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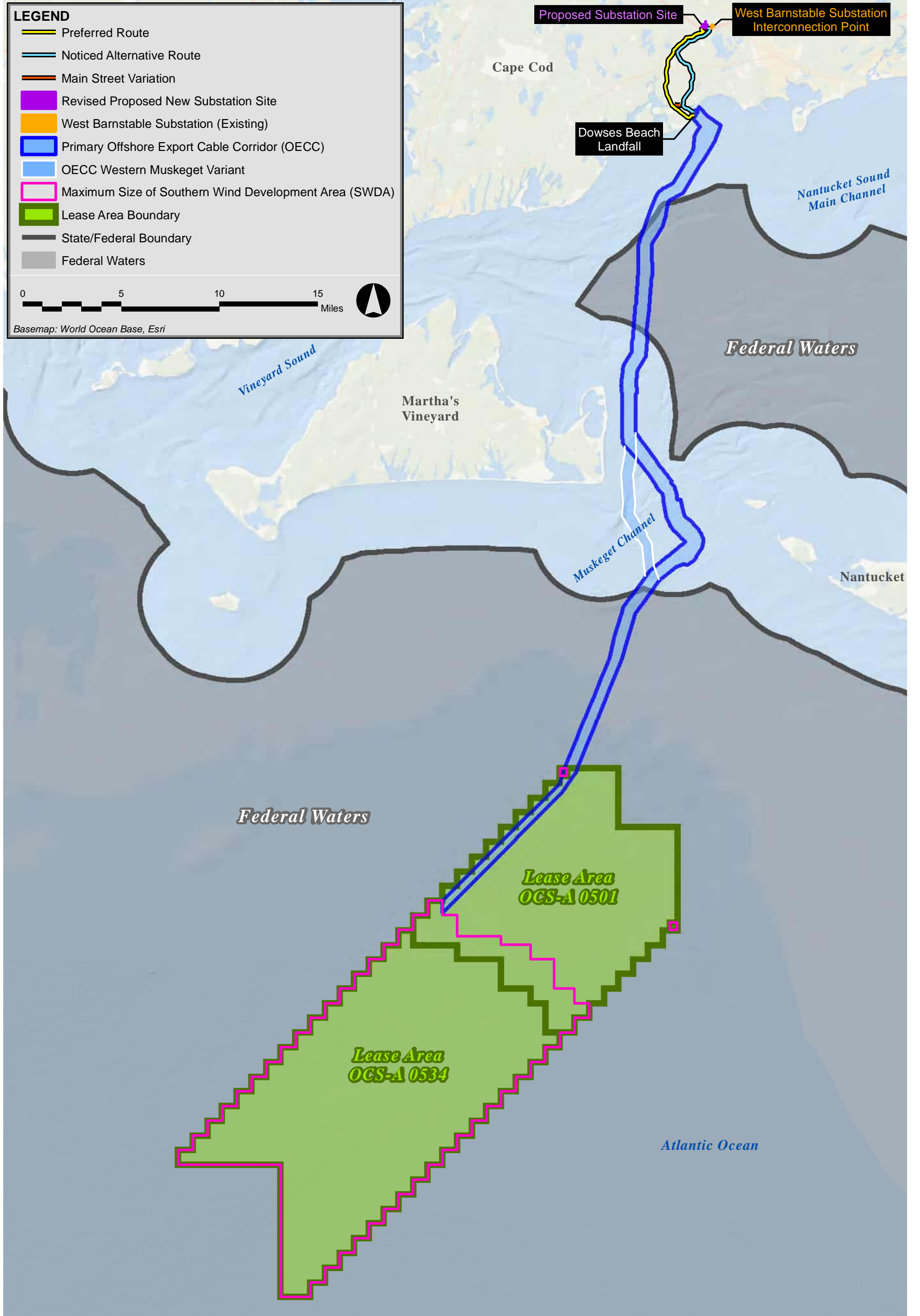
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Attachment A List of Figures (Continued)

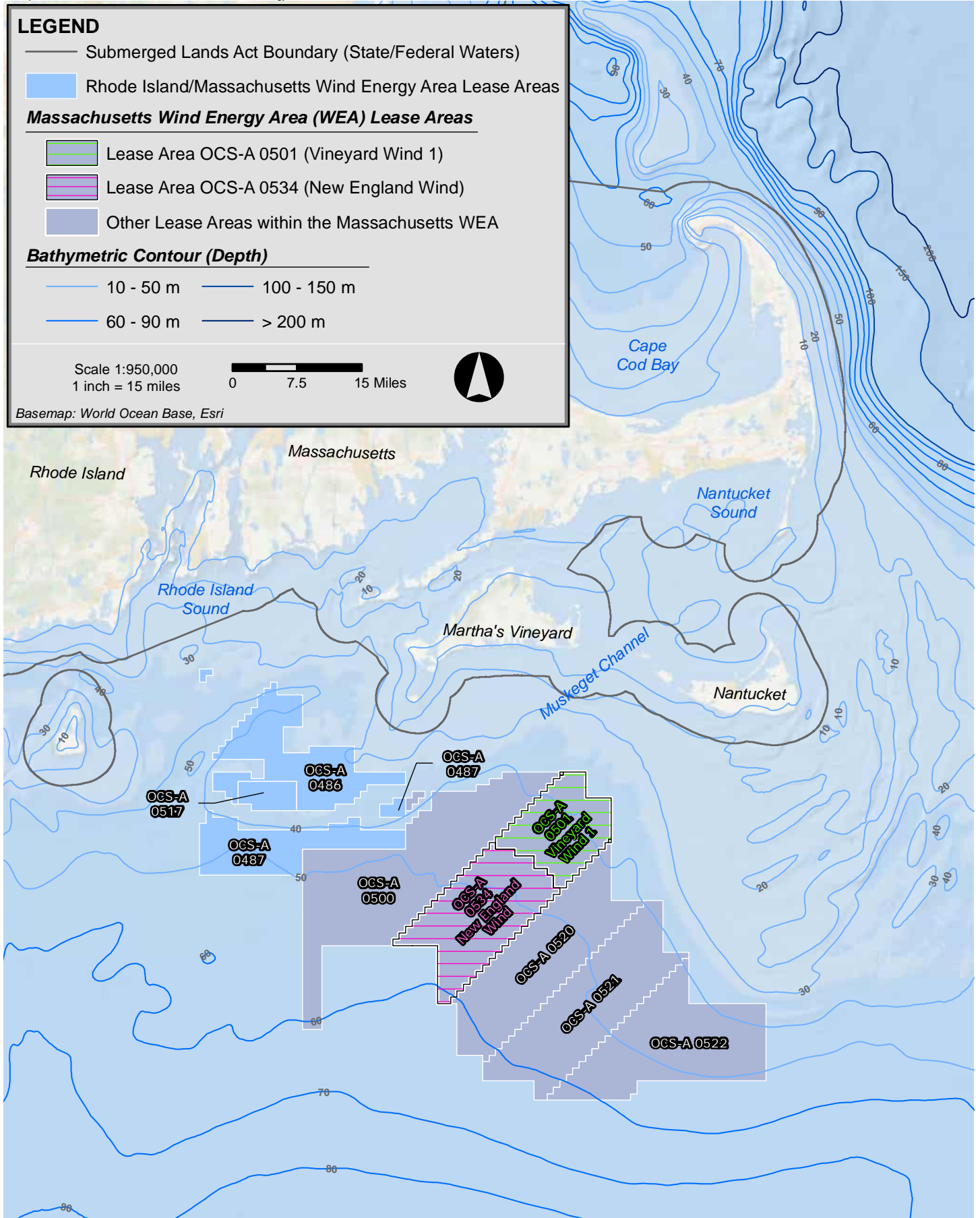
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Attachment A

Figures



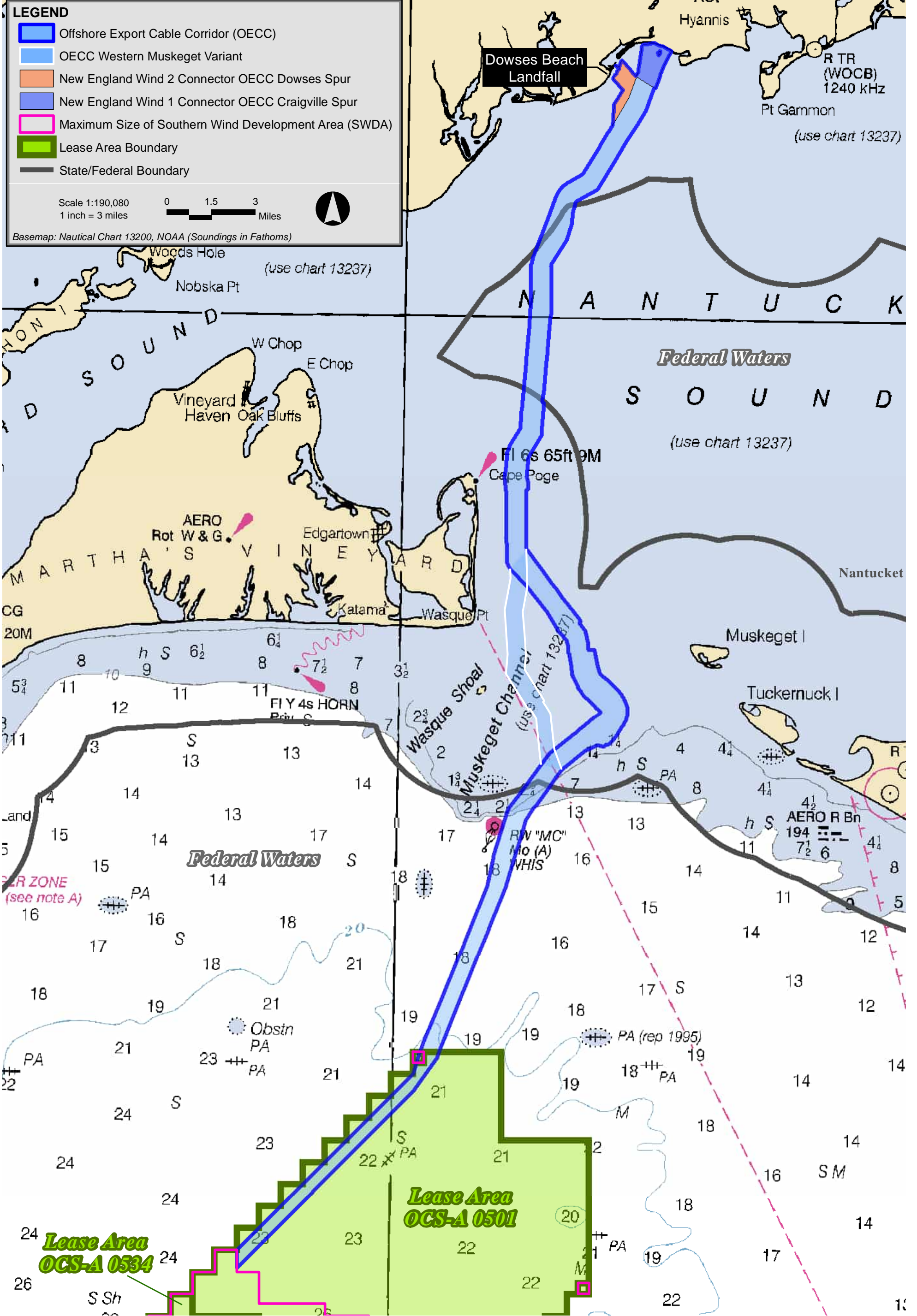
New England Wind 2 Connector Project



New England Wind 2 Connector Project



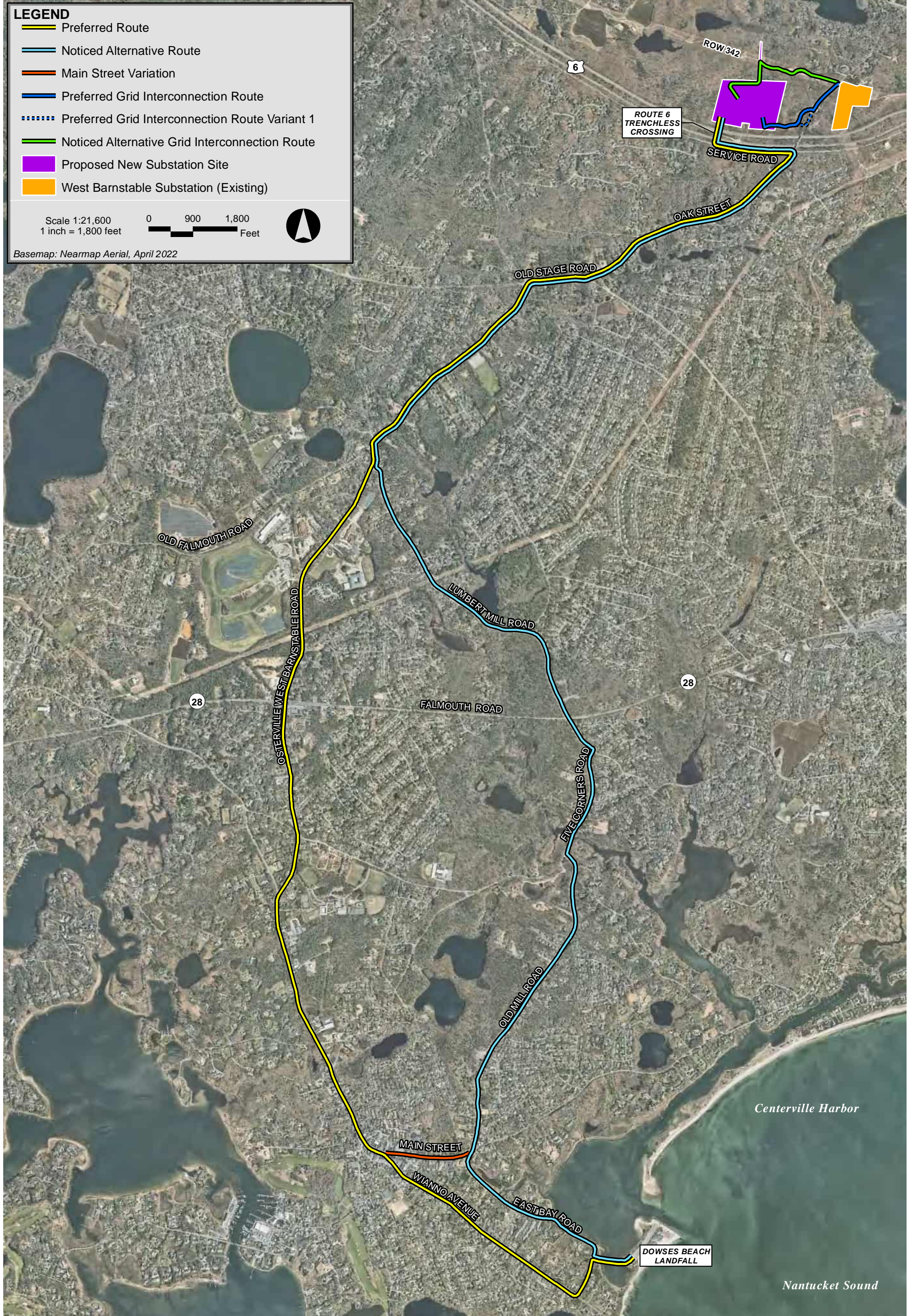
Figure 1-2
Massachusetts Wind Energy Area



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Figure 1-3
Offshore Export Cable Corridor (OECC)





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Design:

- | | | |
|-------------------------------|---------------------|----------------------|
| 1 Conductor (Al or Cu) | 5 Swellable tape | 9 Filler profiles |
| 2 Inner semi-conducting layer | 6 Lead sheath | 10 Bedding (PP) |
| 3 XLPE insulation | 7 PE oversheath | 11 Armouring |
| 4 Outer semi-conducting layer | 8 Fibre optic cable | 12 Outer sheath (PP) |

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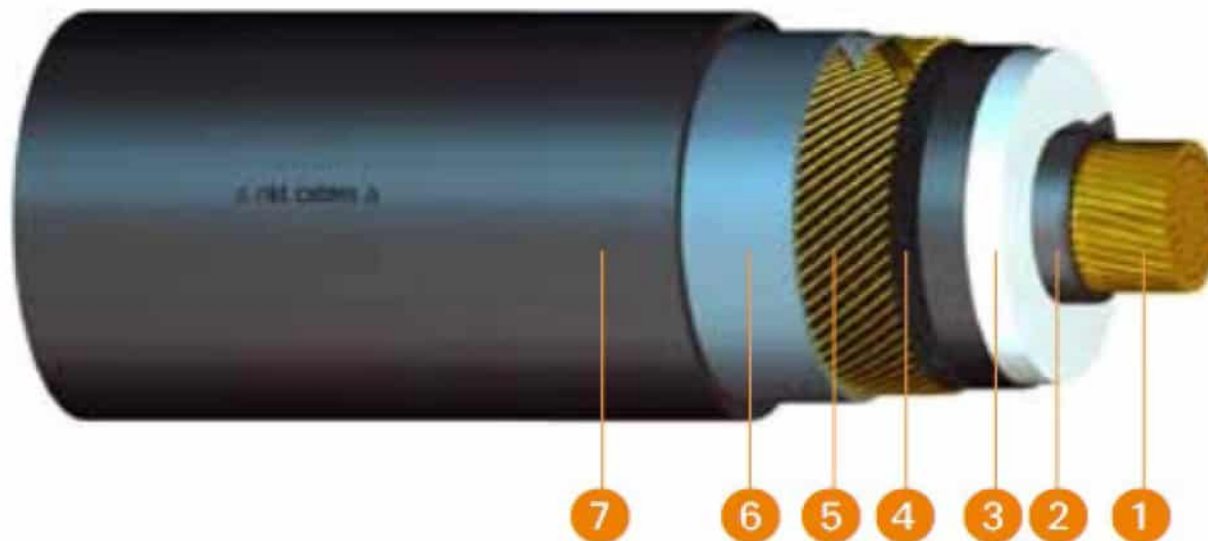
-  Preferred Transmission Route
-  Noticed Alternative Transmission Route

Scale 1:3,600 0 150 300
 1 inch = 300 feet  Feet 

Basemap: Nearmap Aerial, April 2022

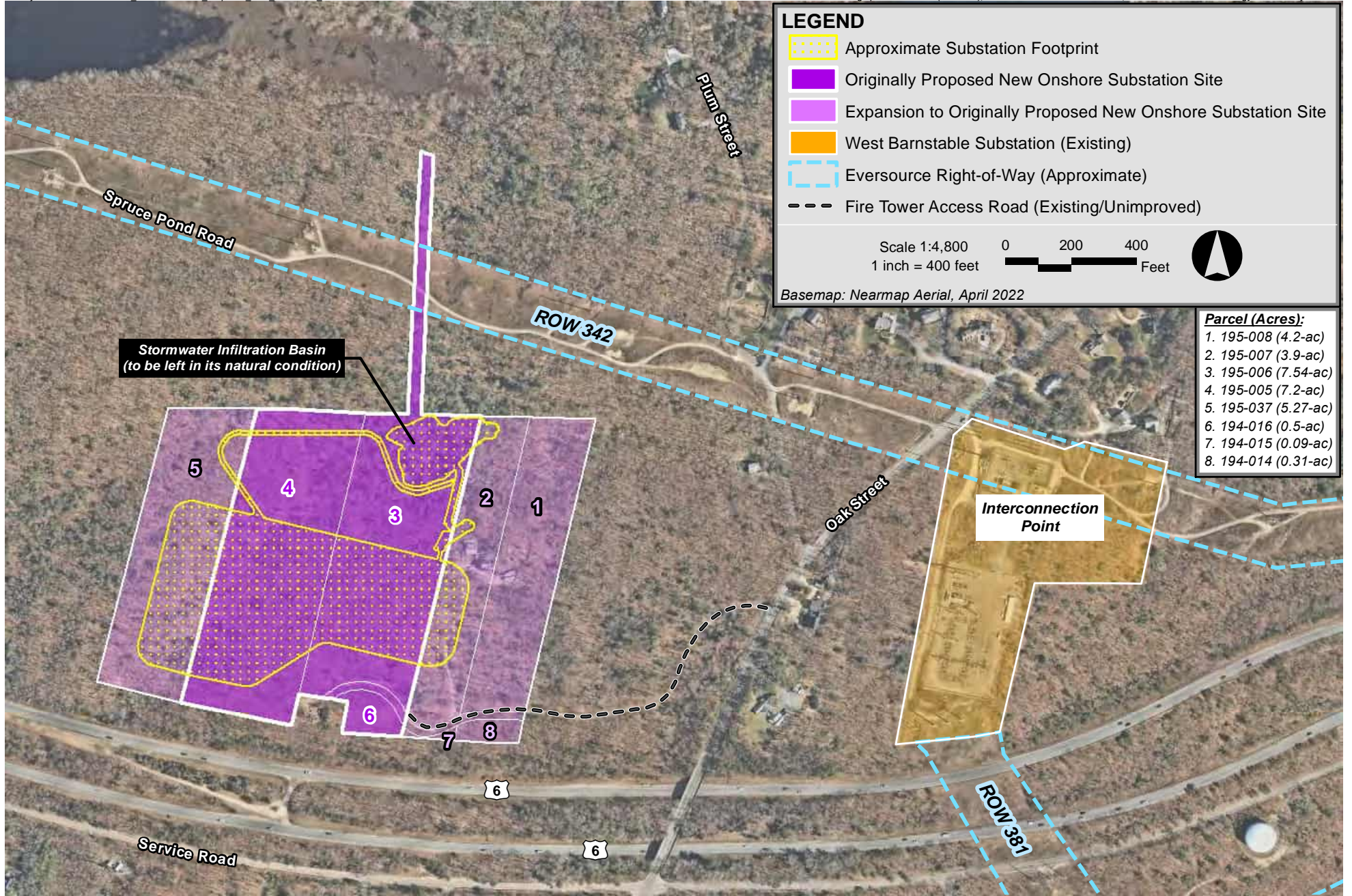


New England Wind 2 Connector Project

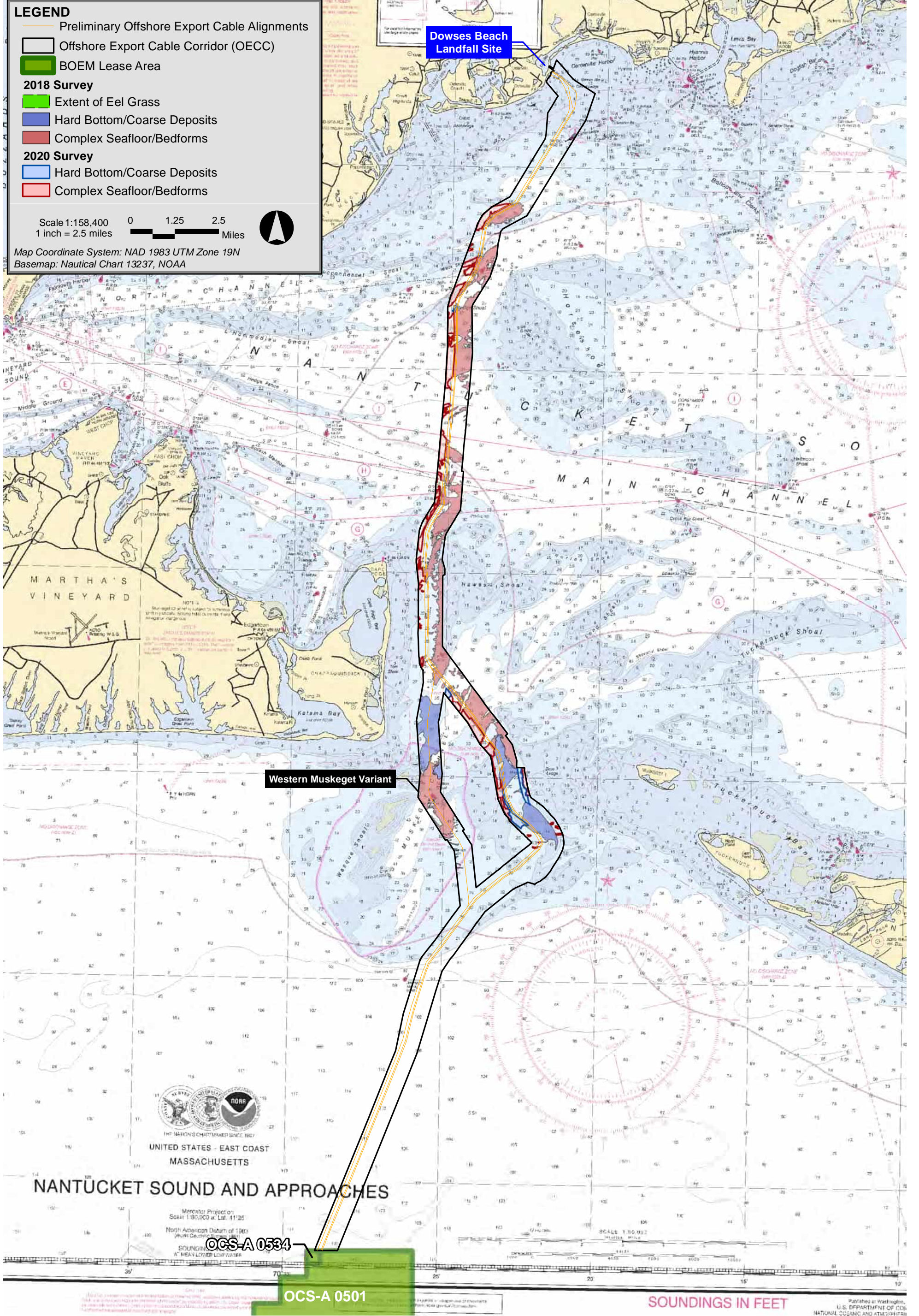


Design:

- | | | | |
|---|-----------------------------|---|------------------------|
| 1 | Conductor (Al or Cu) | 5 | Wire screen (Al or Cu) |
| 2 | Inner semi-conducting layer | 6 | Lead sheath |
| 3 | XLPE insulation | 7 | PE oversheath |
| 4 | Outer semi-conducting layer | | |



