton - Martha's Vineyard
Figure 3. -2 Sheet 1 of



Viewpoint 20-C11



Viewpoint 20-C11



Viewpoint 20-C12



Viewpoint 20-C13



Viewpoint 20-C14



Viewpoint 20-C15

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 2 - Edgarton - Martha's Vineyard
Figure 3. -2 Sheet 2 of



Viewpoint 20-C16



Viewpoint 20-C17



Viewpoint 20-C18



Viewpoint 20-C18



Viewpoint 20-C19



Viewpoint 20-C20

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
 Character Photo Near Viewpoint 2 - Edgarton - Martha's Vineyard
 Figure 3. -2 Sheet 3 of



Viewpoint 20-C21



Viewpoint 20-C22



Viewpoint 20-C23



Viewpoint 20-C24



Viewpoint 20-C25



Viewpoint 20-C25

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 2 - Edgarton - Martha's Vineyard
Figure 3.2 -2 Section of



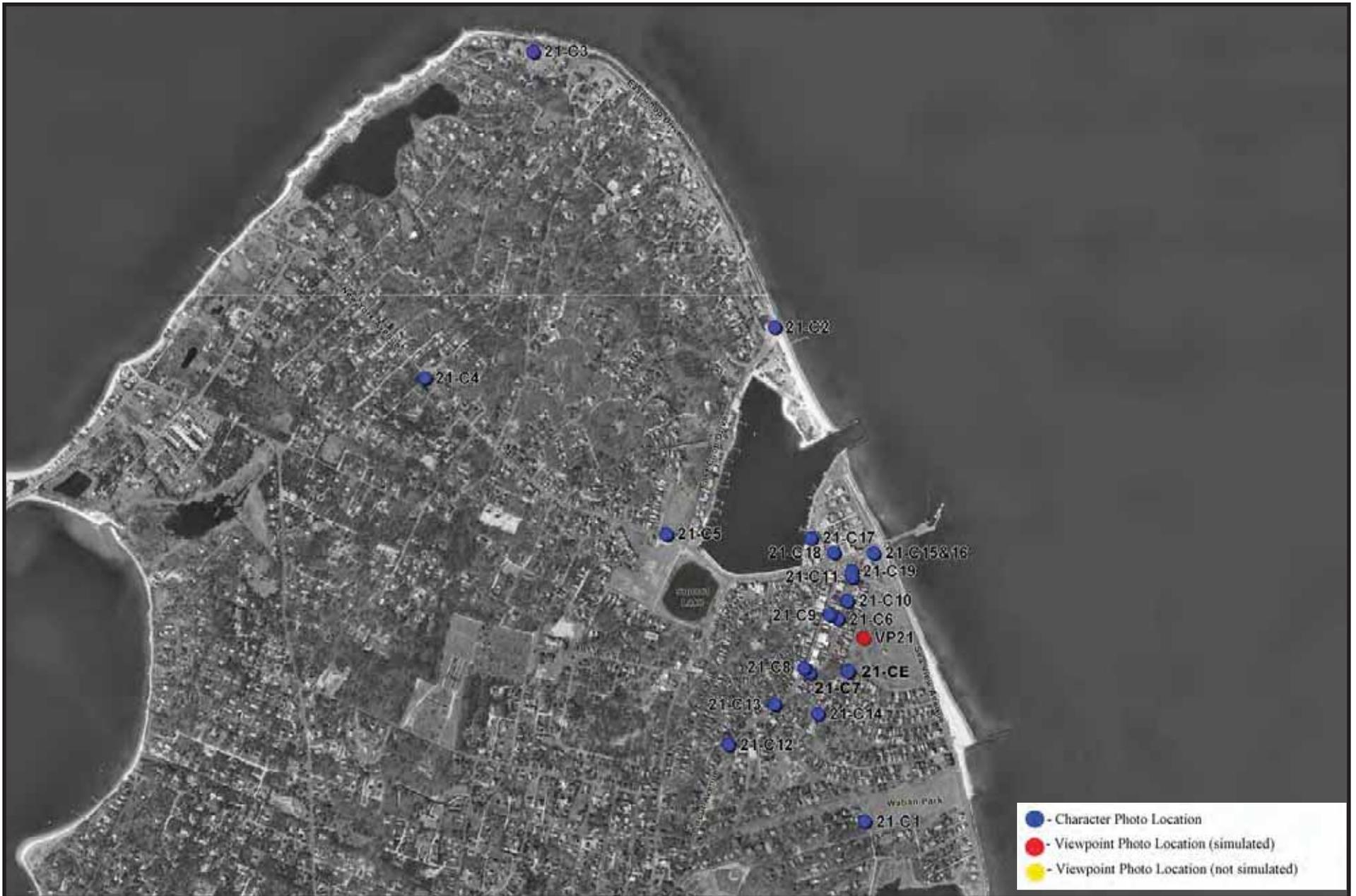
Viewpoint 21 (Photo 21-CE)
Dr. Harrison Tucker Cottage
65 (formerly 42) Ocean Avenue
MHC No. OAK.637



Viewpoint 21
Existing View East Toward Proposed Project
Ocean Park, Just North of Tucker Cottage

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
View point 21 - Oak bluff cart a Vineyard
Figure .3. -2 Sheet 5 of



Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
 Viewpoint 21 - Oak Bluffs Vineyard
 Figure 3.2 - South



Viewpoint 21-C1



Viewpoint 21-C2



Viewpoint 21-C3



Viewpoint 21-C3



Viewpoint 21-C4



Viewpoint 21-C5

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 21 - Oak Bluff Lighthouse Vineyard
Figure 3. -2 Section of



Viewpoint 21-C6



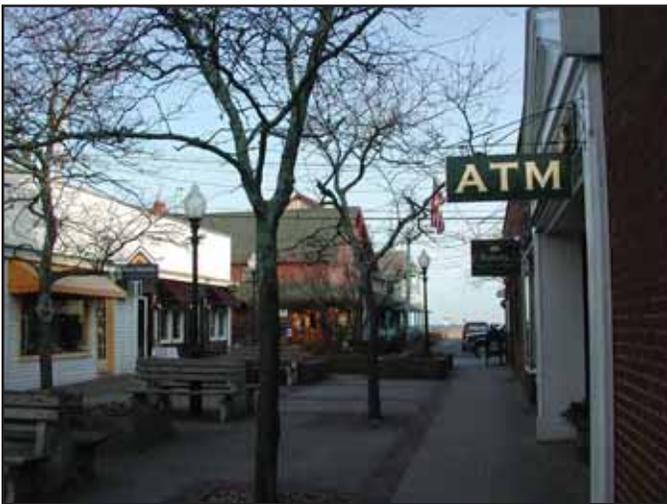
Viewpoint 21-C7



Viewpoint 21-C8



Viewpoint 21-C9



Viewpoint 21-C9



Viewpoint 21-C10

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 21 - Oak Bluff at a Vineyard
Figure .3. -2 Street of



Viewpoint 21-C11



Viewpoint 21-C12



Viewpoint 21-C13



Viewpoint 21-C14



Viewpoint 21-C14



Viewpoint 21-C15

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 21 - Oak Bluff Art & Vineyard
Figure 3.2 -2 Section of



Viewpoint 21-C15



Viewpoint 21-C16



Viewpoint 21-C17



Viewpoint 21-C18



Viewpoint 21-C19

Source: Environmental Design Research, P.C.

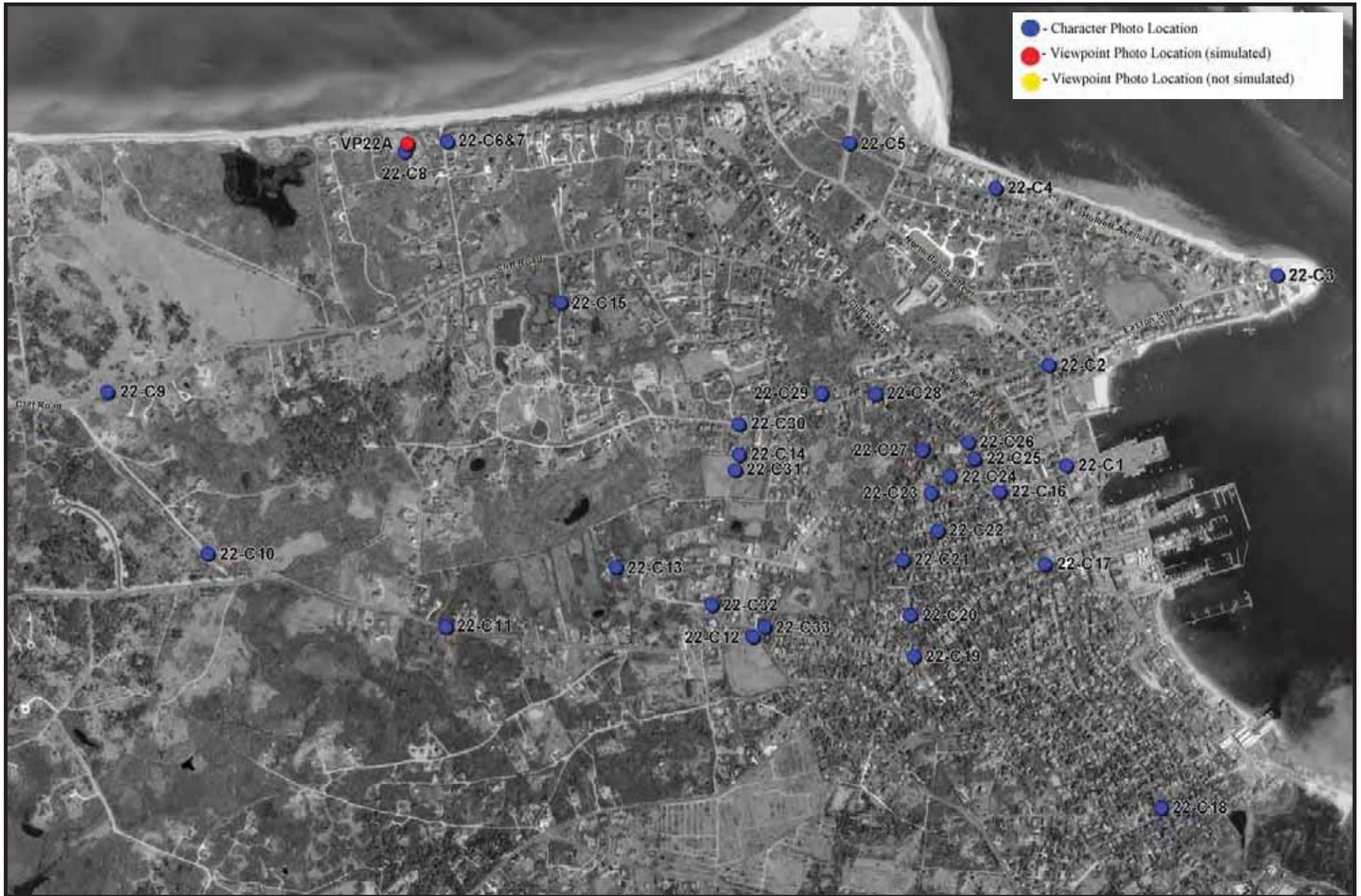
CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 21 - Oak Bluff Art & Vineyard
Figure 3. -2 Sheet 5 of



Viewpoint 22 - Cliffs North of Nantucket Village
Existing View North-West Toward Proposed Project

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Viewpoint 22 - Nantucket Village
Figure 3.2 Sheet 51 of



Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
 Viewpoint 22 - Nantucket Village
 Figure 3.2 - Sheet 52 of 52



Viewpoint 22-C1



Viewpoint 22-C2



Viewpoint 22-C3



Viewpoint 22-C3



Viewpoint 22-C4



Viewpoint 22-C5

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 22 - Nantucket Village
Figure 3. -2 Sheet 53 of



Viewpoint 22-C6



Viewpoint 22-C7



Viewpoint 22-C8



Viewpoint 22-C9



Viewpoint 22-C10



Viewpoint 22-C11

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 22 - Nantucket Village
Figure 3. -2 Sheet 5 of



Viewpoint 22-C12



Viewpoint 22-C13



Viewpoint 22-C14



Viewpoint 22-C15



Viewpoint 22-C16



Viewpoint 22-C17

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 22 - Nantucket Village
Figure 3. -2 Sheet 55 of



Viewpoint 22-C18



Viewpoint 22-C19



Viewpoint 22-C20



Viewpoint 22-C21



Viewpoint 22-C21



Viewpoint 22-C22

Source: Environmental Design Research, P.C.

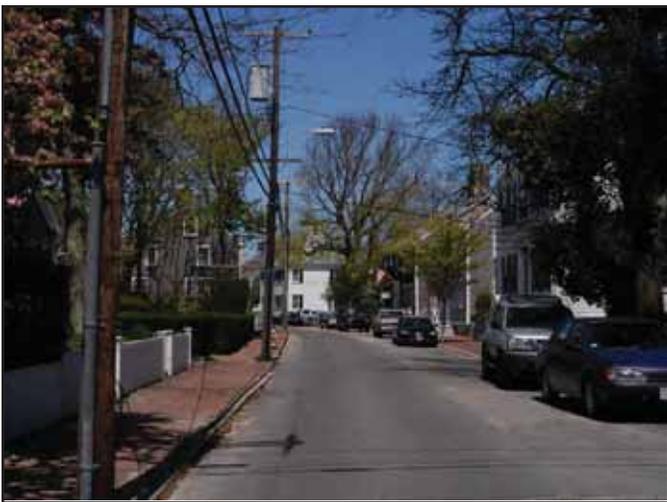
CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 22 - Nantucket Village
Figure 3. -2 Sheet 5 of



Viewpoint 22-C23



Viewpoint 22-C24



Viewpoint 22-C25



Viewpoint 22-C26



Viewpoint 22-C27



Viewpoint 22-C28

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 22 - Nantucket Village
Figure 3. -2 Sheet 5 of



Viewpoint 22-C29



Viewpoint 22-C29



Viewpoint 22-C30



Viewpoint 22-C31



Viewpoint 22-C32



Viewpoint 22-C33

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 22 - Nantucket Village
Figure 3. -2 Sheet 5 of



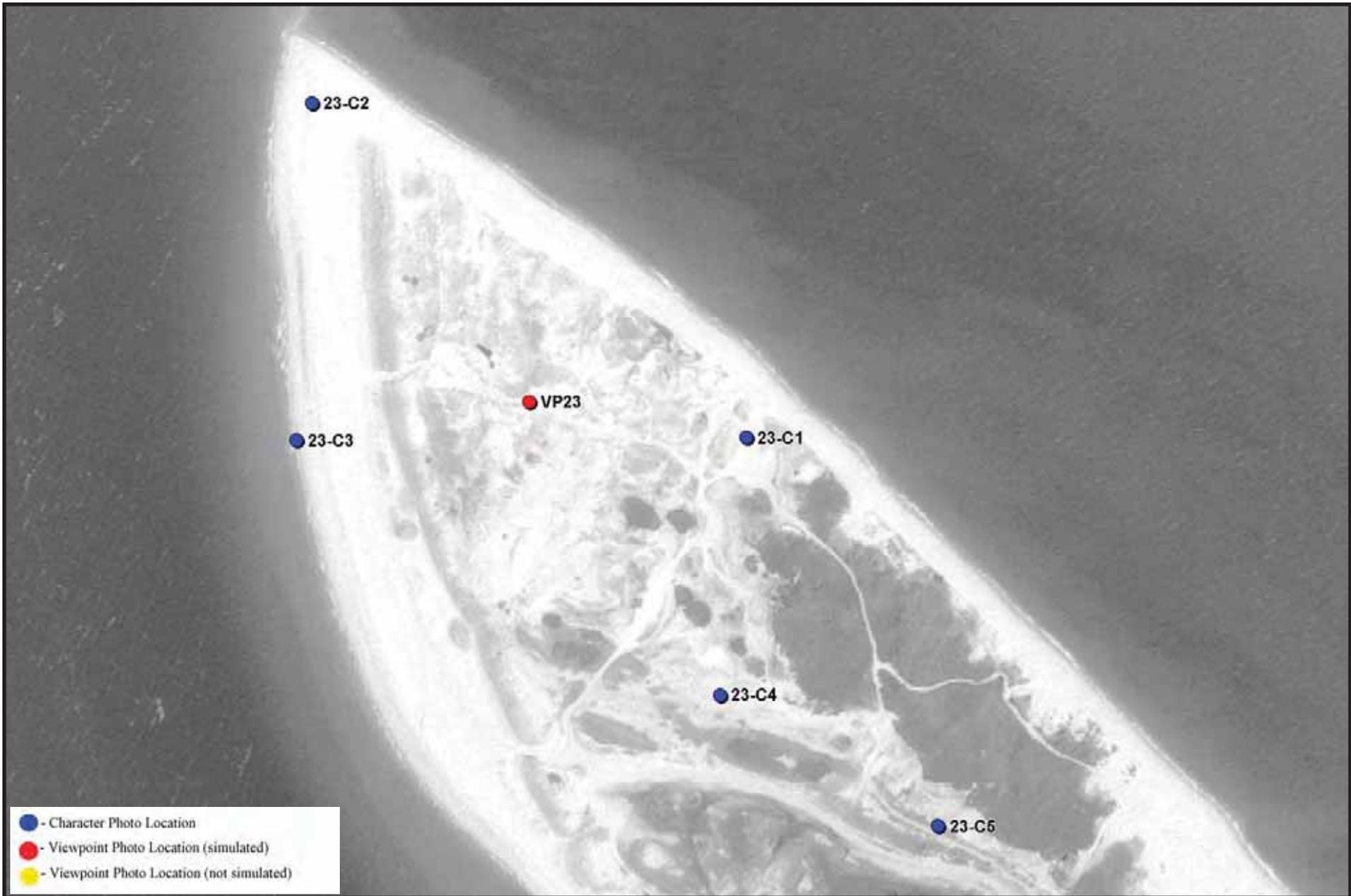
Viewpoint 23 - C-3
Representative Property at Great Point, Nantucket



Viewpoint 23
Existing View North-West Toward Proposed Project

Source: Environmental Design and Research, P.C.

