

Empire Offshore Wind LLC

Empire Wind 2 Project  
Article VII Application

**Exhibit 2**  
**Location of Facilities**

June 2022



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**ACRONYMS AND ABBREVIATIONS**

ac	acre
BOEM	Bureau of Ocean Energy Management
CFR	Code of Federal Regulations
EM&CP	Environmental Management & Construction Plan
Empire or the Applicant	Empire Offshore Wind LLC
EW 2	Empire Wind 2
ft	foot
ha	hectare
HDD	horizontal directional drilling
HVAC	High Voltage Alternating Current
km	kilometer
kV	kilovolt
Lease Area	BOEM-designated Renewable Energy Lease Area OCS-A 0512
LIPA	Long Island Power Authority
m	meter
mi	mile
nm	nautical mile
NOAA	National Oceanic and Atmospheric Administration
NYCRR	New York Codes, Rules and Regulations
NYISO	New York Independent System Operator, Inc.
NYSDOT	New York State Department of Transportation
NYSPSC or Commission	New York State Public Service Commission
POI	Point of interconnection at an expansion of the Barrett 138-kV Substation
O&M Base	Operations and Maintenance Base
NY Project	EW 2 Project transmission facilities in New York
PSL	New York Public Service Law
SBMT	South Brooklyn Marine Terminal
USGS	United States Geological Survey



## EXHIBIT 2: LOCATION OF FACILITIES

### 2.1 Introduction

Empire Offshore Wind LLC (Empire or the Applicant) proposes to construct and operate the Empire Wind 2 (EW 2) Project as one of two separate offshore wind projects to be located within the Bureau of Ocean Energy Management (BOEM) designated Renewable Energy Lease Area OCS-A 0512 (Lease Area). The EW 2 Project will require an electric transmission system to connect the offshore wind farm to the point of interconnection (POI) to the New York State Transmission System. An electric transmission line with a design capacity of 125-kilovolt (kV) or more, extending a distance of one mile or more, is subject to review and approval by the New York State Public Service Commission (Commission or NYSPSC) as a major electric transmission facility pursuant to Article VII of the New York Public Service Law (PSL). The EW 2 Project transmission system will extend a total of approximately 12.1 miles (mi) (19.5 kilometers [km]) within the State of New York and includes 230-kV export cable circuits and 345-kV interconnection cable circuits. As such, this application is being submitted to the Commission pursuant to Article VII of the PSL for the portions of the EW 2 Project transmission system that are located within the State of New York (collectively, the NY Project).

The NY Project will interconnect to the New York State Transmission System operated by the New York Independent System Operator, Inc. (NYISO) at the Oceanside POI, located at an expansion of the Barrett 138-kV Substation. The Barrett 138-kV Substation is owned by the Long Island Power Authority (LIPA) and operated by PSEG Long Island (PSEG-LI) and is located in Oceanside in the Town of Hempstead, New York. The NY Project will enter LIPA's substation at 345 kV, where the voltage will be converted to 138 kV within the POI. The onshore portion of the NY Project will be located entirely within Nassau County, New York.

The NY Project includes:

- Three three-core 230-kV high-voltage alternating-current (HVAC) submarine export cables located within an approximately 7.7-nautical mile (nm, 14.2-km)-long submarine export cable corridor from the boundary of New York State waters 3 nm (5.6 km) offshore to the cable landfall;
- A cable landfall in the City of Long Beach, New York;
- Three 230-kV onshore export cable circuits, each with three single-core HVAC onshore export cables within an approximately 1.5-mi (2.4-km)-long onshore export cable corridor from the cable landfall to the onshore substation;
- An onshore substation in the Village of Island Park, within the Town of Hempstead, New York, which will step up the voltage to 345 kV for the onshore interconnection cables; and
- Up to three 345-kV interconnection cable circuits, each with three single-core HVAC interconnection cables within an approximately 1.7-mi (2.8-km)-long interconnection cable corridor from the onshore substation to the POI.

This exhibit addresses the requirements of 16 New York Codes, Rules and Regulations (NYCRR) § 86.3 for the NY Project facilities location, including detailed maps, drawings and explanations showing the right-of-way for the proposed facilities.



## 2.2 General Description of Facility Location

The NY Project components, as described in this section, allow for flexibility for technological development and micro-siting of facilities. Where applicable, the Applicant will provide further detailed micro-siting and facility design within the described parameters as part of the Applicant's Environmental Management & Construction Plan (EM&CP).

### 2.2.1 Empire Wind 2 Project Overview

The Lease Area covers approximately 79,350 acres (ac; 32,112 hectares [ha]) and is located in federal waters approximately 14 mi (12 nm, 22 km)<sup>1</sup> south of Long Island, New York and 19.5 mi (16.9 nm, 31.4 km) east of Long Branch, New Jersey. The Lease Area was awarded through the BOEM competitive renewable energy lease auction of the Wind Energy Area offshore of New York<sup>2</sup> (see **Figure 2.2-1**). Development of the Lease Area is subject to review and approval by BOEM under 30 Code of Federal Regulations (CFR) Part 585. The Applicant is proposing to develop the entire Lease Area in two individual projects, to be known as the Empire Wind 1 and Empire Wind 2 projects. These individual projects will connect to separate offshore substations and onshore POIs by way of separate export cable routes and onshore substations. The Applicant's EW 2 Project, which was awarded a contract for 1,260 MW as a result of New York State's second competitive offshore wind solicitation, is the subject of this application to the Commission, and will occupy a portion of the Lease Area.

In addition to the Article VII components listed in Section 2.1, the EW 2 Project, which includes the area outside of New York State, will include offshore wind turbines, supporting structures and foundations, interarray cables, and one offshore substation, located within the Lease Area, on the Outer Continental Shelf in federal waters. The submarine export cable route from the Lease Area to the cable landfall is approximately 26 nm (48 km), of which approximately 18 nm (33 km) is in federal waters, and 7.7 nm (14.2 km) is in New York State waters.

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<sup>1</sup> Distances throughout the application are provided as statute miles (mi) or nautical miles (nm) as appropriate, with kilometers (km) in parentheses. For reference, 1 mi equals approximately 0.87 nm or 1.6 km.

<sup>2</sup> On December 15-16, 2016, the lease sale for an area offshore New York, or the "New York Lease Area" was held by BOEM, pursuant to 30 CFR § 585.211. Statoil Wind US LLC (subsequently renamed to Equinor Wind US LLC) was the winner of Lease Area OCS-A 0512. The Commercial Lease of Submerged Lands for Renewable Energy Development on the Outer Continental Shelf OCS-A 0512 (Lease) for 79,350 ac (32,112 ha) went into effect on April 1, 2017. Following issuance of the Lease, Equinor Wind began to conduct comprehensive desktop studies of the environmental resources found within the Lease Area and requested a 12-month extension of the Preliminary Term of the Lease from BOEM on October 10, 2017. BOEM approved the request on November 13, 2017, extending the Preliminary Term from April 1, 2018 to April 1, 2019. On May 16, 2018, Statoil Wind US LLC changed its name to Equinor Wind US LLC. Equinor Wind US LLC assigned the Lease to Empire Offshore Wind LLC on January 27, 2021 in accordance with BOEM's requirements.



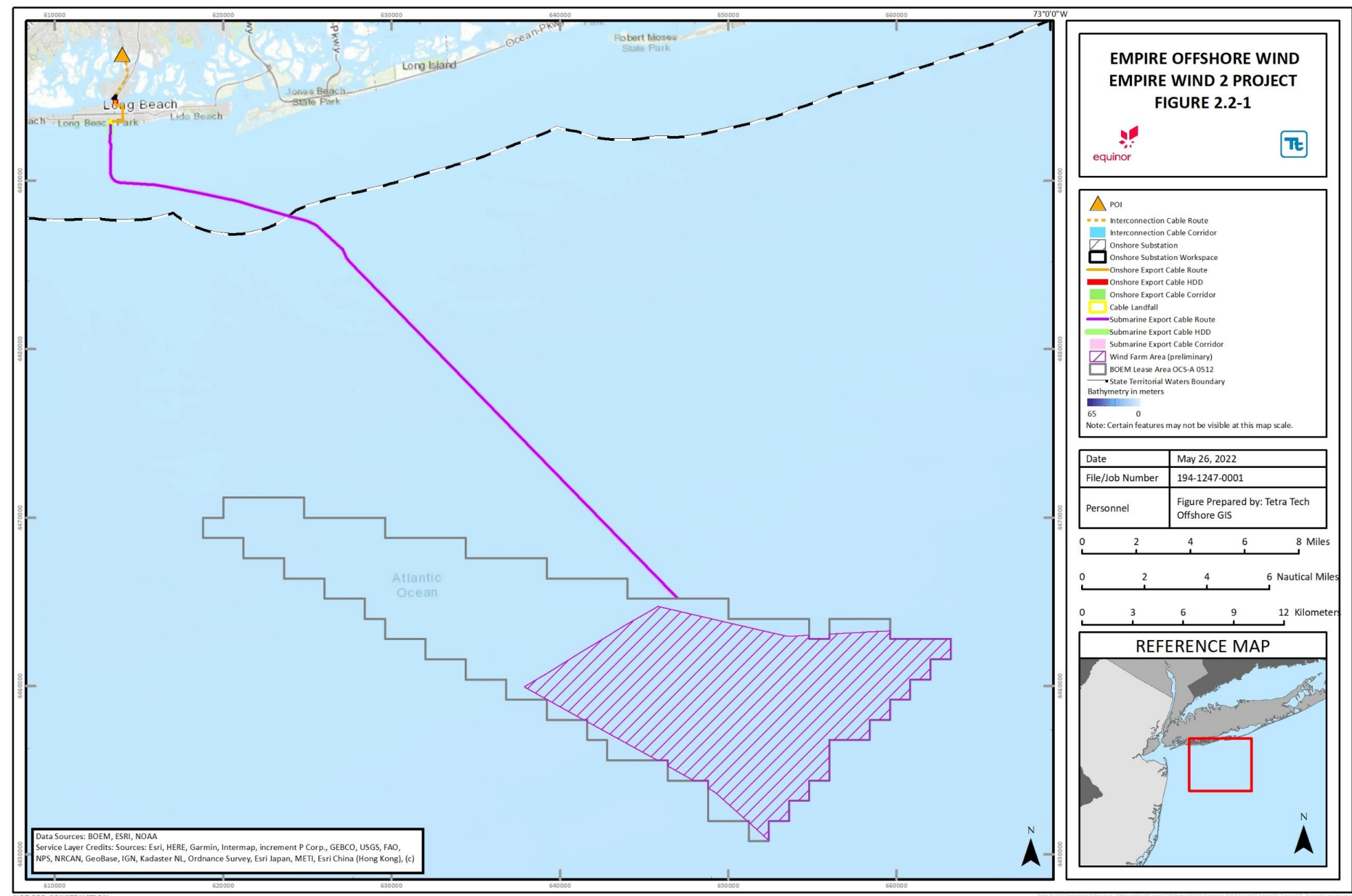


Figure 2.2-1 Overview of the EW 2 Project Location



The EW 2 Project will also utilize an operations and maintenance base (O&M Base) supporting the offshore wind farm. This O&M Base will remotely monitor and control operations and include offices and warehouse space.