New England Wind 2 Connector Project

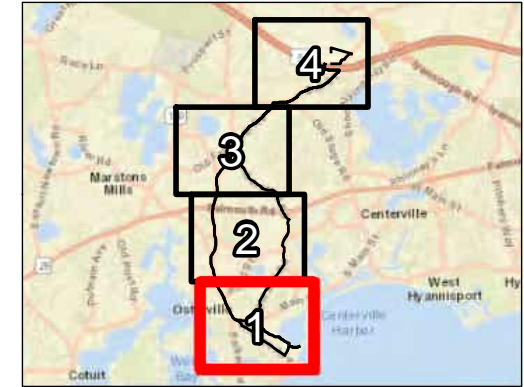




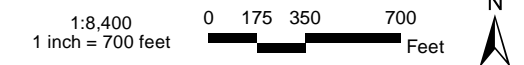
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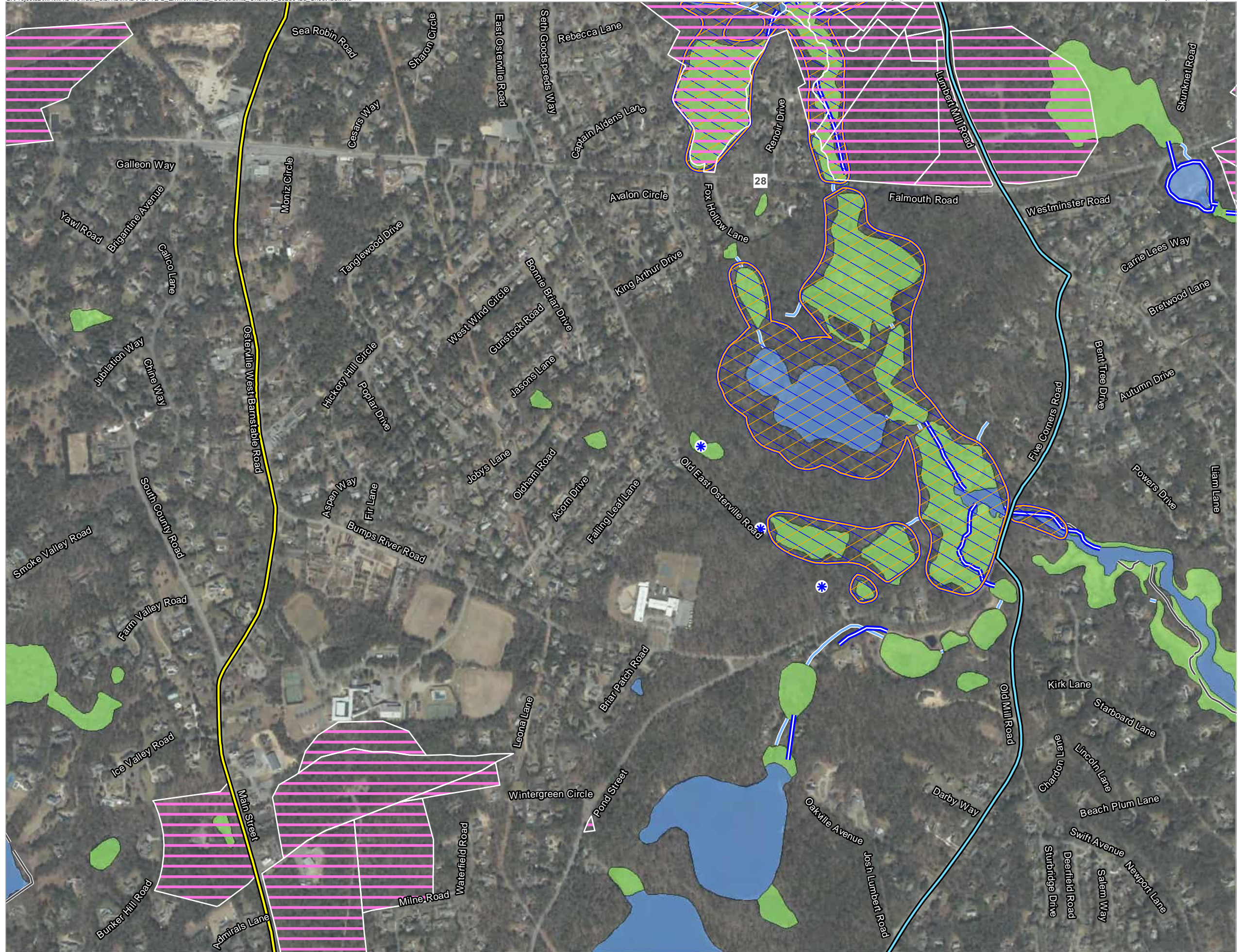


LEGEND

- Preferred Transmission Route
- Noticed Alternative Transmission Route
- Main Street Variation
- Preferred Grid Interconnection Route
- Preferred Grid Interconnection Route Variant 1
- Noticed Alternative Grid Interconnection Route
- Proposed New Substation Site
- West Barnstable Substation (Existing)
- Article 97 Land
- USGS Perennial Stream
- DEP Hydrologic Connection
- DEP Wetland
- DEP Open Water
- DEP Historic High Water Line
- NHESP Certified Vernal Pool
- NHESP Priority Habitat of Rare Species
- NHESP Estimated Habitat of Rare Wildlife

Figure 2-2

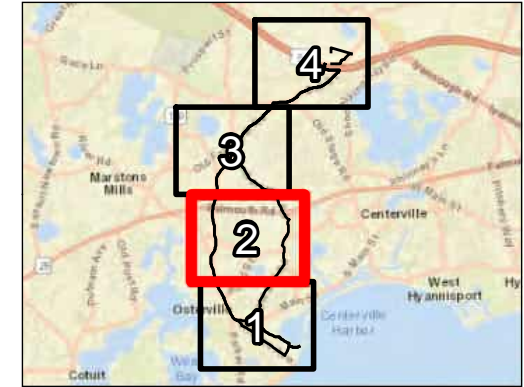
Environmental Constraints - Onshore Project Components



New England Wind 2 Connector Project



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LEGEND

- Preferred Transmission Route
- Noticed Alternative Transmission Route
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- Preferred Grid Interconnection Route
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Figure 2-2

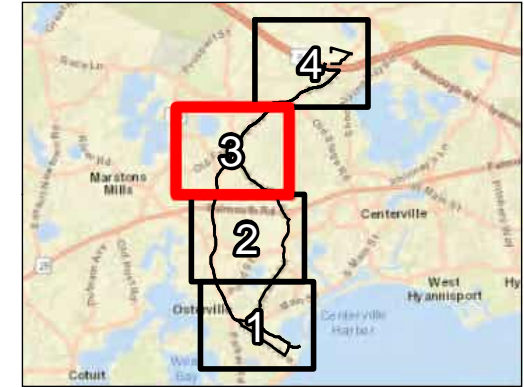
Environmental Constraints - Onshore Project Components



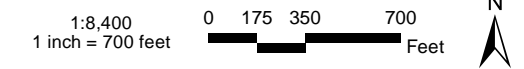
New England Wind 2 Connector Project



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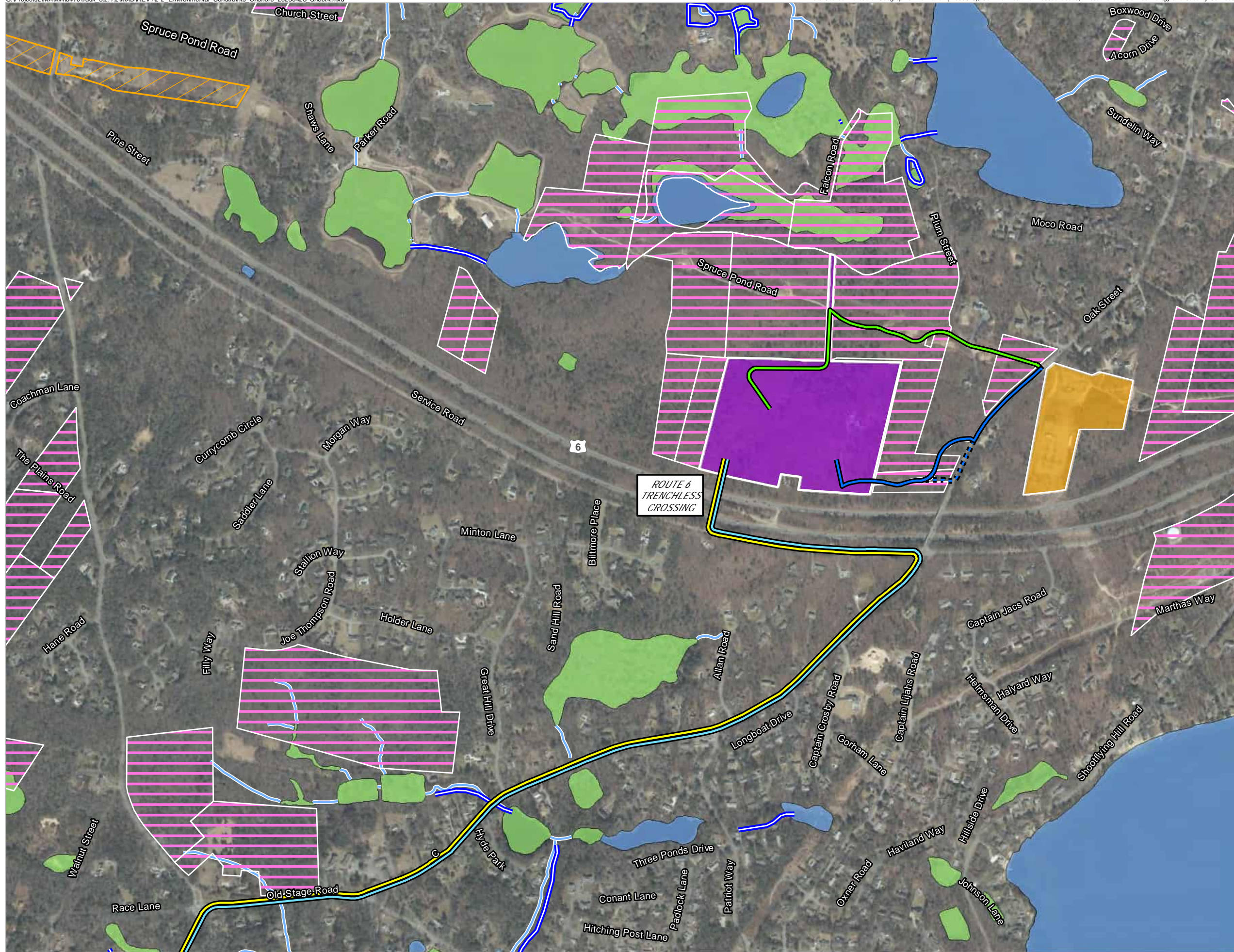


LEGEND

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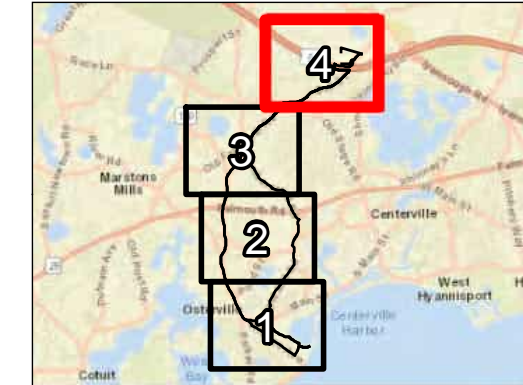
Environmental Constraints - Onshore Project Components



New England Wind 2 Connector Project



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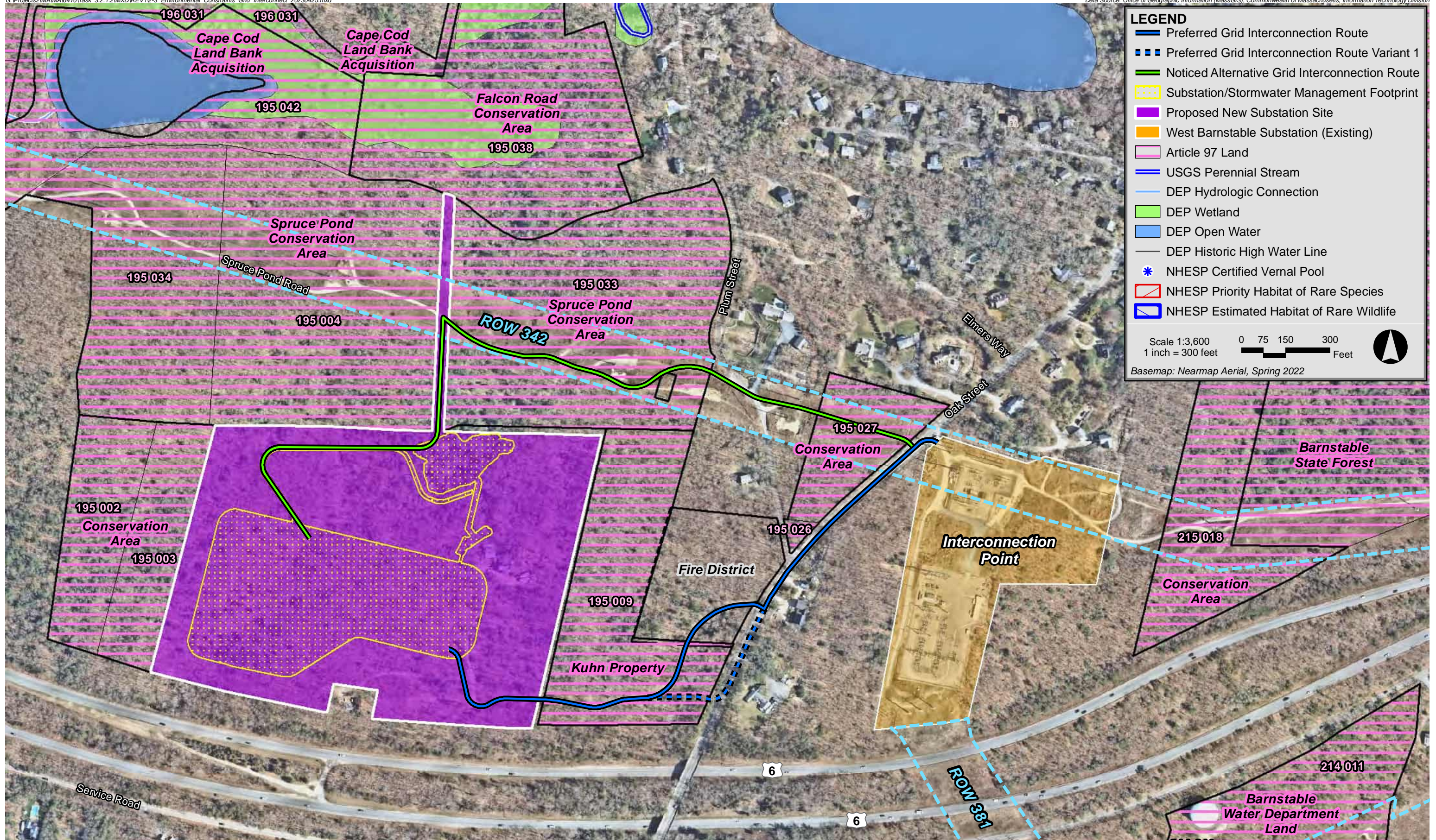


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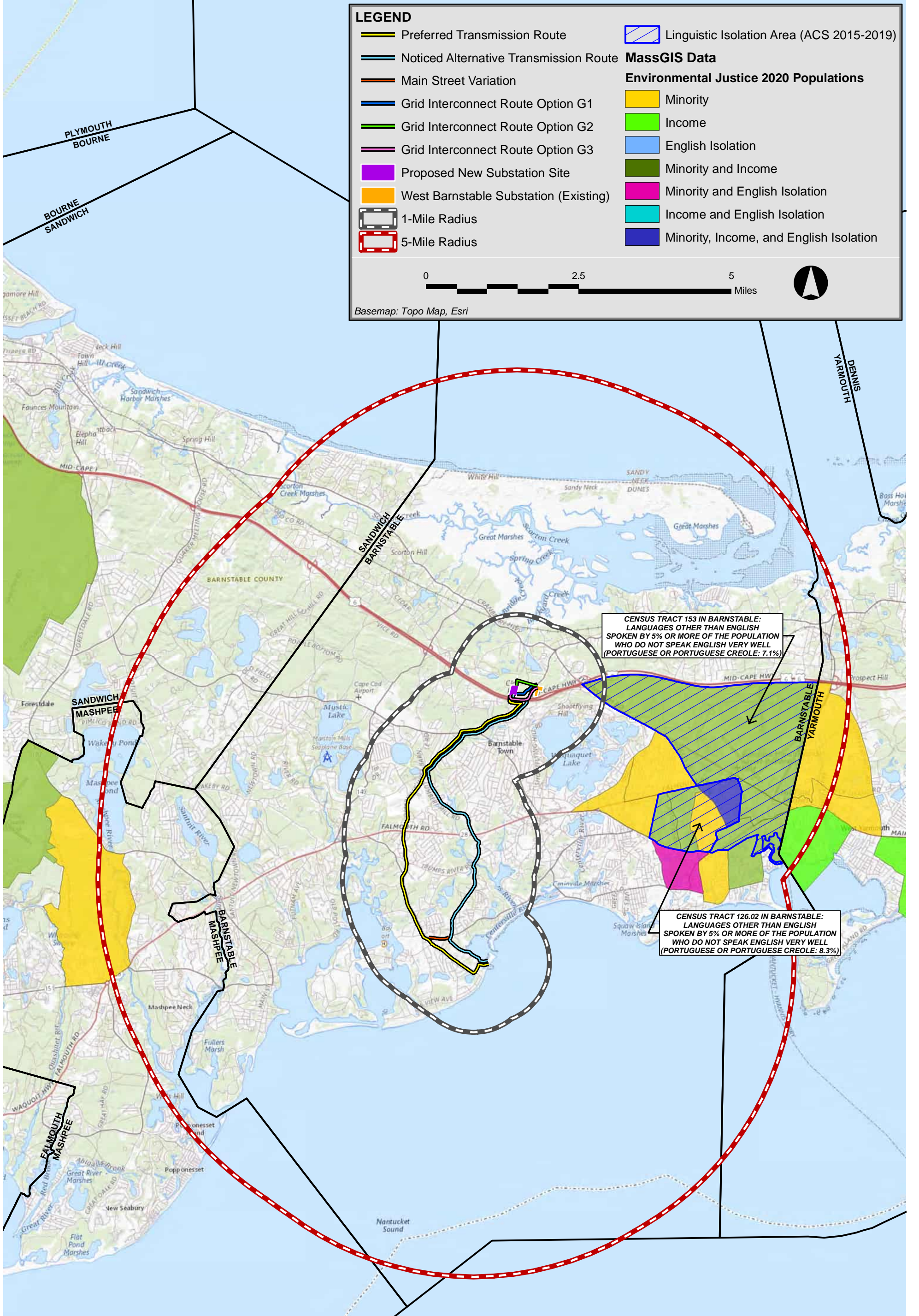
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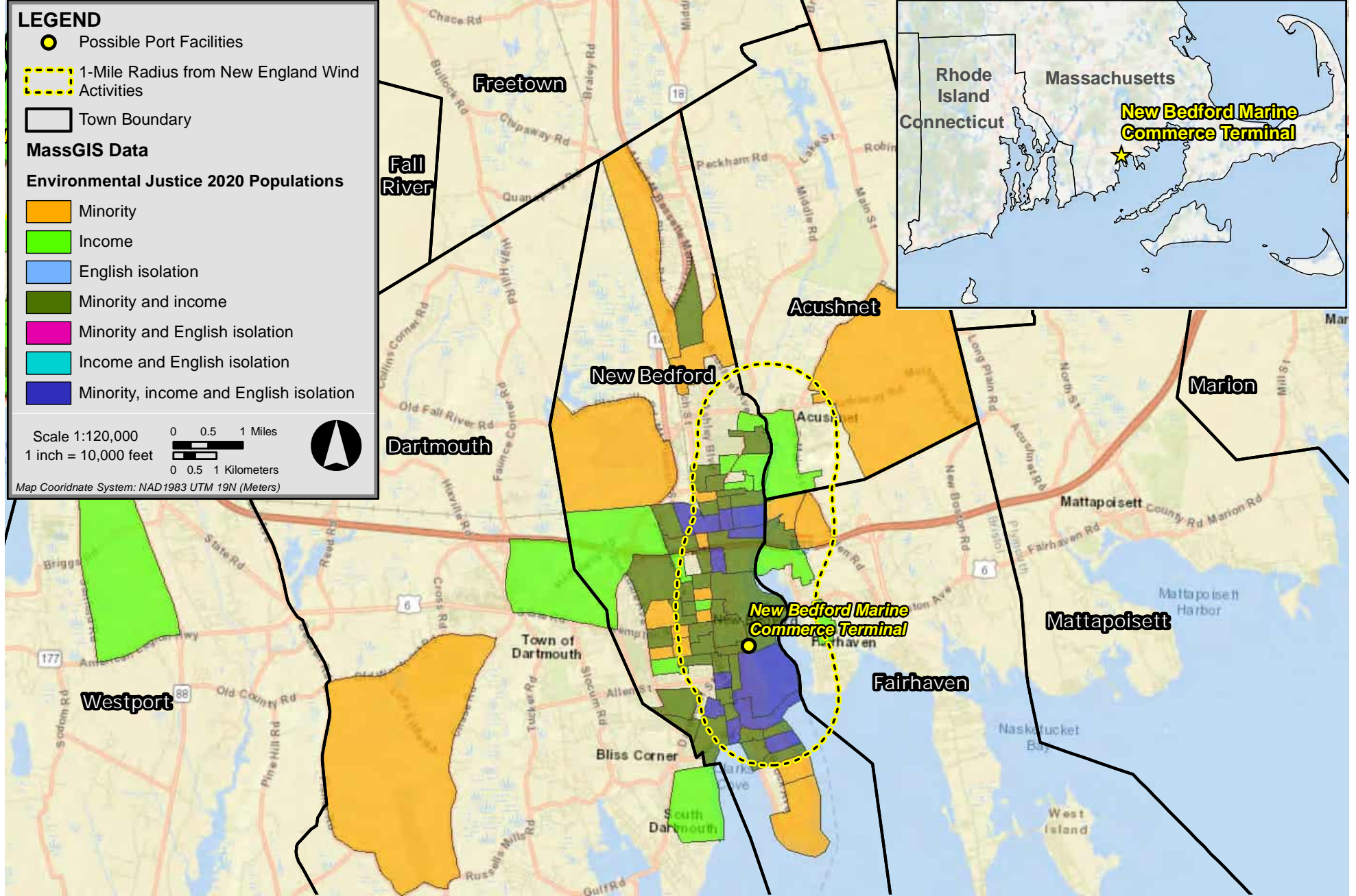
Figure 2-2

Environmental Constraints - Onshore Project Components

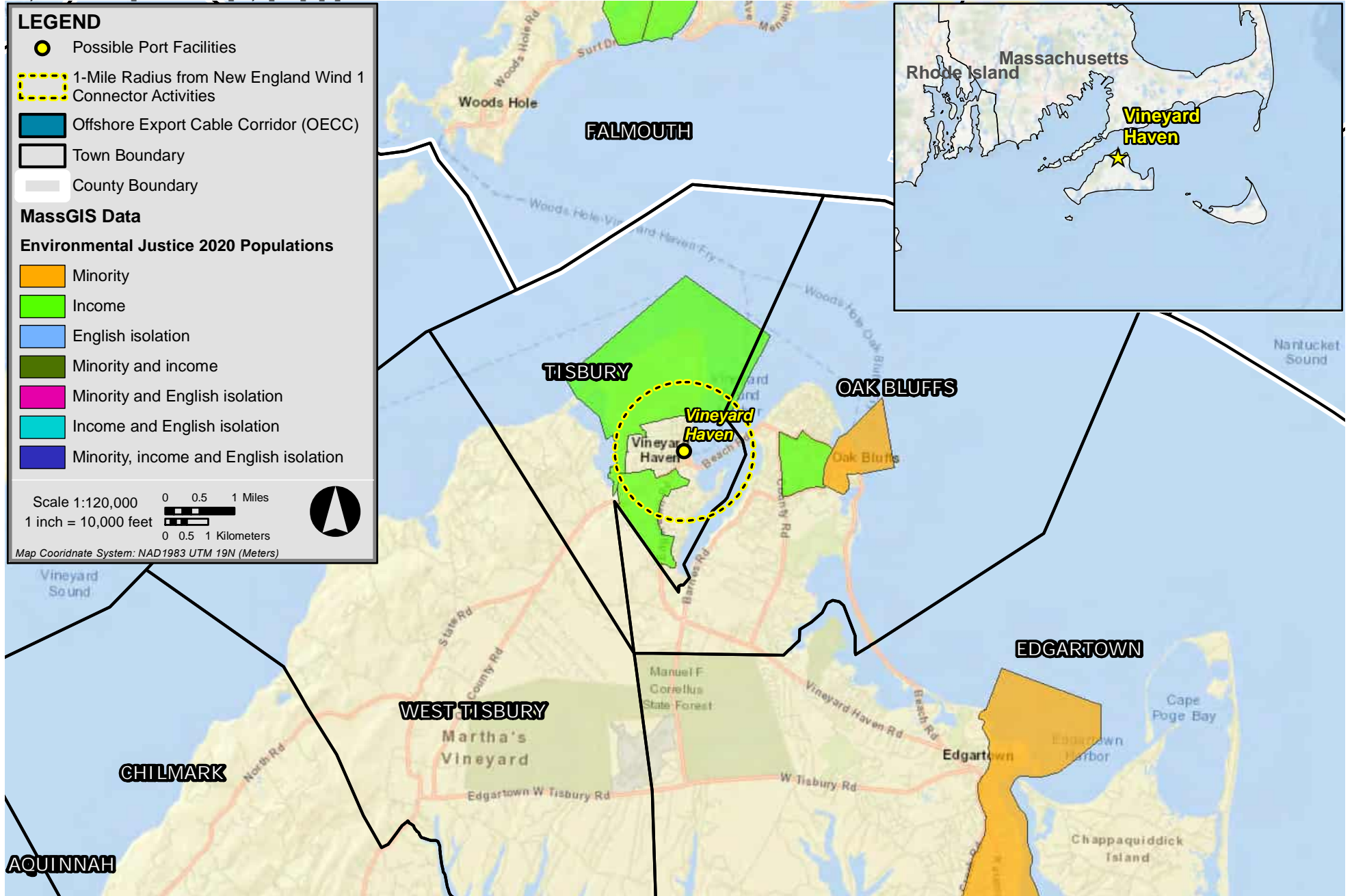


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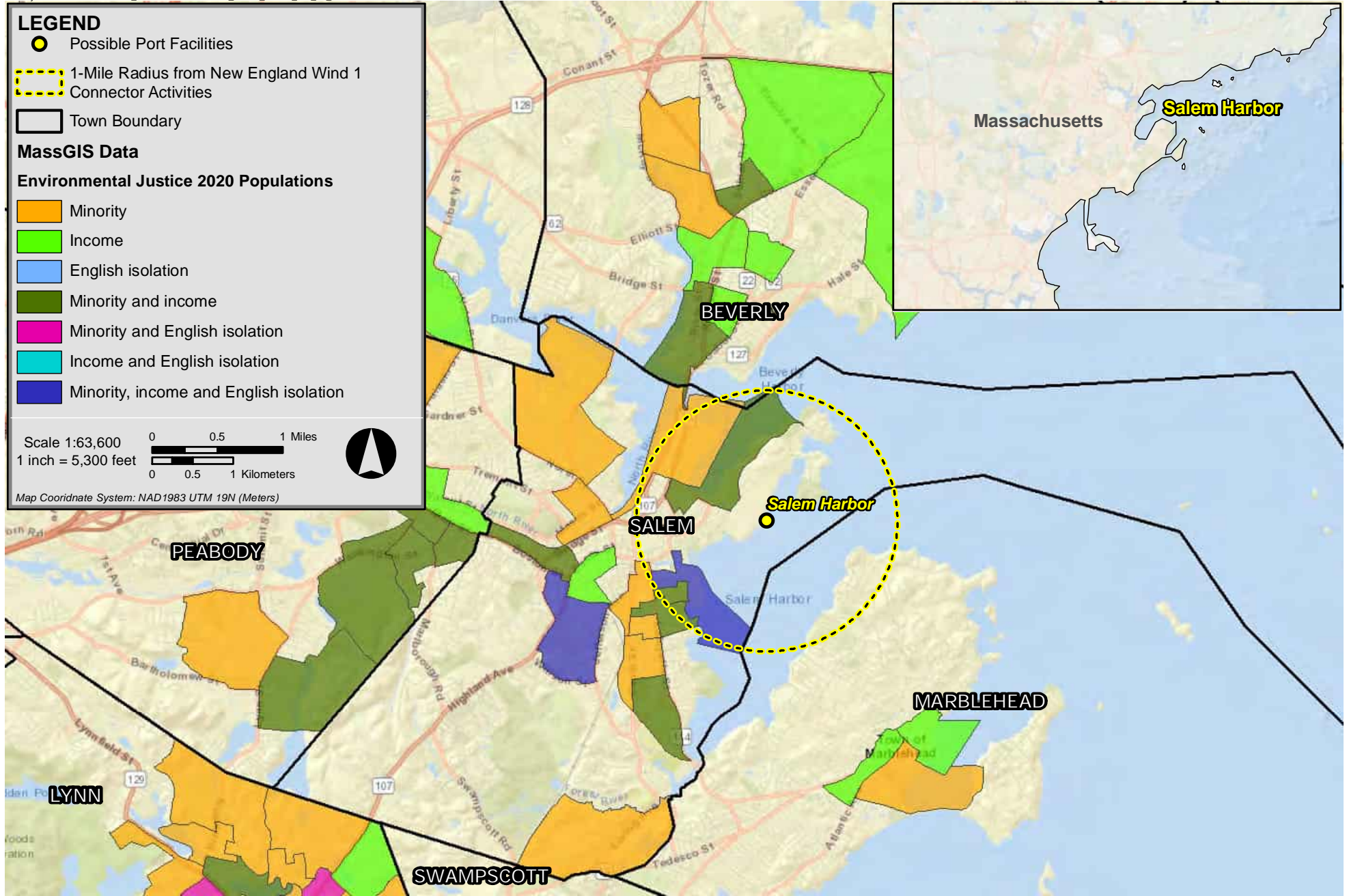