CAPE WIND ENERGY PROJECT
Viewpoint 23 - Great Point, Nantucket
Figure 3.2 Sheet 5 of



Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
 Viewpoint 23 - Great Point Nantucket
 Figure 3.2 - Sheet of



Viewpoint 23-C1



Viewpoint 23-C2



Viewpoint 23-C3



Viewpoint 23-C4



Viewpoint 23-C5

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 23 - Great Point Nantucket
Figure 3. -2 Sheet 1 of



Viewpoint 24
Property on Tuckernuck Island, Nantucket



Viewpoint 24
Existing View North Toward Proposed Project

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Viewpoint 2 - Tuckernuck Island, Nantucket
Figure 3.2 Sheet 2 of 2



Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Viewpoint 2 - Tuckernuck Island, Nantucket
Figure 3.2 Sheet 3 of 3



Viewpoint 24-C1



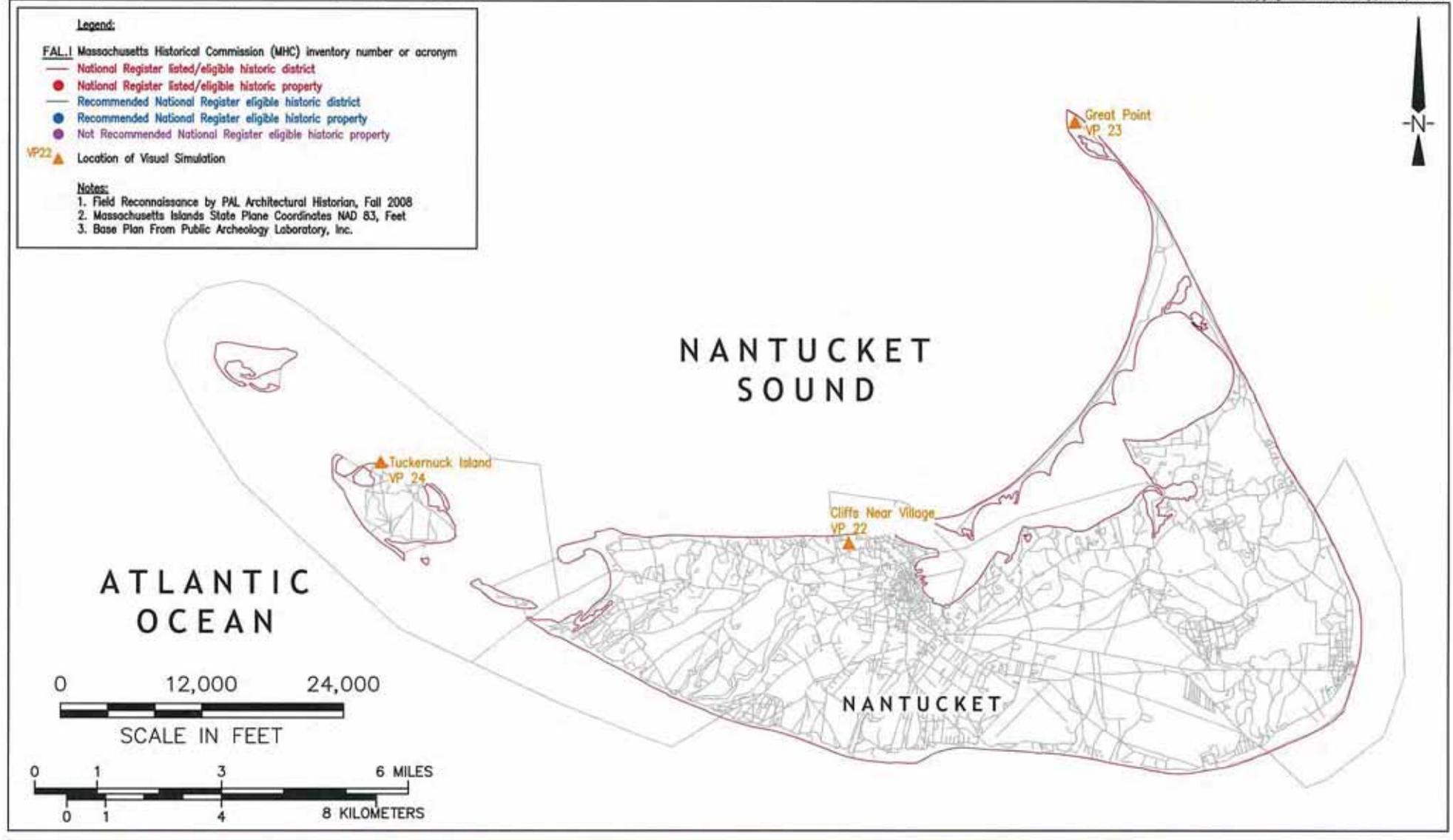
Viewpoint 24-C2



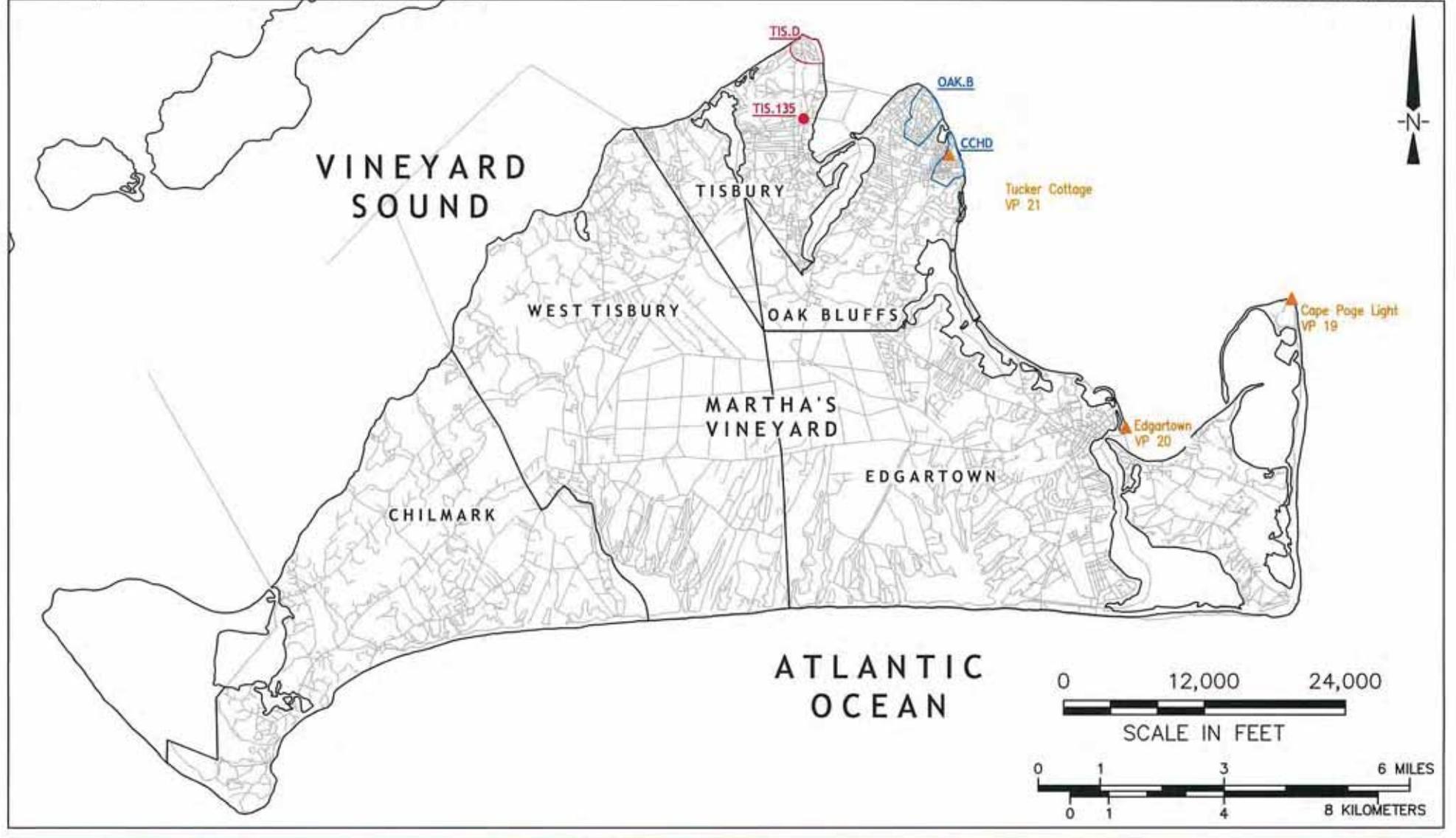
Viewpoint 24-C3

Source: Environmental Design Research, P.C.

CAPE WIND ENERGY PROJECT
Character Photo Near Viewpoint 2 - Tuckernuck Island, Nantucket
Figure 3.2 - 2 Section of

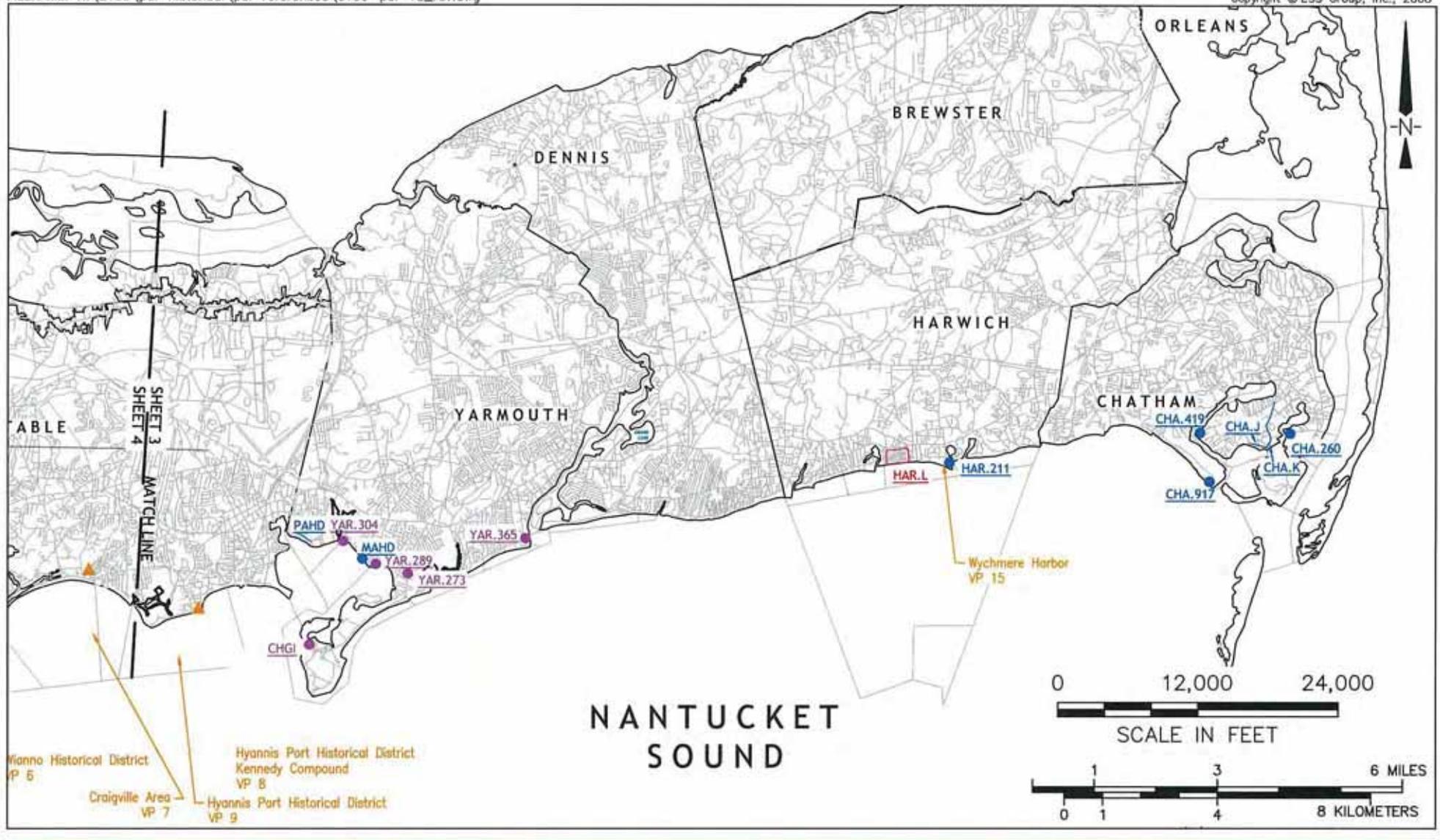


CAPE WIND ENERGY PROJECT
Evaluation of 22 Additional Historic Properties
Sheet 1 of
Figure .3. -3

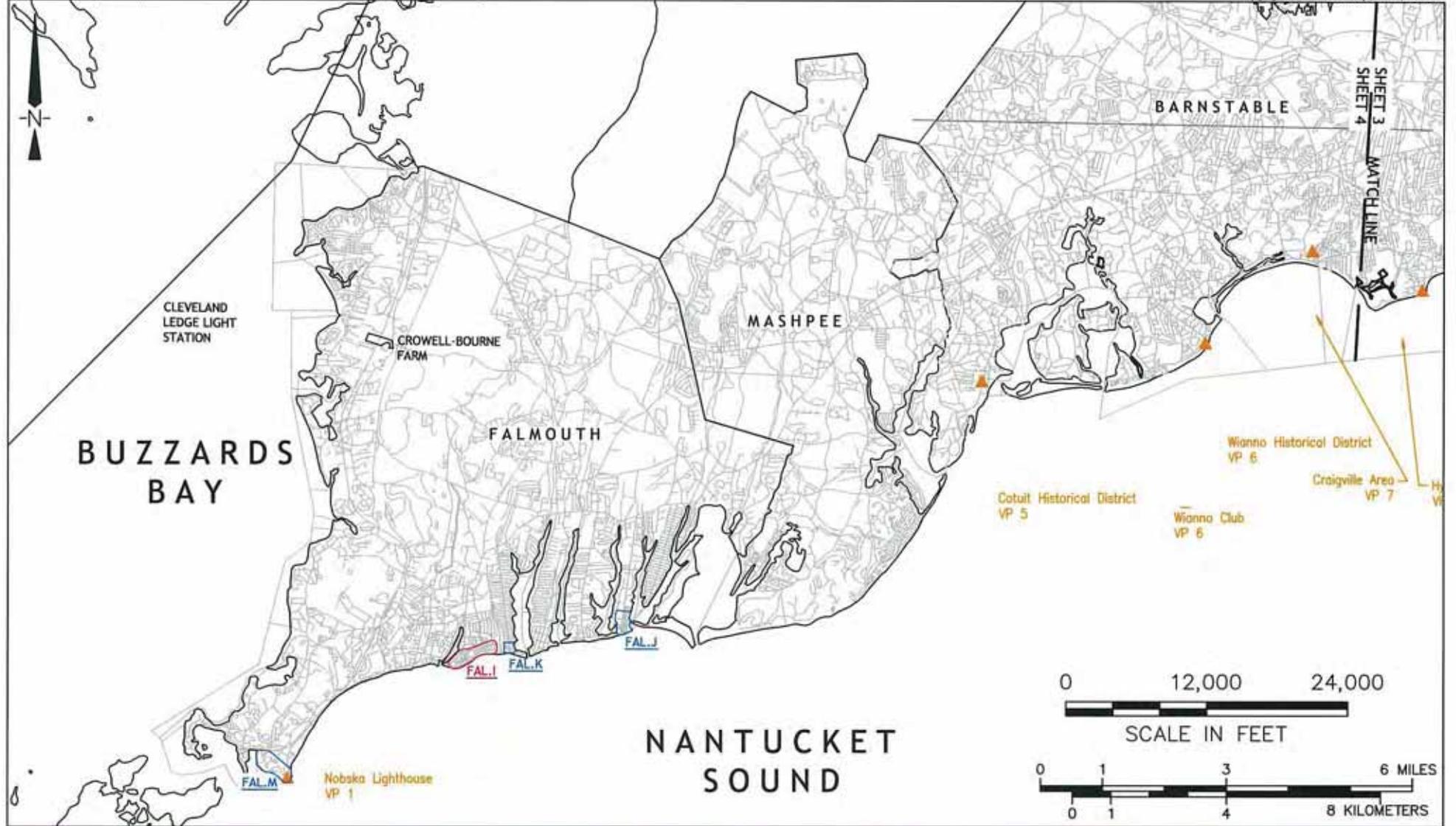


A-198

CAPE WIND ENERGY PROJECT
Evaluation of 22 Additional Historic Properties
Sheet 2 of
Figure 3. -3