This application is being submitted pursuant to Article VII of the PSL for the portions of the EW 2 Project transmission facilities within the State of New York. The offshore facilities associated with the EW 2 Project that will be located within federal waters and the onshore O&M Base supporting the facilities in federal waters are not the subject of this application; where described, they are included only to provide contextual information. The following subsections provide a description of the location of the New York transmission facilities subject to Article VII, and mapping in accordance with the requirements of 16 NYCRR § 86.3.

### 2.2.2 New York Submarine Export Cable Route

From the Lease Area, three 230-kV submarine export cables will be installed within a single cable corridor that runs northwest traversing the New York Bight towards Long Island (see **Figure 2.2-1**). The NY Project cable corridor for this application begins where the submarine export cable route crosses the state boundary 3 nm (3.5 mi, 5.6 km) offshore, which occurs approximately 3 nm (3.5 mi, 6.2 km) directly south of Jones Beach in western Long Island. After crossing the New York State boundary, the submarine cable route continues northwest to Long Beach Island, where it makes landfall in the City of Long Beach, New York.

The submarine export cable corridor (also called the submarine export cable siting corridor) is approximately 7.7 nm (8.8 mi, 14.2 km) in length from the New York State waters boundary offshore to the cable landfall. The Applicant requests that the submarine export cable corridor be certified as approximately 900 feet (ft 274 meters [m]) wide, as depicted in **Figure 2.2-2**, **Figure 2.2-3**, and **Figure 2.2-4** (provided at end of this Exhibit), to allow the Applicant flexibility to micro-site the cables based on any additional environmental and seabed conditions identified as the result of Applicant's continuing assessment of the cable route prior to installation. The Applicant will provide further route micro-siting of the export cable siting corridor as part of the Applicant's EM&CP.

In addition, a width of up to 1,250 ft (381 m) on either side of the submarine export cable corridor may be used for anchoring of the submarine export cable installation vessel(s) in support of installation activities. This anchoring corridor width may increase or decrease where site constraints exist.

Within the submarine export cable corridor, the three three-core 230-kV submarine export cables are anticipated to be spaced from approximately 33 to 300 ft (10 to 91 m) apart in New York State waters; however, final cable spacing may vary based on seafloor conditions and seabed constraints. Except in certain areas where specialized methods may be required, such as dredging or pre-sweeping (see **Exhibit E-3: Underground Construction**), the maximum direct seabed disturbance for cable installation within the submarine export cable corridor will be typically limited to a width of approximately 33 ft (10 m) per cable, which includes the approximately 5-ft (1.5-m) width bottom of the cable trench, and an additional area where the cable burial tool may be in direct contact with the seabed and where temporary sediment side-cast or removal may occur.

The submarine export cable route has been designed to avoid federally designated anchorages or channels (see offshore constraints analysis in **Exhibit 3: Alternatives**). Approaching the cable landfall, the submarine export cable route has been designed to avoid an identified Sand Resource Area and to minimize existing cable and pipeline crossings. To account for routing constraints in and around this area, several route alternatives were considered, which are described in **Exhibit 3**.



Known or possible active and out-of-service utility corridors crossed by the submarine export cable route are depicted in **Figure 2.2-5**.

### 2.2.3 Cable Landfall

The NY Project's export cable route will make landfall in the City of Long Beach, New York, within the public right-of-way at Riverside Boulevard and an adjacent vacant parcel. The Applicant is proposing a trenchless horizontal directional drill (HDD) installation method for the cable landfall (see **Exhibit 5: Design Drawings** for conceptual cable landfall drawings). **Exhibit E-3** provides additional information on cable landfall installation methodology and associated activities. To support the installation of the cable landfall, both onshore and offshore work areas are required. The offshore exit location may require some seafloor preparation, installation of goal posts and/or installation or excavation (wet or dry) of a cofferdam. The entry side staging area is required to locate equipment necessary for the installation. In total, the proposed cable landfall area at Riverside Boulevard in the City of Long Beach is approximately 2.4 acres (1.0 ha).

In addition, the cable landfall may require an additional temporary staging area to stage and fabricate conduit strings that will be transported to the offshore side of the cable landfall (see **Exhibit E-3**); the location of the temporary staging area is currently under evaluation by the Applicant.

### 2.2.4 Onshore Export Cable Route

At the cable landfall, the submarine export cables will transition to the onshore export cables at jointing locations, and the onshore export cables will extend north for approximately 1.5 mi (2.4 km) to the onshore substation.

From the cable landfall in the City of Long Beach, the onshore export cables will traverse east along E Broadway. From there, the onshore export cables will turn north onto Lincoln Boulevard. From Lincoln Boulevard, the onshore export cables will continue north until E Harrison Street, and then turn west. The onshore export cables will then cross perpendicular to Long Beach Boulevard and turn north onto Long Beach Road, to the crossing at Reynolds Channel. On the north side of Reynolds Channel, the onshore export cables will enter the onshore substation in the Village of Island Park, New York. The installation corridor for the onshore export cables will be up to approximately 150 ft (46 m) wide. The permanent operational corridor for the onshore export cables will be 25 ft (8 m) wide.

### 2.2.5 Onshore Substation

The proposed onshore substation will occupy an approximately 5.2-acre (ac) (2.1-hectare [ha]) site located at 15 Railroad Place in Island Park, New York. An additional area of approximately 0.2 acres (0.1 hectares) immediately adjacent to the site will be used temporarily during construction. One of the parcels that comprises the site is owned by the Applicant; the other is privately owned and is currently under commercial land use.

The onshore substation will facilitate the connection of the power generated by the offshore wind farm into the Oceanside POI at an expansion of the Barrett 138-kV Substation, which is owned by LIPA<sup>3</sup>, in accordance with electric grid interconnection standards. The onshore substation will house the major control components

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<sup>3</sup> The Applicant understands that LIPA plans to expand its existing Barrett 138-kV Substation onto a property located at the corner of Daly Boulevard and Hampton Road, in Oceanside, New York, to provide additional interconnection facilities. The Applicant's interconnection cable route ends at the fence line of LIPA's substation. The interconnection cables will enter LIPA's substation at 345 kV, where the voltage will be stepped down to 138 kV within the interconnection substation.



for the electrical system and will provide voltage regulation and the step up from 230 kV to 345 kV, reactive power compensation, and harmonic filtering. In addition, the onshore substation will have operator stations and network equipment to control and monitor systems for the offshore Empire Wind 2 Project (the primary control room will be located at the Applicant's offsite O&M Base in Brooklyn, NY).

Additional details on the onshore substation facility are provided in the onshore substation design drawings in **Exhibit 5**, and **Exhibit E-2: Other Facilities**.

### 2.2.6 Interconnection Cable Route

From the onshore substation, the interconnection cable route will extend north to the POI for approximately 1.7 mi (2.8 km). The interconnection cable route will parallel the east side of the Long Island Rail Road (LIRR) corridor and traverse the parking lot of the LIRR Island Park Station north of Long Beach Road. To the north of the Island Park Station, the route will cross to the west side of the LIRR and parallel the LIRR right-of-way to Parente Lane. The interconnection cable route will then continue north onto D'Amato Drive and cross Long Beach Road. The route will then immediately turn north on North Nassau Lane. At the end of North Nassau Lane, the interconnection cables will continue north across private property and continue along or adjacent to the west side of the LIRR corridor. The proposed interconnection cable route crosses Barnums Channel for approximately 300 ft (91 m) on the west side of the LIRR bridge. At the north end of the interconnection cable route, the route crosses Daly Boulevard, in Oceanside, before entering the POI.

The installation corridor for the interconnection cables will be up to approximately 100 ft (30 m) wide. The permanent operational corridor for the onshore export cables will be 25 ft (8 m) wide.

### 2.2.7 Port Facilities and Construction Staging Areas

Construction activities for the Empire Wind 1 and Empire Wind 2 Projects will utilize the designated areas at the South Brooklyn Marine Terminal (SBMT), in Brooklyn, New York for construction workspace and materials storage required for installation of the offshore wind farm. Mobilization and demobilization of the NY Project submarine export cable installation and trenching vessels, material storage, staging, and loading/unloading are anticipated to be based out of the cable supplier's factory site, with the submarine export cable installation vessels transiting directly to and from the cable installation corridor. However, supply vessels and crew transfer vessels may operate from local ports, including SBMT, to supply the cable installation vessel and associated support vessels.

If required, other nearby parcels to the NY Project may also be used for vehicle parking, work trailers, cable and equipment storage, storage and management of excavated soil, construction equipment, and temporary material storage. Details on any additional staging and laydown areas necessary for construction of the NY Project, if applicable, will be provided within the Applicant's EM&CP.

## 2.3 Description of Location Maps

A general overview of the EW 2 Project is provided in **Figure 2.2-1**. Because the New York State Department of Transportation (NYSDOT) mapping was determined not to provide sufficient detail to depict features of the area surrounding the NY Project, **Figures 2.2-2** and **2.2-3** provide details of the NY Project facilities on United States Geological Survey (USGS) topographic mapping at 1:100,000 and 1:24,000 scales, respectively. To address the mapping requirements of 16 NYCRR § 86.3, **Figure 2.2-4** provides the NY Project facilities on NYSDOT 1:24,000 raster mapping. NYSDOT 1:250,000 scale maps are not available for this area; the Applicant is therefore requesting a waiver from the requirement to use NYSDOT mapping for these figures.



The USGS 1:24,000 and 1:100,000 scale topographic maps and NYSDOT 1:24,000 raster mapping provide all of the information required by 16 NYCRR § 86.3(a)(1), but with greater clarity.

Nearby, crossing and connecting rights-of-way or facilities of existing utilities are provided on USGS 1:100,000 scaled topographic mapping in **Figure 2.2-5**; this figure depicts Ventyx utilities data onshore. Offshore, **Figure 2.2-5** depicts right-of-way crossing information from the Applicant's direct outreach to potential asset owners along the submarine export cable corridor. NYSDOT 1:250,000 scale maps are not available for this area; therefore, the Applicant is requesting a waiver from the requirement to use NYSDOT mapping for this figure. The point of connection between existing and proposed facilities is at the POI, which is also shown on **Figure 2.2-5**. **Figure 2.2-5** shows the proposed facility in conjunction with other components of the existing systems, and provides the information required by 16 NYCRR § 86.3(a)(2)(i)-(iv), using more recently updated maps obtained through the USGS. **Figure 2.3-1** provides NY Project details on NOAA charts.

**Figures 2.2-2, 2.2-3, 2.2-4 and 2.3-1** provide an area of at least five miles on either side of the proposed facilities in New York State. Survey control points are shown in **Figure 2.2-3**. **Figures 2.2-2, 2.2-3, 2.2-4, 2.3-1 and 2.3-2** also include the submarine export cable corridor, onshore export and interconnection cable corridors, and onshore substation site, including the temporary construction limits and the facility limits. With the exception of bathymetric changes that may be associated with certain submarine export cable installation activities (further described in **Exhibit E-3**), changes to topography, vegetation or existing structures resulting from NY Project activities are expected to be limited to the onshore substation site indicated on the figures. Vegetation will be temporarily cleared along the onshore export and interconnection cable corridors, where present, during construction activities. Additional detail on the proposed facilities is provided in **Exhibit E-1: Description of Proposed Transmission Line, Exhibit E-2, Exhibit E-3, and Exhibit 5**.