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Figure 3-3
State Criteria: EJ Communities in Study Area Around Possible Port Facilities
Vineyard Haven on Vineyard Haven Harbor - Martha's Vineyard, Dukes County, Massachusetts



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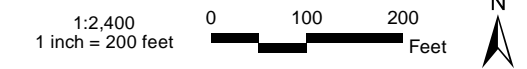
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LEGEND

- Preferred Transmission Route
- Noticed Alternative Transmission Route
- DEP Tidelands Jurisdiction Data**
 - Chapter 91 Jurisdiction
 - Marsh Boundary (Seaward)
 - Contemporary High Water



Figure 3-5

Chapter 91 Jurisdiction



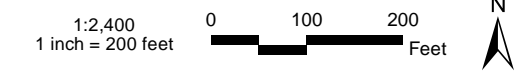
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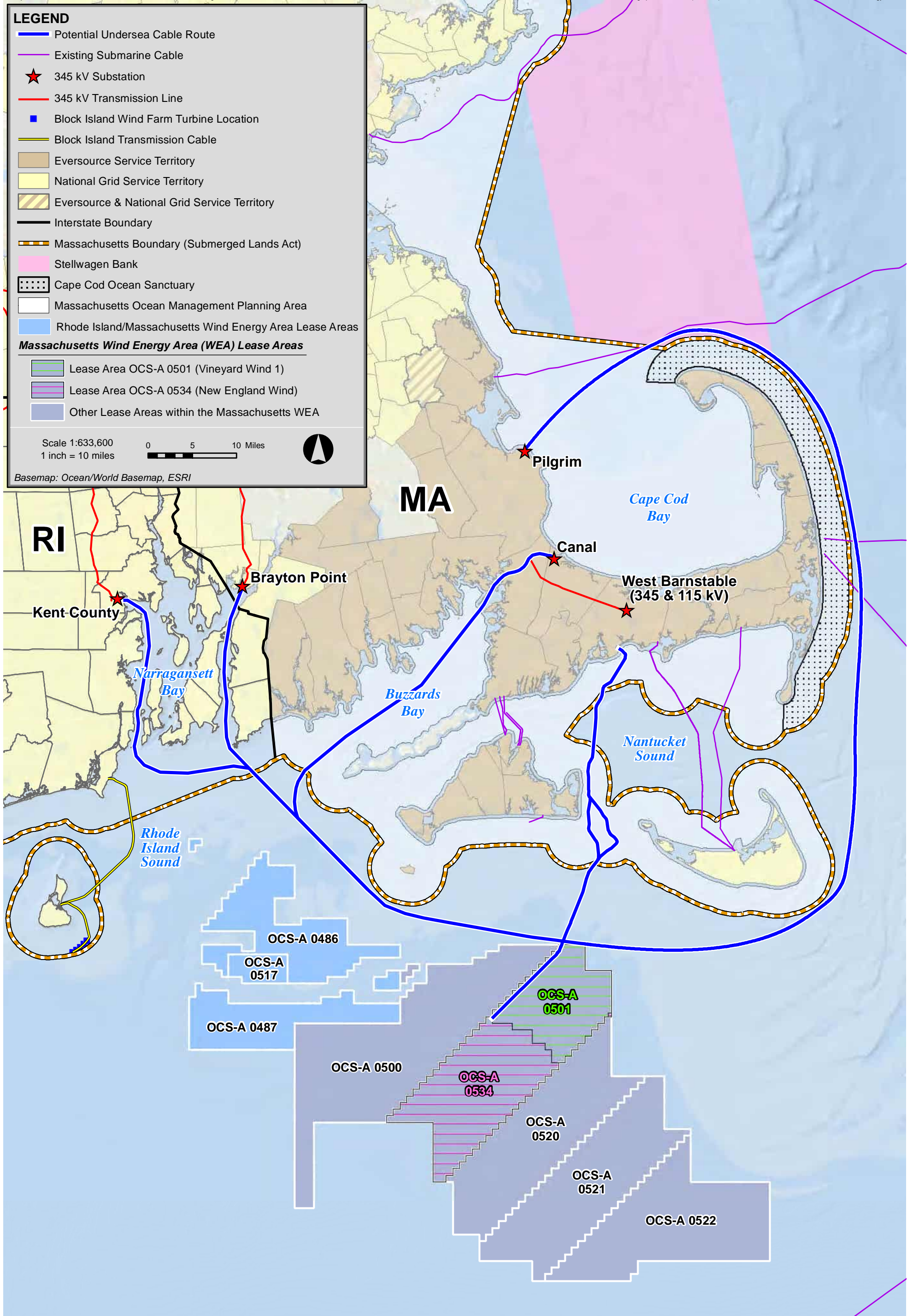


LEGEND

- Preferred Transmission Route
- Noticed Alternative Transmission Route
- DEP Tidelands Jurisdiction Data**
- Chapter 91 Jurisdiction
- Marsh Boundary (Seaward)
- Contemporary High Water

Figure 3-5

Chapter 91 Jurisdiction



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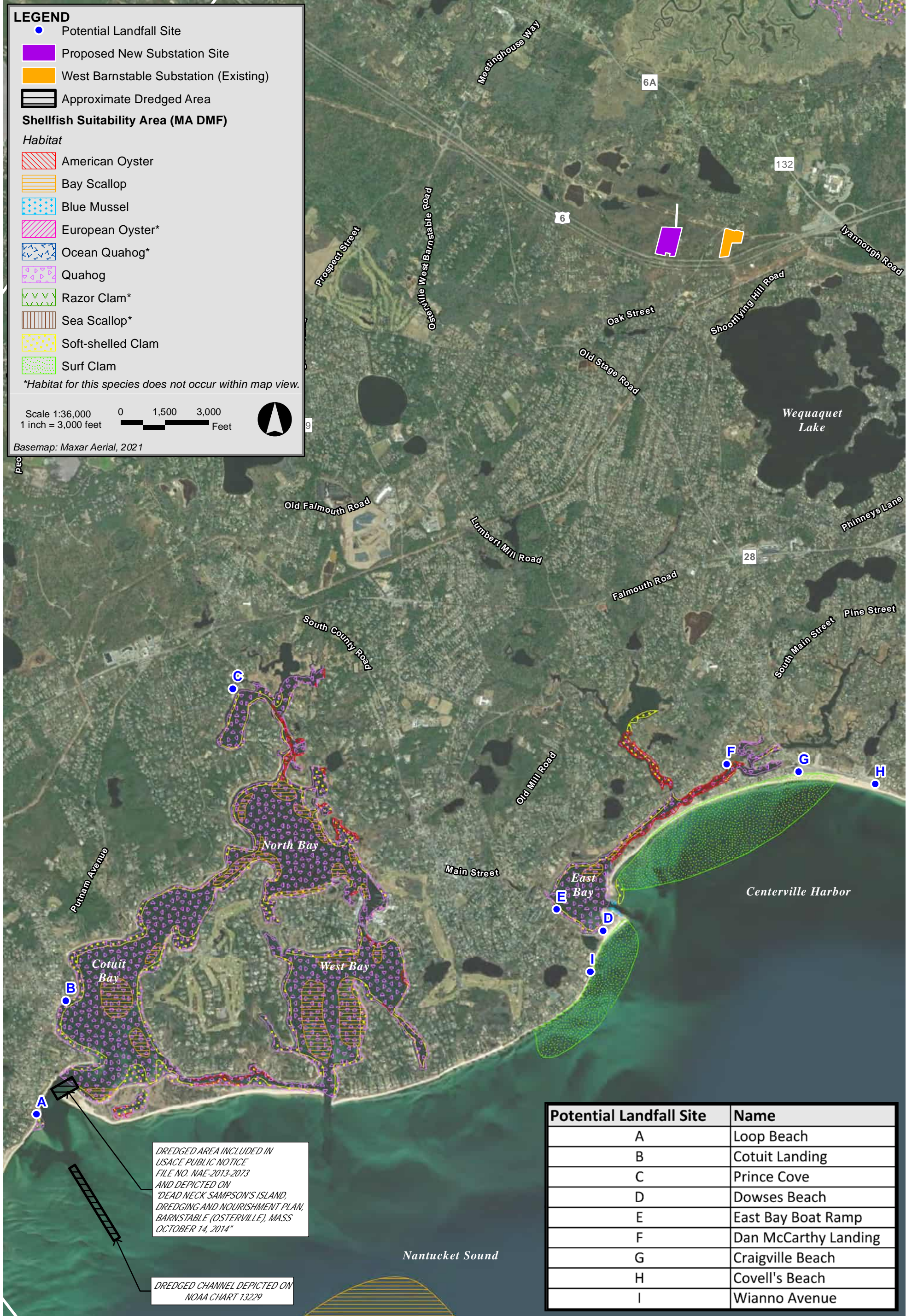
Figure 4-1
Point of Interconnection Routing Study Area



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Figure 4-2
Initial Landfall Site Screening



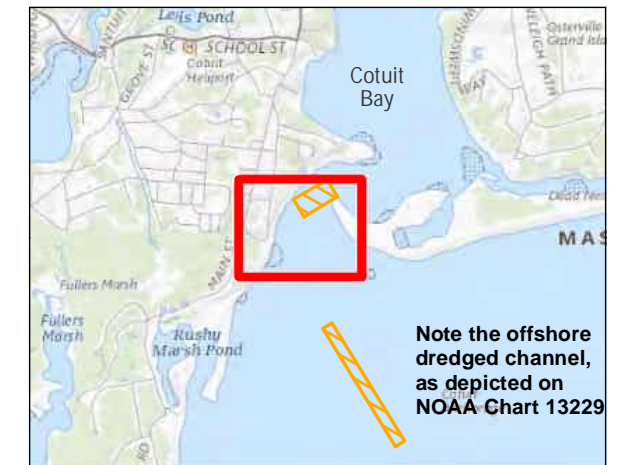
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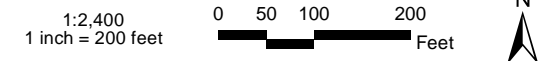
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LEGEND

- Approximate Dredged Area

Figure 4-4
Loop Beach



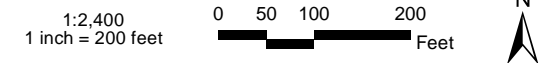
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LEGEND

Shellfish Suitability Area (MA DMF)

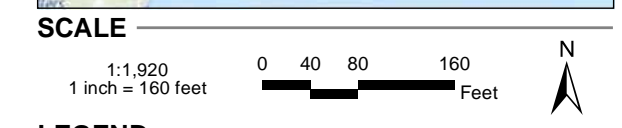
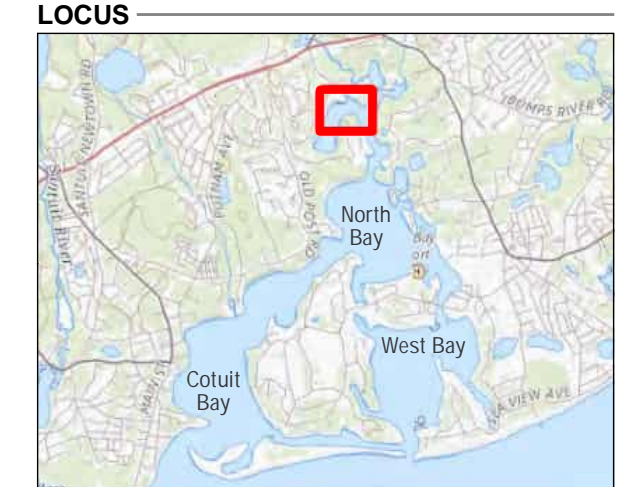
Habitat

- Bay Scallop
- Quahog
- Soft-shelled Clam

Figure 4-5
Cotuit Landing



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LEGEND

Shellfish Suitability Area (MA DMF)

Habitat

	American Oyster
	Quahog
	Soft-shelled Clam

Figure 4-6
Prince Cove Marina

New England Wind 2 Connector Project

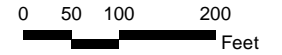


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1:2,400
1 inch = 200 feet



LEGEND

Shellfish Suitability Area (MA DMF)

Habitat

- Blue Mussel
- Quahog
- Soft-shelled Clam
- Surf Clam



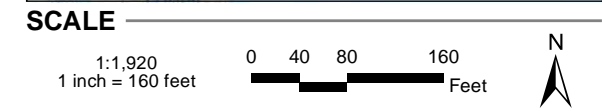
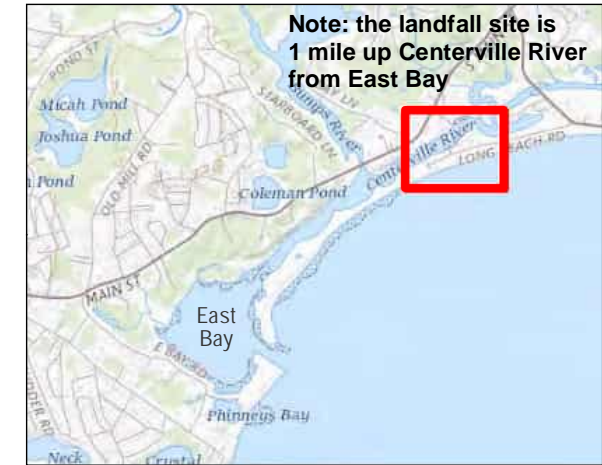
Figure 4-7
East Bay Ramp



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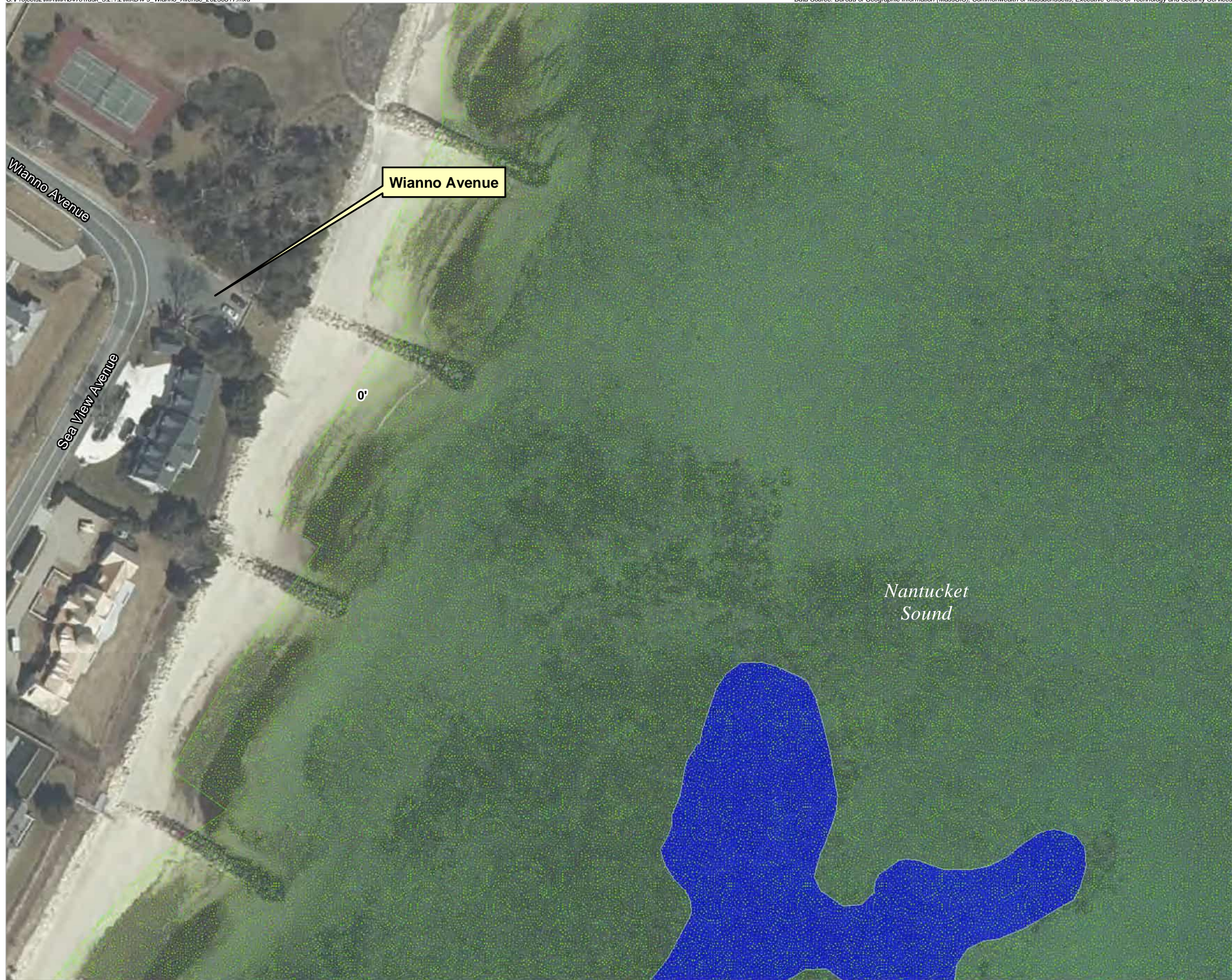
LEGEND

Shellfish Suitability Area (MA DMF)

Habitat

	American Oyster
	Quahog
	Soft-shelled Clam
	Surf Clam

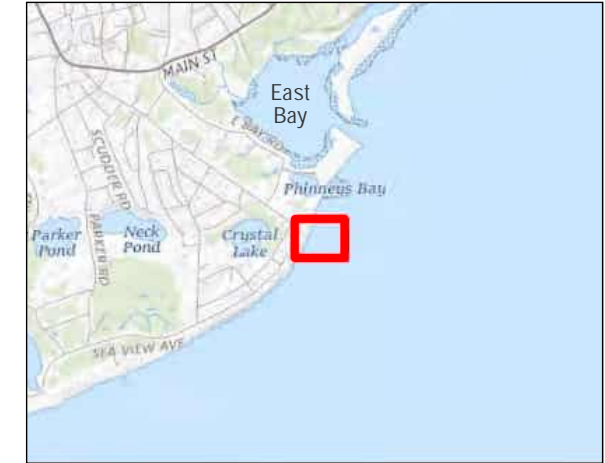
Figure 4-8
McCarthy's Landing



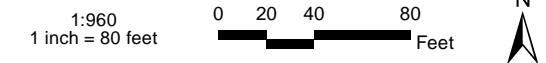
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LEGEND

Shellfish Suitability Area (MA DMF)

Habitat

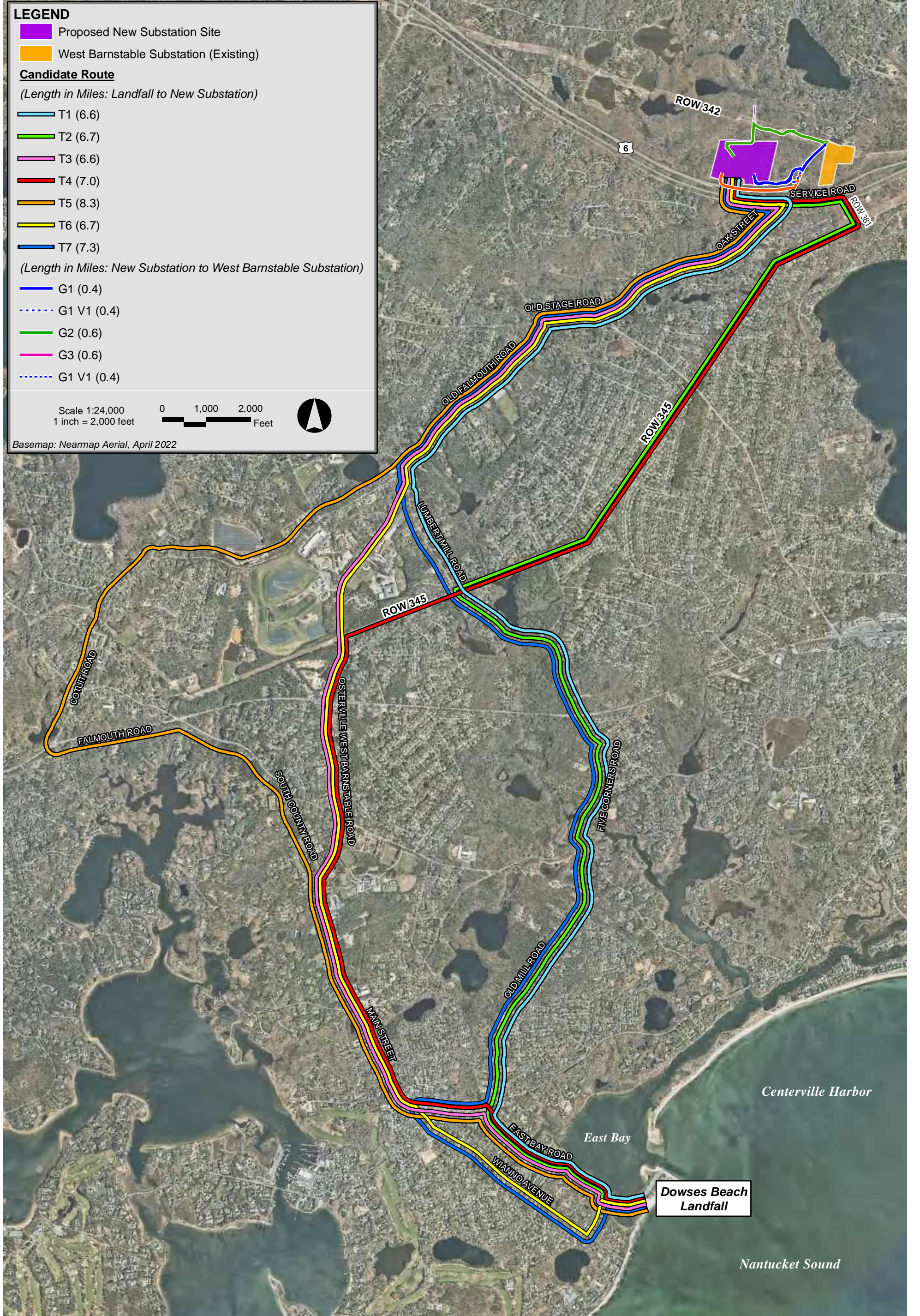
Surf Clam

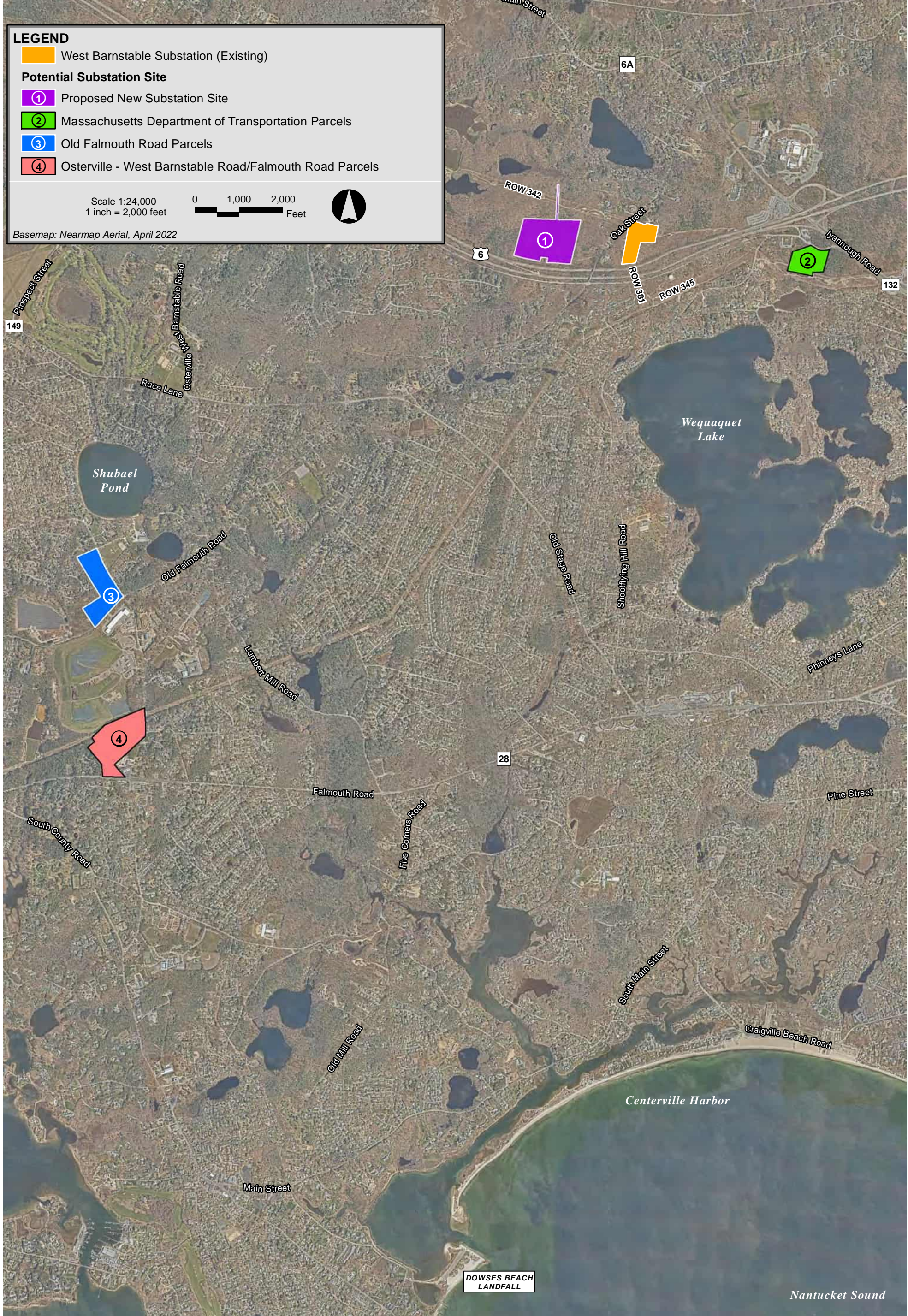
DEP Seagrass (2019-2022)