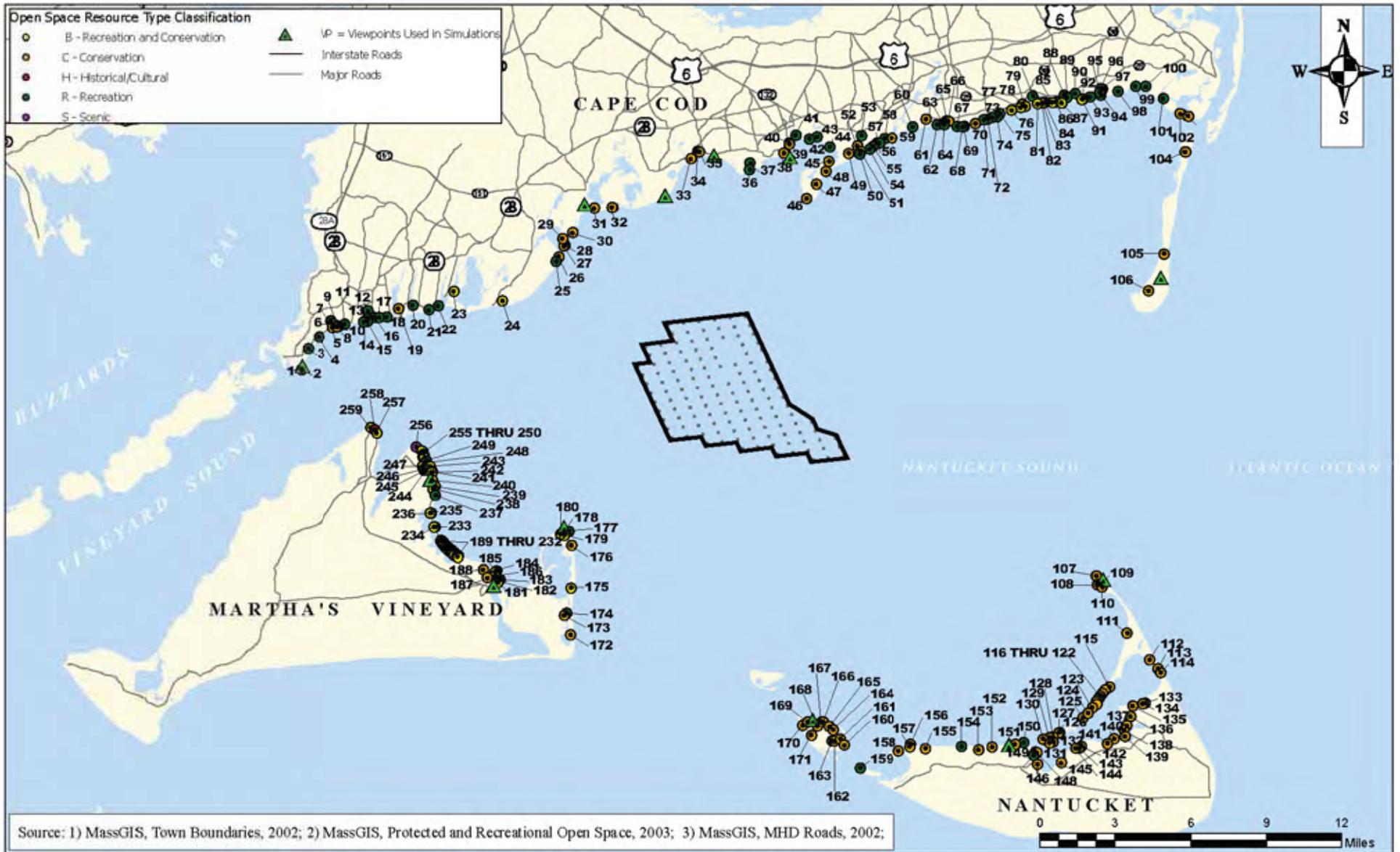


CAPE WIND ENERGY PROJECT
Evaluation of 22 Additional Historic Properties
Sheet 3 of
Figure .3. -3

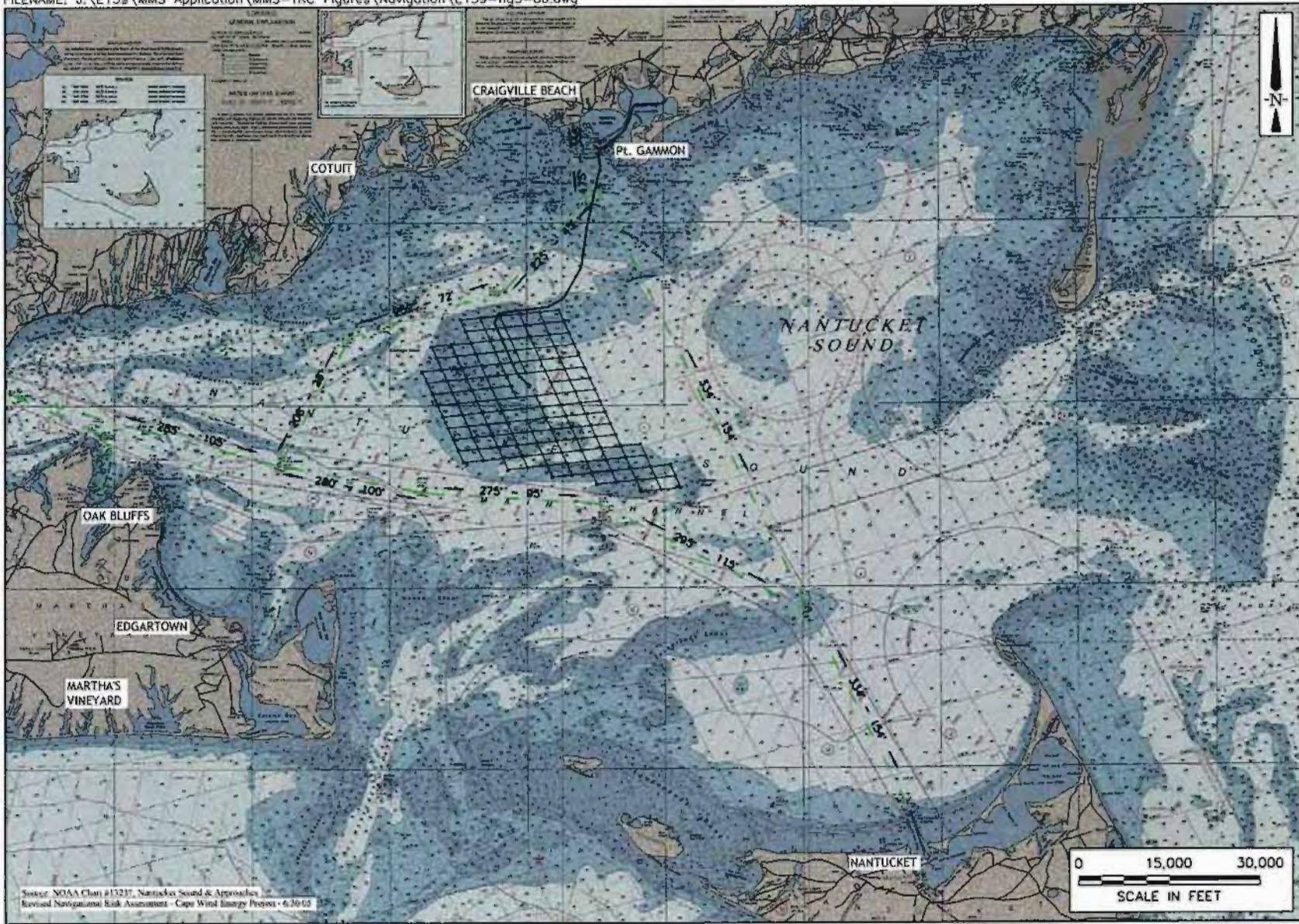


A-200

CAPE WIND ENERGY PROJECT
Evaluation of 22 Additional Historic Properties
Sheet of
Figure .3. -3



CAPE WIND ENERGY PROJECT
 GIS-identified Recreational Resource Potential Viewpoints of Wind Park
 Figure 3.

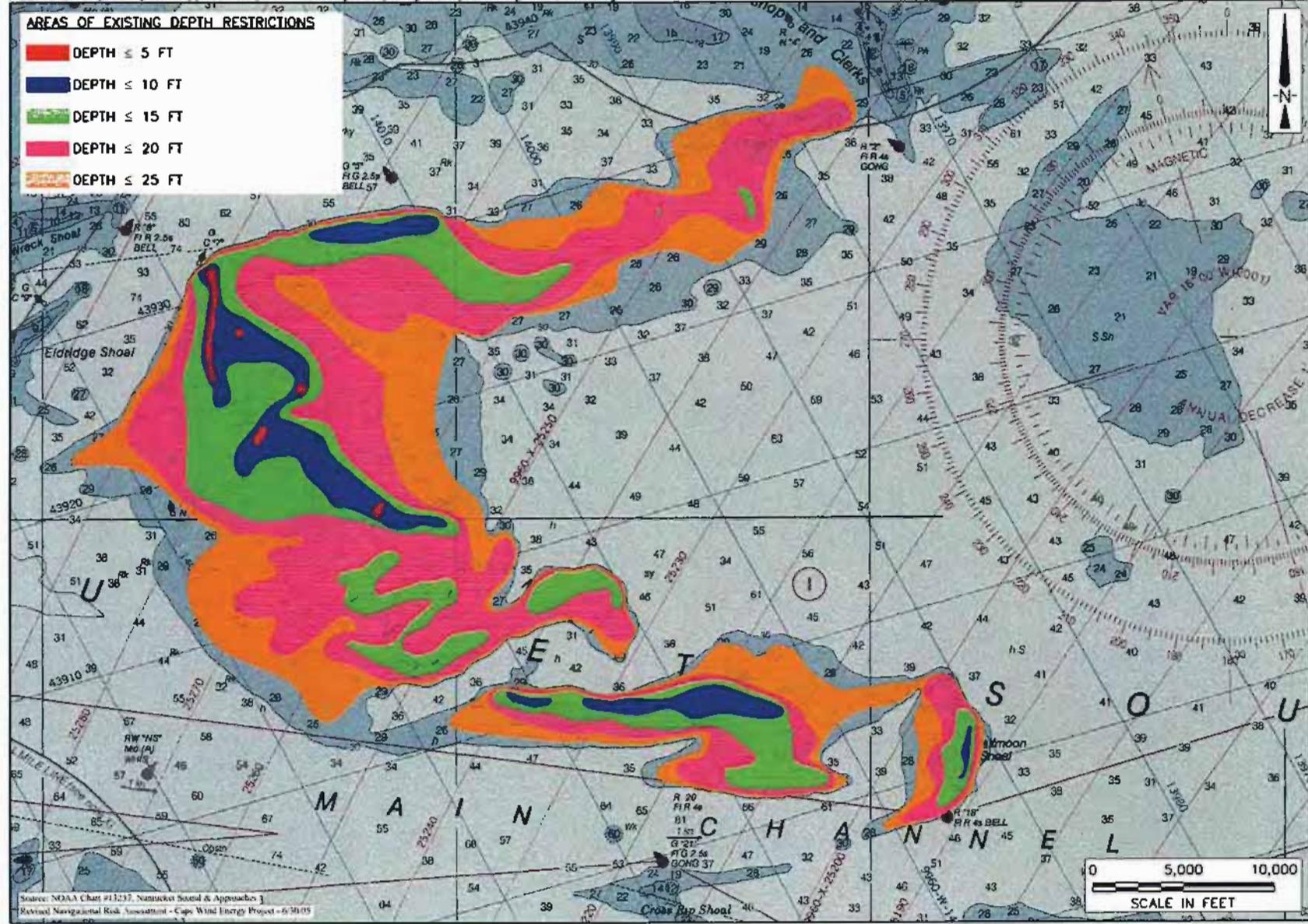


A-202

CAPE WIND ENERGY PROJECT
Typical Steamship Authority Ferry Routes (Provided in 2004)
Figure 4.3.7-1

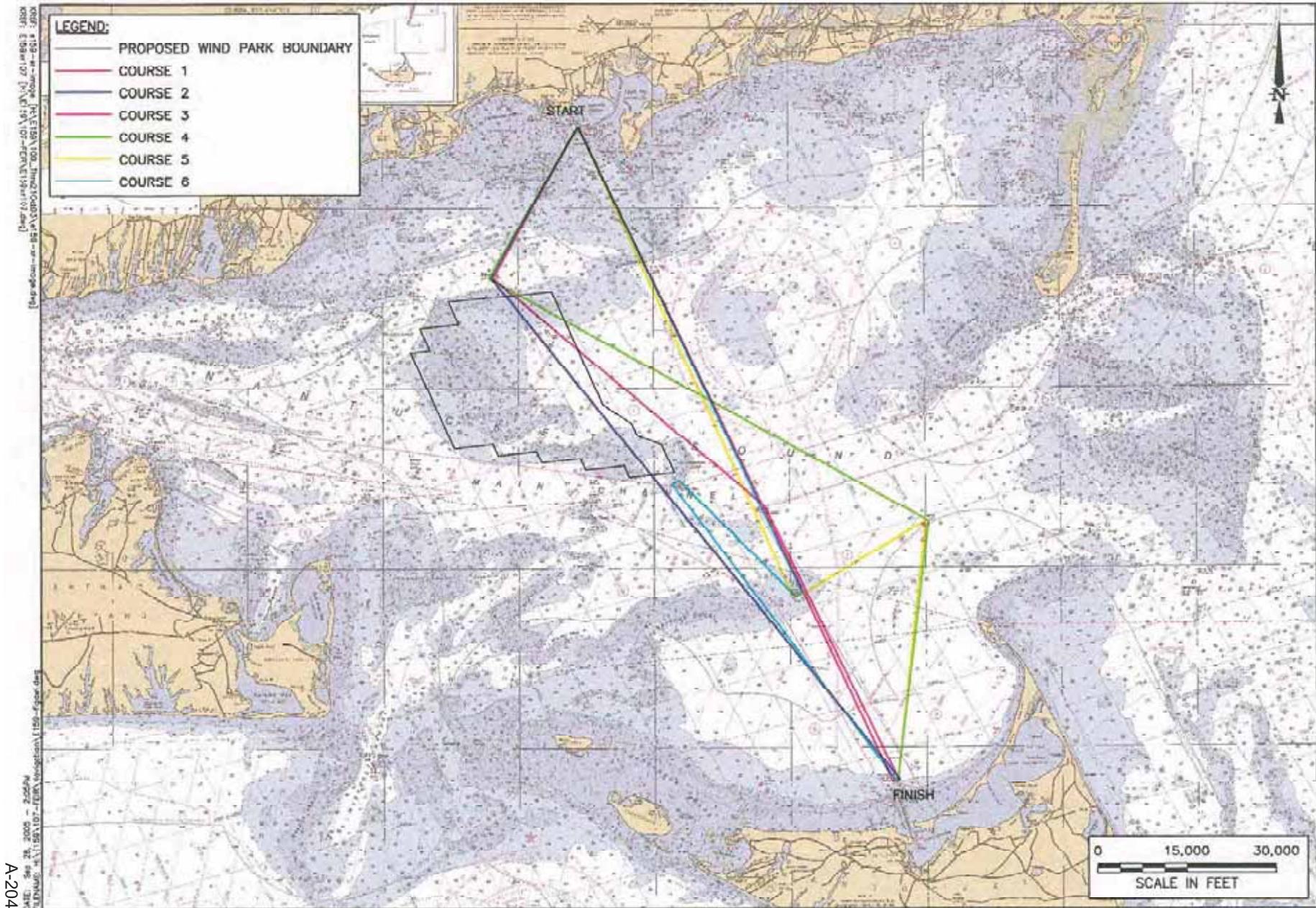
DATE: Mar 12, 2007 - 8:02AM

FILENAME: J:\E159\MMS Application\MMS-TRC Figures\Navigation\E159-fig-3-series.dwg

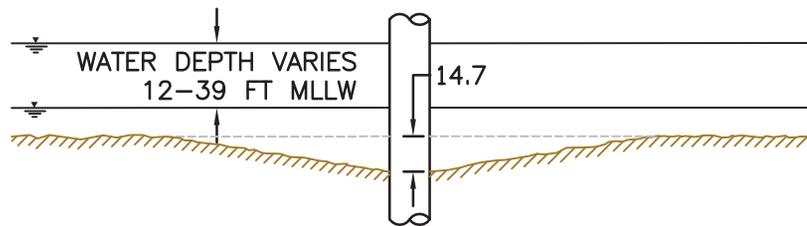
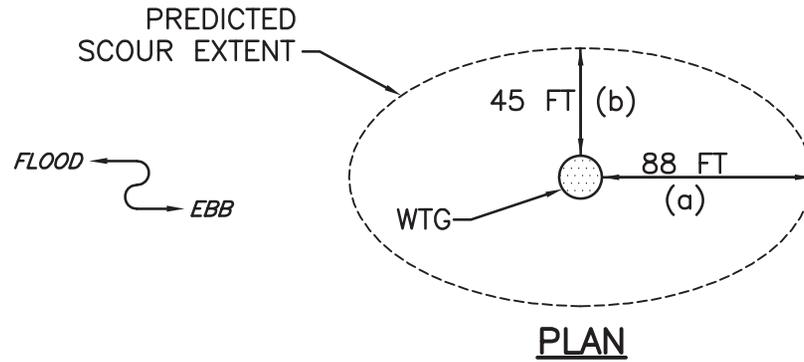
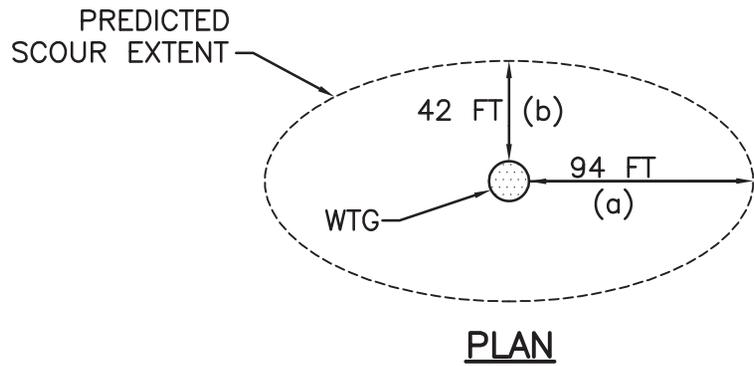


A-203

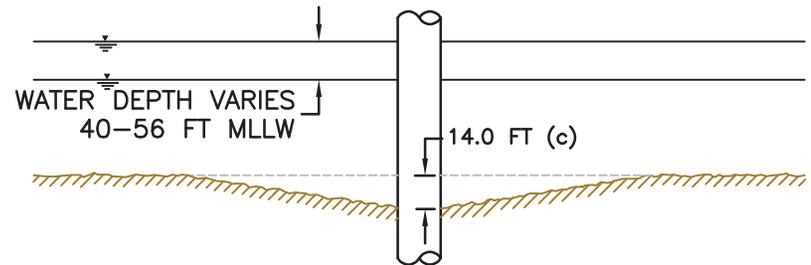
CAPE WIND ENERGY PROJECT
Depth Restrictions
Figure 4.4.3-1