**Figures 2.2-2, 2.2-3, 2.2-4 and 2.3-1** also show the known archaeologic, geologic, historical or scenic areas, parks, or untouched wildernesses within or within five miles of the NY Project, if present, as compiled from the following publicly available data sources: Federal Lands New York (New York State Office of Cyber Security and Critical Infrastructure Coordination 2005), ESRI digital data for railroads and local parks, New York State Department of Environmental Conservation Lands and Campgrounds (NYSDEC 2018), National Register of Historic Places Public Dataset special data (National Park Service 2014)<sup>4</sup>, Significant Coastal Fish and Wildlife Habitat (NYSDOS 1998), Wrecks and Obstructions Database (NOAA 2020), Critical Environmental Areas in New York (NYSDEC 2015), Significant Natural Community Occurrences – Long Island & NYC (NYSDEC 2011), and Scenic Areas of Statewide Significance (NYSDOS 2014).

Color aerial photographs (dated March 2021) depicting at least 1,200 ft (366 m) on either side of the offshore and onshore cable routes are provided in **Figure 2.3-2**, including the proposed cable corridors, the onshore substation, and overlays of NY Project facilities. Aerial imagery is from Maxar Technologies via ESRI streaming data. Although aerial photographs were taken more than six months prior to the date of filing, they represent the current conditions of the area within and surrounding the NY Project; therefore, the Applicant is requesting a waiver from the requirement that aerial photography be dated six months or less before the application.

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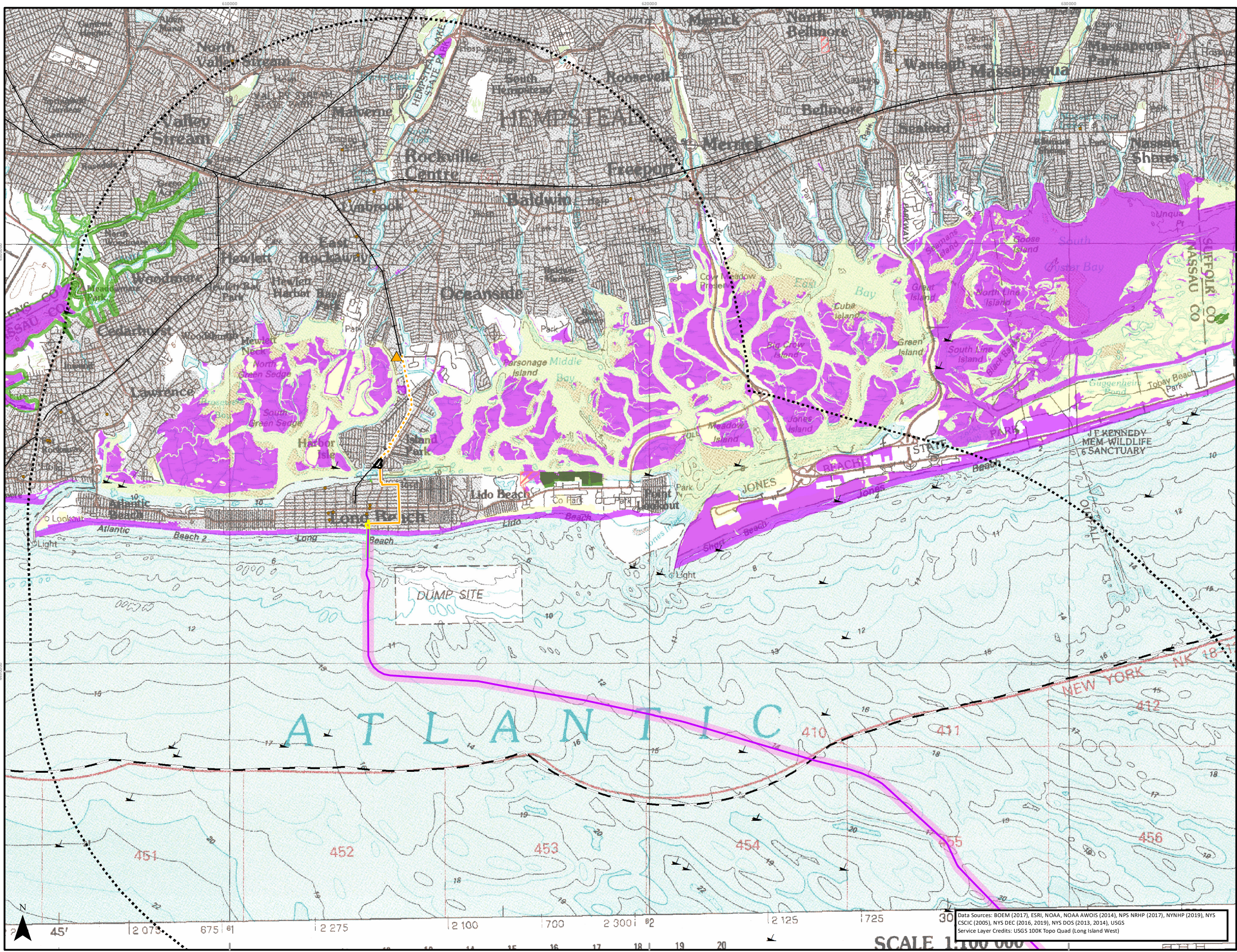
<sup>4</sup> Jones Beach State Park, Causeway and Parkway System is not shown, due to inaccuracy of the dataset; however, this area does not overlap the NY Project.



## 2.4 References

- National Park Service. 2014. National Register of Historic Places. National Register properties are located throughout the United States and their associated territories around the globe. Available online at: <https://www.nps.gov/subjects/nationalregister/data-downloads.htm>.
- NYSDEC (New York State Department of Environmental Conservation). 2011. Significant Natural Community Occurrences - Long Island & NYC - KML/KMZ Format. Available online at: <http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=1241>.
- NYSDEC. 2015. Critical Environmental Areas of New York. Available online at: <https://gis.ny.gov/gisdata/inventories/details.cfm?DSID=1330>.
- NYSDEC. 2018. DEC Lands and Campgrounds. Available online at: <http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=1114>.
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- NOAA (National Oceanographic and Atmospheric Administration). 2020. Automated Wrecks and Obstruction Information System. Available online at: <https://nauticalcharts.noaa.gov/data/wrecks-and-obstructions.html>.





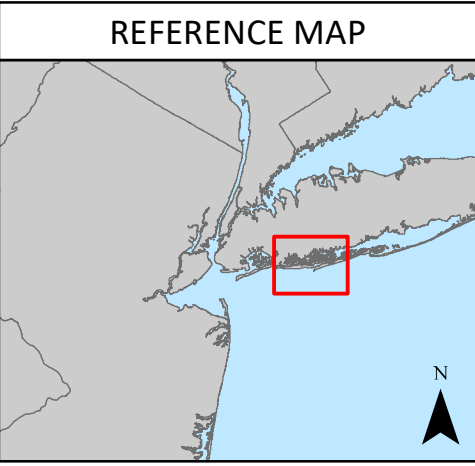
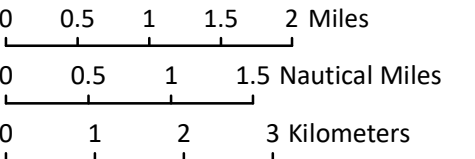
# EMPIRE OFFSHORE WIND EMPIRE WIND 2 PROJECT FIGURE 2.2-2



- POI
- Interconnection Cable Route
- Interconnection Cable Corridor
- Onshore Substation
- Onshore Substation Workspace
- Onshore Export Cable Route
- Onshore Export Cable HDD
- Onshore Export Cable Corridor
- Cable Landfall
- Submarine Export Cable Route
- Submarine Export Cable HDD
- Submarine Export Cable Corridor
- 5-mile Buffer
- Shipwreck
- Railroad
- Critical Environmental Area
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- Federal Land
- NYSDEC Land
- NRHP Site
- State Territorial Waters Boundary

Note: Certain features may not be visible at this map scale. The background image is not representative for the location of the state boundary. The proposed submarine export cable siting corridor will be entirely within New York State waters.

Date	5/31/2022
File/Job Number	194-1247-0001
Personnel	Figure Prepared by: Tetra Tech Offshore GIS



Data Sources: BOEM (2017), ESR, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
Service Layer Credits: USGS 100K Topo Quad (Long Island West)



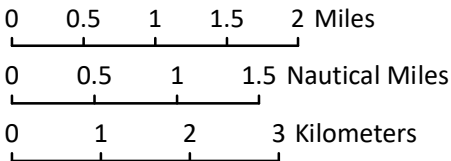
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-3



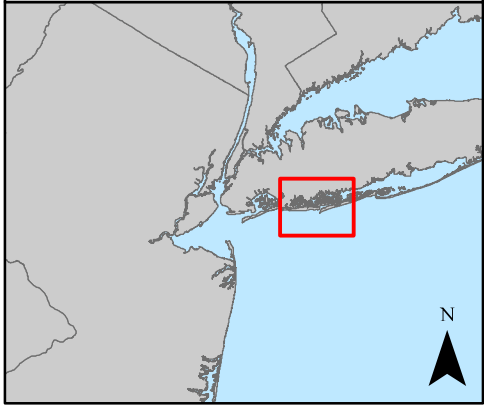
- POI
- Interconnection Cable Route
- Interconnection Cable Corridor
- Onshore Substation
- Onshore Substation Workspace
- Onshore Export Cable Route
- Onshore Export Cable HDD
- Onshore Export Cable Corridor
- Cable Landfall
- Submarine Export Cable Route
- Submarine Export Cable HDD
- Submarine Export Cable Corridor
- 5-mile Buffer
- Shipwreck
- Railroad
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Note: Certain features may not be visible at this map scale. The background image is not representative for the location of the state boundary. The proposed submarine export cable siting corridor will be entirely within New York State waters.