Eelgrass

Figure 4-9

Wianno Avenue





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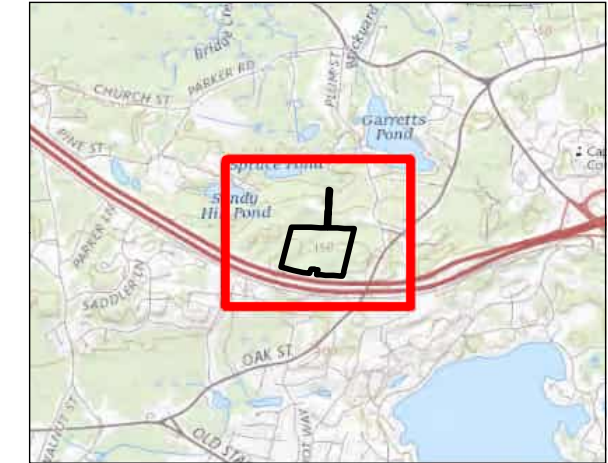
Figure 4-11
Potential Substation Sites



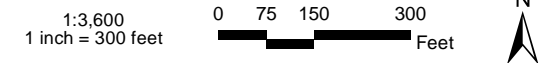
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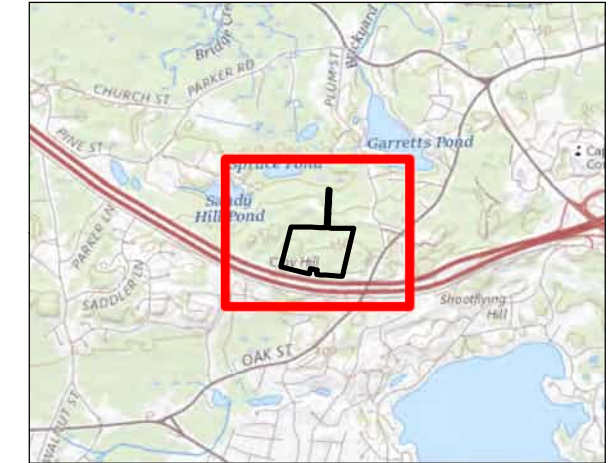
- Clay Hill Parcels
- Tax Parcel Boundary
- Article 97 Land
- 100-ft Buffer Zone
- 200-ft Riverfront Area
- USGS Perennial Stream
- DEP Hydrologic Connection
- DEP Wetland
- DEP Open Water
- DEP Historic High Water Line
- * NHESP Certified Vernal Pool
- NHESP Priority Habitat of Rare Species
- NHESP Estimated Habitat of Rare Wildlife

Figure 4-12
Environmental Constraints,
Clay Hill Parcels
(Proposed Substation Site)

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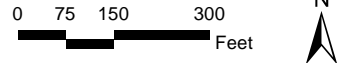


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1:3,600
1 inch = 300 feet



LEGEND

- Clay Hill Parcels
- Public Water Supply Well
- Wellhead Protection Area Zone I
- Wellhead Protection Area Zone II
- Barnstable Wellhead Protection Overlay District
- Barnstable Groundwater Protection Overlay District
- Potential Public Water Supply Area (CCC)
- Freshwater Recharge Area (CCC)

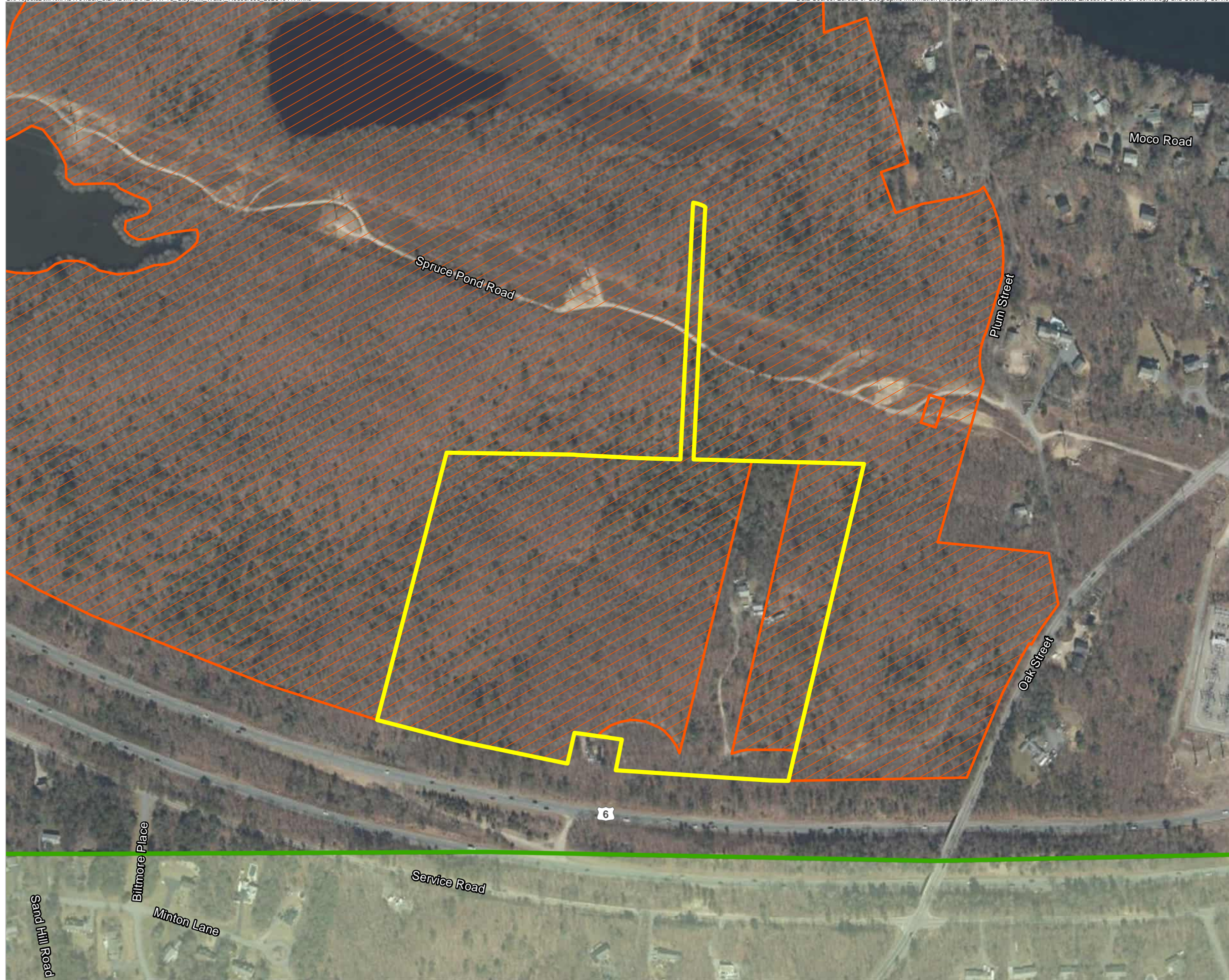
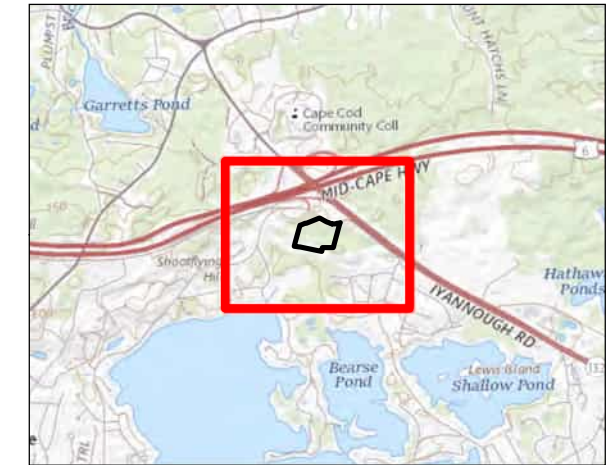


Figure 4-13
Water Supply Resources,
Clay Hill Parcels
(Proposed Substation Site)

New England Wind 2 Connector Project



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SCALE

1:3,600
1 inch = 300 feet



LEGEND

- MassDOT Parcels
- Article 97 Land
- 100-ft Buffer Zone
- 200-ft Riverfront Area
- USGS Perennial Stream
- DEP Hydrologic Connection
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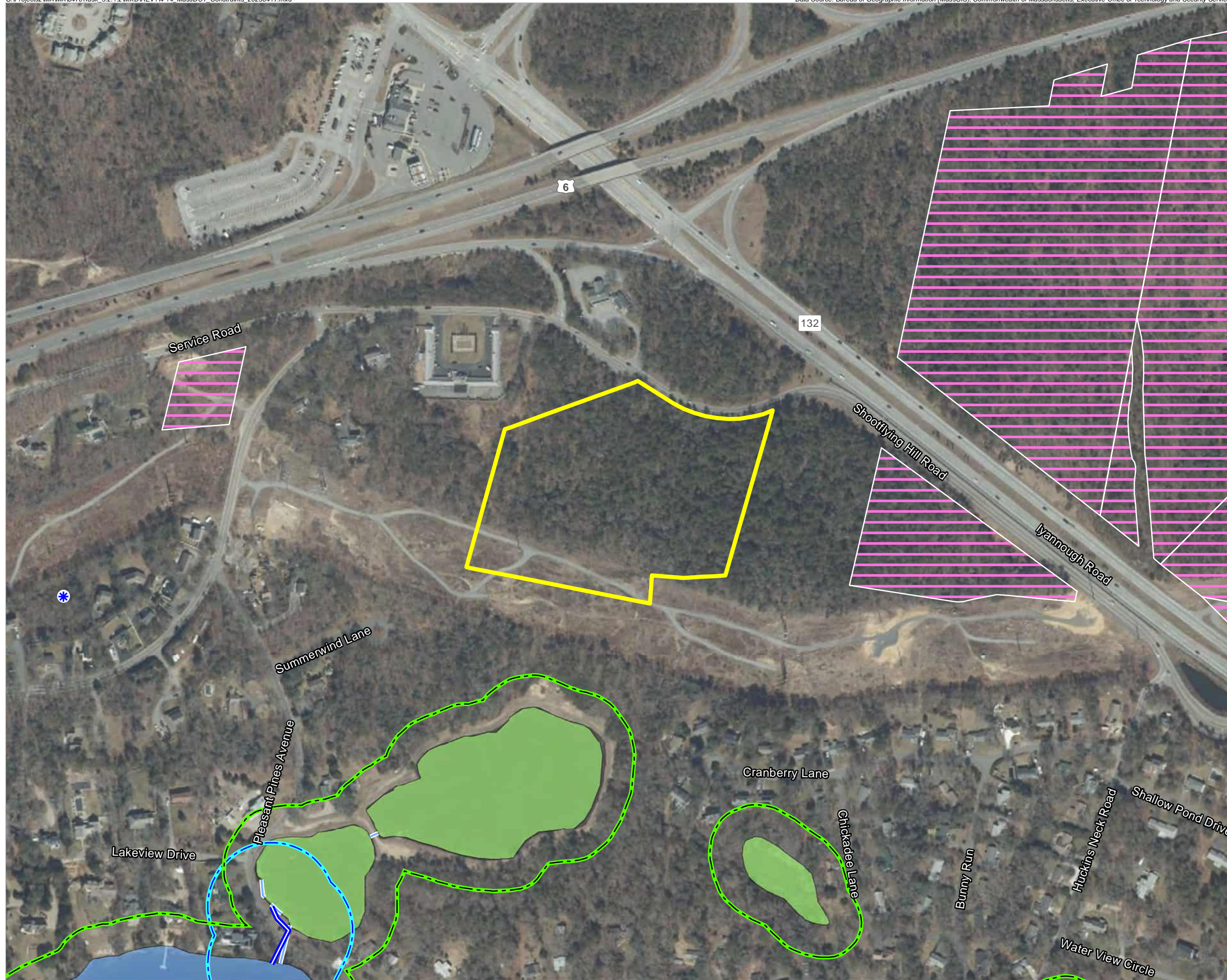
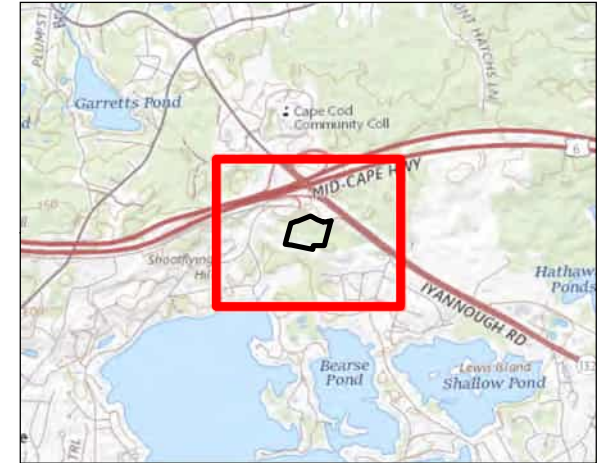


Figure 4-14
Environmental Constraints,
MassDOT Parcels

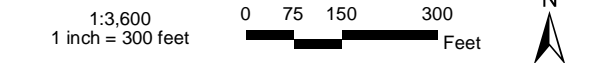
New England Wind 2 Connector Project



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LEGEND

- MassDOT Parcels
- Public Water Supply Well
- Wellhead Protection Area Zone I
- Wellhead Protection Area Zone II
- Barnstable Wellhead Protection Overlay District
- Barnstable Groundwater Protection Overlay District
- Potential Public Water Supply Area (CCC)
- Freshwater Recharge Area (CCC)

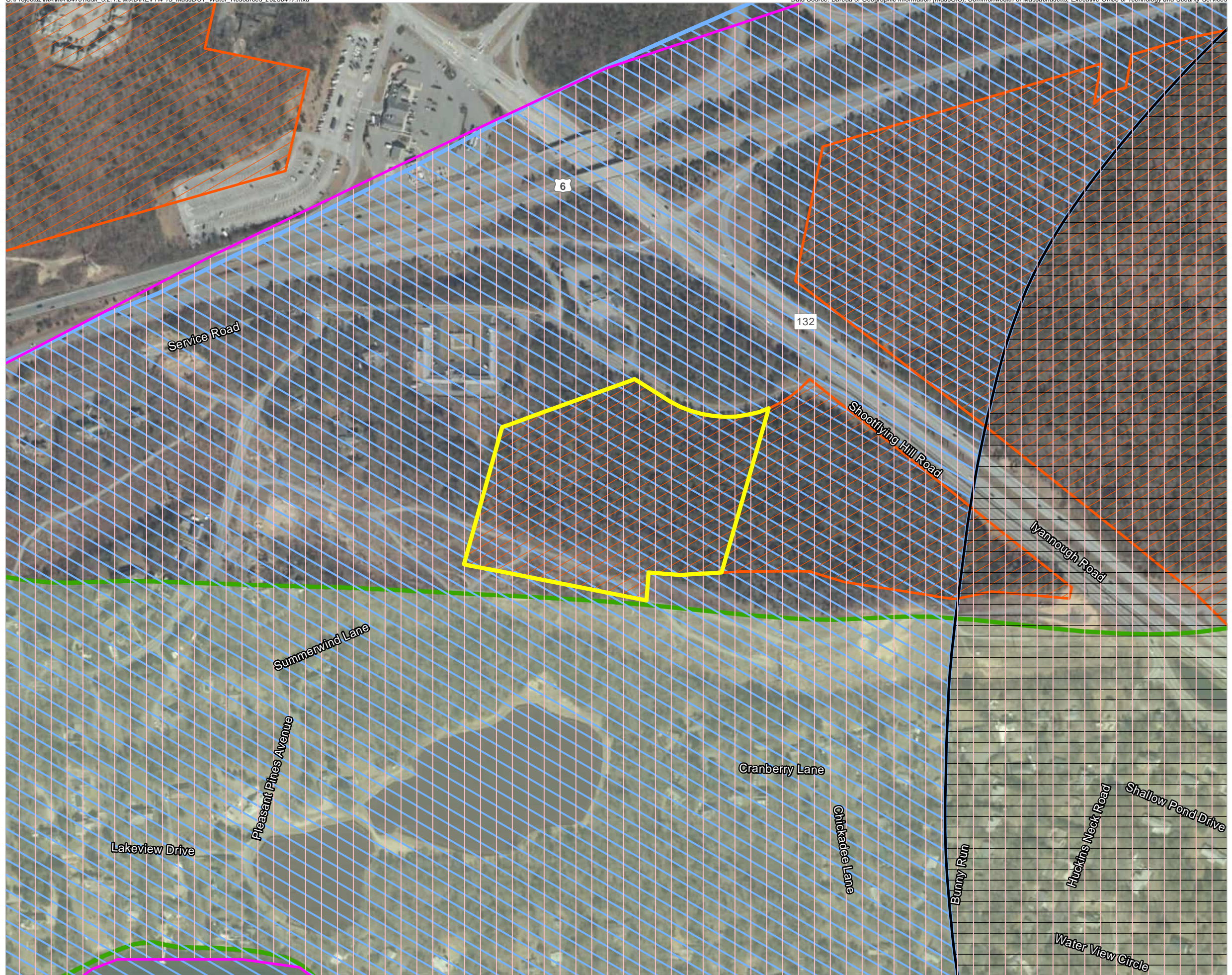


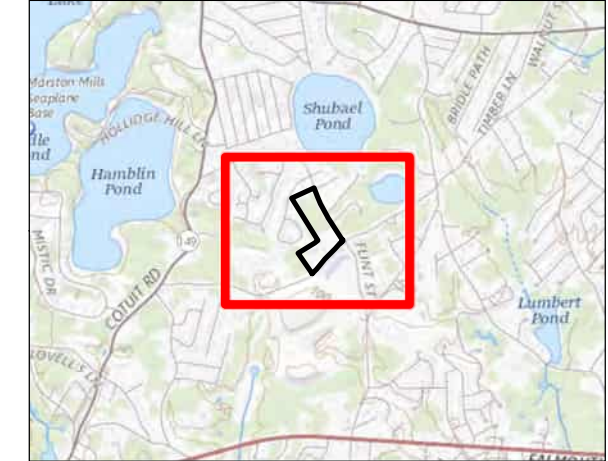
Figure 4-15
Water Supply Resources,
MassDOT Parcels



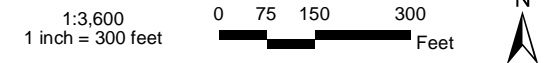
New England Wind 2 Connector Project



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LEGEND

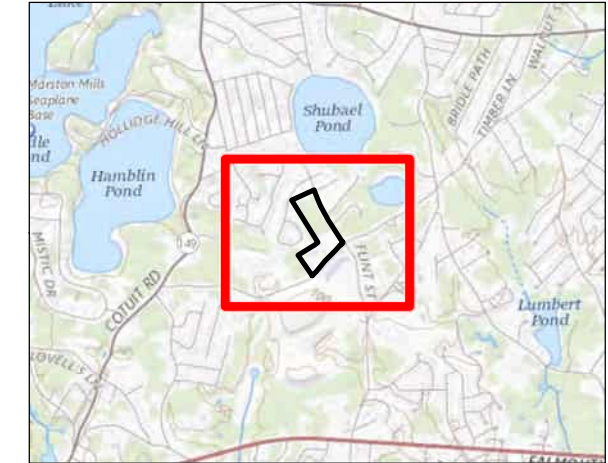
- Old Falmouth Road Parcels
- Article 97 Land
- 100-ft Buffer Zone
- 200-ft Riverfront Area
- USGS Perennial Stream
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Figure 4-16
Environmental Constraints,
Old Falmouth Road Parcels

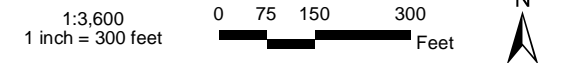
New England Wind 2 Connector Project



LOCUS



SCALE



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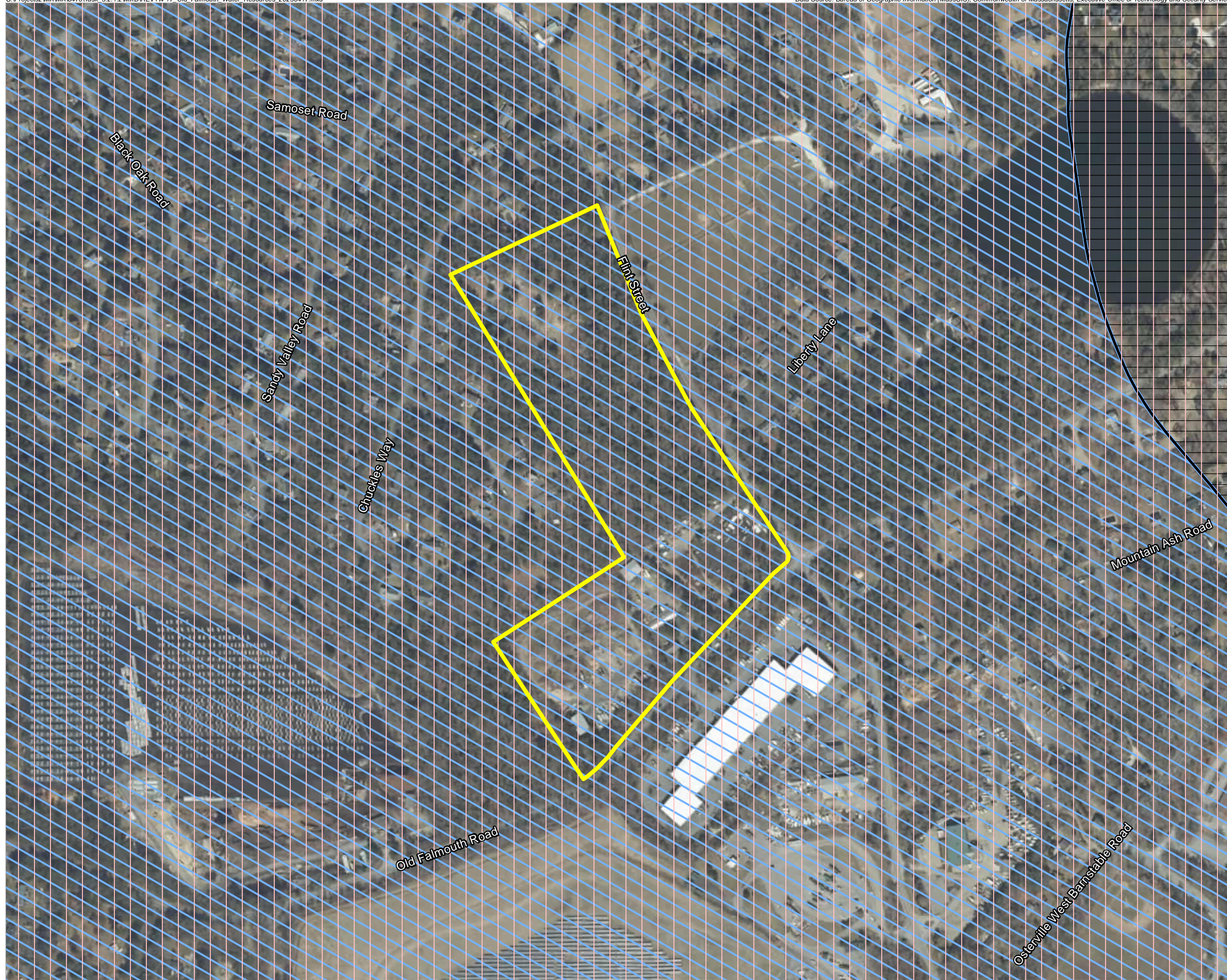
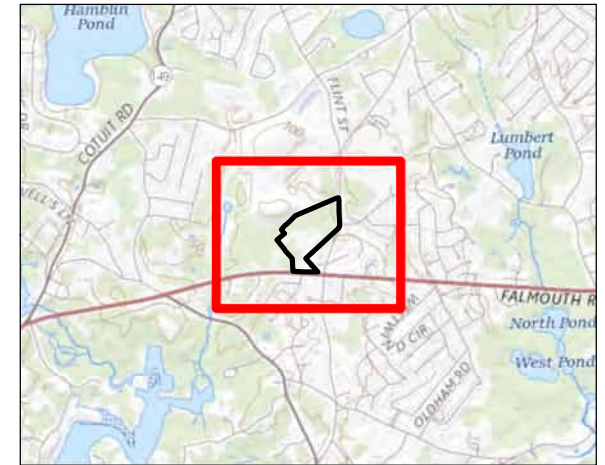


Figure 4-17
Water Supply Resources,
Old Falmouth Road Parcels

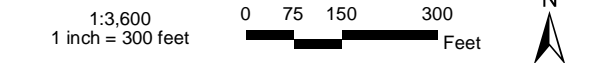
New England Wind 2 Connector Project



LOCUS



SCALE



LEGEND

- Osterville-West Barnstable Road/Falmouth Road Parcels
- Article 97 Land
- 100-ft Buffer Zone
- 200-ft Riverfront Area
- USGS Perennial Stream
- DEP Hydrologic Connection
- DEP Wetland
- DEP Open Water
- DEP Historic High Water Line
- NHESP Certified Vernal Pool
- NHESP Priority Habitat of Rare Species
- NHESP Estimated Habitat of Rare Wildlife