CAPE WIND ENERGY PROJECT
 Published Figure i Race Course
 Figure . 3-2

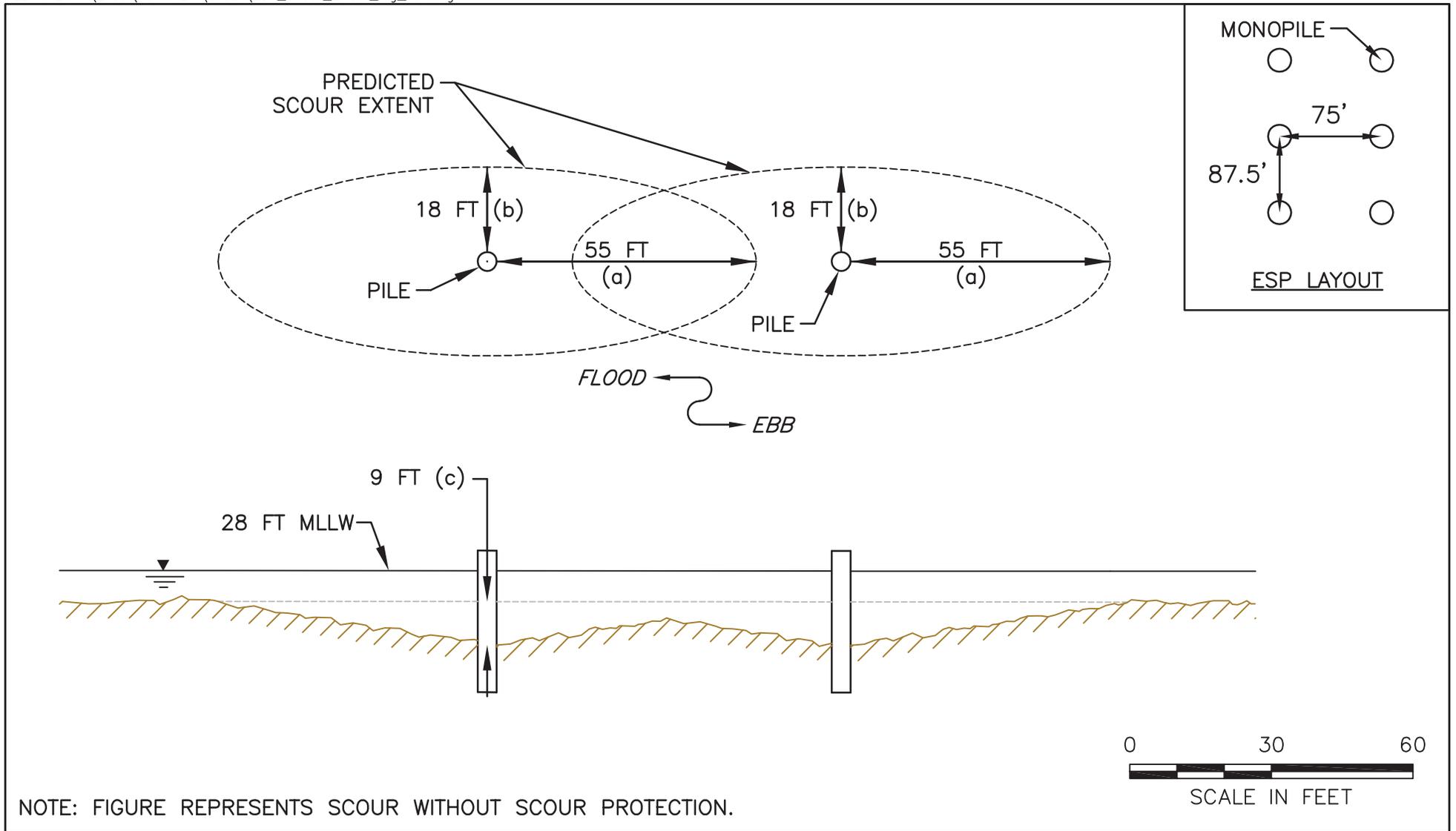


CROSS-SECTION
SCENARIO 1

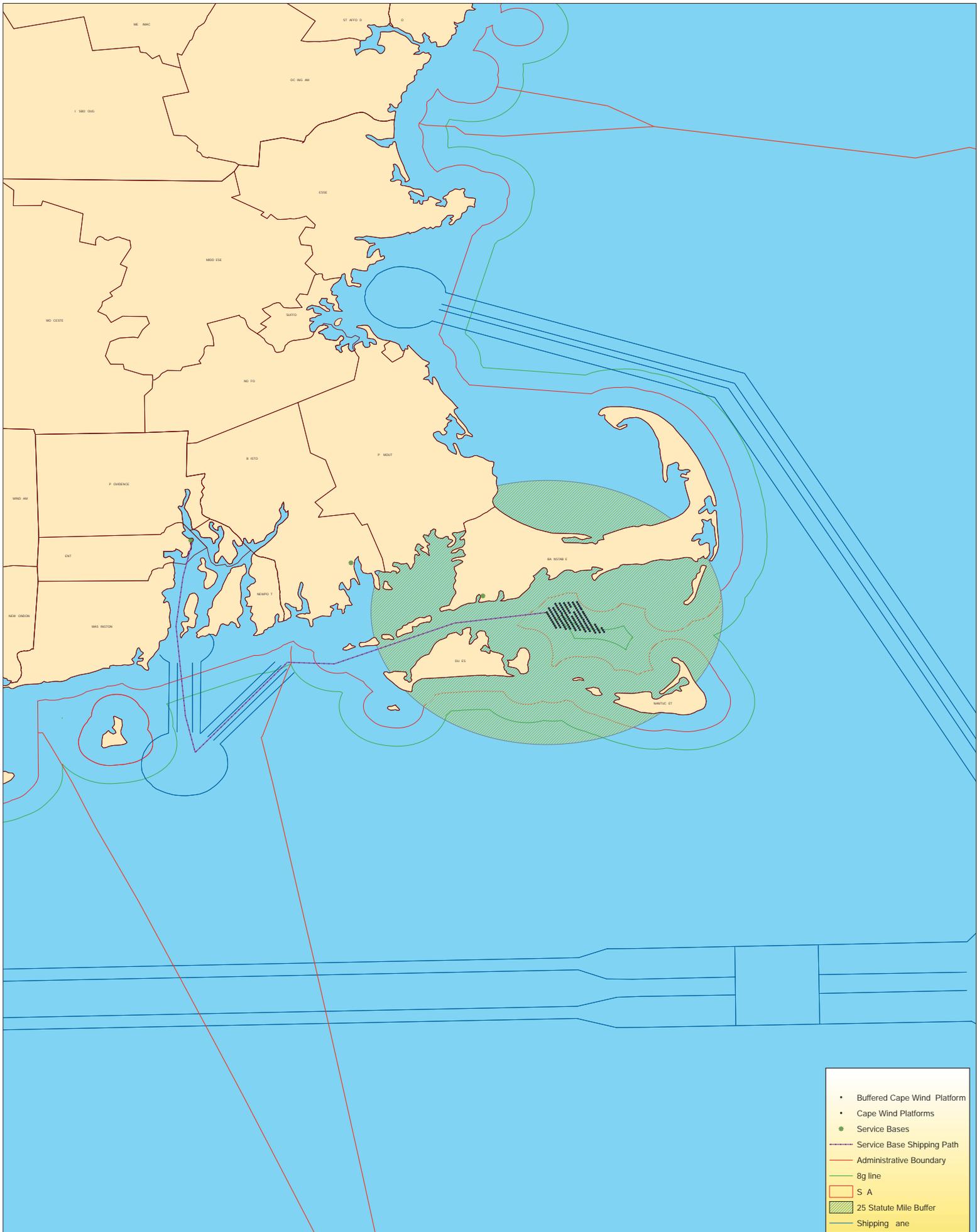


CROSS-SECTION
SCENARIO 2

NOTE: FIGURE REPRESENTS SCOUR WITHOUT SCOUR PROTECTION.



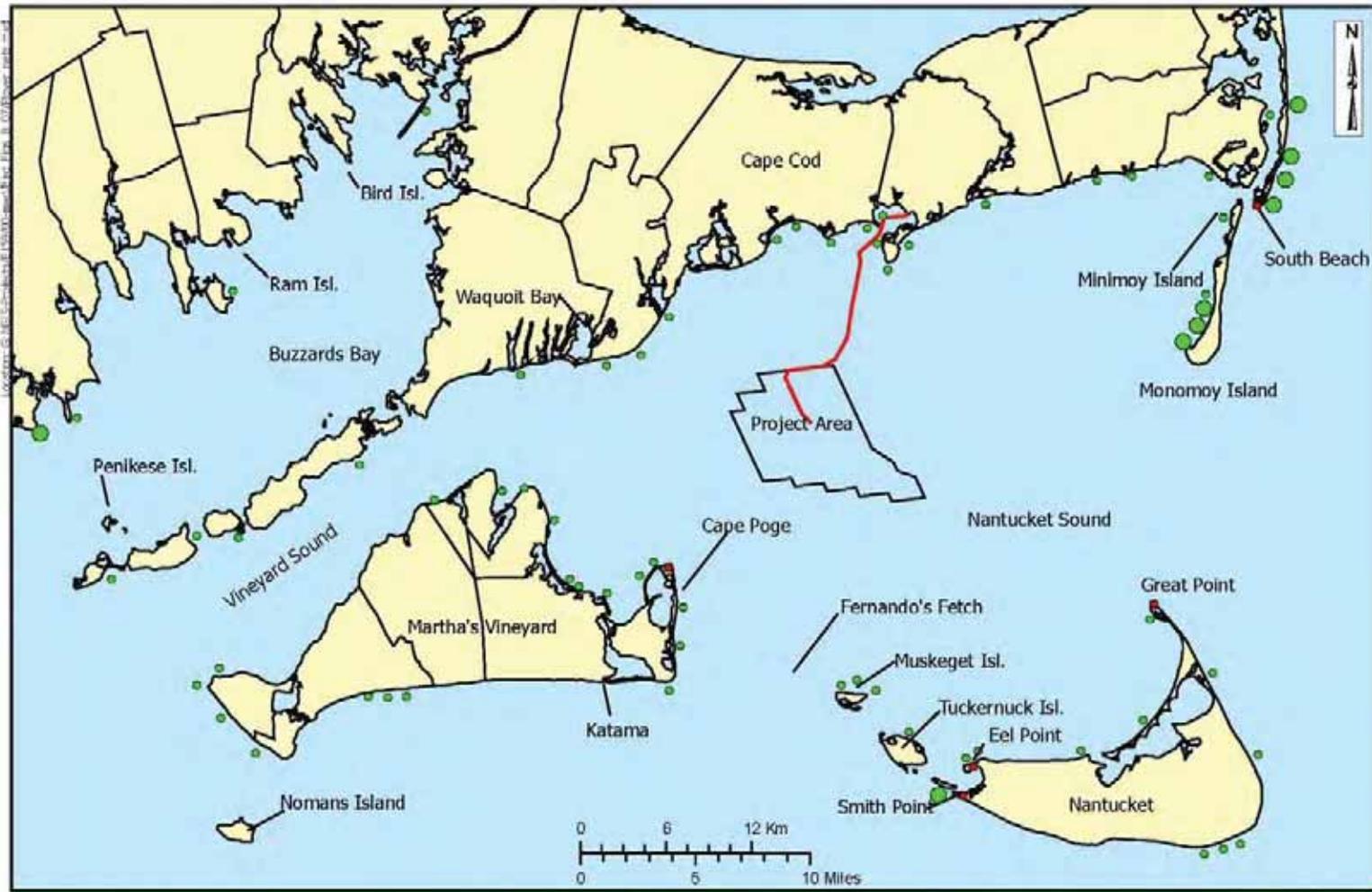
CAPE WIND ENERGY PROJECT
 Predicted ESP Scour Characteristic
 Figure 5.3.1-2



CAPE WIND ENERGY PROJECT
 Cape Wind Air quality map
 Figure 5.3.1-3

0 3 6 12 18 24 Nautical Miles





CAPE WIND
Nantucket Sound, Massachusetts
Scale: 1" = 6 miles

Piping Plover Nests ■ Potential Staging Areas
● 1-3 — Submarine cable route
● 10

Source: 1) MassGIS, Town Boundary © ESRI/Cable Point, 2007
2) Monomoy shoreline digitized from MassGIS ortho, 2002. All other locations, Polunin and Hurlbert, 2002

CAPE WIND ENERGY PROJECT
Piping Plover Nests in Nantucket Sound and Surrounding Area
Figure 5.3.2-1



Source: Photo credit Cape Wind Associates

CAPE WIND ENERGY PROJECT
Nantuxet Offshore Windfarm 2.5
Figure 5.3.3-1

PROPOSED VIEW



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

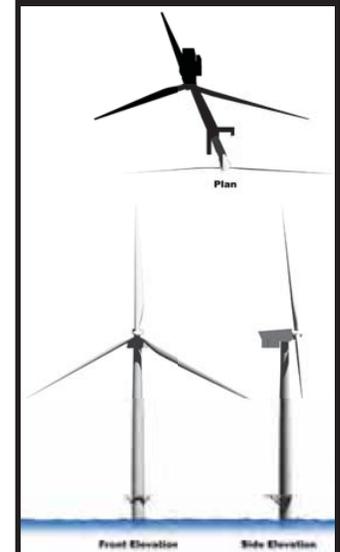
Viewpoint Name	Nobeska Lighthouse
Viewpoint #	1
Viewpoint Location	41° 30' 56.80"N 70° 39' 18.28"W
Percentage of Total Turbines Visible	100%
Date Taken	1/22/2003
Time	11:53 AM
Temperature & Visibility	-7° C 19° F Clear
Direction of View	3° South of East
Field Of View	40.115°
Focal Length	49.3mm
Closest Turbine	13.40 miles
Furthest Turbine	21.84 miles
Camera Elevation	55.74'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Viewpoint 1
Nobeska Lighthouse
 Falmouth, Cape Cod
 July 2006
 Prepared By:
 EDR

Daytime Visual Simulation
 of Proposed Wind Park
 Figure 5.3.3-1
 Sheet 1 of 12

PROPOSED VIEW



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION BARNSTABLE



INFORMATION

Viewpoint Specific Data

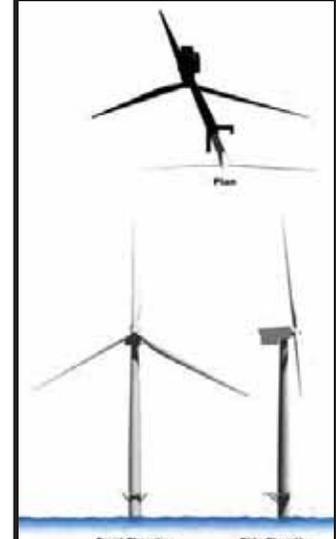
Viewpoint Name	Cotuit
Viewpoint #	5
Viewpoint Location	41° 36' 22.64"N 70° 26' 13.70"W
Percentage of Total Turbines Visible	100%
Date Taken	1/22/2003
Time	1:47pm
Temperature & Visibility	-7° C 19° F Clear
Direction of View	41° East of South
Field Of View	40.72°
Focal Length	48.5mm
Closest Turbine	5.70 miles
Furthest Turbine	14.25 miles
Camera Elevation	9.90'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW = Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Viewpoint 5

Cotuit
 Barnstable, Cape Cod
 July 2006
 Prepared By: [Redacted]

**Daytime Visual Simulation
 of Proposed Wind Park
 Figure 5.3.3-1**

PROPOSED VIEW



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

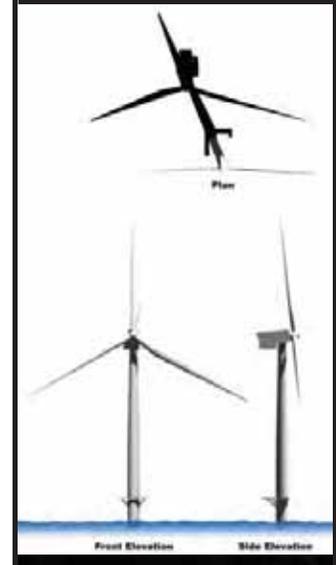
Viewpoint Name	Wianno
Viewpoint #	6
Viewpoint Location	41° 37' 01.10"N 70° 22' 12.67"W
Percentage of Total Turbines Visible	82%
Date Taken	1/22/2003
Time	4:28pm
Temperature & Visibility	-10° C 14° F Clear
Direction of View	20° East of South
Field Of View	39,966'
Focal Length	49.5mm
Closest Turbine	5.34 miles
Furthest Turbine	12.63 miles
Camera Elevation	28.50'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Wianno
 Primitivale, Cape Cod
 July 2006
 Prepared By:

Daytime Visual Simulation
 of Proposed Wind Park
 Figure 5.3.3-1
 Sheet 3 of 12

PROPOSED VIEW



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION BARNSTABLE



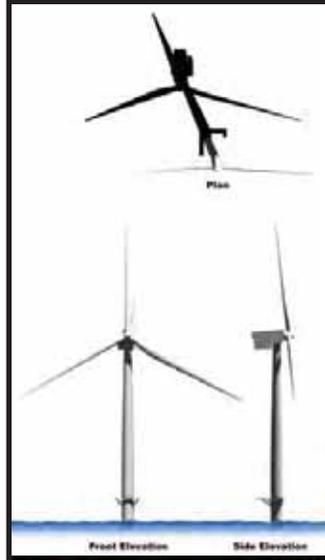
INFORMATION

Viewpoint Specific Data	
Viewpoint Name	Craigville
Viewpoint #	7
Viewpoint Location	41° 38' 17.74"N 70° 20' 9.09"W
Percentage of Total Turbines Visible	83%
Date Taken	12/12/03
Time	1:10pm
Temperature & Visibility	-6° C 21° F Clear
Direction of View	7° East of South
Field Of View	39.236
Focal Length	50.5mm
Closest Turbine	6.62 miles
Furthest Turbine	13.12 miles
Camera Elevation	34.57'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Craigville
Barnstable, Cape Cod
Viewpoint 7
July 2006
Prepared By:
EDR

Daytime Visual Simulation
of Proposed Wind Park
Figure 5.3.3-1
Sheet of 12

PROPOSED VIEW



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION BARNSTABLE



INFORMATION

Viewpoint Specific Data

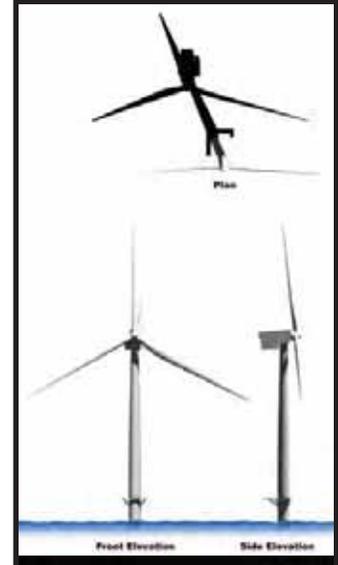
Viewpoint Name	Hyannis Port
Viewpoint #	8
Viewpoint Location	41° 37' 46.66"N 70° 18' 14.99"W
Percentage of Total Turbines Visible	88%
Date Taken	12/12/2003
Time	11:12am
Temperature & Visibility	-7° C 19° F Clear
Direction of View	3° West of South
Field Of View	42.323°
Focal Length	46.5mm
Closest Turbine	5.97 miles
Furthest Turbine	12.02 miles
Camera Elevation	22.44'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Hyannis Port Barnstable, Cape Cod
 July 2006
 Prepared By:

Daytime Visual Simulation of Proposed Wind Park
 Figure 5.3.3-1
 Sheet 5 of 12

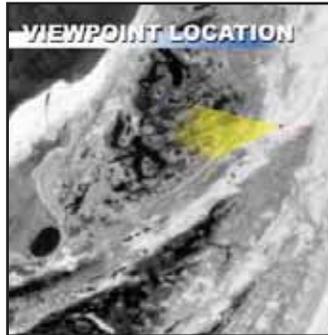
PROPOSED VIEW



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

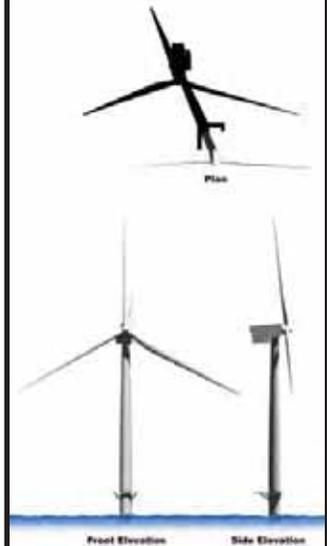
Viewpoint Name	Monomy
Viewpoint #	26
Viewpoint Location	41° 33' 32.57" N 69° 59' 31.48" W
Percentage of Total Turbines Visible	89%
Date Taken	6/10/2006
Time	10:12am
Temperature & Visibility	21° C 70° F Clear
Direction of View	5° South of West
Field Of View	40.7°
Focal Length	48.5mm
Closest Turbine	14.48 miles
Furthest Turbine	21.20 miles
Camera Elevation	30.03'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Monomy
 Viewpoint 26
 Chatham, Cape Cod
 July 2006
 Prepared By:

Daytime Visual Simulation
 of Proposed Wind Park
 Figure 5.3.3-1

PROPOSED VIEW



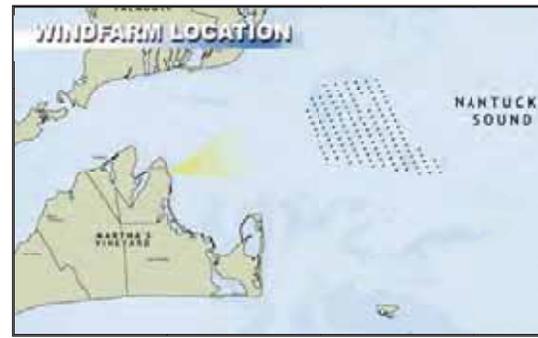
EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

Viewpoint Name	Oak Bluffs
Viewpoint #	21
Viewpoint Location	41° 27' 20.0978" N 73° 33' 23.92" W
Percentage of Total Turbines Visible	100%
Date Taken	2/6/2003
Time	3:03pm
Temperature & Visibility	-2° C 28° F Clear
Direction of View	70° East of North
Field of View	49.65°
Focal Length	48.6mm
Closest Turbine	9.26 miles
Furthest Turbine	16.43 miles
Camera Elevation	54.40'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Viewpoint 21

Oak Bluffs (Martha's Vineyard)

July 2006

Prepared By:



Daytime Visual Simulation
of Proposed Wind Park
Figure 5.3.3-1

Sheet of 12

PROPOSED VIEW



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

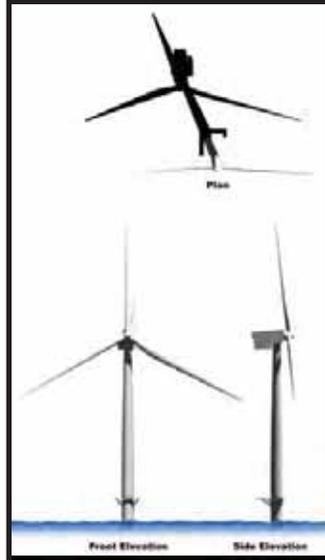
Viewpoint Name	Edgartown
Viewpoint #	20
Viewpoint Location	41° 23' 28.27" N 73° 30' 11.29" W
Percentage of Total Turbines Visible	89%
Date Taken	2/2/2003
Time	10:48am
Temperature & Visibility	2° C 35° F Clear
Direction of View	53° East of North
Field Of View	41.35°
Focal Length	47.7mm
Closest Turbine	8.92 miles
Furthest Turbine	14.52 miles
Camera Elevation	35.85'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Viewpoint 20
Edgartown
 Martha's Vineyard
 July 2006
 Prepared By:

Daytime Visual Simulation
 of Proposed Wind Park
 Figure 5.3.3-1
 Sheet of 12

PROPOSED VIEW



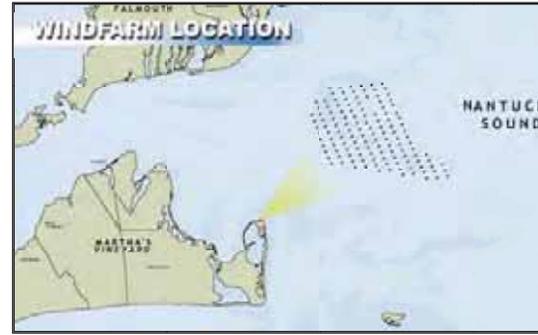
EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

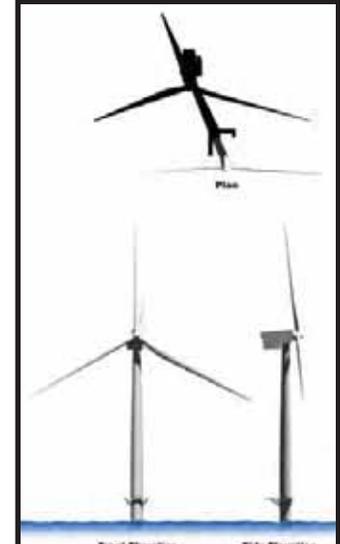
Viewpoint Name	Cape Poge
Viewpoint #	19
Viewpoint Location	41° 29' 12.64"N 70° 27' 4.57"W
Percentage of Total Turbines Visible	83%
Date Taken	2/22/03
Time	2:14pm
Temperature & Visibility	3° C 37° F Clear
Direction of View	52° East of North
Field of View	40.646°
Focal Length	48.6mm
Closest Turbine	5.25 miles
Furthest Turbine	11.33 miles
Camera Elevation	56.77'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Cape Poge
Viewpoint 19
Martha's Vineyard
July 2006
Prepared By:
EDR

**Daytime Visual Simulation
of Proposed Wind Park**
Figure 5.3.3-1

PROPOSED VIEW



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

Viewpoint Name	Nantucket Cliffs
Viewpoint #	22
Viewpoint Location	41° 17' 14.18"N 70° 07' 8.40"W
Percentage of Total Turbines Visible	100%
Date Taken	3/19/2003
Time	11:01am
Temperature & Visibility	2° C 36° F Clear
Direction of View	47° West of North
Field Of View	44°
Focal Length	44.5mm
Closest Turbine	13.82 miles
Furthest Turbine	21.83 miles
Camera Elevation	44.61'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Viewpoint 22

Nantucket Cliffs

Nantucket
 July 2006
 Prepared By:
 EDR

Daytime Visual Simulation
 of Proposed Wind Park
 Figure 5.3.3-1



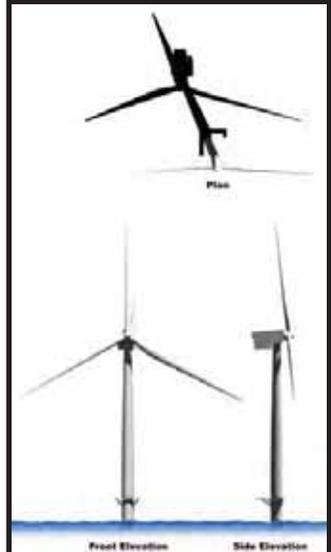
INFORMATION

Viewpoint Specific Data	
Viewpoint Name	Great Point
Viewpoint #	23
Viewpoint Location	41° 23' 22.9578" N 70° 02' 52.17"W
Percentage of Total Turbines Visible	100%
Date Taken	3/19/2003
Time	2:55pm
Temperature & Visibility	2° C 35° F Clear
Direction of View	29° North of West
Field Of View	40.7°
Focal Length	48.5mm
Closest Turbine	11.18 miles
Furthest Turbine	20.18 miles
Camera Elevation	18.20'

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Viewpoint 23
Great Point
 Nantucket
 July 2006
 Prepared By:
 EDR

Daytime Visual Simulation
 of Proposed Wind Park
 Figure 5.3.3-1
 Sheet 11 of 12

PROPOSED VIEW



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

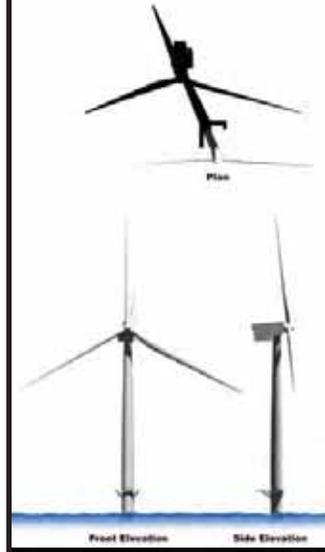
Viewpoint Name	Tuckernuck Island
Viewpoint #	24
Viewpoint Location	41° 18' 39.417870" N 15° 44.85' W
Percentage of Total Turbines Visible	100%
Date Taken	5/20/2003
Time	7:27 PM
Temperature & Visibility	13° C 56° F Partly Cloudy
Direction of View	11° West of North
Field Of View	38.7
Focal Length	51.2 mm
Closest Turbine	10.31 miles
Furthest Turbine	16.76 miles
Camera Elevation	23.95

Please note that at distances over 3 miles (for viewers at sea level) the bases of the turbines would fall below the visible horizon due to curvature of the earth. However, refraction could potentially counter the screening effects of the earth's curvature. Therefore, turbines are shown at the visible horizon line in the simulations, which may create minor exaggerations in turbine height.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Viewpoint 24
Tuckernuck Island
 Nantucket
 July 2006
 Prepared By:
 EDR

Daytime Visual Simulation
 of Proposed Wind Park
 Figure 5.3.3-1
 Sheet 12 of 12

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

Viewpoint Name	Nobska Lighthouse
Viewpoint #	1
Viewpoint Location	41° 30' 56.80"N 70° 39' 18.28"W
Percentage of Total Turbines Visible	100%
Date Taken	1/22/2003
Time	6:15 PM
Temperature & Visibility	-19° C 13° F Clear
Direction of View	3° South of East
Field Of View	40.115°
Focal Length ¹	49.3mm
Closest Turbine	13.40 miles
Furthest Turbine	21.84 miles
Camera Elevation	55.74'

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

Displayed in 35mm equivalent ¹ MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Or White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Viewpoint 1
Nobska Lighthouse
 1 Falgout, Cape Cod
 July 2006
 Prepared By:

Nighttime Visual Simulation
 of Proposed Wind Park
 Figure 5.3.3-2

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

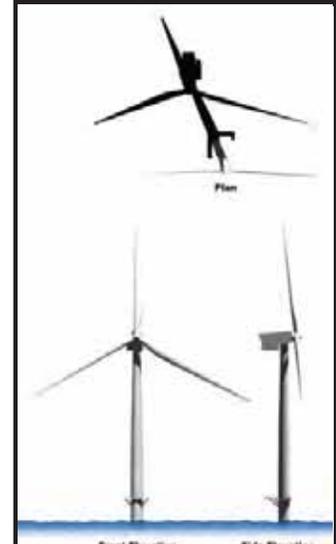
Viewpoint Name	Cotuit
Viewpoint #	5
Viewpoint Location	41° 30' 22.64" N 70° 28' 13.70" W
Percentage of Total Turbines Visible	100%
Date Taken	08/20/03
Time	8:29 PM
Temperature & Visibility	18° C 65° F Clear
Direction of View	41° East of South
Field Of View	40.873°
Focal Length	46.3mm
Closest Turbine	5.75 miles
Furthest Turbine	14.25 miles
Camera Elevation	9.90'

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

Displayed in 35mm equivalent f/MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Or White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	10' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Viewpoint 5

Cotuit

Pennsboro, Cape Cod

July 2006

Prepared By:



Nighttime Visual Simulation
of Proposed Wind Park
Figure 5.3.3-2

Sheet 2 of 11

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

Viewpoint Specific Data	
Viewpoint Name	Wianno Area
Viewpoint #	0
Viewpoint Location	41° 37' 01.10" N 70° 22' 12.67" W
Percentage of Total Turbines Visible	82%
Date Taken	1/22/2003
Time	9:43 PM
Temperature & Visibility	-13° C 8° F Clear
Direction of View	20° East of South
Field Of View	39.966°
Focal Length	40.5mm
Closest Turbine	5.34 miles
Furthest Turbine	12.63 miles
Camera Elevation	28.58'

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Or White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	10' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Viewpoint #

Wianno

Barnstable, Cape Cod

July 2008

Prepared By:



Nighttime Visual Simulation
of Proposed Wind Park
Figure 5.3.3-2

Sheet 3 of 11

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

Viewpoint Name	Craigville Area
Viewpoint #	7
Viewpoint Location	41° 38' 17.74"N 70° 20' 9.68"W
Percentage of Total Turbines Visible	93%
Date Taken	12/12/03
Time	9:06 PM
Temperature & Visibility	-10° C 14° F Clear
Direction of View	7° East of South
Field Of View	39.966°
Focal Length ¹	40.5mm
Closest Turbine	6.62 miles
Furthest Turbine	13.12 miles
Camera Elevation	34.57'

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

Displayed in 35mm equivalent ¹ MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Or White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	10' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Front Elevation Side Elevation

Craigville Barnstable, Cape Cod

July 2006

Prepared By:



Nighttime Visual Simulation
of Proposed Wind Park
Figure 5.3.3-2

Sheet of 11

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

Viewpoint Name	Hyannis Area
Viewpoint #	8
Viewpoint Location	41° 37' 46.68" N 70° 18' 14.59" W
Percentage of Total Turbines Visible	89%
Date Taken	1/21/2003
Time	10:12 PM
Temperature & Visibility	-12° C 10° F Clear
Direction of View	3° West of South
Field Of View	40.341°
Focal Length	49.0 mm
Closest Turbine	5.97 miles
Furthest Turbine	12.02 miles
Camera Elevation	22.44'

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

Displayed in 35mm equivalent * MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	10' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Viewpoint 8 Hyannis-Port - Barnstable, Cape Cod

July 2006

Prepared By:



Nighttime Visual Simulation
of Proposed Wind Park
Figure 5.3.3-2

Sheet 5 of 11

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

Viewpoint Name	Oak Bluffs
Viewpoint #	21
Viewpoint Location	41° 27' 20.08" N 73° 33' 23.92" W
Percentage of Total Turbines Visible	100%
Date Taken	2/6/2003
Time	6:48pm
Temperature & Visibility	-3° C 26° F Clear
Direction of View	76° East of North
Field Of View	40.648°
Focal Length ¹	46.6mm
Closest Turbine	9.26 miles
Furthest Turbine	16.43 miles
Camera Elevation	54.40'

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

Displayed in 35mm equivalent ¹ MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	237'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Oak Bluffs Viewpoint 21

July 2006
Prepared By:
EDR

Nighttime Visual Simulation
of Proposed Wind Park
Figure 5.3.3-2

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

Viewpoint Name	Edgartown
Viewpoint #	20
Viewpoint Location	41° 23' 28.27" N 73° 30' 11.29" W
Percentage of Total Turbines Visible	98%
Date Taken	2/6/2003
Time	8:14 PM
Temperature & Visibility	-3° C 26° F Overcast
Direction of View	53° East of North
Field Of View	41.19°
Focal Length ¹	47.9mm
Closest Turbine	8.92 miles
Furthest Turbine	15.52 miles
Camera Elevation	35.85'

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

¹Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Tower Dimensions and Data

Proposed Color of Turbine	Or White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Edgartown

July 2006

Prepared By:



Nighttime Visual Simulation
of Proposed Wind Park
Figure 5.3.3-2

Sheet of 11

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

Viewpoint Specific Data		Cape Page
Viewpoint Name	19	Cape Page
Viewpoint #	19	
Viewpoint Location	41° 29' 12.6478" N 70° 27' 4.577" W	
Percentage of Total Turbines Visible	83%	
Date Taken	2/5/2003	
Time	6:36 PM	
Temperature & Visibility	-2° C / 28° F	Clear
Direction of View	52° East of North	
Field Of View	40.648°	
Focal Length	46.6mm	
Closest Turbine	5.55 miles	
Furthest Turbine	11.33 miles	
Camera Elevation	56.77'	

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Tower Dimensions and Data

Tower Dimensions and Data		Or White (5 Percent Gray)
Proposed Color of Turbine		Or White (5 Percent Gray)
Height to Hub	257'	
Hub Diameter	14'	
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'	
Maximum Width of Tower	16' dia	
Minimum Width of Tower	11' dia	
Rotor Diameter	364'	
Maximum Rotor Blade Width	12'	
Maximum Height above MLLW ¹	440'	
Wind Direction	SW	
Height of Turbine Platform above MLLW ²	30'	
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'	
Aviation Warning Lights	FAA L864 and L810	
Coast Guard Warning Lights	Dual Amber USCG Lights	