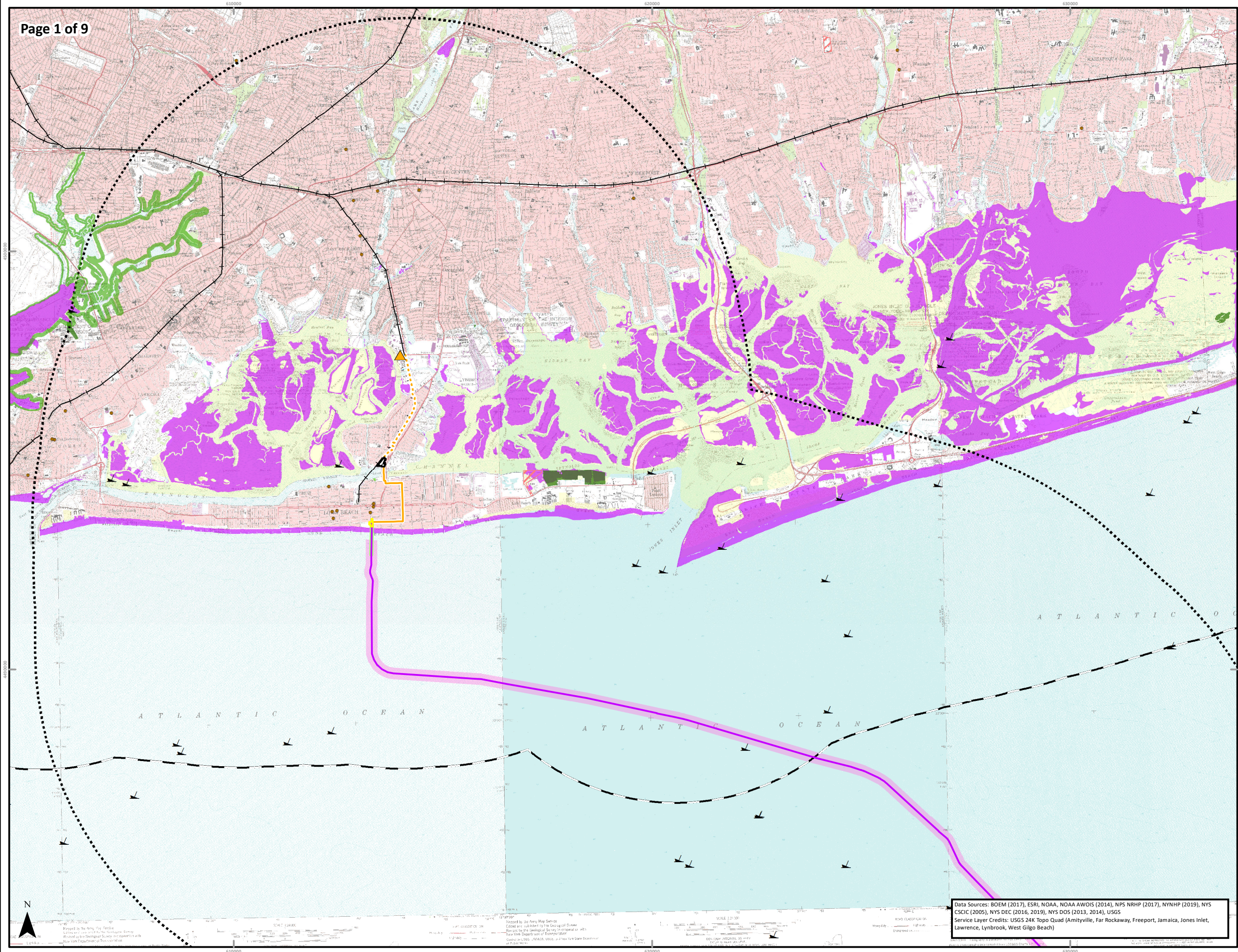
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File/Job Number	194-1247-0001
Personnel	Figure Prepared by: Tetra Tech Offshore GIS



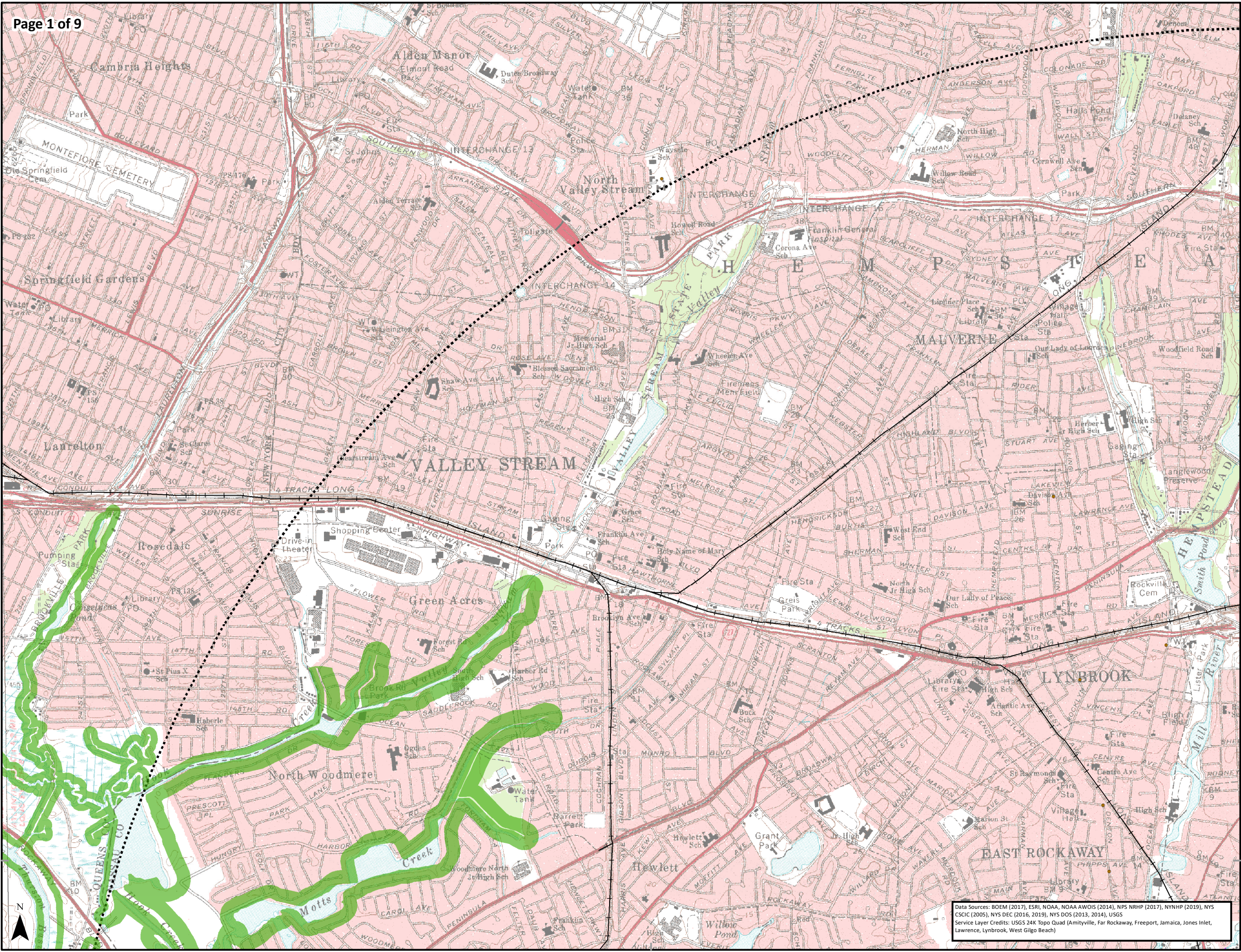
REFERENCE MAP



Data Sources: BOEM (2017), ESRI, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
Service Layer Credits: USGS 24K Topo Quad (Amityville, Far Rockaway, Freeport, Jamaica, Jones Inlet, Lawrence, Lynbrook, West Gilgo Beach)







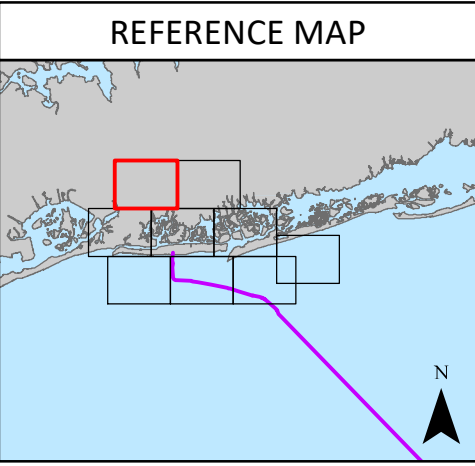
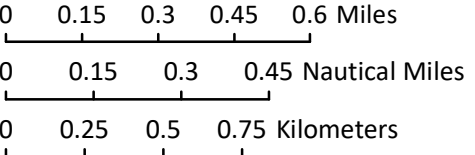
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-3



- 5-mile Buffer
- Railroad
- Critical Environmental Area
- Natural Heritage Community Occurrence
- NRHP Site

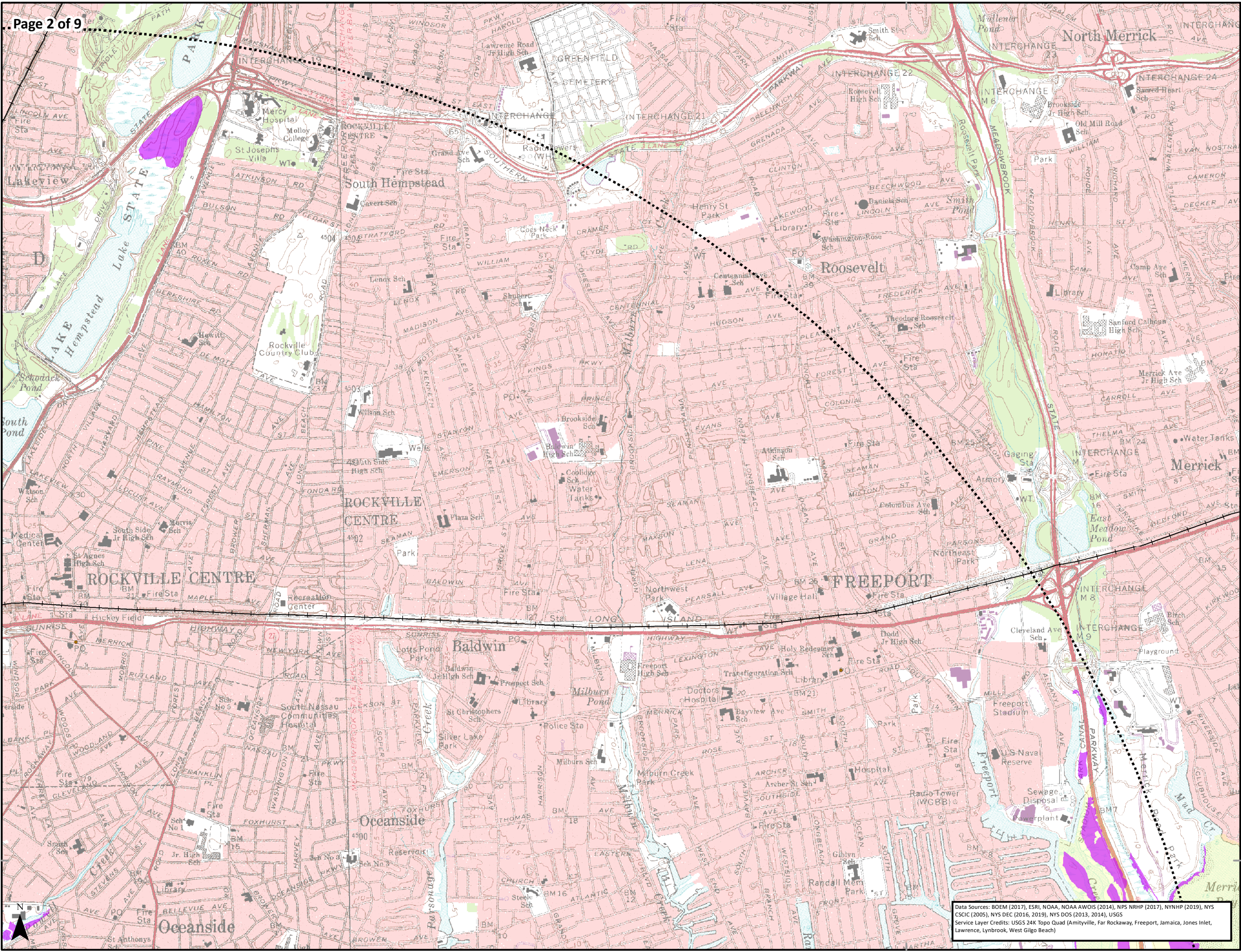
Note: Certain features may not be visible at this map scale. The background image is not representative for the location of the state boundary. The proposed submarine export cable siting corridor will be entirely within New York State waters.