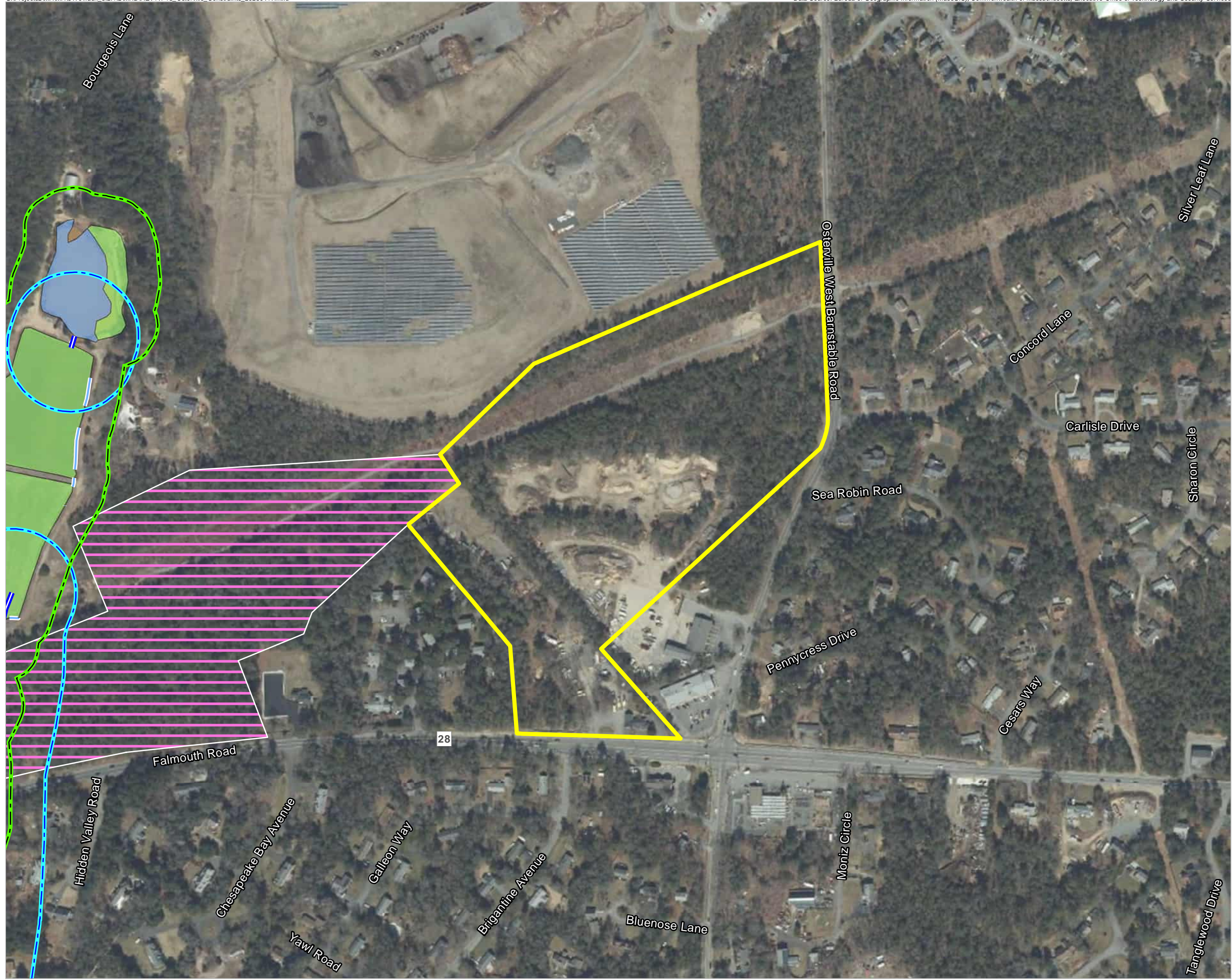


Figure 4-18

Environmental Constraints,
Osterville-West Barnstable Road/
Falmouth Road Parcels

New England Wind 2 Connector Project

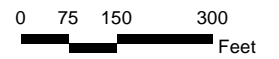


LOCUS



SCALE

1:3,600
1 inch = 300 feet



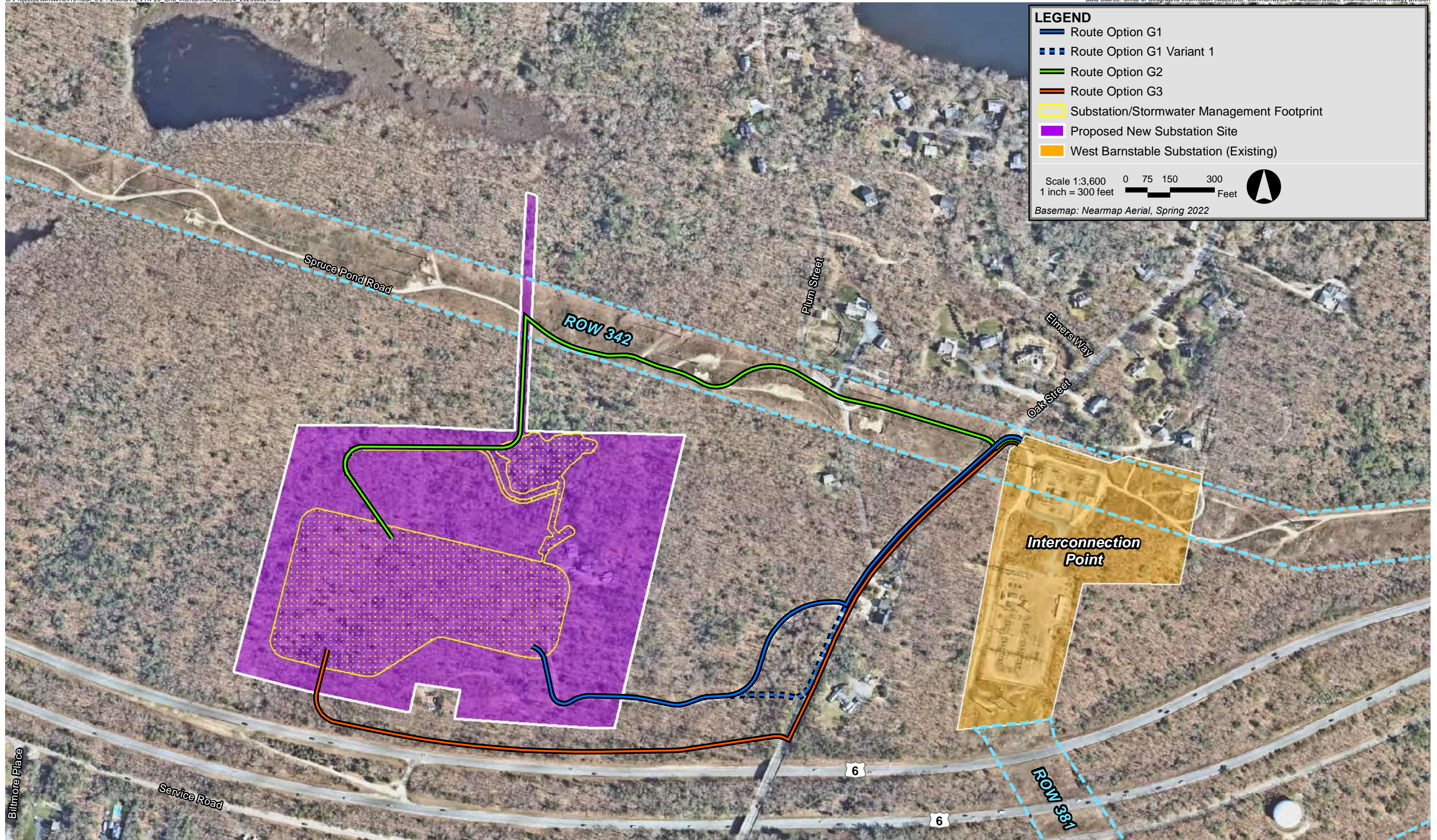
LEGEND

- Osterville-West Barnstable Road/Falmouth Road Parcels
- Public Water Supply Well
- Wellhead Protection Area Zone I
- Wellhead Protection Area Zone II
- Barnstable Wellhead Protection Overlay District
- Barnstable Groundwater Protection Overlay District
- Potential Public Water Supply Area (CCC)
- Freshwater Recharge Area (CCC)

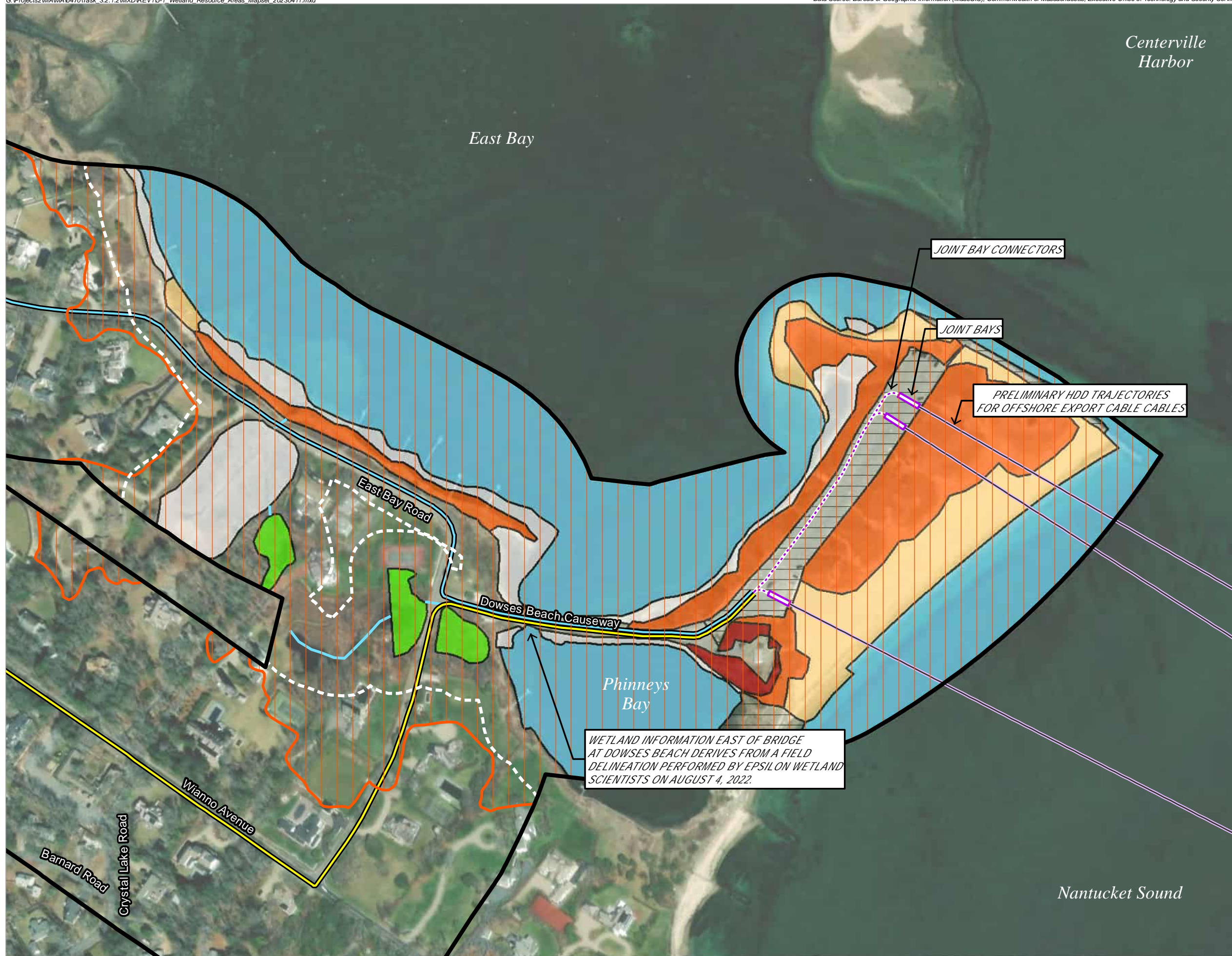


Figure 4-19

Water Supply Resources,
Osterville-West Barnstable Road/
Falmouth Road Parcels



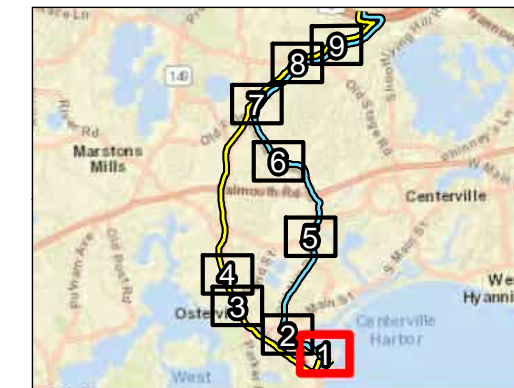
New England Wind 2 Connector Project



New England Wind 2 Connector Project



LOCUS



SCALE



LEGEND

- 400-ft Radius from Project Routes
 - Preferred Transmission Route
 - Noticed Alternative Transmission Route
 - 100-ft Buffer Zone
 - 200-ft Riverfront Area
 - FEMA LSCSF/BLSF
 - Perennial Stream
 - Hydrologic Connection
- Wetland**
- | | |
|---------------|---------------|
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| Coastal Bank | Salt Marsh |
| Coastal Beach | Shallow Marsh |
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NOTES:
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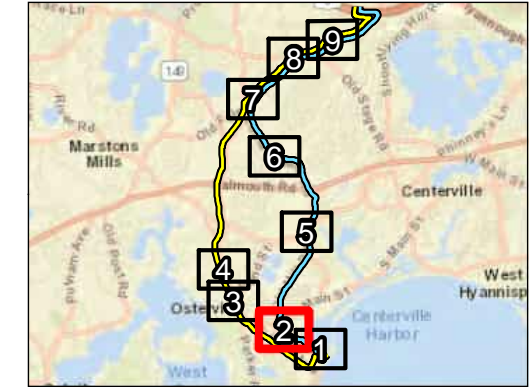
Figure 5-1

Wetland Resource Areas

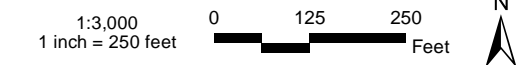
New England Wind 2 Connector Project



LOCUS



SCALE



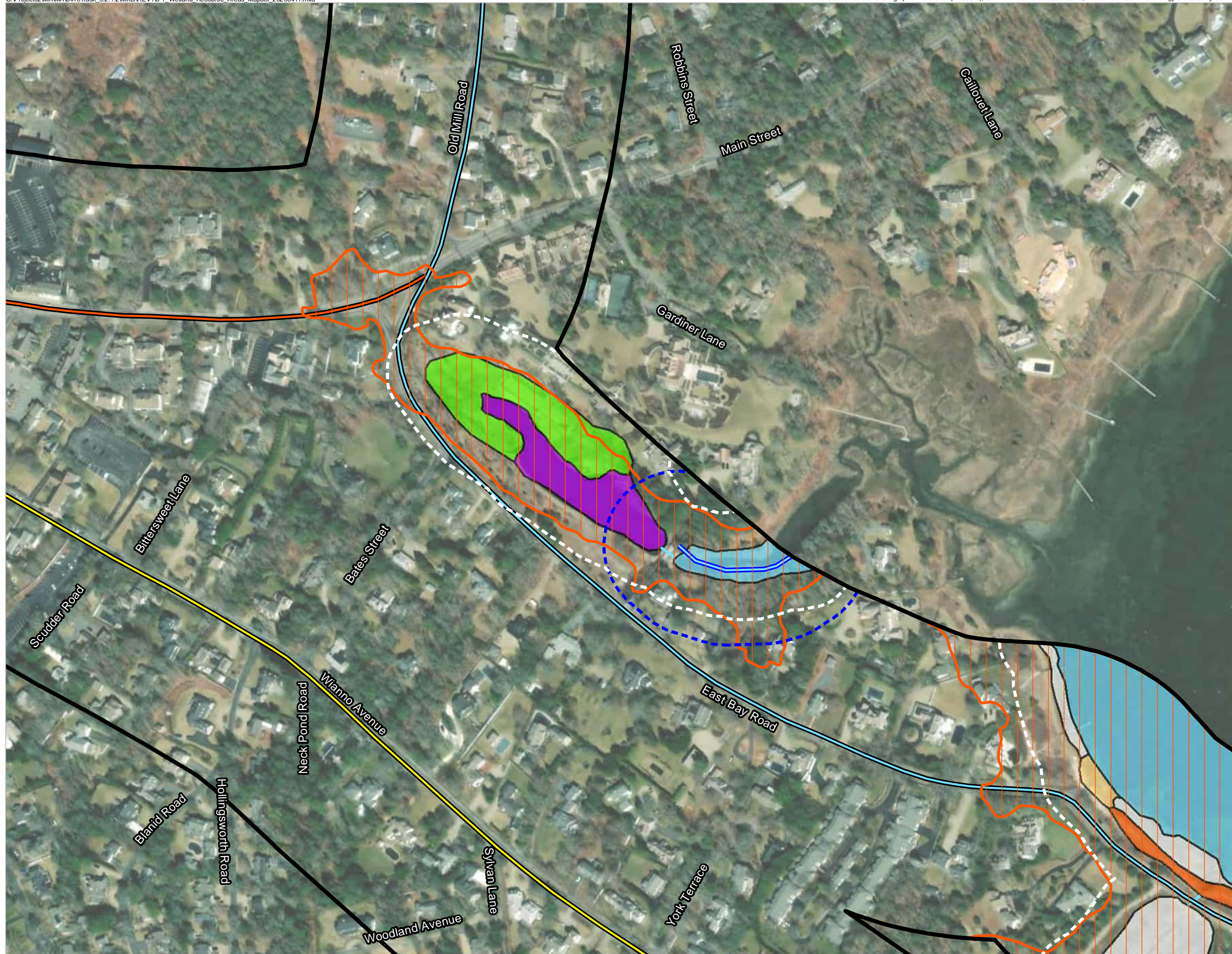
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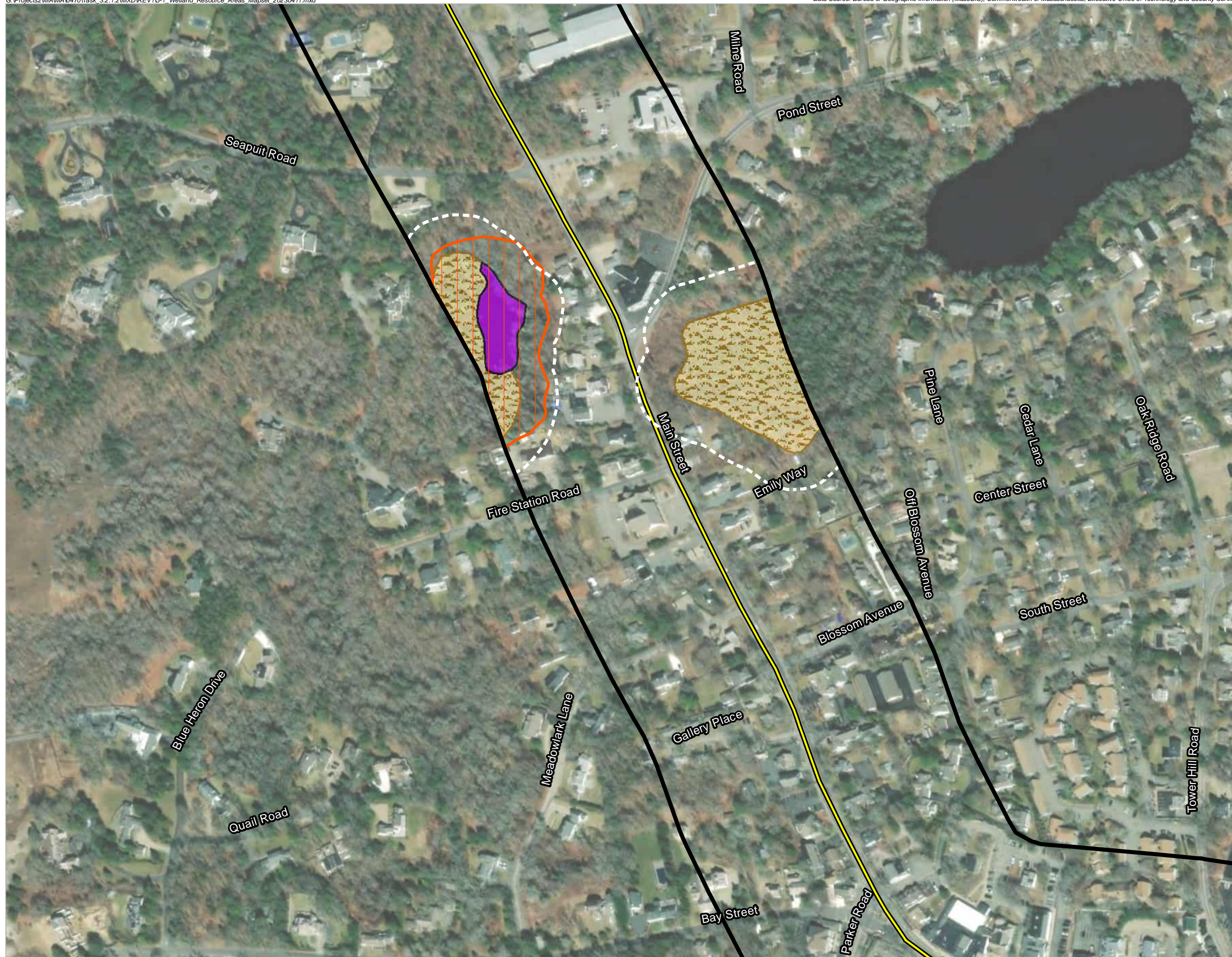
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Figure 5-1

Wetland Resource Areas

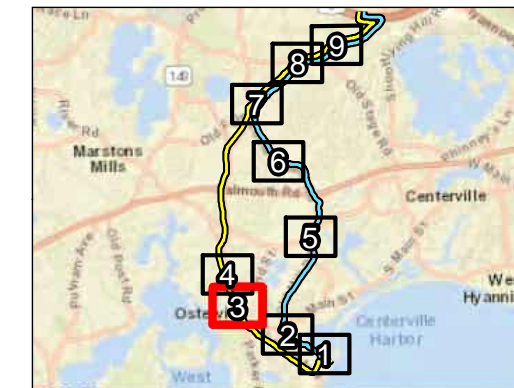




New England Wind 2 Connector Project



LOCUS



SCALE



LEGEND

- 400-ft Radius from Project Routes
 - Preferred Transmission Route
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Figure 5-1

Wetland Resource Areas

New England Wind 2 Connector Project



LOCUS



SCALE



LEGEND

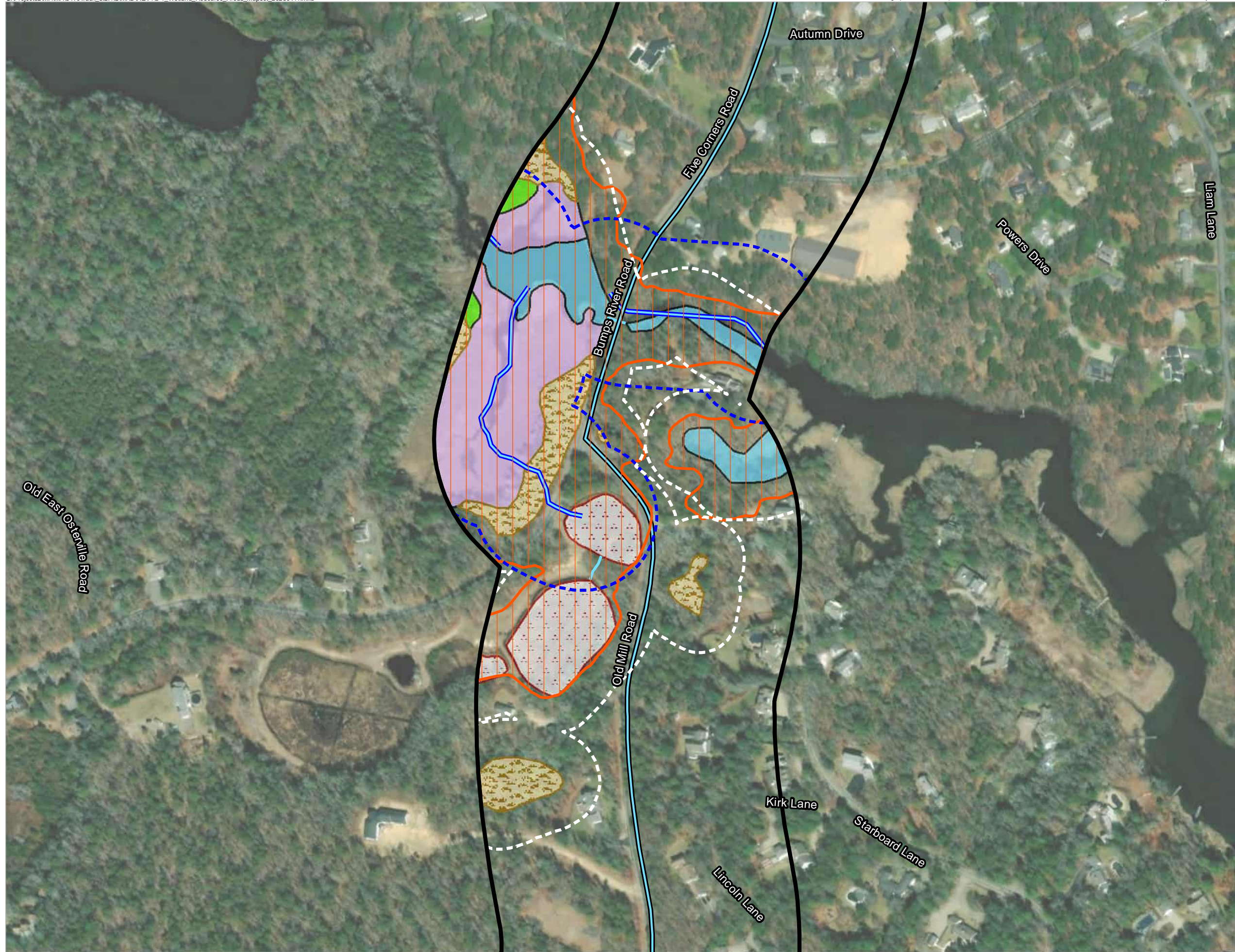
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Figure 5-1