Cape Page Viewpoint 19

July 2006
 Prepared By: [Redacted]
 EDR

Nighttime Visual Simulation
 of Proposed Wind Park
 Figure 5.3.3-2

Sheet of 11

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION NANTUCKET SOUND



INFORMATION

Viewpoint Specific Data

Viewpoint Name	Nantucket Cliffs
Viewpoint #	22
Viewpoint Location	41° 46' 58.15" N 73° 52' 17.79" W
Percentage of Total Turbines Visible	100%
Date Taken	5/10/2003
Time	10:43 PM
Temperature & Visibility	Clear
Direction of View	47° West of North
Field Of View	44°
Focal Length ¹	44.5mm
Closest Turbine	13.52 miles
Furthest Turbine	21.83 miles
Camera Elevation	44.6'

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

¹ Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Or White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Nantucket Cliffs Viewpoint 22
Nantucket
July 2006
Prepared By: [Redacted]
EDR

Nighttime Visual Simulation
of Proposed Wind Park
Figure 5.3.3-2

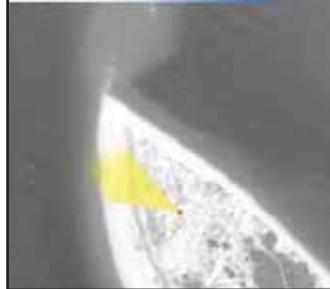
Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION NANTUCKET SOUND



INFORMATION

Viewpoint Specific Data

Viewpoint Specific Data		Great Point
Viewpoint Name		Great Point
Viewpoint #		23
Viewpoint Location	41° 50' 10.03" N 73° 43' 32.14" W	
Percentage of Total Turbines Visible	100%	
Date Taken	5/19/2003	
Time	7:35 PM	
Temperature & Visibility		Clear
Direction of View	29° North of West	
Field Of View	40.723°	
Focal Length	46.5mm	
Closest Turbine	11.18 miles	
Furthest Turbine	20.09 miles	
Camera Elevation	18.2'	

Note: All long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

Displayed in 35mm equivalent MLLW - Mean Lower Low Water

Tower Dimensions and Data

Tower Dimensions and Data	Or White (5 Percent Gray)
Proposed Color of Turbine	Or White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Great Point Viewpoint 23 Nantucket

July 2006

Prepared By:



Nighttime Visual Simulation
of Proposed Wind Park
Figure 5.3.3-2

Sheet 1 of 11

Simulated Nighttime View



EXISTING VIEW



VIEWPOINT LOCATION



WINDFARM LOCATION



INFORMATION

Viewpoint Specific Data

Viewpoint Name	Tuckernuck Island
Viewpoint #	24
Viewpoint Location	41° 18' 39.4171" N 73° 15' 44.85"W
Percentage of Total Turbines Visible	100%
Date Taken	5/20/2003
Time	7:55 PM
Temperature & Visibility	13° C 56° F Overcast
Direction of View	35° West of North
Field Of View	38.051°
Focal Length	52.2 mm
Closest Turbine	10.31 miles
Furthest Turbine	16.76 miles
Camera Elevation	23.95

Note: At long exposures, film reacts to light differently than the eye. This photo simulation has been modified to more accurately present lights as they would be perceived by the human eye.

Displayed in 35mm equivalent lens. MLLW - Mean Lower Low Water

Tower Dimensions and Data

Proposed Color of Turbine	Or White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ¹	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	FAA L864 and L810
Coast Guard Warning Lights	Dual Amber USCG Lights



Viewpoint 24

Tuckernuck Island

July 2008

Prepared By: [Redacted]

EDR

Nighttime Visual Simulation
of Proposed Wind Park
Figure 5.3.3-2



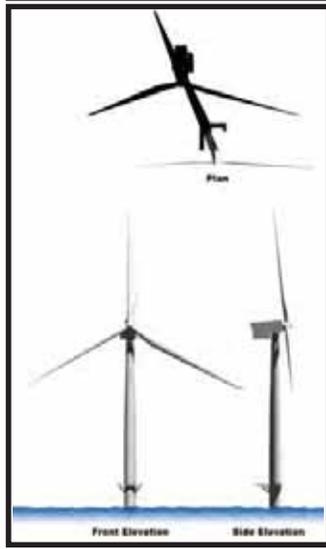
INFORMATION

Photo-Rendering Data	
Viewpoint Name	Nobska Lighthouse
Viewpoint #	1B
Viewpoint Location	41° 30' 56.897" N 70° 39' 18.28"W
Percentage of Total Turbines Visible in F.O.V.	100%
Date Parameter	8/1/2005
Time Parameter	8:00 AM
Temperature & Visibility	NA
Direction of View	4° South of East
Field Of View (F.O.V.)	40.115°
Focal Length ¹	49.3mm
Closest Turbine in F.O.V.	13.40 miles
Furthest Turbine in F.O.V.	23.84 miles
Camera Elevation	55.74'

¹ Please note that this photo rendering uses a generic waterfront image that is intended to represent conditions as seen from previously simulated views in the DEIS/DIR.
² This rendering is a representation of the revised scale, layout, color, and lighting of the proposed wind park, as perceived from the referenced viewpoint location.

¹ Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Sounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	10' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Sounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Nobska Lighthouse Falmouth

Viewpoint 1B

Daytime Photo-Rendering of Proposed Wind Park from Six Distant Viewpoints
 Potential View of Revised Layout from Falmouth, Cape Cod *

Figure 5.3.3-3 Sheet 1 of 6



July 2006



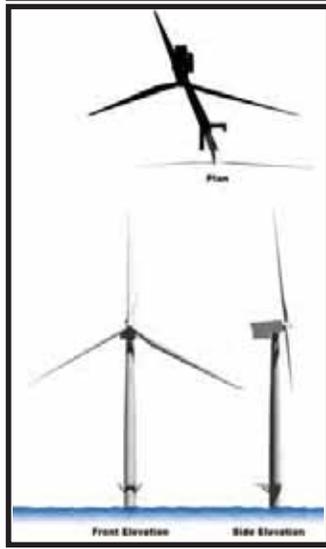
INFORMATION

Photo-Rendering Data		
Viewpoint Name	Monomoy	
Viewpoint #	268	
Viewpoint Location	41° 33' 32.57" N 69° 31' 48" W	
Percentage of Total Turbines Visible in F.O.V.	100%	
Date Parameter	8/10/2005	
Time Parameter	3:15pm	
Temperature & Visibility	NA	
Direction of View	8° South of West	
Field Of View (F.O.V.)	40.7°	
Focal Length ¹	48.5mm	
Closest Turbine in F.O.V.	14.48 miles	
Furthest Turbine in F.O.V.	21.20 miles	
Camera Elevation	30.03'	

¹ Please note that this photo rendering uses a generic waterfront image that is intended to represent conditions as seen from previously simulated views in the DEIS/DIR.
² This rendering is a representation of the revised scale, layout, color, and lighting of the proposed wind park, as perceived from the referenced viewpoint location.

¹ Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Sounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	10' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Sounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Monomoy Chatham

Viewpoint 268

Daytime Photo-Rendering of Proposed Wind Park from Six Distant Viewpoints Figure 5.3.3-3 Sheet 2 of 6

Potential View of Revised Layout from Chatham, Cape Cod¹

Prepared By:



July 2006

A-233



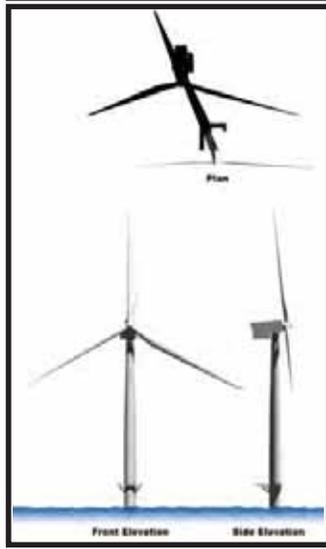
INFORMATION

Photo-Rendering Data	
Viewpoint Name	Edgartown
Viewpoint #	20B
Viewpoint Location	41° 23' 26.27" N 70° 30' 11.29" W
Percentage of Total Turbines Visible in F.O.V.	97%
Date Parameter	8/1/2005
Time Parameter	7:45 AM
Temperature & Visibility	NA
Direction of View	54° East of North
Field Of View (F.O.V.)	41.35°
Focal Length ¹	47.7mm
Closest Turbine in F.O.V.	8.92 miles
Furthest Turbine in F.O.V.	14.52 miles
Camera Elevation	35.85'

¹ Please note that this photo rendering uses a generic waterfront image that is intended to represent conditions as seen from previously simulated views in the DEIS/DIR.
² This rendering is a representation of the revised scale, layout, color, and lighting of the proposed wind park, as perceived from the referenced viewpoint location.

Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Sounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	10' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Sounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Edgartown Martha's Vineyard

Viewpoint 20B

Daytime Photo-Rendering of Proposed Wind Park from Six Distant Viewpoints
 Potential View of Revised Layout from Edgartown, Martha's Vineyard *

Figure 5.3.3-3 Sheet 3 of 6



July 2006



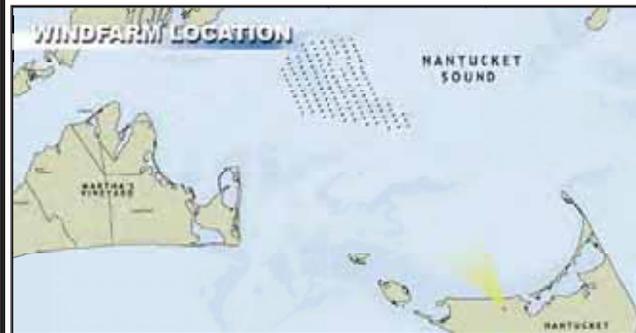
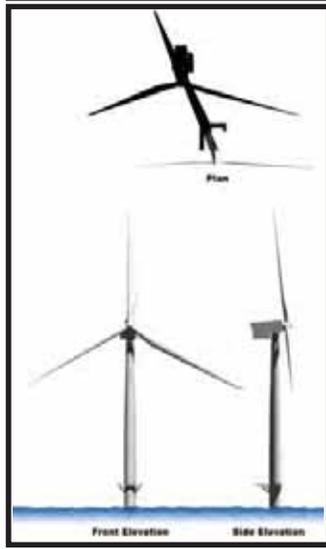
INFORMATION

Photo-Rendering Data	
Viewpoint Name	Nantucket Cliffs
Viewpoint #	228
Viewpoint Location	41° 17' 14.15" N 70° 07' 8.40" W
Percentage of Total Turbines Visible in F.O.V.	100%
Date Parameter	3/19/2003
Time Parameter	10:00am
Temperature & Visibility	NA
Direction of View	47° West of North
Field Of View (F.O.V.)	44°
Focal Length ¹	44.5mm
Closest Turbine in F.O.V.	13.62 miles
Furthest Turbine in F.O.V.	21.83 miles
Camera Elevation	44.61'

¹ Please note that this photo rendering uses a generic waterfront image that is intended to represent conditions as seen from previously simulated views in the DEIS/DIR.
² This rendering is a representation of the revised scale, layout, color, and lighting of the proposed wind park, as perceived from the referenced viewpoint location.

¹ Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Sounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	10' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Sounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Nantucket Cliffs

Viewpoint 228

Daytime Photo-Rendering of Proposed Wind Park from Six Distant Viewpoints
 Potential View of Revised Layout from Nantucket Cliffs, Nantucket *



Figure 5.3.3-3



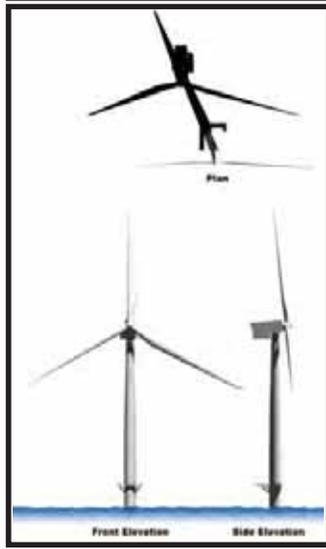
INFORMATION

Photo-Rendering Data		
Viewpoint Name	Great Point	
Viewpoint #	23B	
Viewpoint Location	41° 23' 22.95" N 70° 02' 52.17" W	
Percentage of Total Turbines Visible in F.O.V.	100%	
Date Parameter	8/1/2005	
Time Parameter	3:00 PM	
Temperature & Visibility	NA	
Direction of View	29° North of West	
Field Of View (F.O.V.)	40.7°	
Focal Length ¹	48.5mm	
Closest Turbine in F.O.V.	11.18 miles	
Furthest Turbine in F.O.V.	20.03 miles	
Camera Elevation	18.20'	

¹ Please note that this photo rendering uses a generic waterfront image that is intended to represent conditions as seen from previously simulated views in the DES/DIR.
² This rendering is a representation of the revised scale, layout, color, and lighting of the proposed wind park, as perceived from the referenced viewpoint location.

¹ Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	10' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Great Point Nantucket

Viewpoint 23B

Daytime Photo-Rendering of Proposed Wind Park from Six Distant Viewpoints Figure 5.3.3-3

Potential View of Revised Layout from Great Point, Nantucket * Sheet 5 of 6

Prepared By:



July 2006



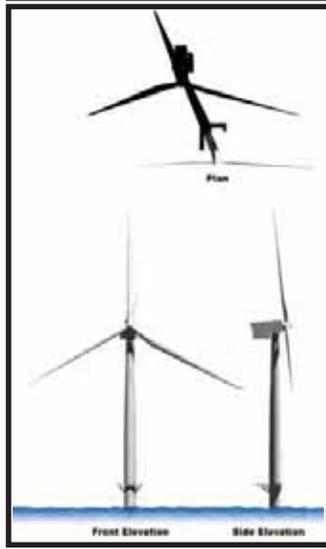
INFORMATION

Photo-Rendering Data	
Viewpoint Name	Tuckernuck Island
Viewpoint #	24B
Viewpoint Location	41° 18' 39.4178" 70° 15' 44.85"W
Percentage of Total Turbines Visible in F.O.V.	100%
Date Parameter	12/1/2005
Time Parameter	10:00 PM
Temperature & Visibility	NA
Direction of View	11° West of North
Field Of View (F.O.V.)	38.7°
Focal Length ¹	51.2 mm
Closest Turbine in F.O.V.	10.31 miles
Furthest Turbine in F.O.V.	19.76 miles
Camera Elevation	23.95'

¹ Please note that this photo rendering uses a generic waterfront image that is intended to represent conditions as seen from previously simulated views in the DEIS/DIR.
² This rendering is a representation of the revised scale, layout, color, and lighting of the proposed wind park, as perceived from the referenced viewpoint location.

¹ Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data	
Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Sounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	10' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Sounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Tuckernuck Island

Viewpoint 24B

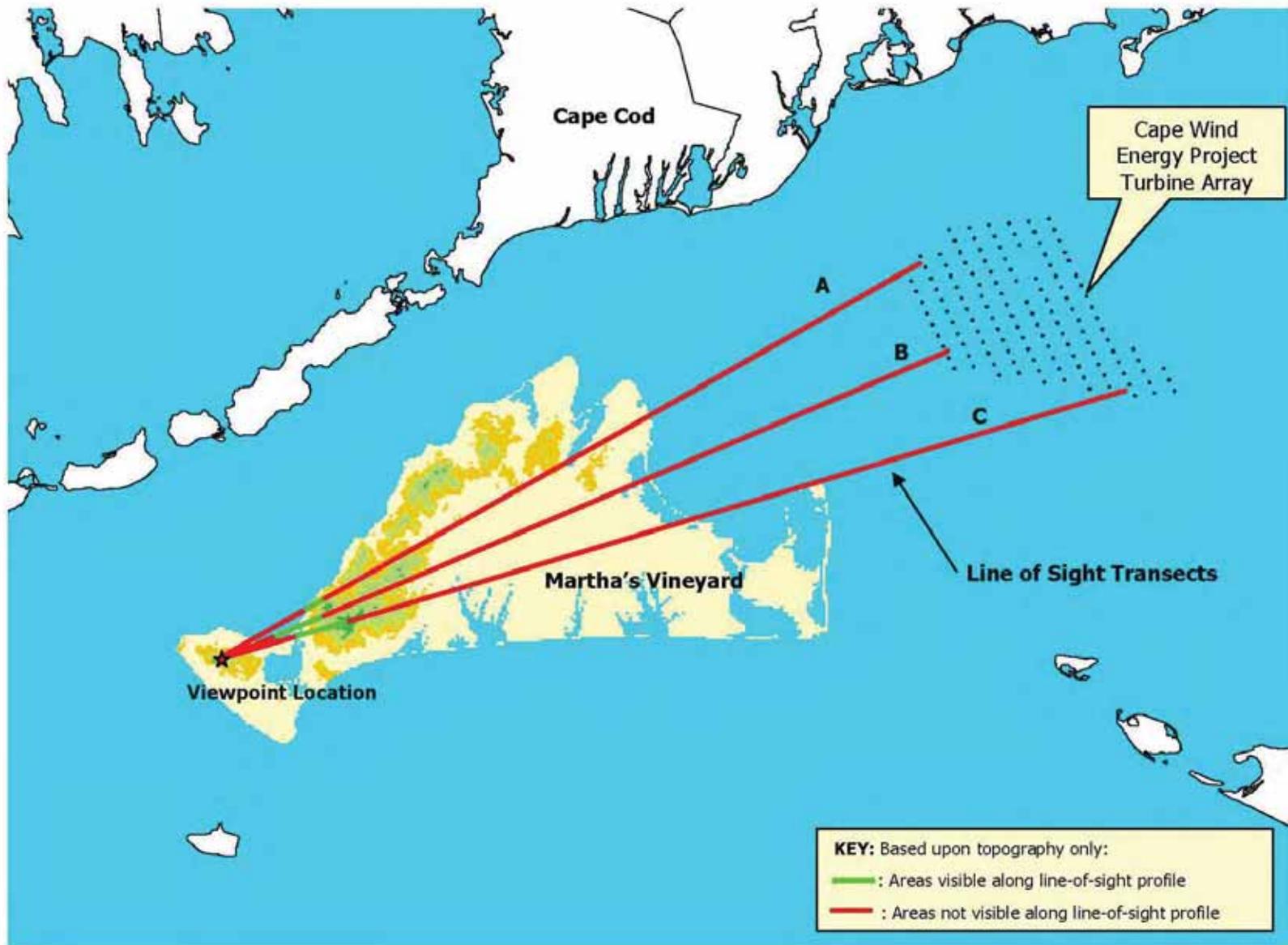
Daytime Photo-Rendering of Proposed Wind Park from Six Distant Viewpoints
 Potential View of Revised Layout from Tuckernuck Island, Nantucket *