Date	5/26/2022
File/Job Number	194-1247-0001
Personnel	Figure Prepared by: Tetra Tech Offshore GIS



Data Sources: BOEM (2017), ESRI, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
Service Layer Credits: USGS 24K Topo Quad (Amityville, Far Rockaway, Freeport, Jamaica, Jones Inlet, Lawrence, Lynbrook, West Gilgo Beach)





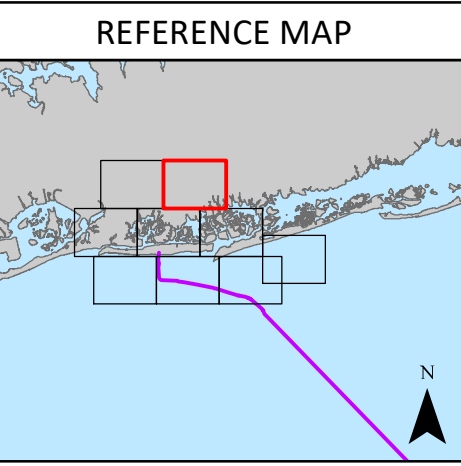
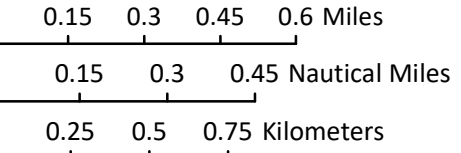
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-3



- 5-mile Buffer
- Railroad
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- NRHP Site

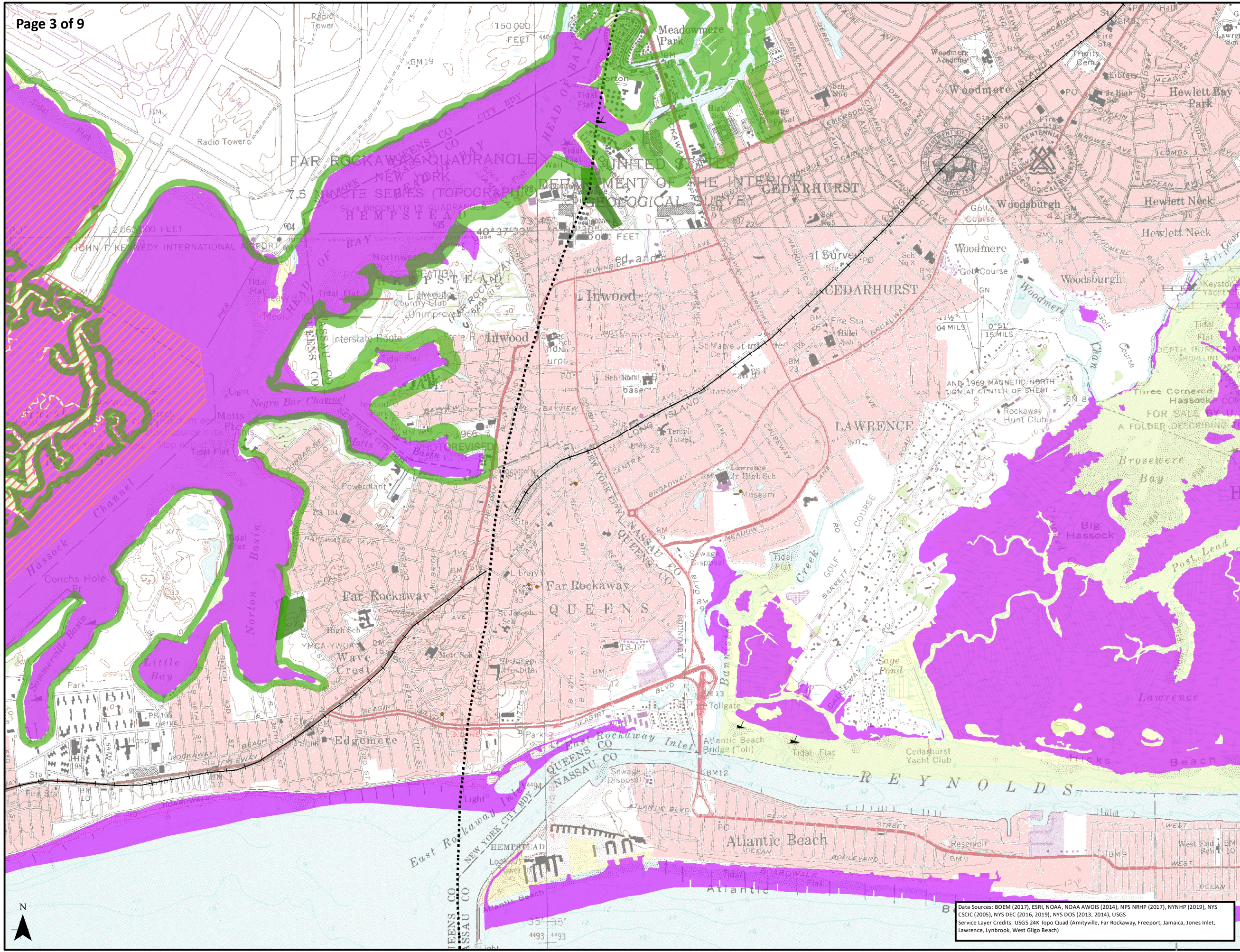
Note: Certain features may not be visible at this map scale. The background image is not representative for the location of the state boundary. The proposed submarine export cable siting corridor will be entirely within New York State waters.

Date	5/26/2022
File/Job Number	194-1247-0001
Personnel	Figure Prepared by: Tetra Tech Offshore GIS



Data Sources: BOEM (2017), ESRI, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
Service Layer Credits: USGS 24K Topo Quad (Amityville, Far Rockaway, Freeport, Jamaica, Jones Inlet, Lawrence, Lynbrook, West Gilgo Beach)





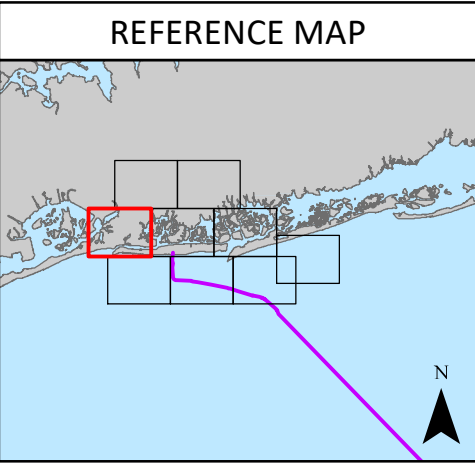
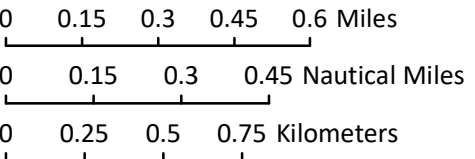
# EMPIRE OFFSHORE WIND EMPIRE WIND 2 PROJECT FIGURE 2.2-3



- 5-mile Buffer
- Shipwreck
- Railroad
- Critical Environmental Area
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- Federal Land
- NYSDEC Land
- NRHP Site

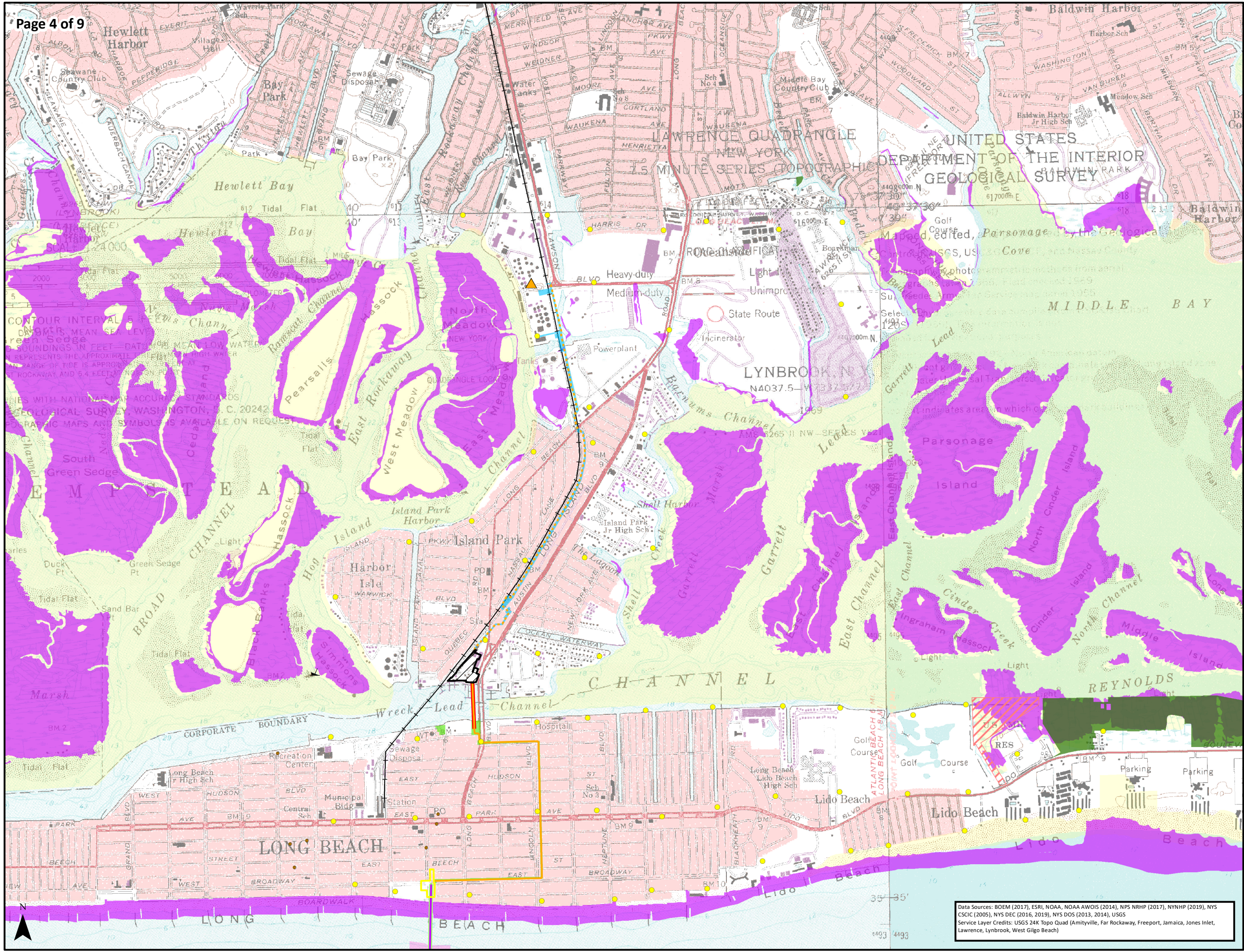
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Service Layer Credits: USGS 24K Topo Quad (Amityville, Far Rockaway, Freeport, Jamaica, Jones Inlet, Lawrence, Lynbrook, West Gilgo Beach)