Wetland Resource Areas

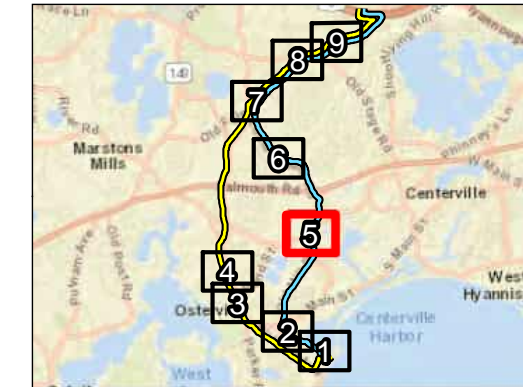




New England Wind 2 Connector Project



LOCUS



SCALE



LEGEND

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Figure 5-1

Wetland Resource Areas

New England Wind 2 Connector Project



LOCUS



SCALE



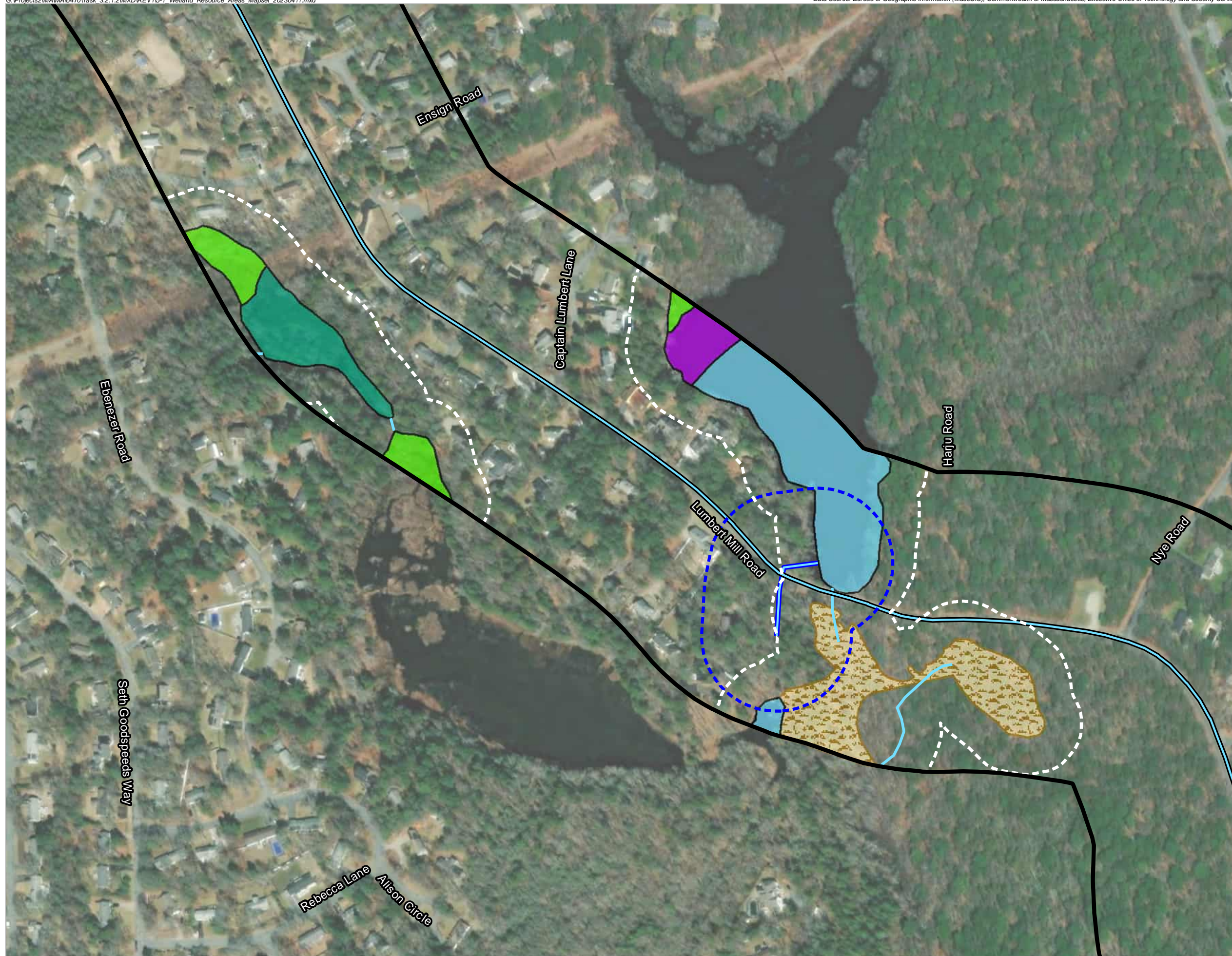
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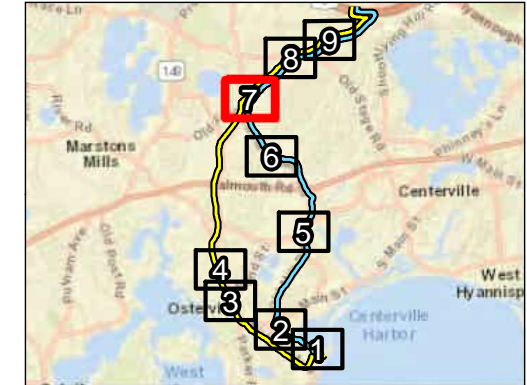
Wetland Resource Areas



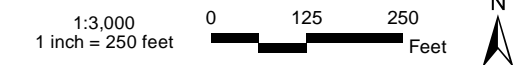
New England Wind 2 Connector Project



LOCUS



SCALE



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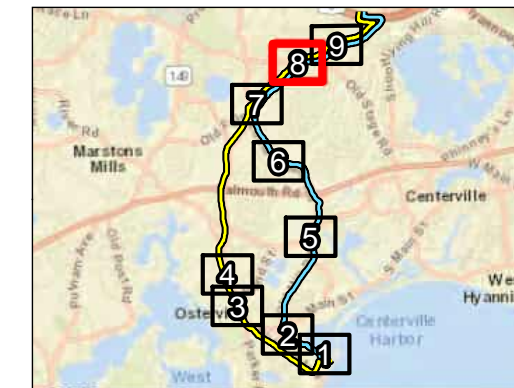
Wetland Resource Areas



New England Wind 2 Connector Project



LOCUS



SCALE



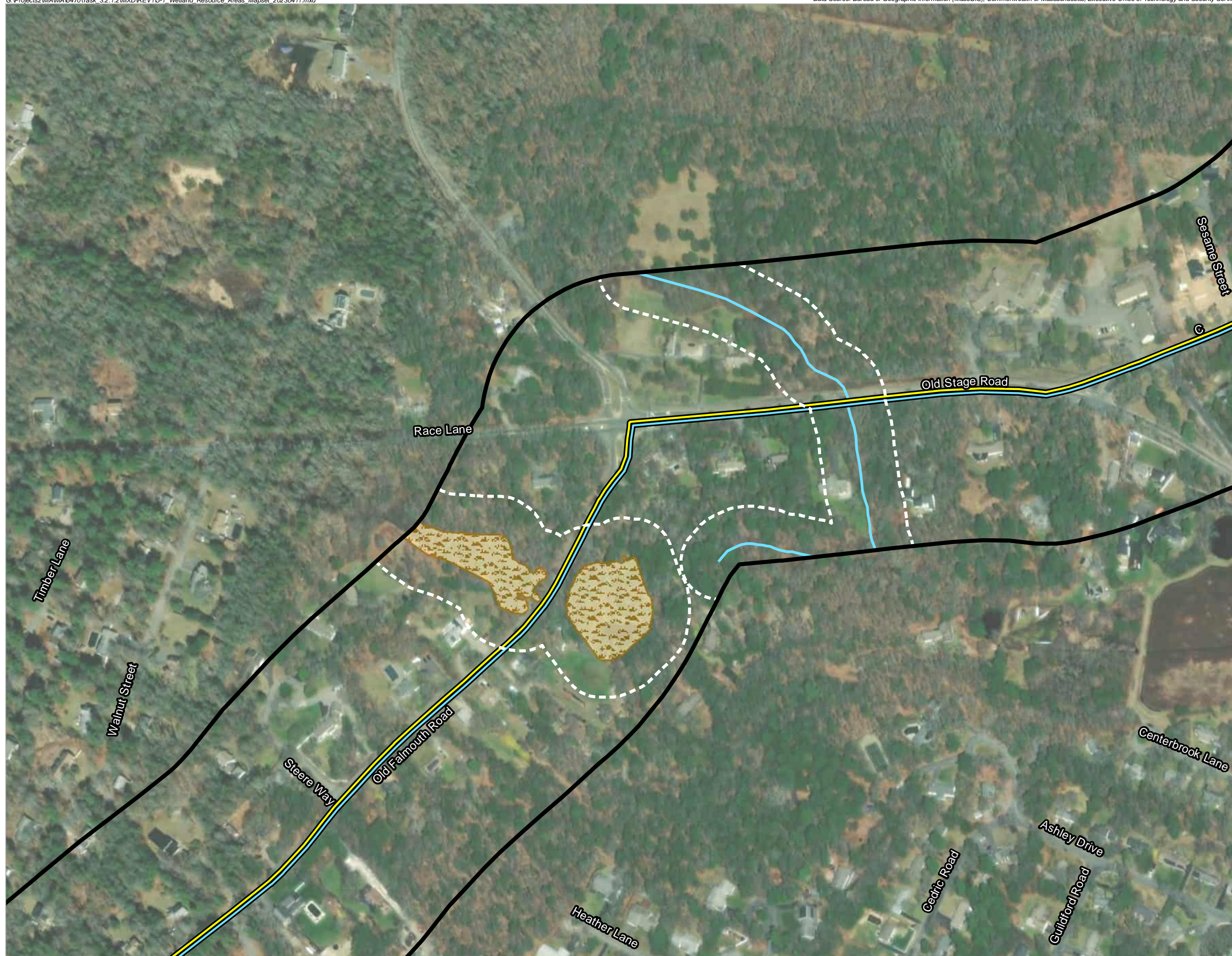
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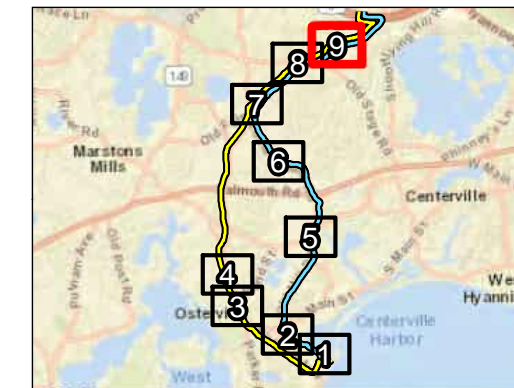
Wetland Resource Areas



New England Wind 2 Connector Project



LOCUS



SCALE



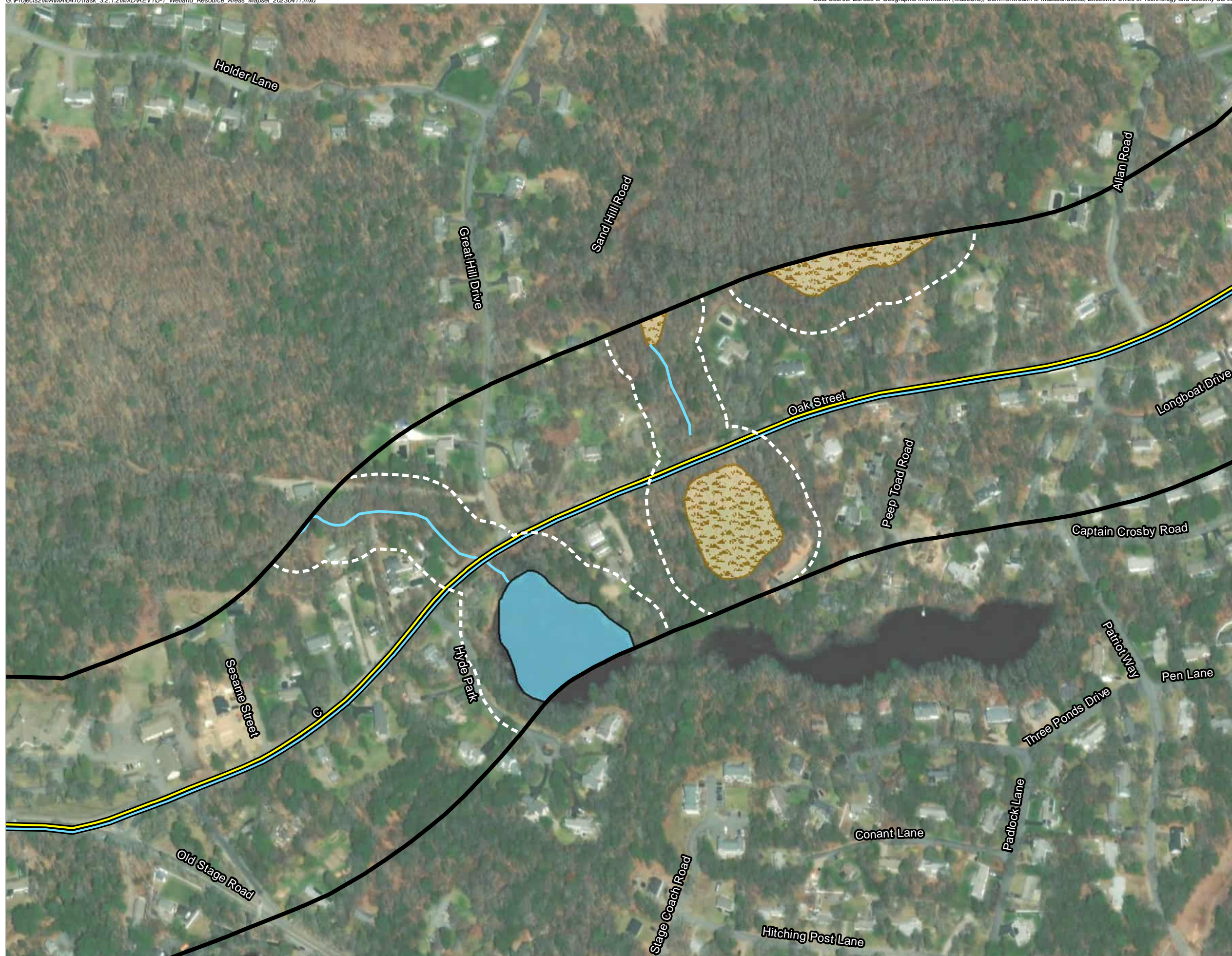
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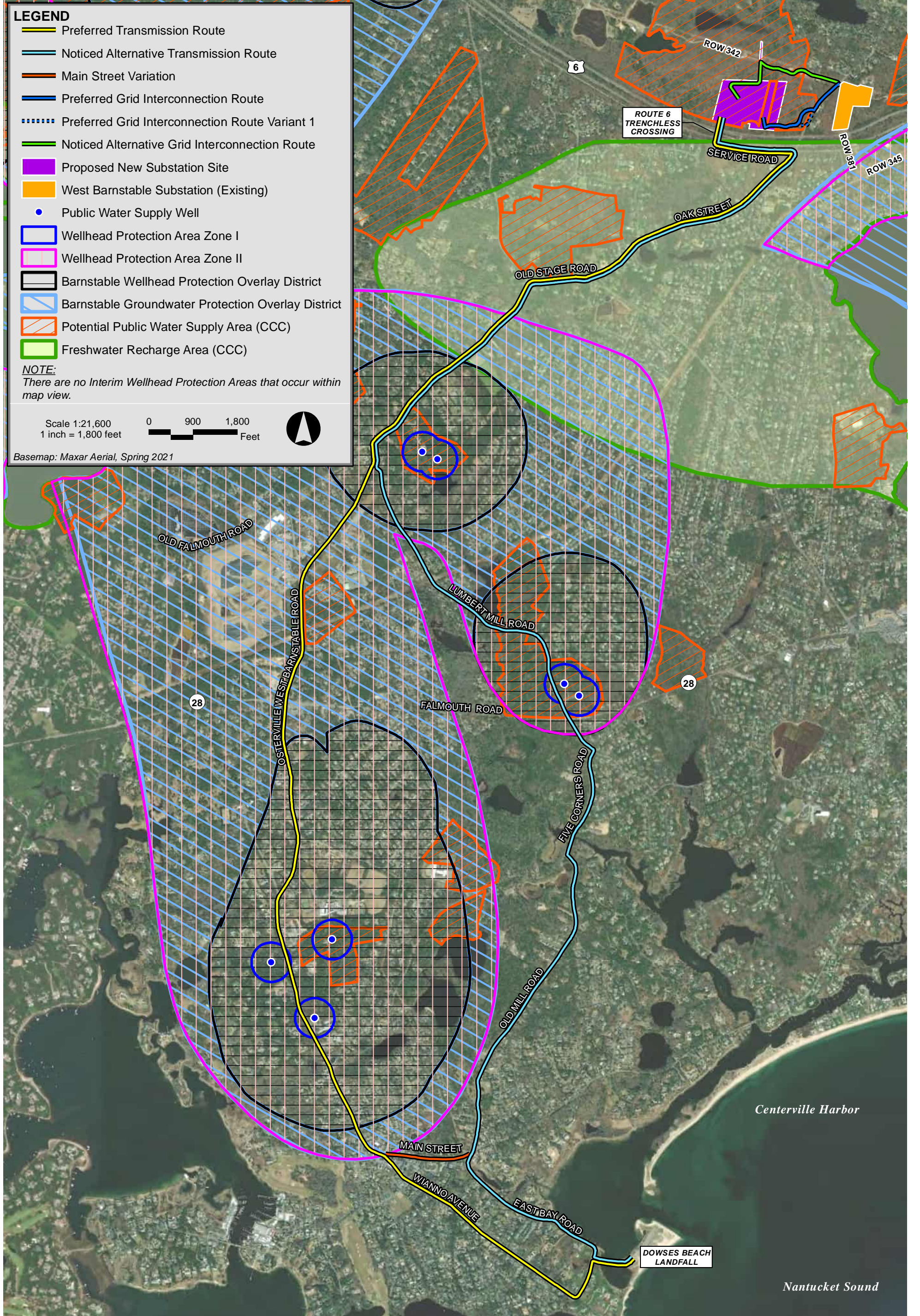
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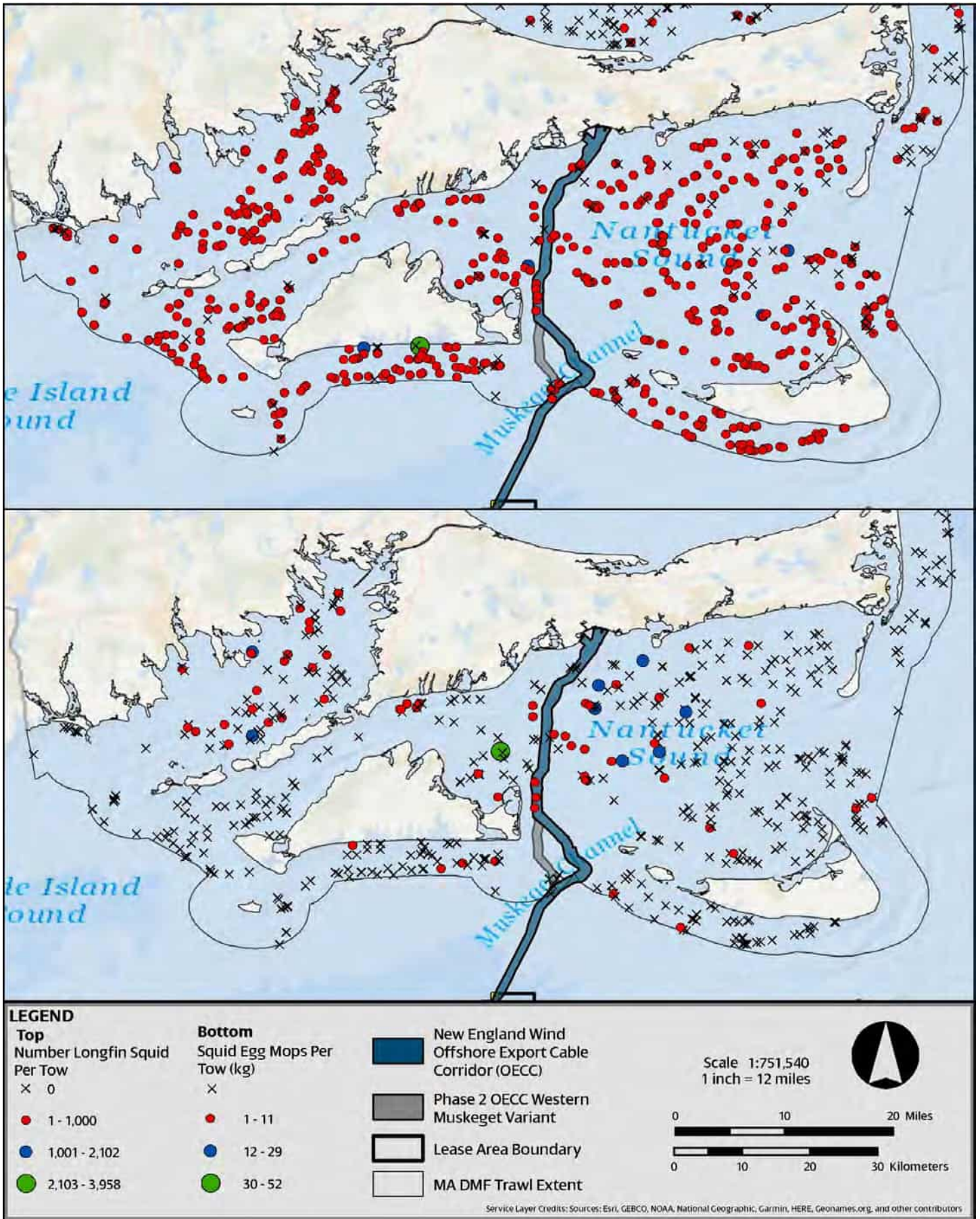
Figure 5-1

Wetland Resource Areas





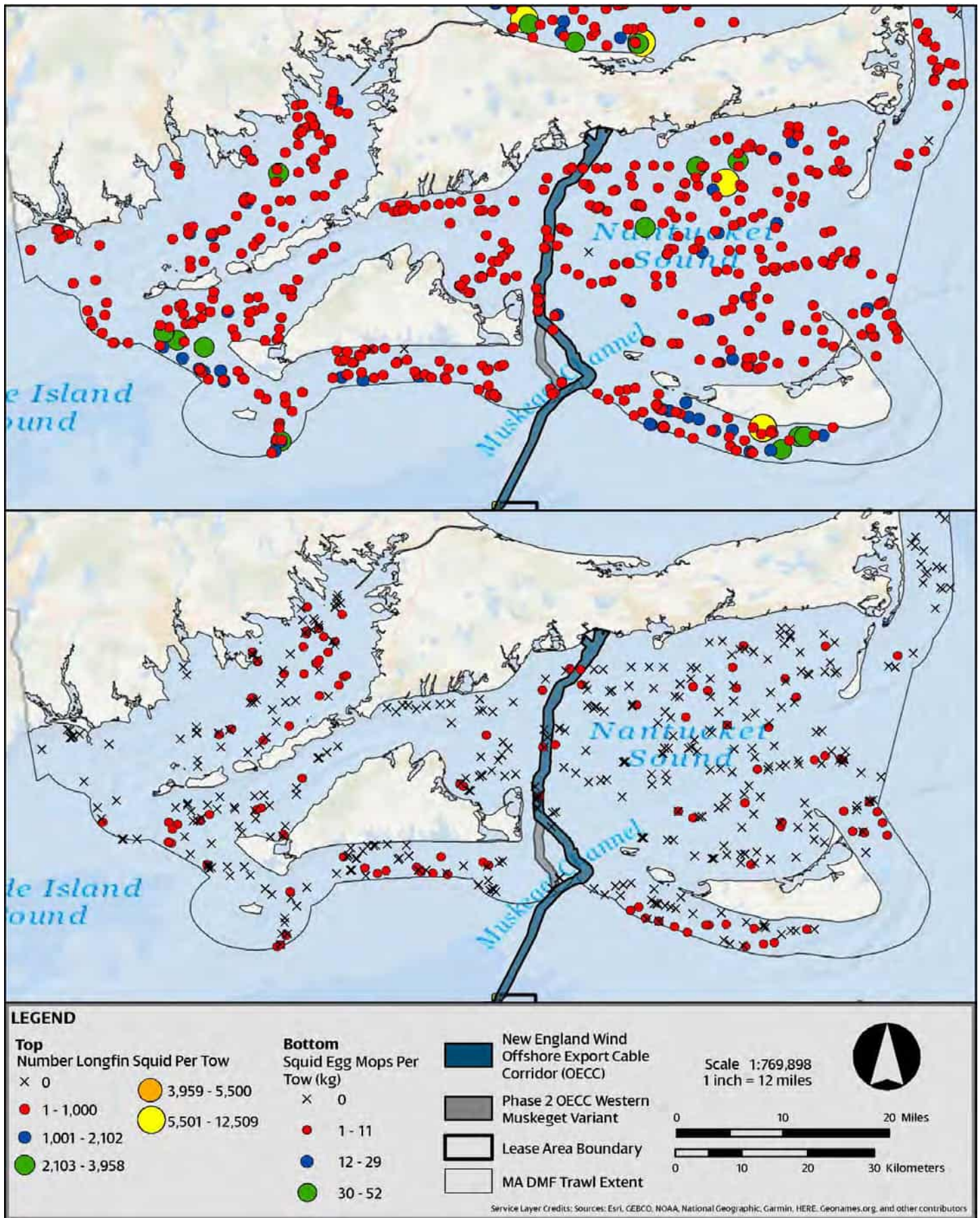
New England Wind 2 Connector Project



New England Wind 2 Connector Project



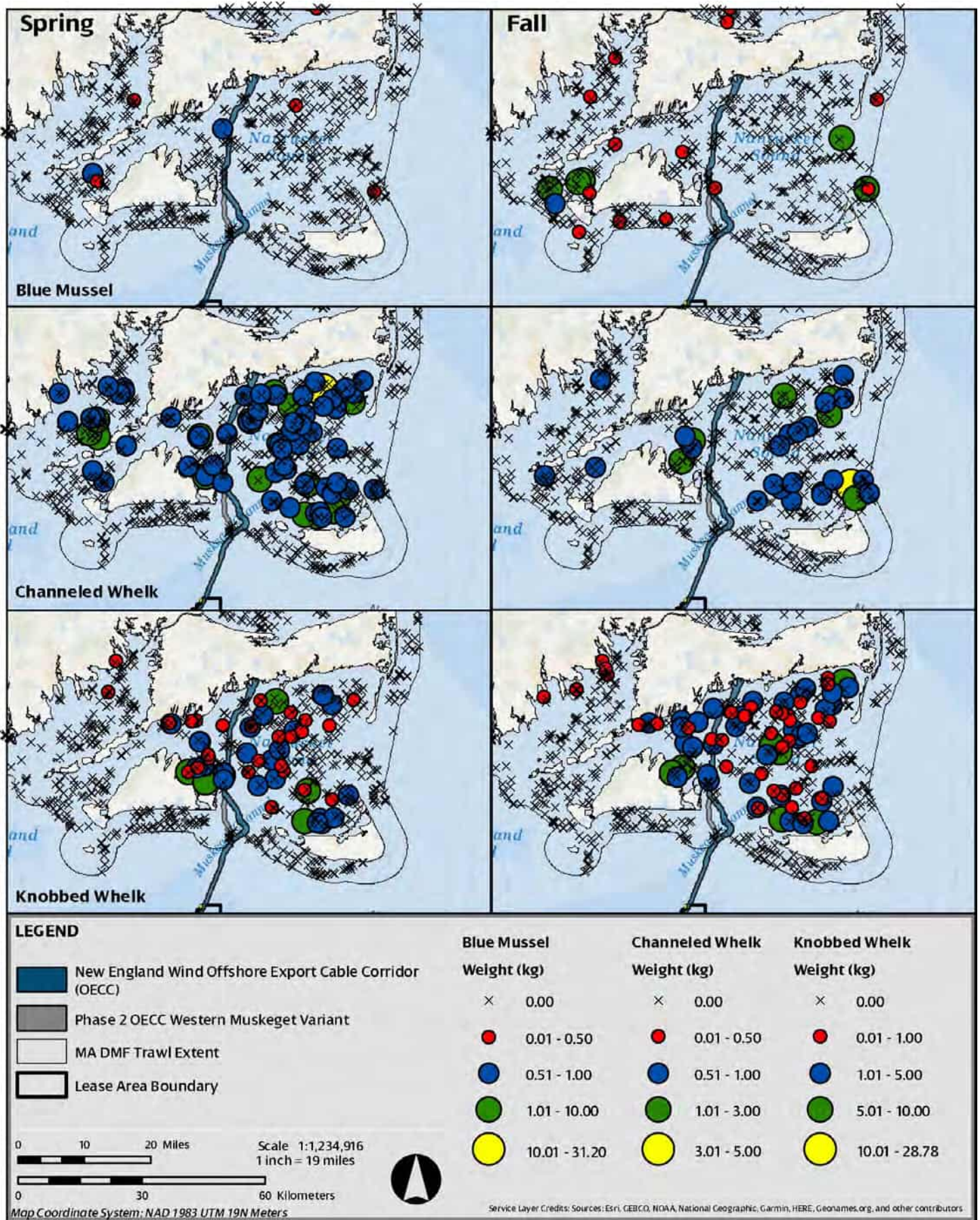
Figure 7-1
Longfin Squid (2007-2021) and Egg Mop (2007-2017) Catch Data from MA DMF Bottom Trawl Spring Surveys