Prepared By:

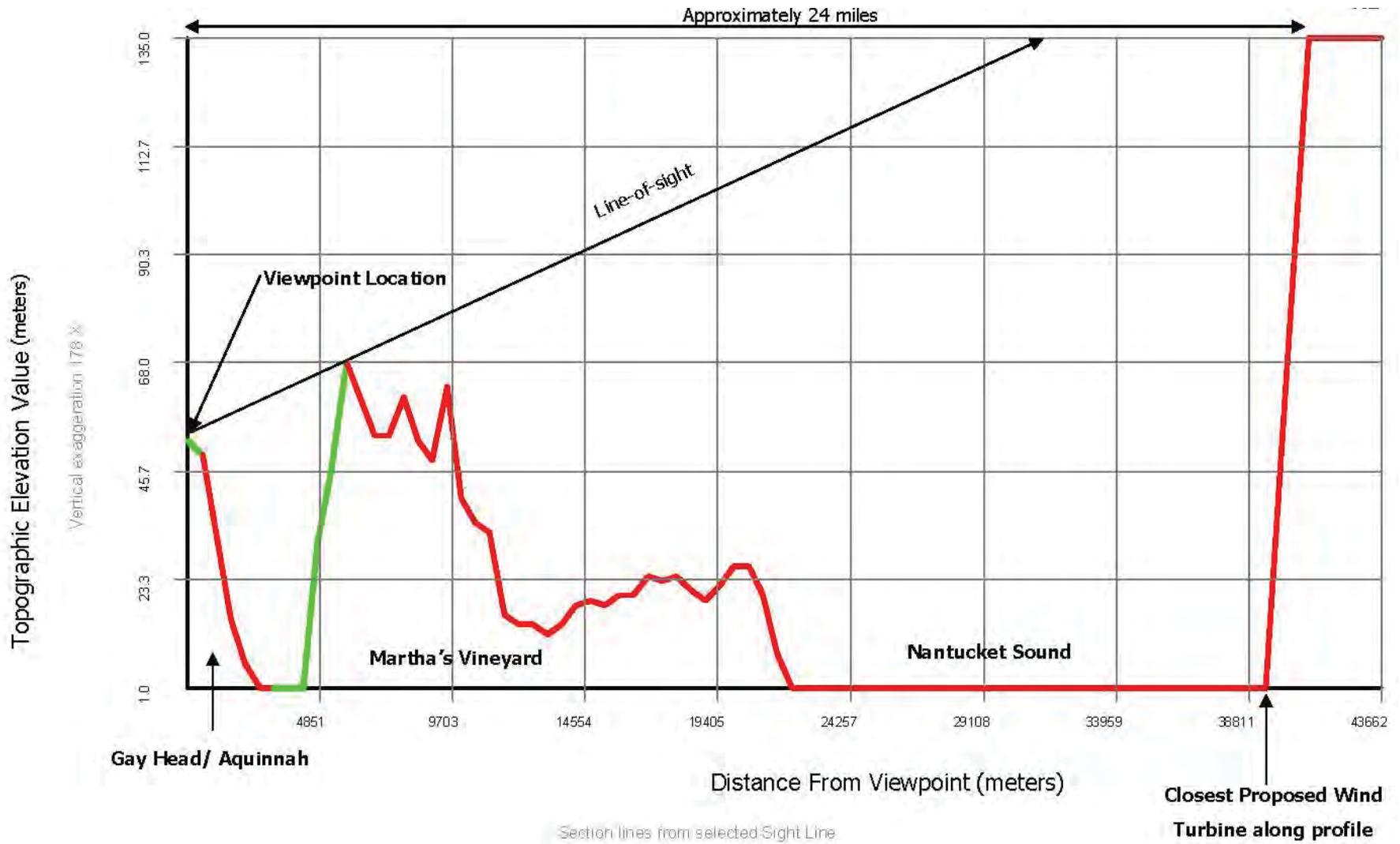


July 2006

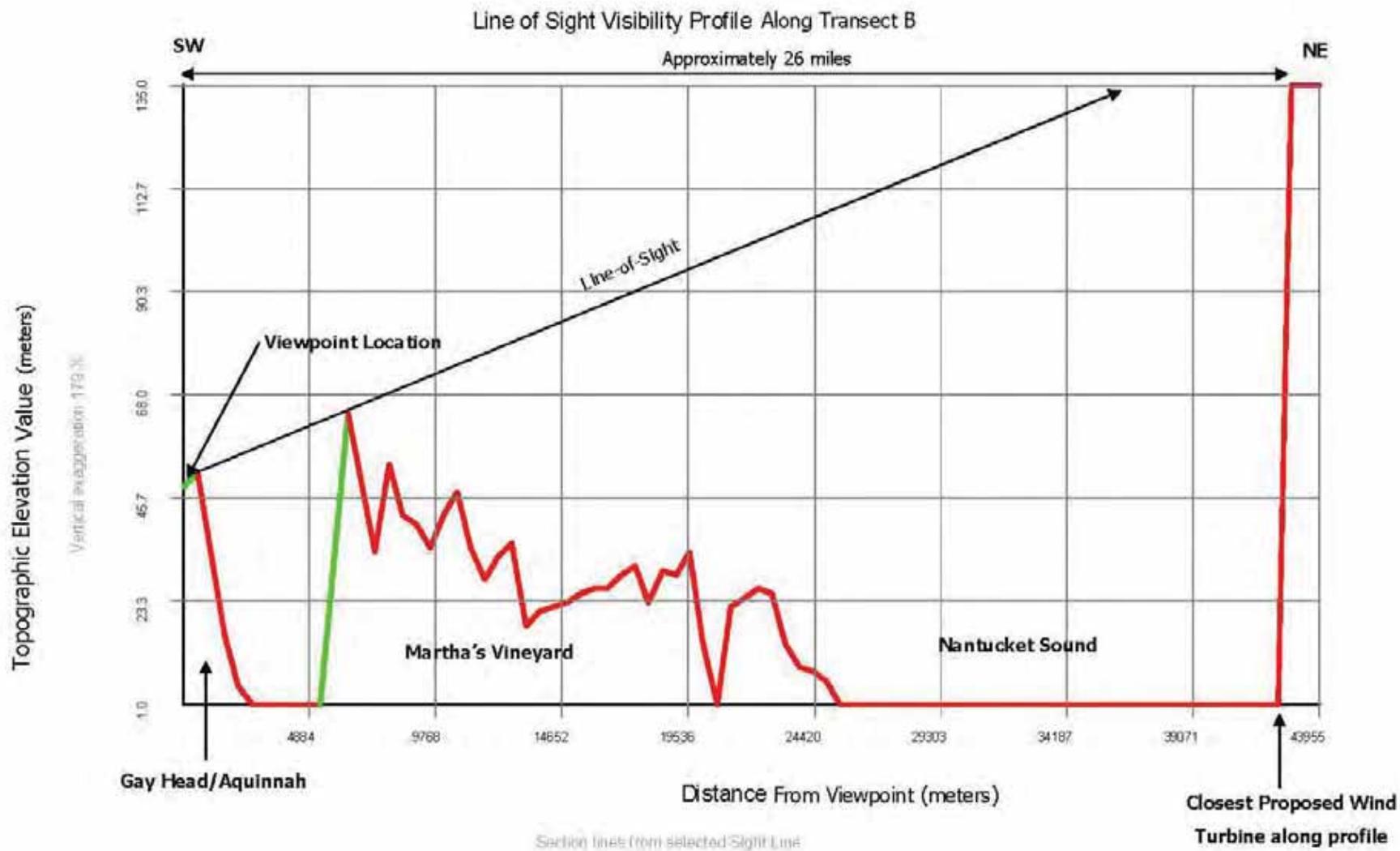
Figure 5.3.3-3



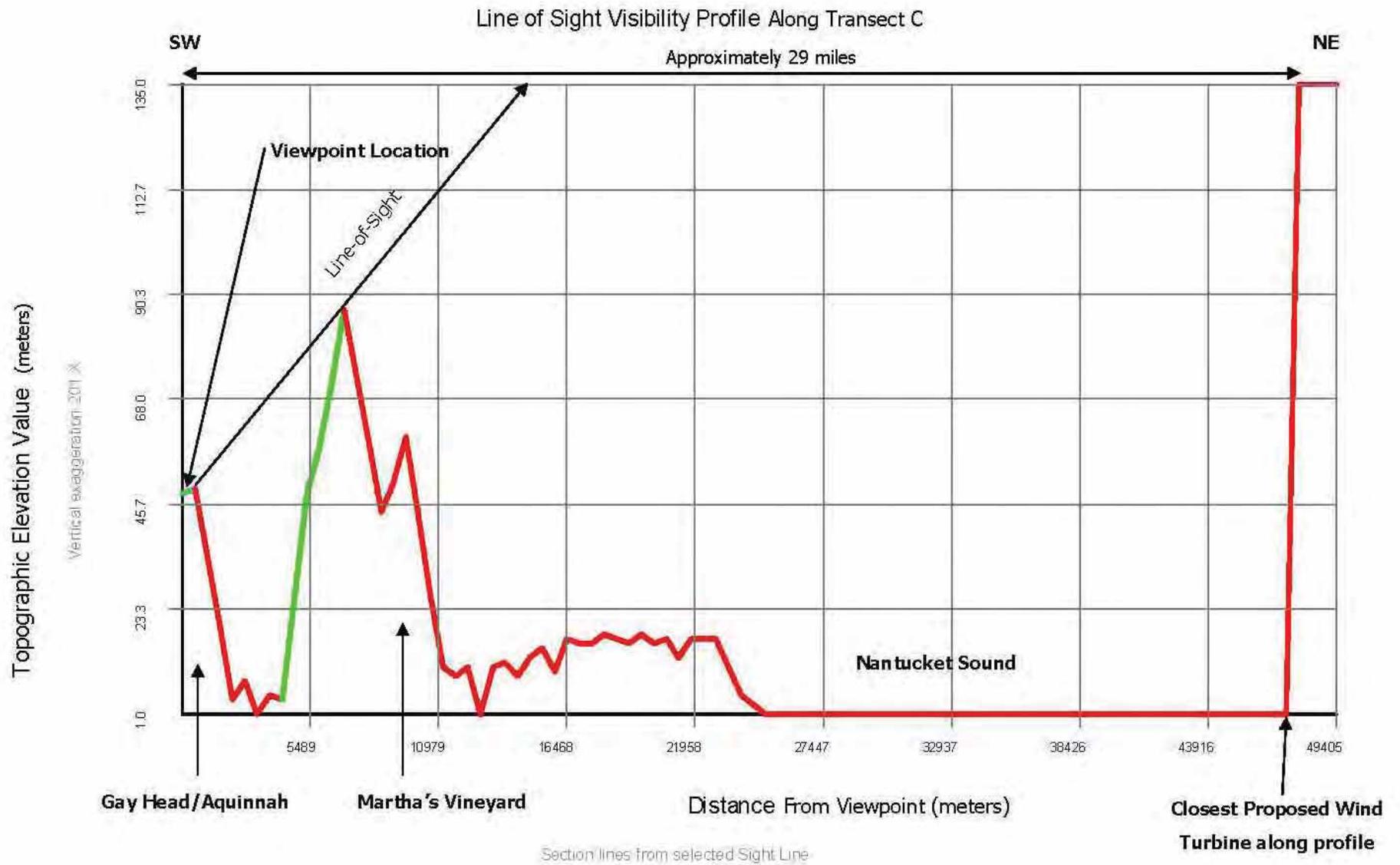
CAPE WIND ENERGY PROJECT
 Line of Sight Transect from Approximate Viewpoint Elevation
 At Gay Head Lighthouse - Northeastward toward Proposed Wind Park
 Figure 5.3.3-



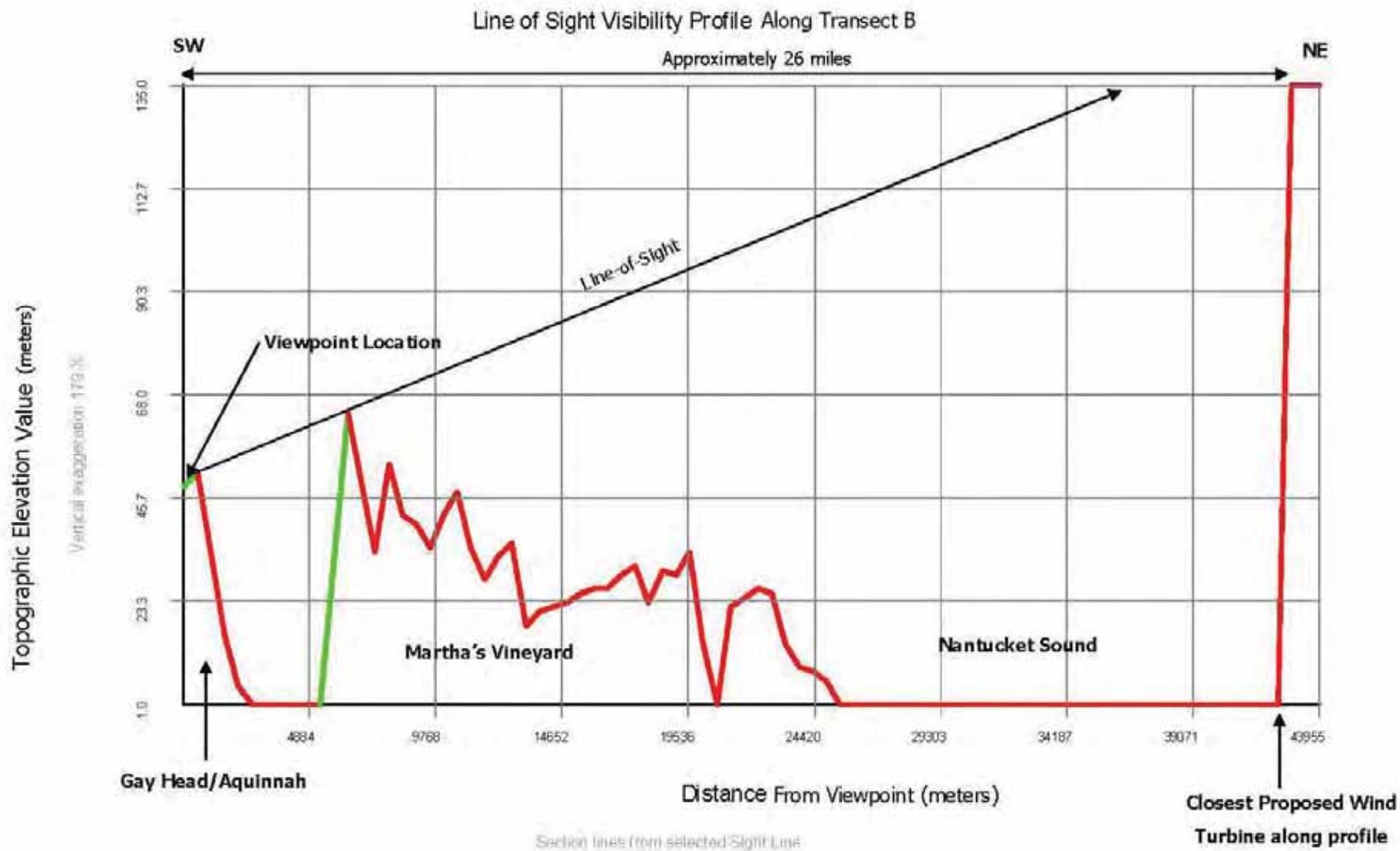
CAPE WIND ENERGY PROJECT
 Transect A Line of Sight Profile - Gay Head Aquinnah
 North easterly Toward Wind Park
 Figure 5.3.3-5



CAPE WIND ENERGY PROJECT
 Transect Line of Sight Profile - Gay Head Aquinnah
 Northeastly Toward Wind Park
 Figure 5.3.3-



CAPE WIND ENERGY PROJECT
 Transect C Line of Sight Profile - Gay Head Aquinnah
 Northeastly Toward Wind Park
 Figure 5.3.3-



CAPE WIND ENERGY PROJECT
 Transect Line of Sight Profile - Gay Head Aquinnah
 Northeastly Toward Wind Park
 Figure 5.3.3-



CAPE WIND ENERGY PROJECT
 Transect C Line of Sight Profile - Gay Head Aquinnah
 Northeastly Toward Wind Park
 Figure 5.3.3-



INFORMATION

Photo-Rendering Data

Viewpoint Name	Harwich Port
Viewpoint #	B1
Viewpoint Location	41° 39' 50.34 N 70° 4' 14.08" W
Percentage of Total Turbines Visible in F.O.V.	100%
Date Parameter	02/06/03
Time Parameter	03:03 PM
Temperature & Visibility	NA
Direction of View	48° West of South
Field Of View (F.O.V)	39.6°
Focal Length ¹	50mm
Closest Turbine in F.O.V.	15 miles
Furthest Turbine in F.O.V.	20.4 miles
Camera Elevation	5.1'

¹ Please note that this photo rendering uses a generic seascape image that is not intended to represent actual conditions at a given location.
² This rendering is a representation of the scale, layout, color, and lighting of the proposed alternative wind park, as perceived from the selected location.

Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Harwich Port

Viewpoint B1

Daytime Photo-Rendering of Proposed Wind Park from 15 and 19 Miles

Potential View of Revised Layout Harwich Port, Cape Cod *

Prepared By:



July 2006

Figure 5.3.3-

Sheet 1 of 2

Cape Cod



INFORMATION

Photo-Rendering Data

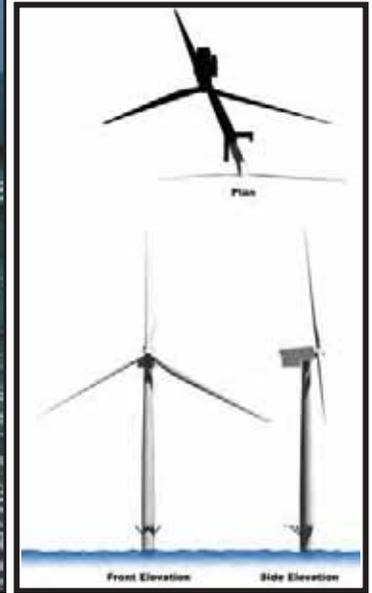
Viewpoint Name	STAGE HARBOR CHATHAM
Viewpoint #	B2
Viewpoint Location	41°39' 27.72" N 69° 58' 47.91" W
Percentage of Total Turbines Visible in F.O.V.	100%
Date Parameter	02/06/03
Time Parameter	03:03 PM
Temperature & Visibility	NA
Direction of View	32° South of West
Field Of View (F.O.V)	33.6°
Focal Length ¹	50mm
Closest Turbine in F.O.V.	18.8 miles
Furthest Turbine in F.O.V.	23.4 miles
Camera Elevation	5.1'

¹ Please note that this photo rendering uses a generic seascape image that is not intended to represent actual conditions at a given location.
² This rendering is a representation of the scale, layout, color, and lighting of the proposed alternative wind park, as perceived from the selected location.

Displayed in 35mm equivalent ² MLLW - Mean Lower Low Water

Model Dimensions and Data

Proposed Color of Turbine	Off White (5 Percent Gray)
Height to Hub	257'
Hub Diameter	14'
Bounding Dimensions of Nacel (LxWxH)	48' X 40' X 27'
Maximum Width of Tower	16' dia
Minimum Width of Tower	11' dia
Rotor Diameter	364'
Maximum Rotor Blade Width	12'
Maximum Height above MLLW ²	440'
Wind Direction	SW
Height of Turbine Platform above MLLW ²	30'
Bounding Dim. of ESP (LxWxH)	100' X 200' X 100'
Aviation Warning Lights	NA
Coast Guard Warning Lights	NA



Stage Harbor

Viewpoint B2

Daytime Photo-Rendering of Proposed Wind Park from 15 and 19 Miles

Potential View of Revised Layout Stage Harbor - Chatham, Cape Cod *

Prepared By:



July 2006

Figure 5.3.3-

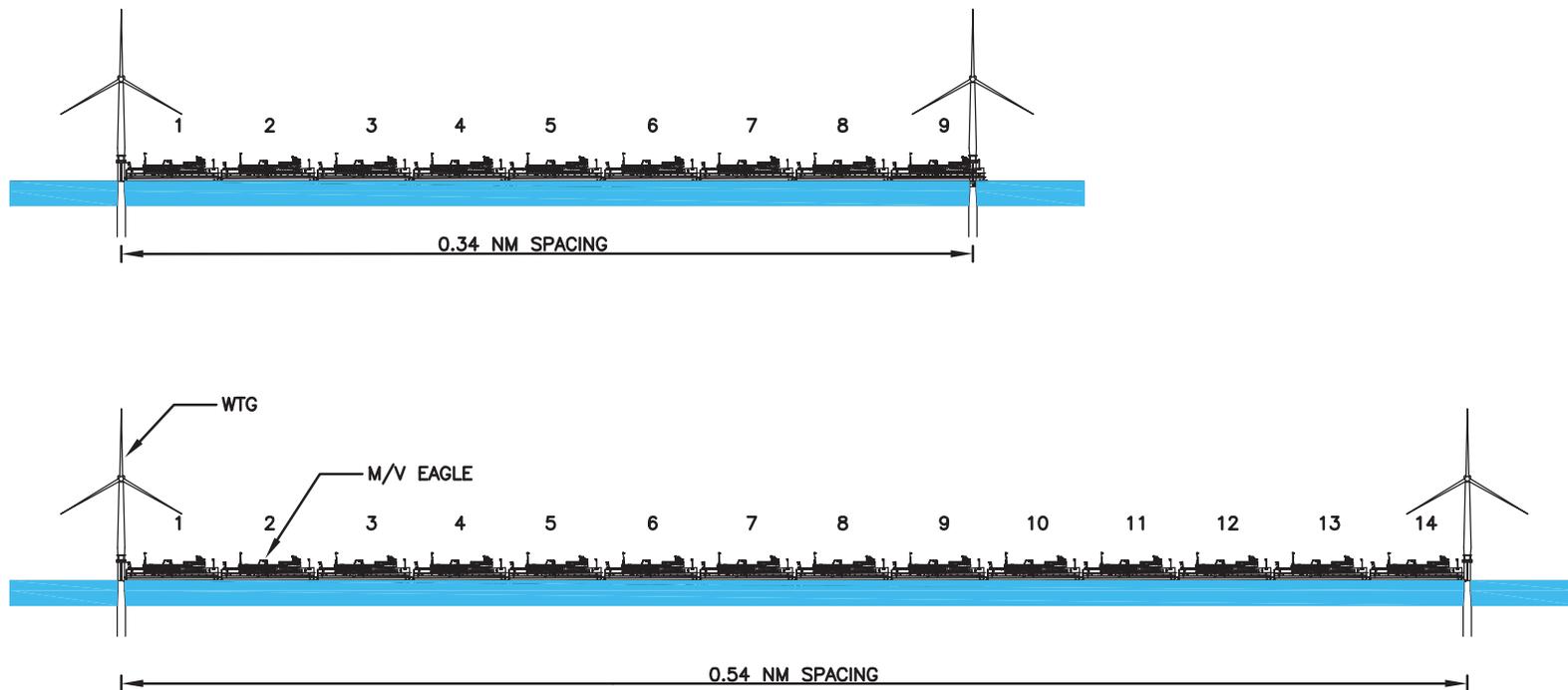
Sheet 2 of 2

Chatham



Source: Photo credit Cape Wind Associates

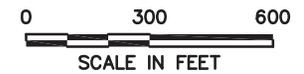
CAPE WIND ENERGY PROJECT
Nysted Offshore Windfarm 2 5
Figure 5.3.3-



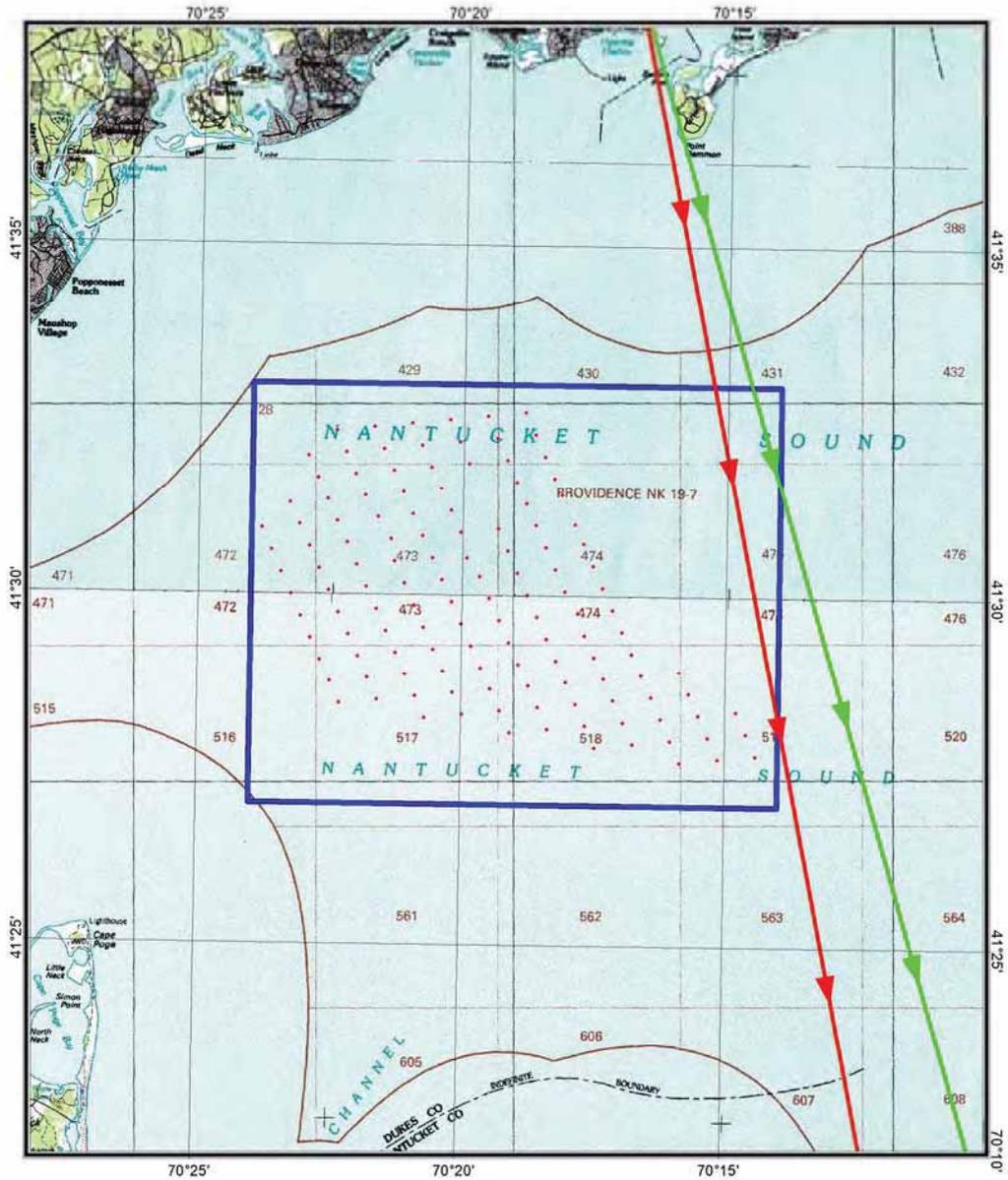
NOTES:

- 1. M/V EAGLE IS 233 FT LONG OVERALL.
- 2. M/V EAGLE PLAN PROVIDED BY THE STEAMSHIP AUTHORITY
- 3. 1 NAUTICAL MILE (NM) = 6,076 FT

Source: Revised Navigational Risk Assessment - Cape Wind Energy Project - 6/30/05



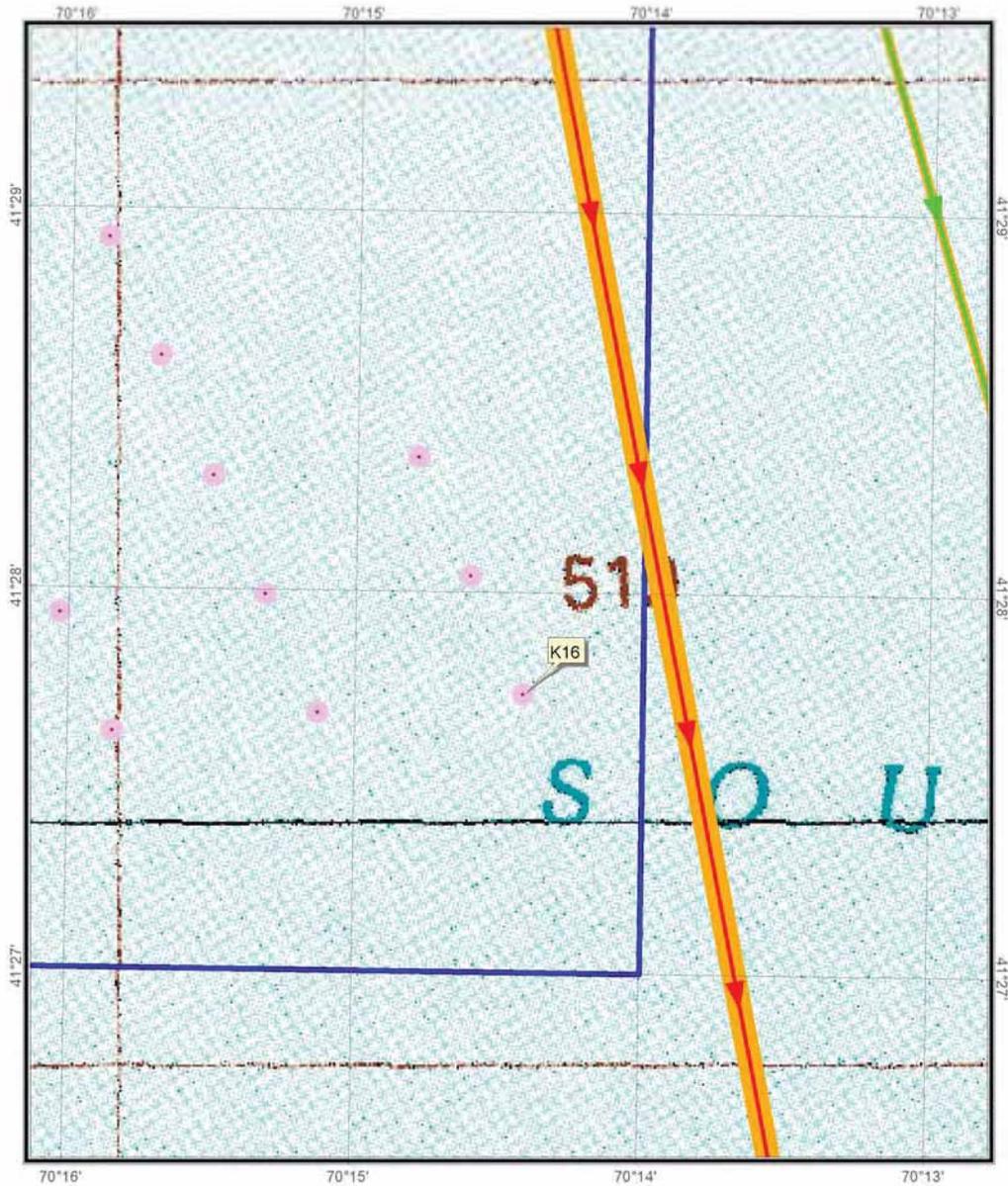
CAPE WIND ENERGY PROJECT
Comparison of M/V Eagle to WTG Spacing
Figure 5.3. -1



Source ComSearch Ecuti e Summary - Wind
 Power GeoPlanner icen ed icro a e Search
 Worst Case Fresnel Zone June 2 5



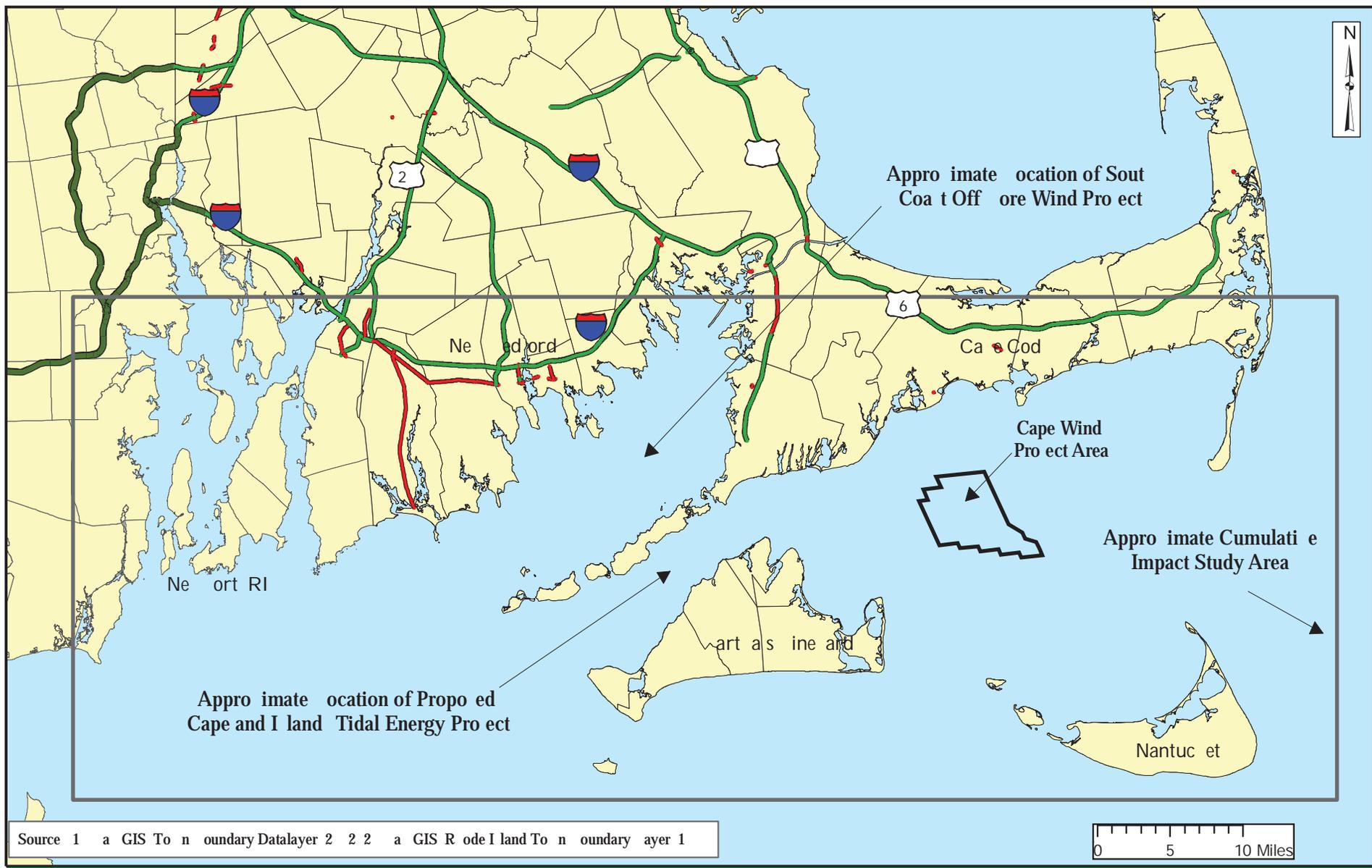
CAPE WIND ENERGY PROJECT
 Location of Worst Case Fresnel Zone
 Figure 5.3. -2



Source ComSearch Ecuti e Summary - Wind
 Power GeoPlanner Licen ed icro a e Searc
 Worst Case Fresnel Zone June 2 5



CAPE WIND ENERGY PROJECT
 Location of Worst Case Fresnel Zone - Close-up
 Figure 5.3. -3



Source 1 a GIS Town boundary Datalayer 2 2 2 a GIS Road/land Town boundary layer 1

CAPE WIND ENERGY PROJECT
Cumulative Impact Study Area
Figure .1-1