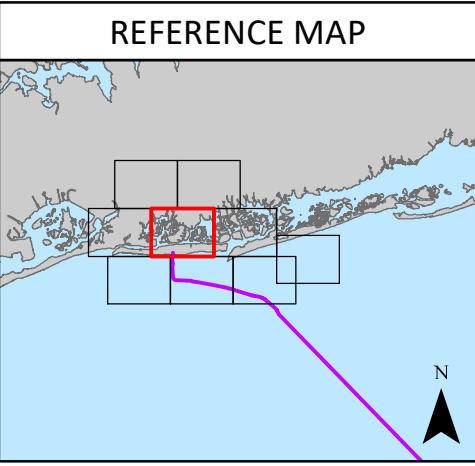
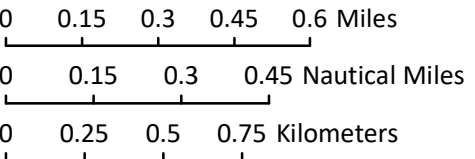
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-3



- Survey Control Point
- POI
- Interconnection Cable Route
- Interconnection Cable Corridor
- Onshore Substation
- Onshore Substation Workspace
- Onshore Export Cable Route
- Onshore Export Cable HDD
- Onshore Export Cable Corridor
- Cable Landfall
- Submarine Export Cable Route
- Submarine Export Cable HDD
- Submarine Export Cable Corridor
- 5-mile Buffer
- Shipwreck
- Railroad
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- Federal Land
- NYSDEC Land
- NRHP Site

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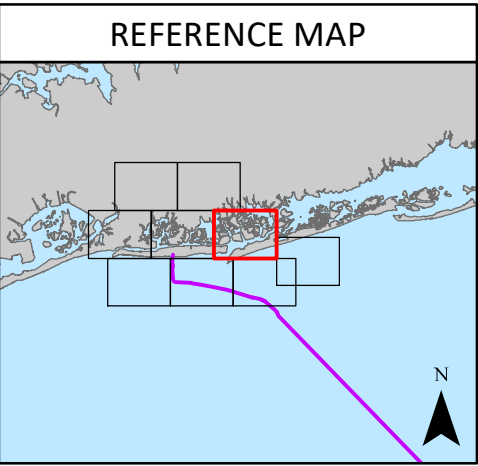
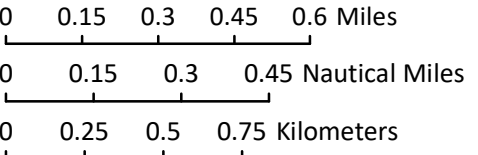
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-3



- 5-mile Buffer
- Shipwreck
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- NYSDEC Land

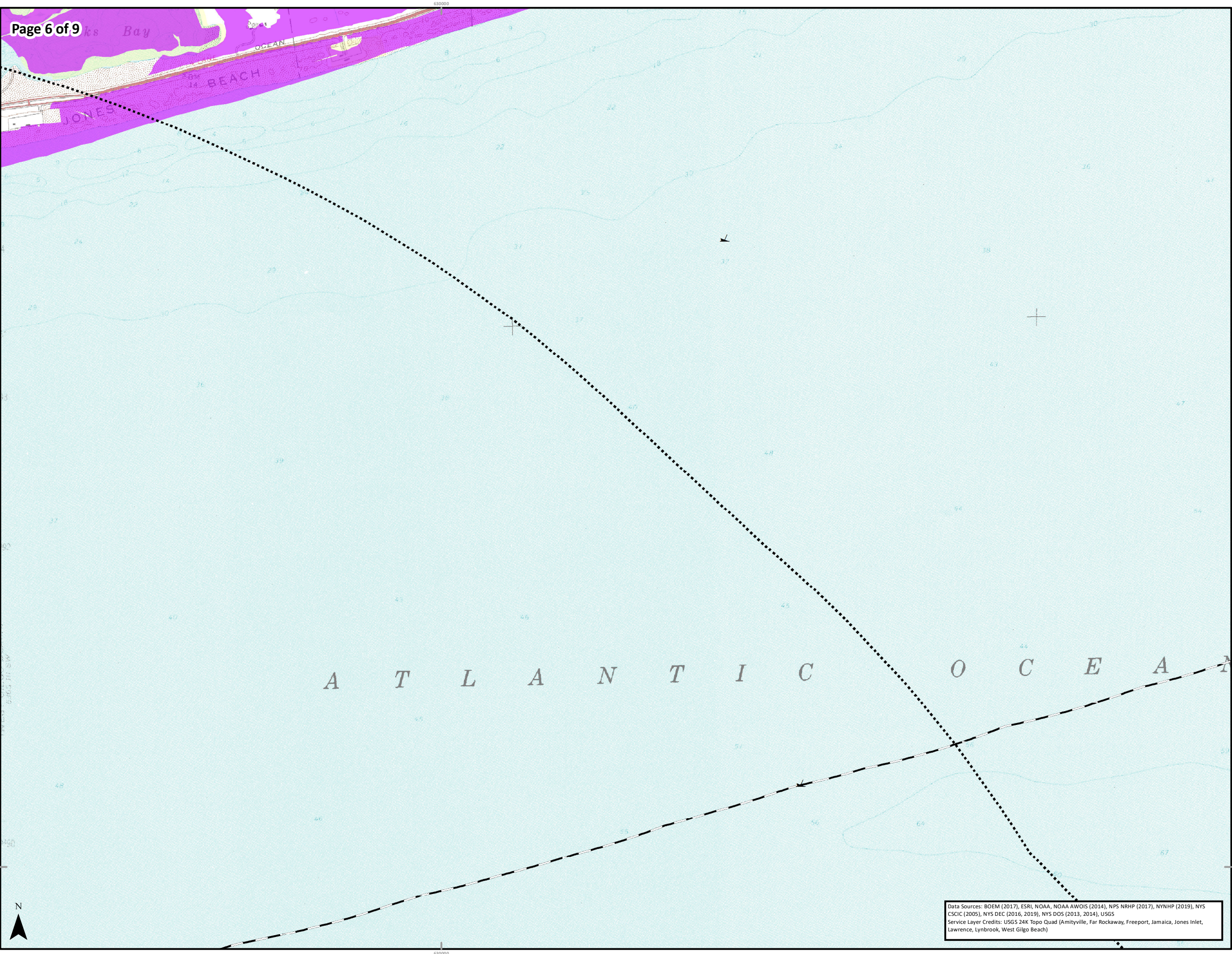
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Data Sources: BOEM (2017), ESRI, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
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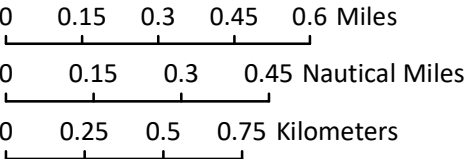
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-3



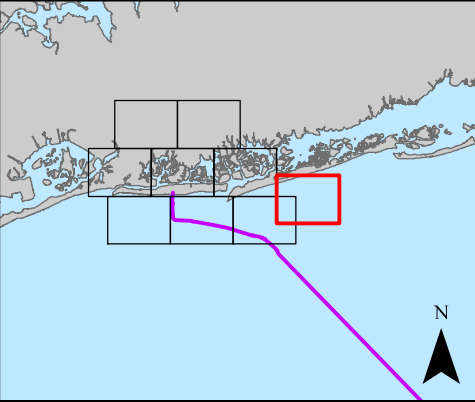
- 5-mile Buffer
- Shipwreck
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- State Territorial Waters Boundary

Note: Certain features may not be visible at this map scale. The background image is not representative for the location of the state boundary. The proposed submarine export cable siting corridor will be entirely within New York State waters.

Date	5/26/2022
File/Job Number	194-1247-0001
Personnel	Figure Prepared by: Tetra Tech Offshore GIS