New England Wind 2 Connector Project



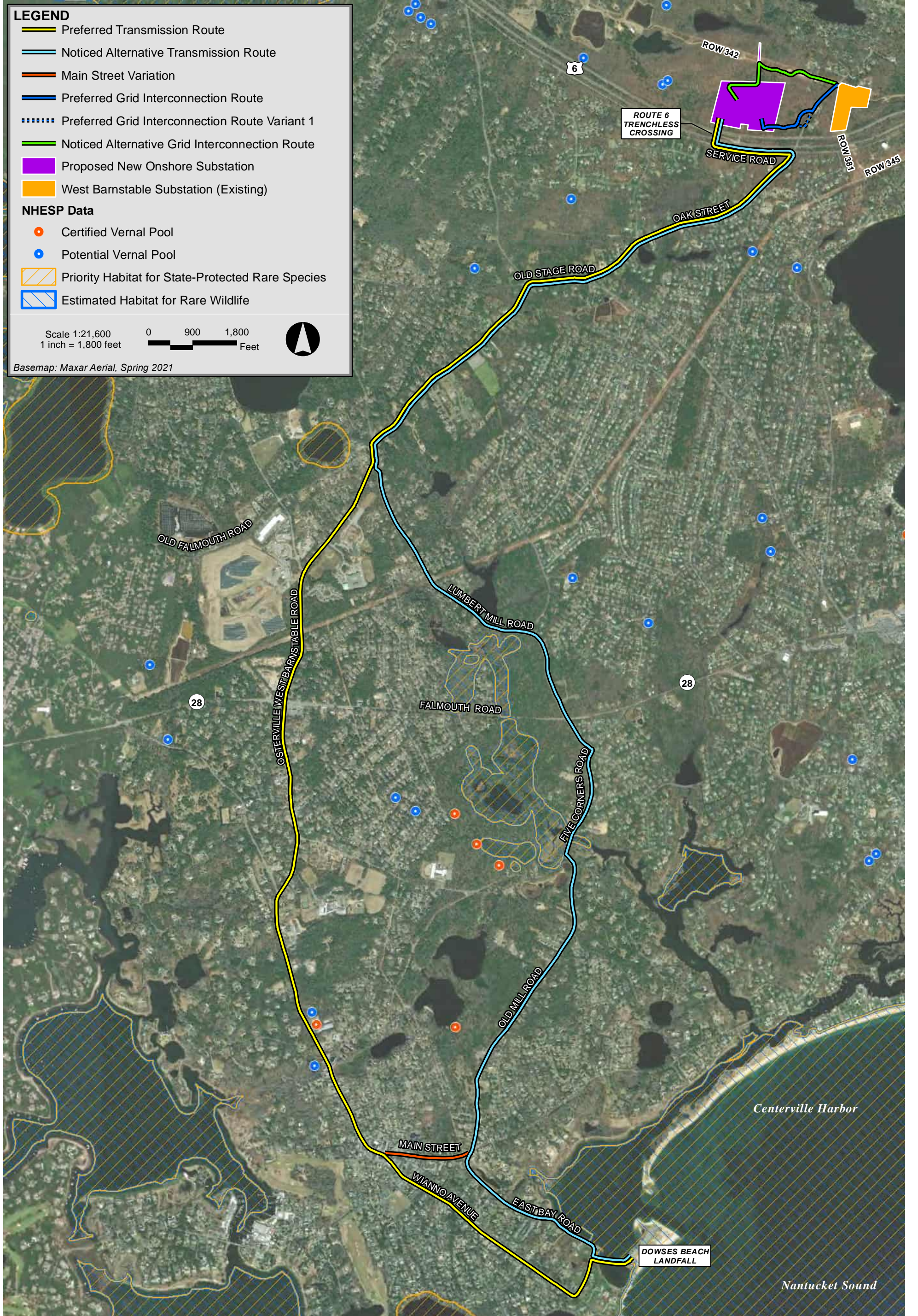
Figure 7-2
Longfin Squid (2007-2021) and Egg Mop (2007-2017) Catch Data from MA DMF Bottom Trawl Fall Surveys



New England Wind 2 Connector Project



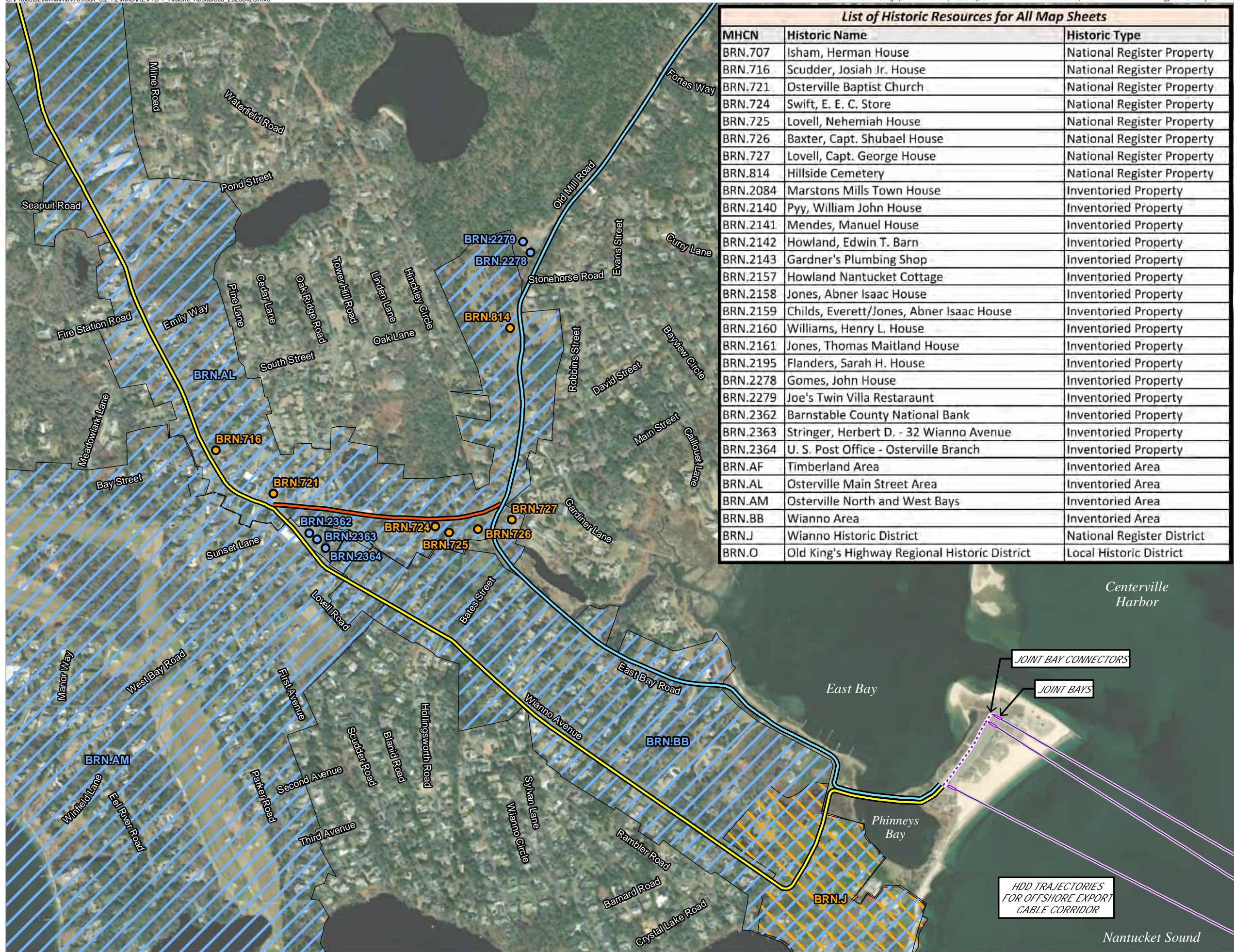
Figure 7-3
Blue Mussel (top), Channeled Whelk (middle), and Knobbed Whelk (bottom) Catch Data from Spring and Fall MA DMF Bottom Trawl Surveys (2007-2021)



New England Wind 2 Connector Project



Figure 7-4
Onshore Routing – Natural Heritage and Endangered Species Program (NHESP)

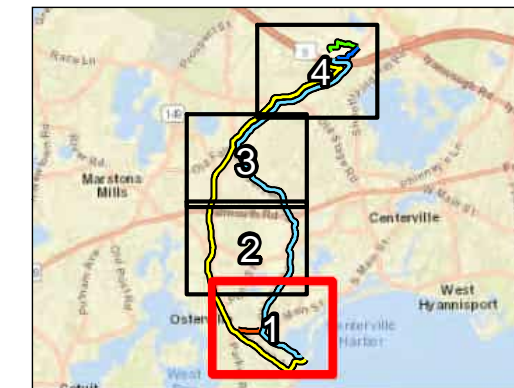


List of Historic Resources for All Map Sheets		
MHCN	Historic Name	Historic Type
BRN.707	Isham, Herman House	National Register Property
BRN.716	Scudder, Josiah Jr. House	National Register Property
BRN.721	Osterville Baptist Church	National Register Property
BRN.724	Swift, E. E. C. Store	National Register Property
BRN.725	Lovell, Nehemiah House	National Register Property
BRN.726	Baxter, Capt. Shubael House	National Register Property
BRN.727	Lovell, Capt. George House	National Register Property
BRN.814	Hillside Cemetery	National Register Property
BRN.2084	Marstons Mills Town House	Inventoried Property
BRN.2140	Pyy, William John House	Inventoried Property
BRN.2141	Mendes, Manuel House	Inventoried Property
BRN.2142	Howland, Edwin T. Barn	Inventoried Property
BRN.2143	Gardner's Plumbing Shop	Inventoried Property
BRN.2157	Howland Nantucket Cottage	Inventoried Property
BRN.2158	Jones, Abner Isaac House	Inventoried Property
BRN.2159	Childs, Everett/Jones, Abner Isaac House	Inventoried Property
BRN.2160	Williams, Henry L. House	Inventoried Property
BRN.2161	Jones, Thomas Maitland House	Inventoried Property
BRN.2195	Flanders, Sarah H. House	Inventoried Property
BRN.2278	Gomes, John House	Inventoried Property
BRN.2279	Joe's Twin Villa Restaraunt	Inventoried Property
BRN.2362	Barnstable County National Bank	Inventoried Property
BRN.2363	Stringer, Herbert D. - 32 Wianno Avenue	Inventoried Property
BRN.2364	U. S. Post Office - Osterville Branch	Inventoried Property
BRN.AF	Timberland Area	Inventoried Area
BRN.AL	Osterville Main Street Area	Inventoried Area
BRN.AM	Osterville North and West Bays	Inventoried Area
BRN.BB	Wianno Area	Inventoried Area
BRN.J	Wianno Historic District	National Register District
BRN.O	Old King's Highway Regional Historic District	Local Historic District

New England Wind 2 Connector Project



LOCUS



SCALE

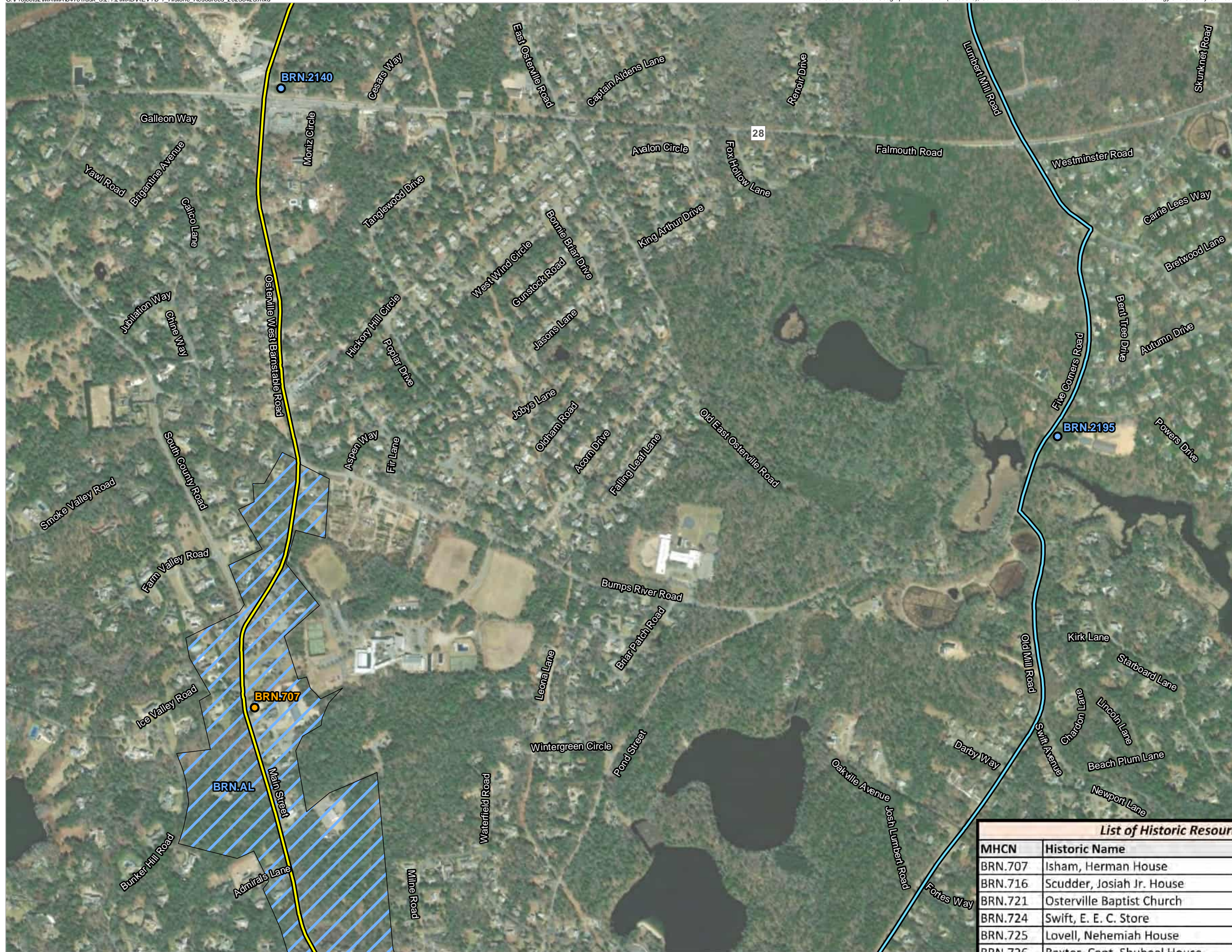


LEGEND

- Preferred Transmission Route
 - Noticed Alternative Transmission Route
 - Main Street Variation
 - Preferred Grid Interconnection Route
 - Preferred Grid Interconnection Route Variant 1
 - Noticed Alternative Grid Interconnection Route
 - Proposed New Onshore Substation
 - West Barnstable Substation (Existing)
- MACRIS Data, MHC**
- National Register Property
 - Inventoried Property
 - National Register District
 - Inventoried Area
 - Local Historic District

Figure 9-1, Map Sheet 1 of 4

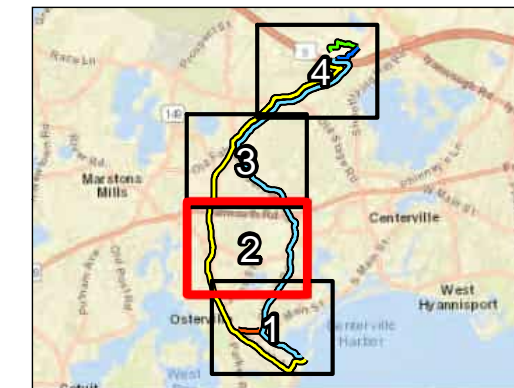
Historic Resources



New England Wind 2 Connector Project



LOCUS



SCALE

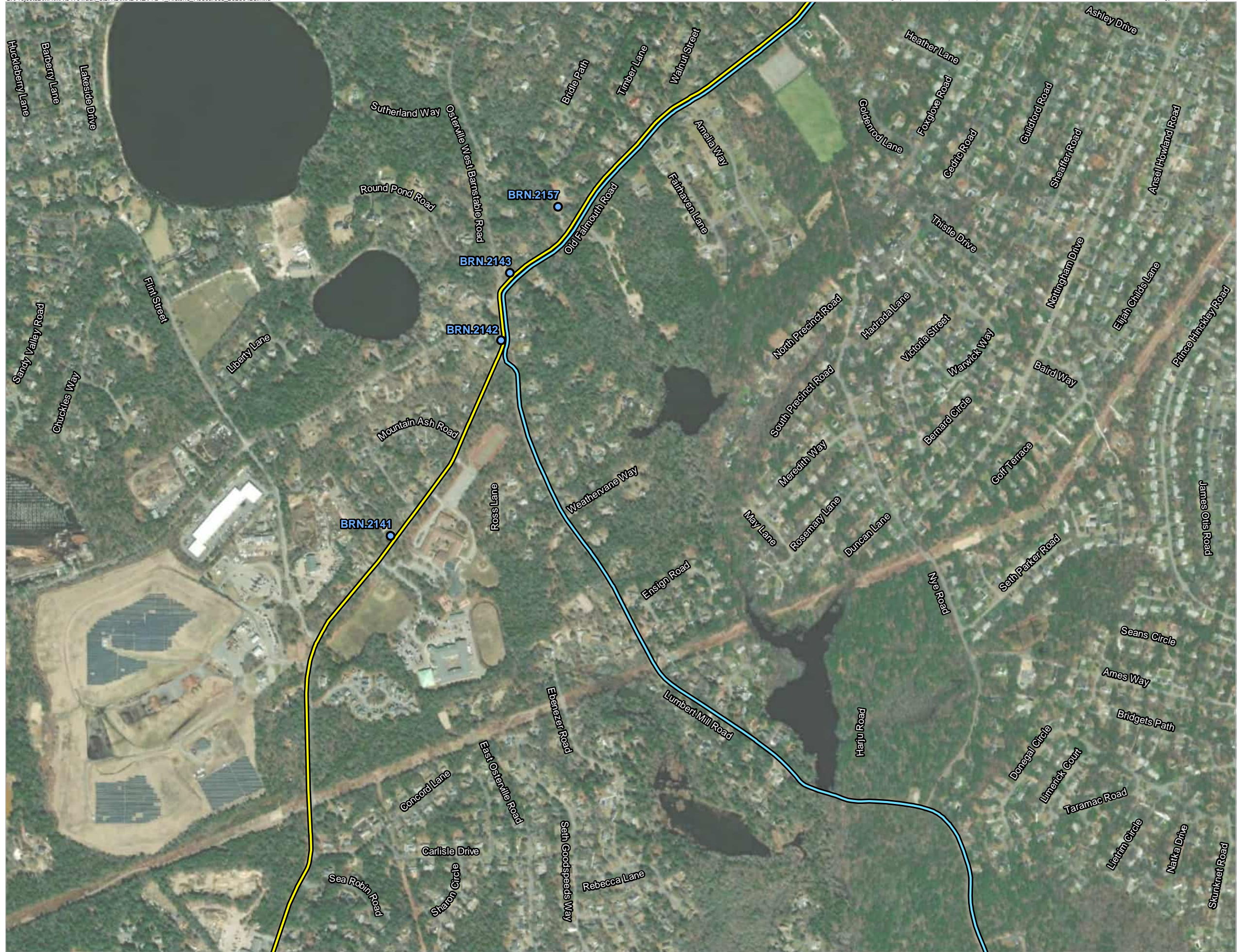


LEGEND

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Figure 9-1, Map Sheet 2 of 4

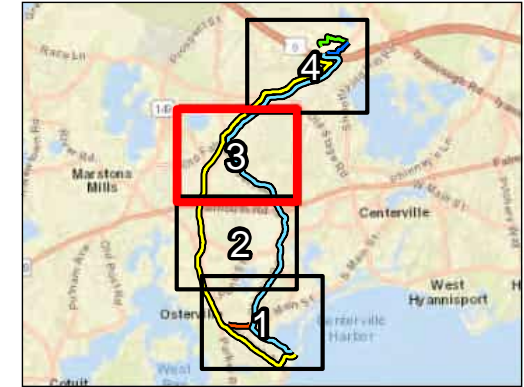
Historic Resources



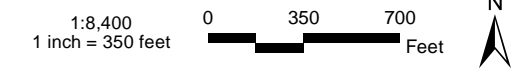
New England Wind 2 Connector Project



LOCUS



SCALE



LEGEND

- Preferred Transmission Route
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- National Register Property
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 - ▨ National Register District
 - ▨ Inventoried Area
 - ▨ Local Historic District

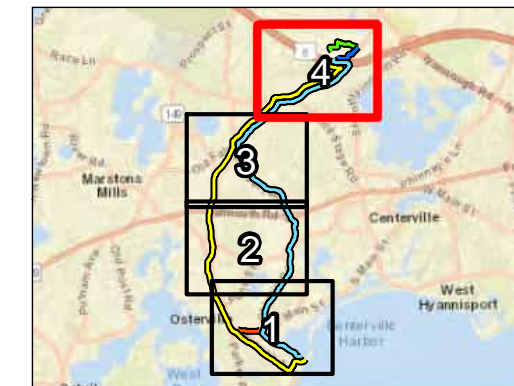
Figure 9-1, Map Sheet 3 of 4

Historic Resources

New England Wind 2 Connector Project



LOCUS



SCALE



LEGEND

- Preferred Transmission Route
 - Noticed Alternative Transmission Route
 - Main Street Variation
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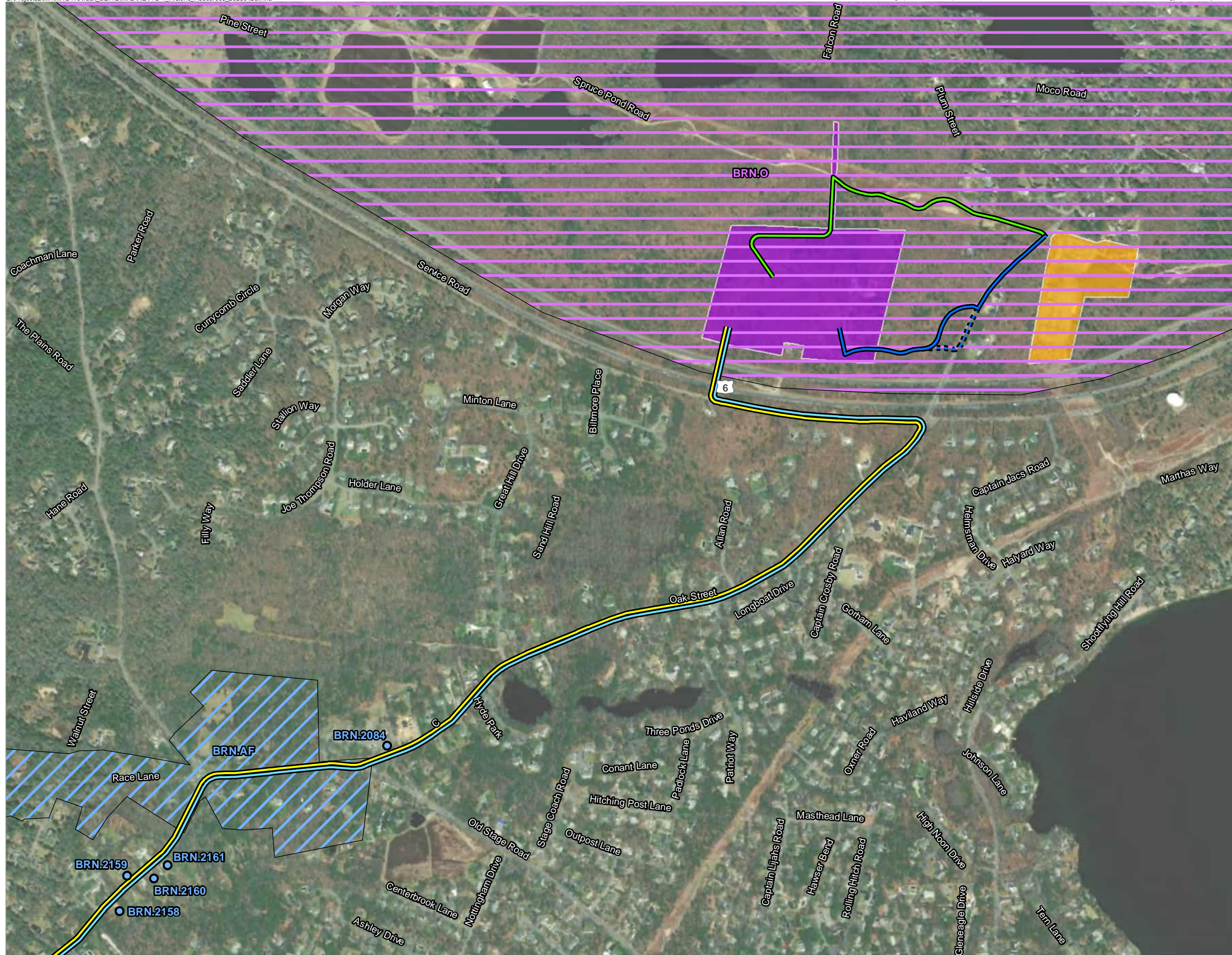