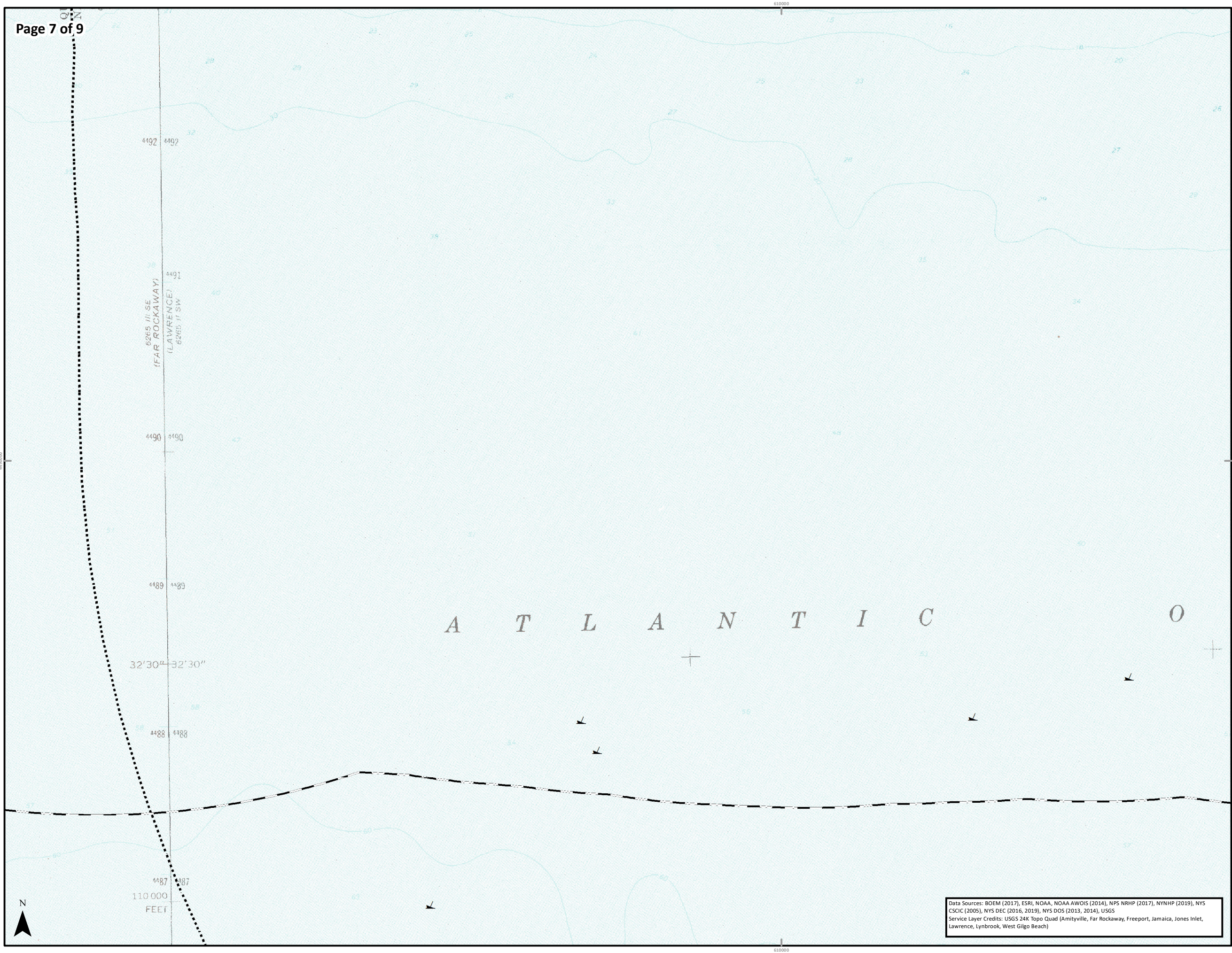


REFERENCE MAP



Data Sources: BOEM (2017), ESRI, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
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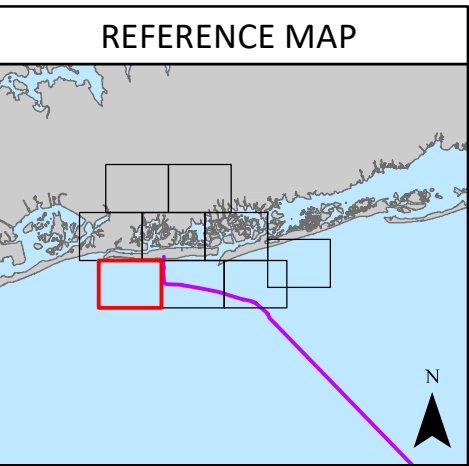
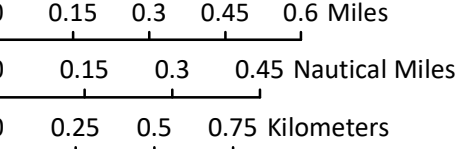
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-3



- 5-mile Buffer
- Shipwreck
- State Territorial Waters Boundary

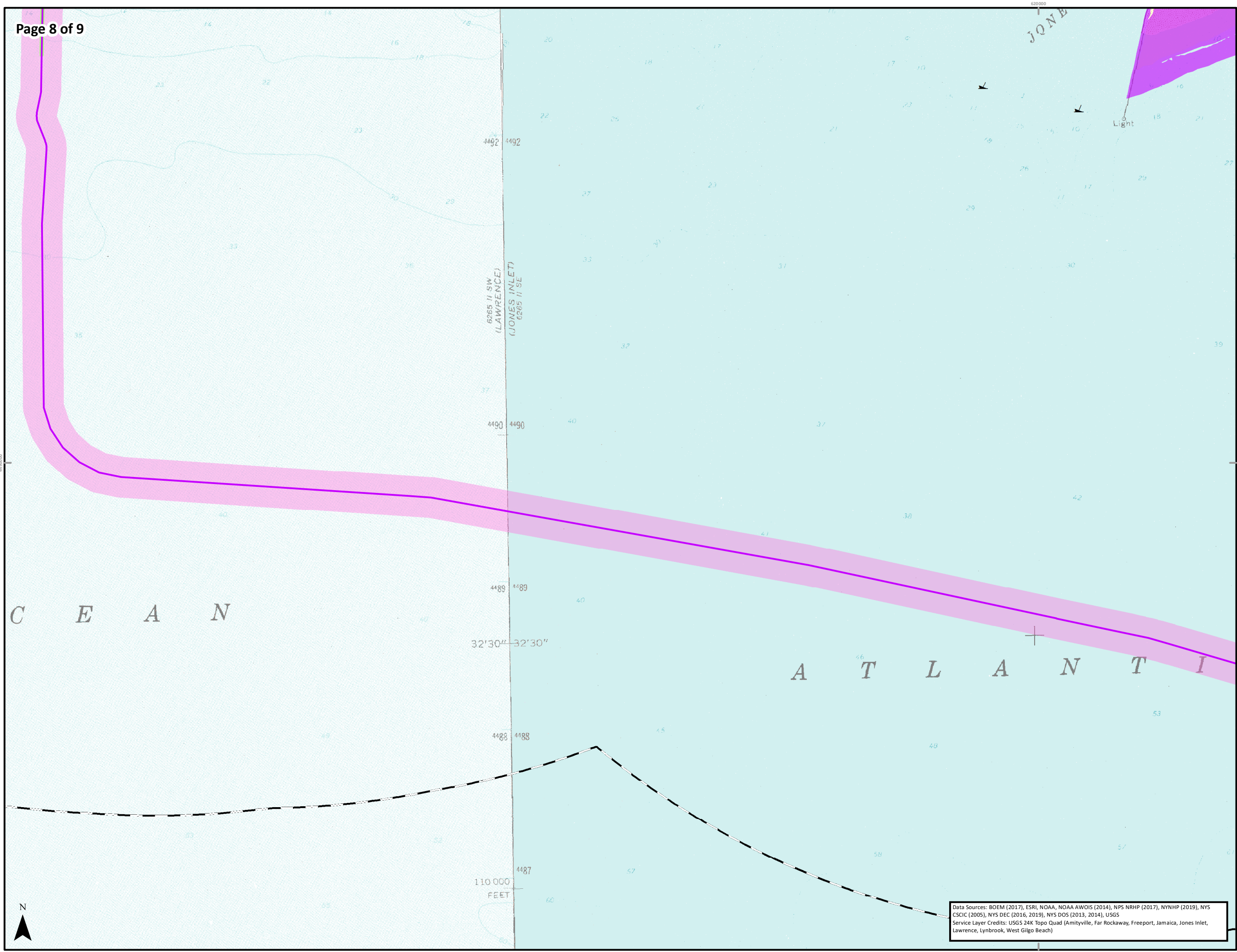
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Date	5/26/2022
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Personnel	Figure Prepared by: Tetra Tech Offshore GIS



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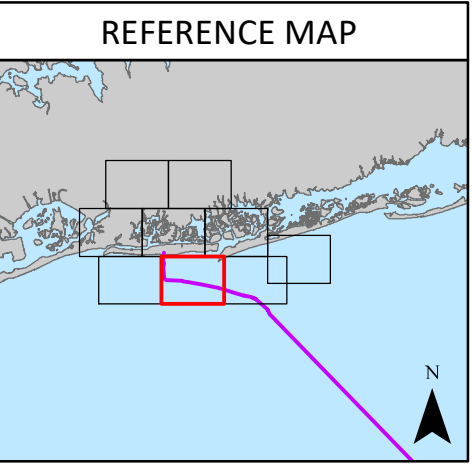
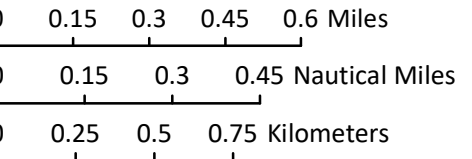
# EMPIRE OFFSHORE WIND EMPIRE WIND 2 PROJECT FIGURE 2.2-3



- Submarine Export Cable Route
- Submarine Export Cable HDD
- Submarine Export Cable Corridor
- 5-mile Buffer
- Shipwreck
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- State Territorial Waters Boundary

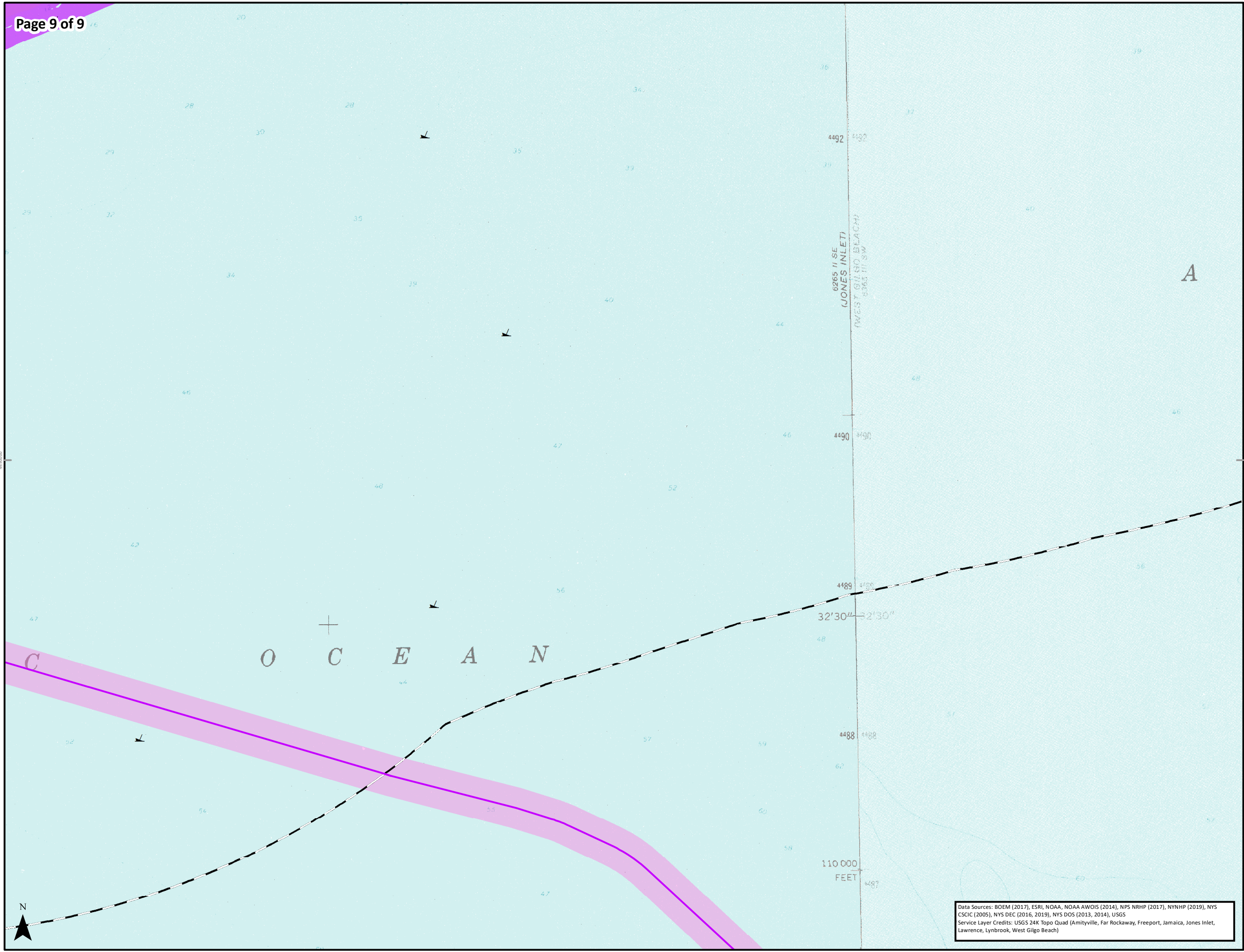
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Date	5/26/2022
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Personnel	Figure Prepared by: Tetra Tech Offshore GIS