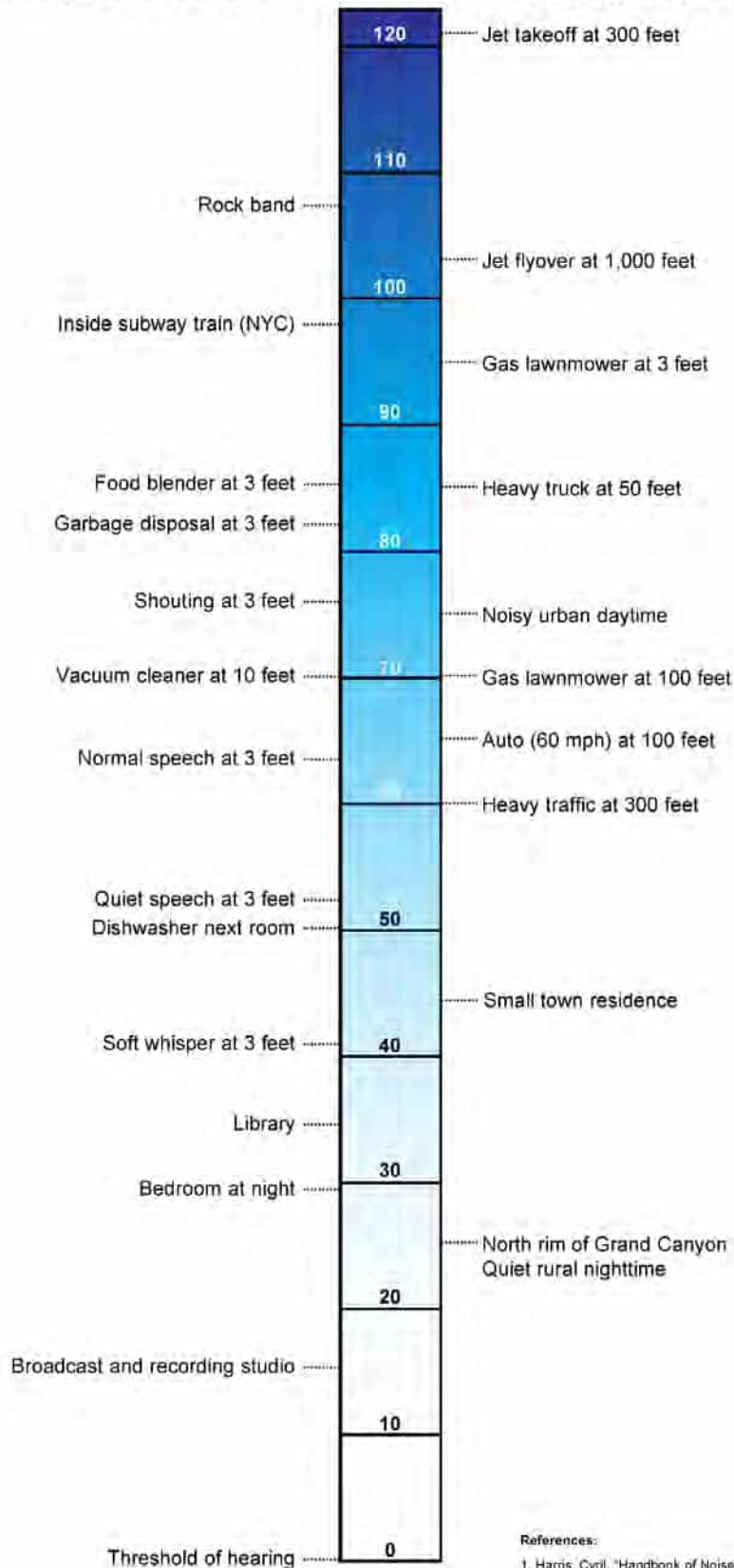
Figure 9-1, Map Sheet 4 of 4

Historic Resources

COMMON INDOOR SOUNDS

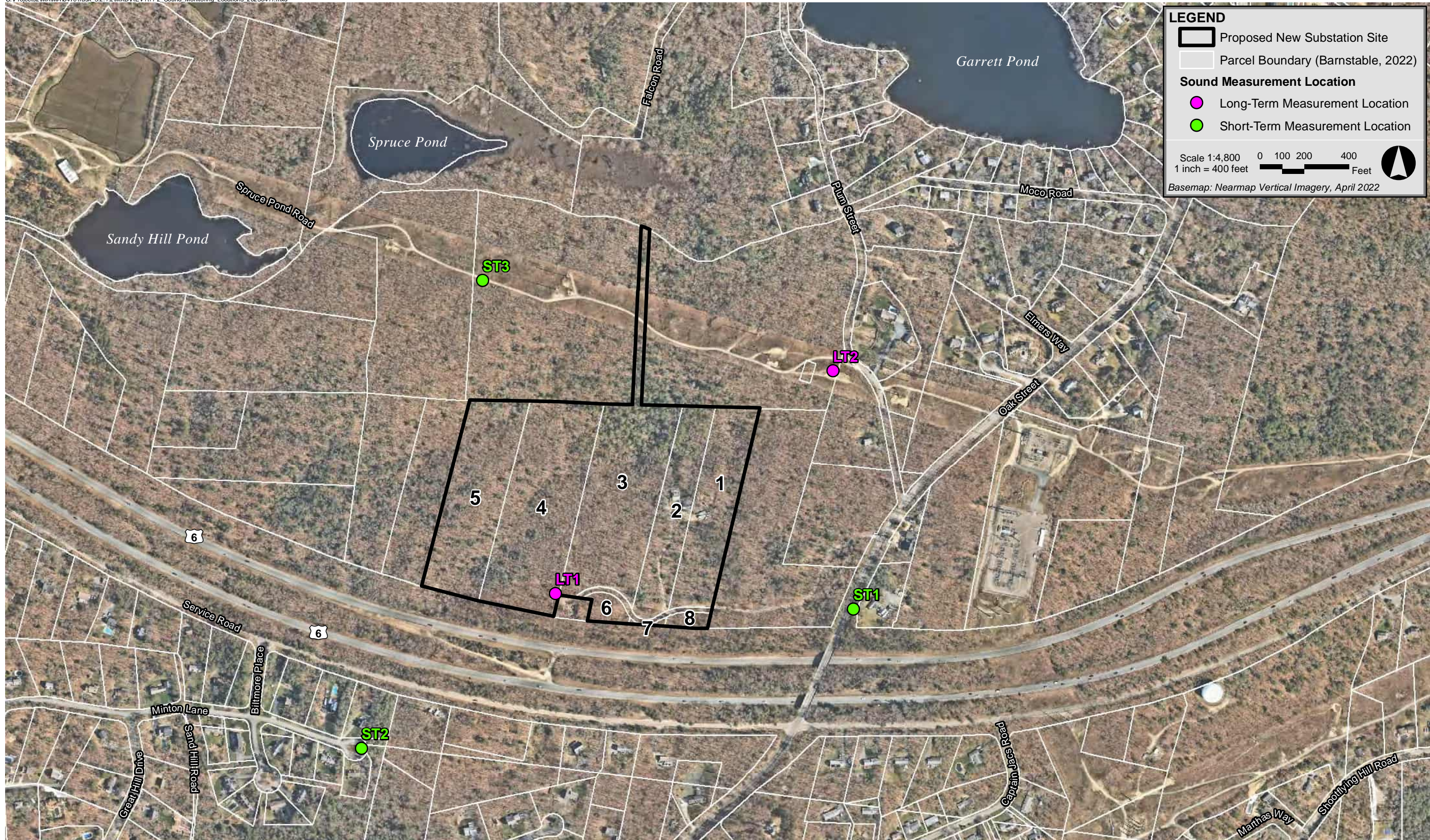
Sound Pressure Level, dBA

COMMON OUTDOOR SOUNDS

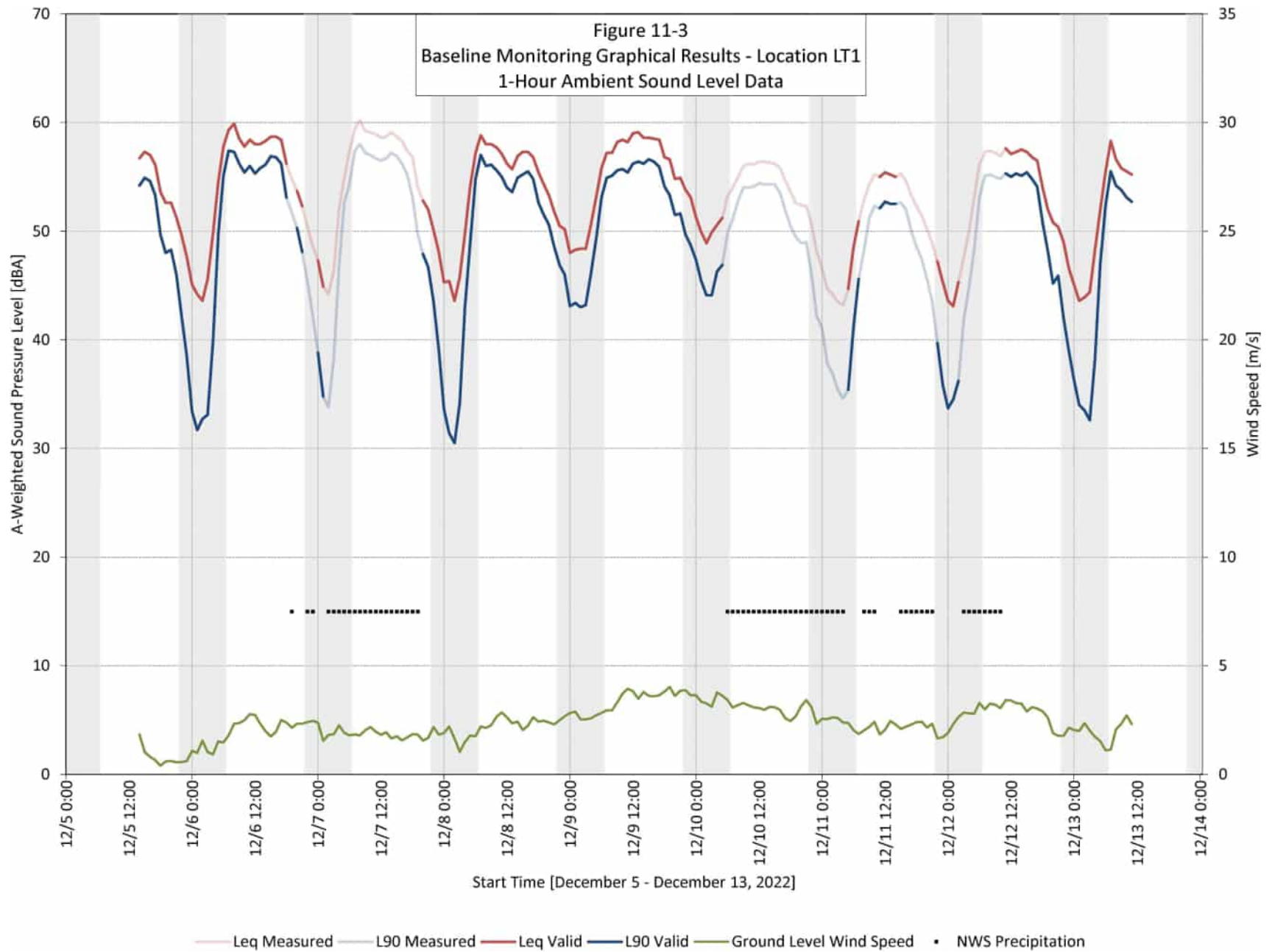


References:

1. Harris, Cyril, "Handbook of Noise Acoustical Measurements and Noise Control", p 1-10, 1998
2. "Controlling Noise", USAF, AFMC, AFDTG, Elgin AFB, Fact Sheet, August 1996
3. California Dept. of Trans., "Technical Noise Supplement", Oct, 1998



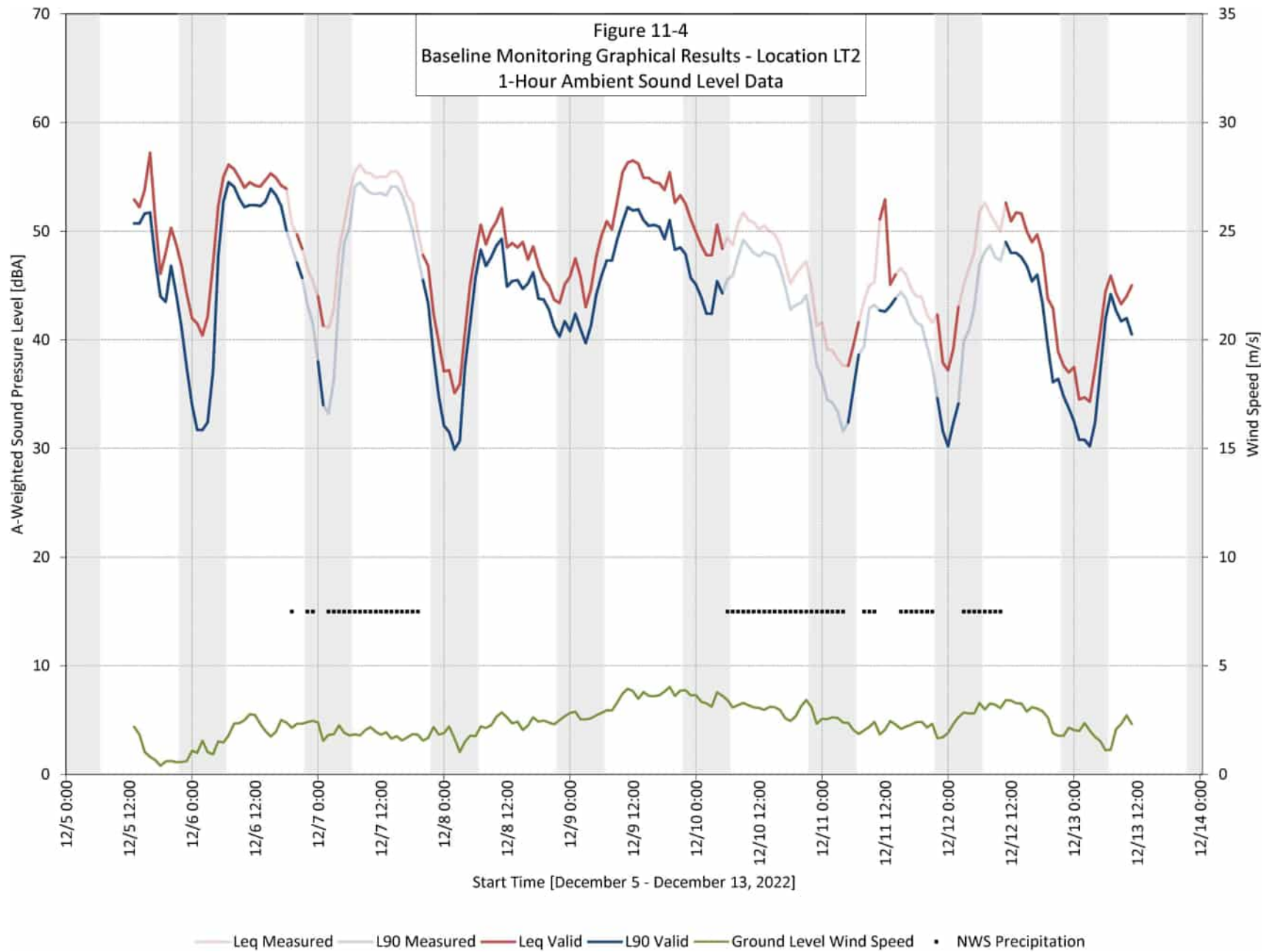
New England Wind 2 Connector Project



New England Wind 2 Connector Project



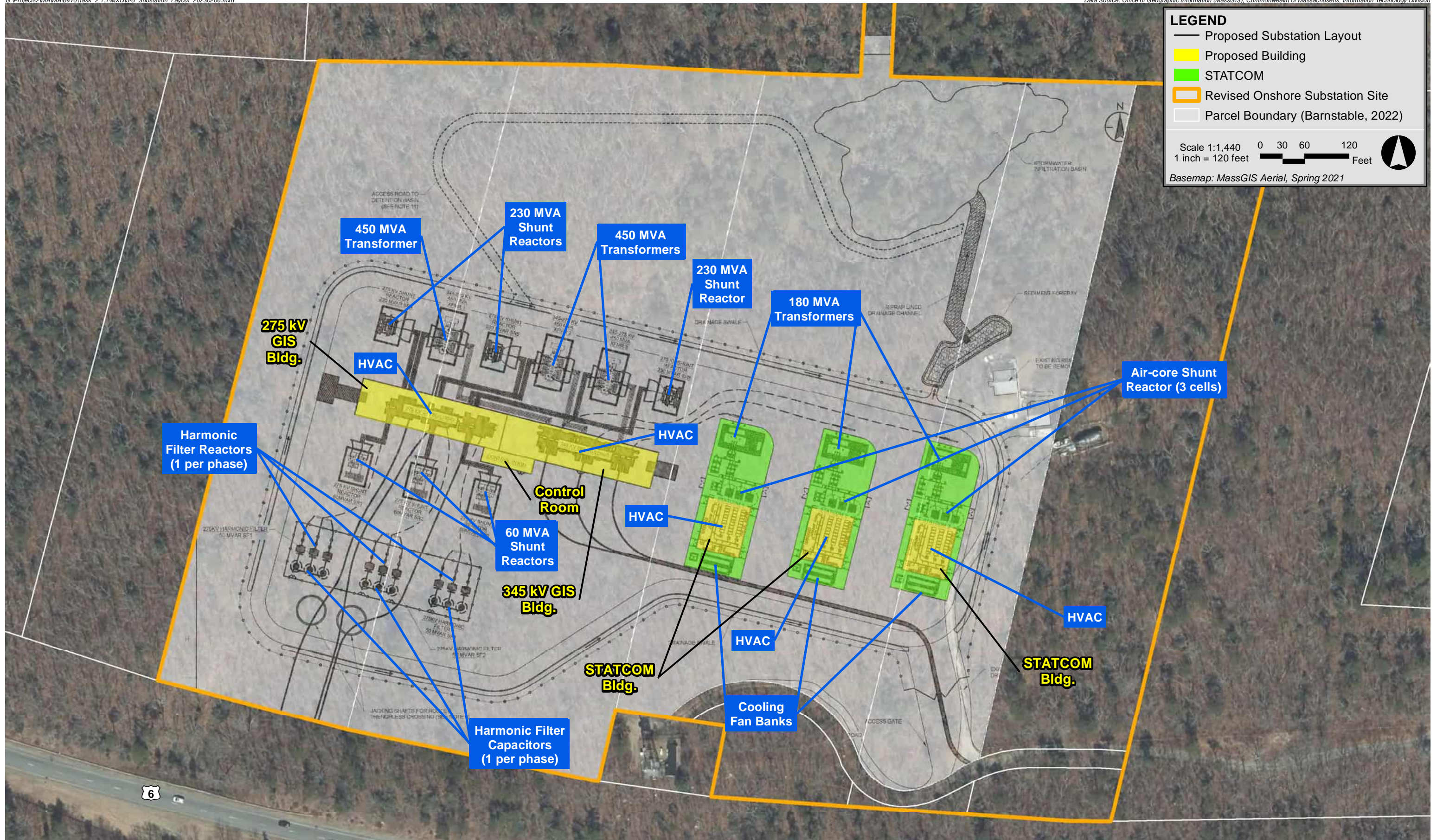
Figure 11-3
Baseline Monitoring Graphical Results – Location LT1
1-Hour Ambient Sound Level Data



New England Wind 2 Connector Project



Figure 11-4
Baseline Monitoring Graphical Results – Location LT2
1-Hour Ambient Sound Level Data

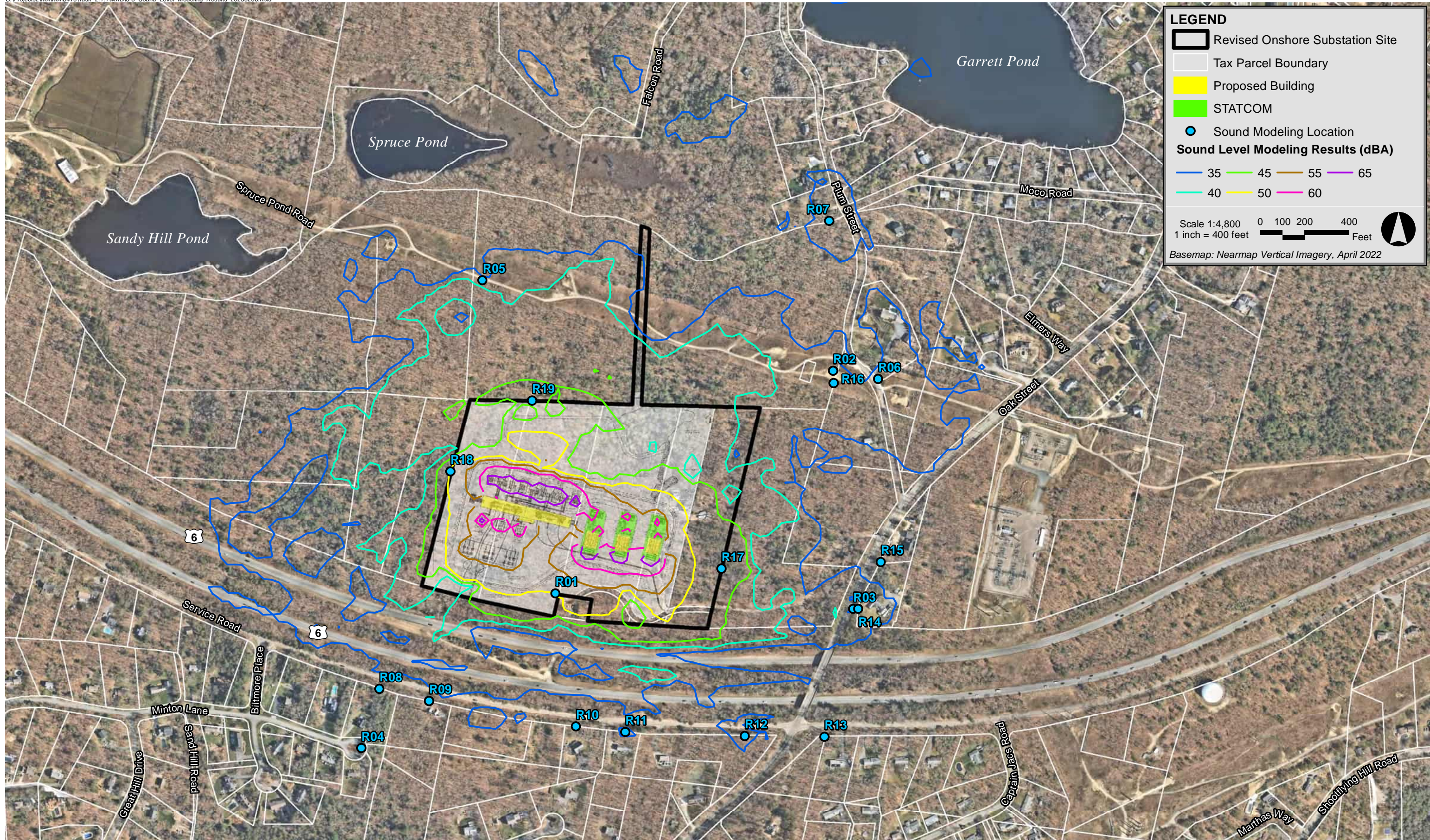


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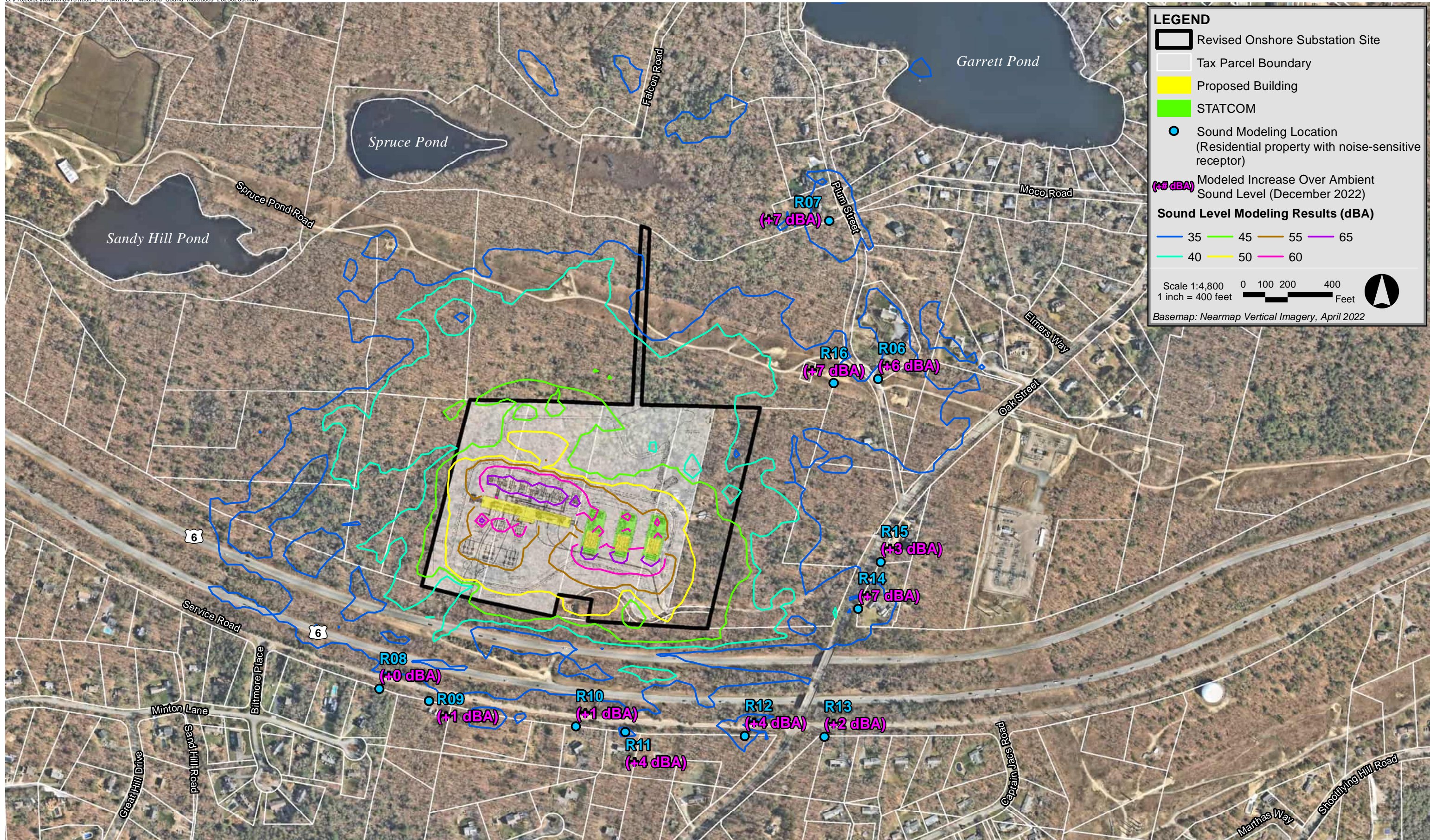
New England Wind 2 Connector Project



Figure 11-5
Substation Layout



New England Wind 2 Connector Project



New England Wind 2 Connector Project