Data Sources: BOEM (2017), ESRI, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
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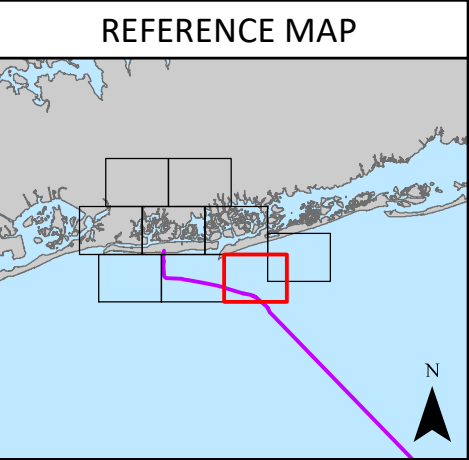
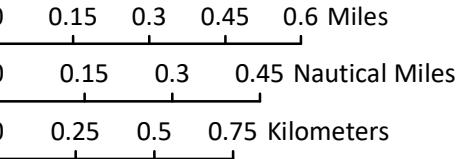
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-3



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- 5-mile Buffer
- Shipwreck
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- State Territorial Waters Boundary

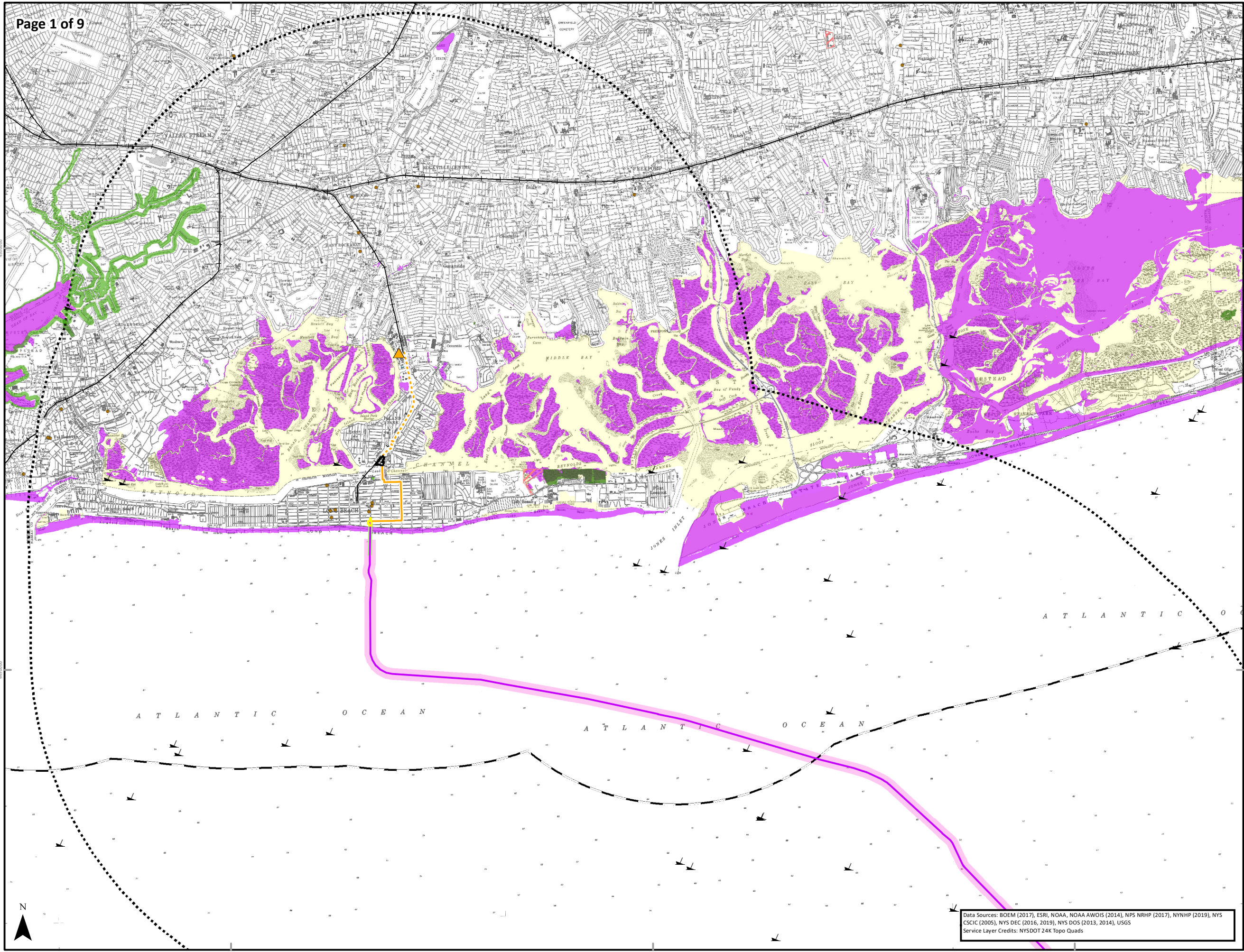
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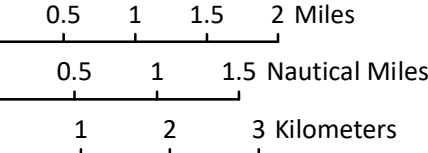
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-4



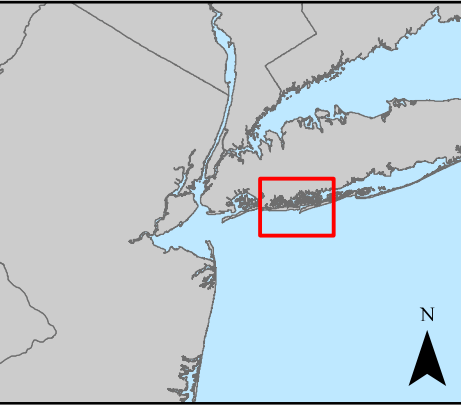
- ▲ POI
- Interconnection Cable Corridor
- Interconnection Cable Route
- Onshore Substation
- Onshore Substation Workspace
- Onshore Export Cable Route
- Onshore Export Cable HDD
- Onshore Export Cable Corridor
- Cable Landfall
- Submarine Export Cable Route
- Submarine Export Cable HDD
- Submarine Export Cable Corridor
- 5-mile Buffer
- Shipwreck
- Railroad
- Critical Environmental Area
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- Federal Land
- NYSDEC Land
- NRHP Site
- State Territorial Waters Boundary

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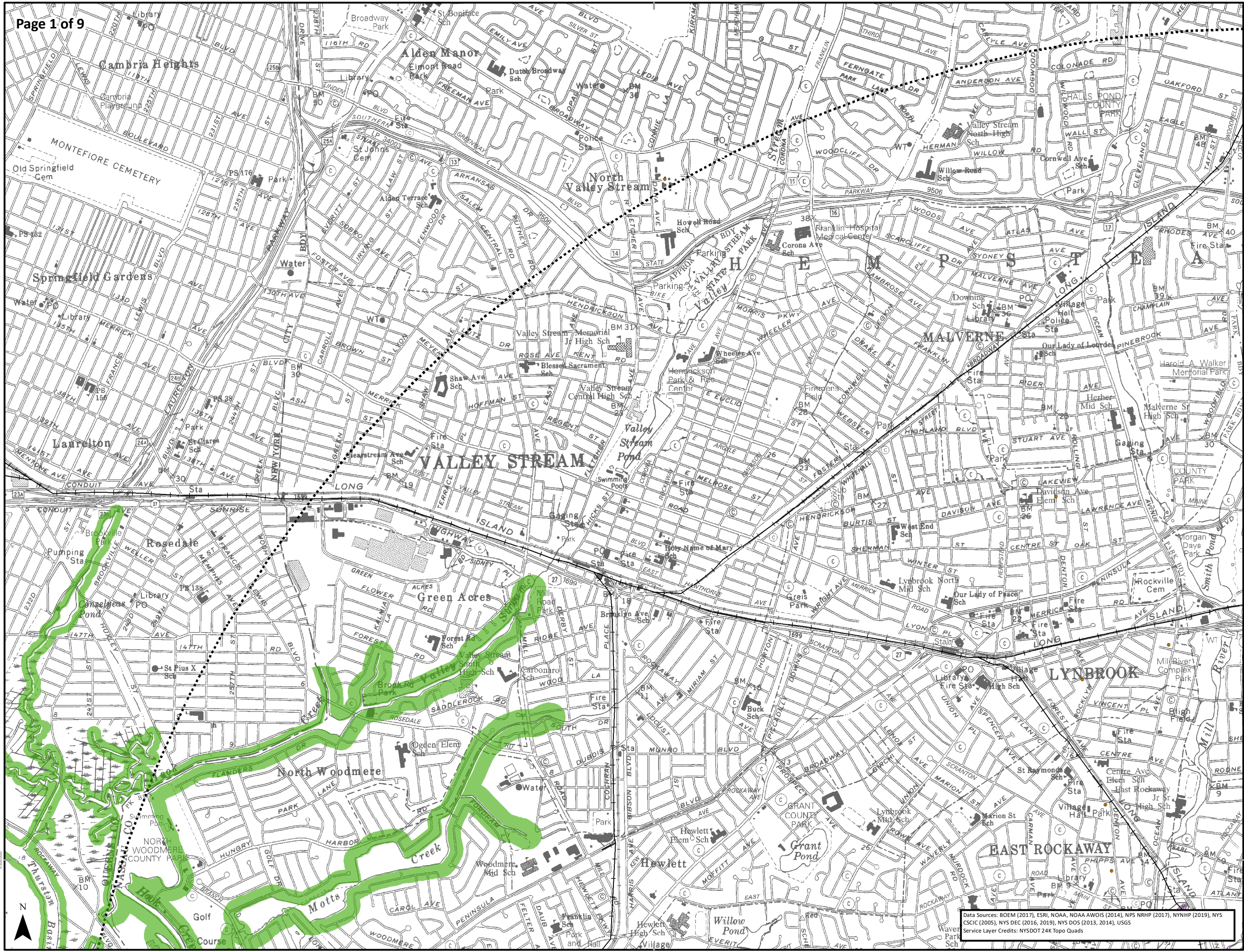


REFERENCE MAP



Data Sources: BOEM (2017), ESRI, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
Service Layer Credits: NYSDOT 24K Topo Quads





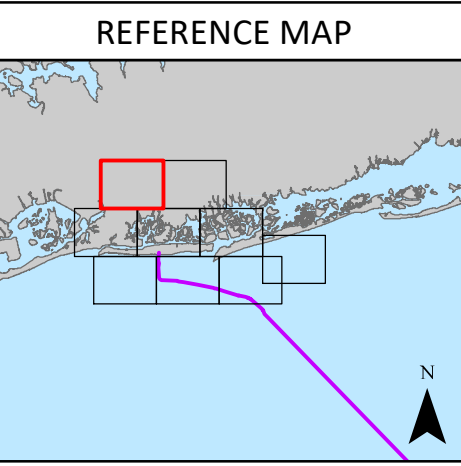
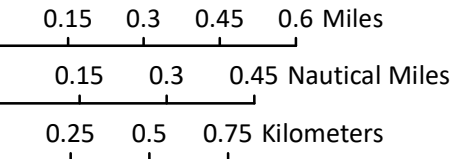
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-4



- 5-mile Buffer
- Railroad
- Critical Environmental Area
- Natural Heritage Community Occurrence
- NRHP Site

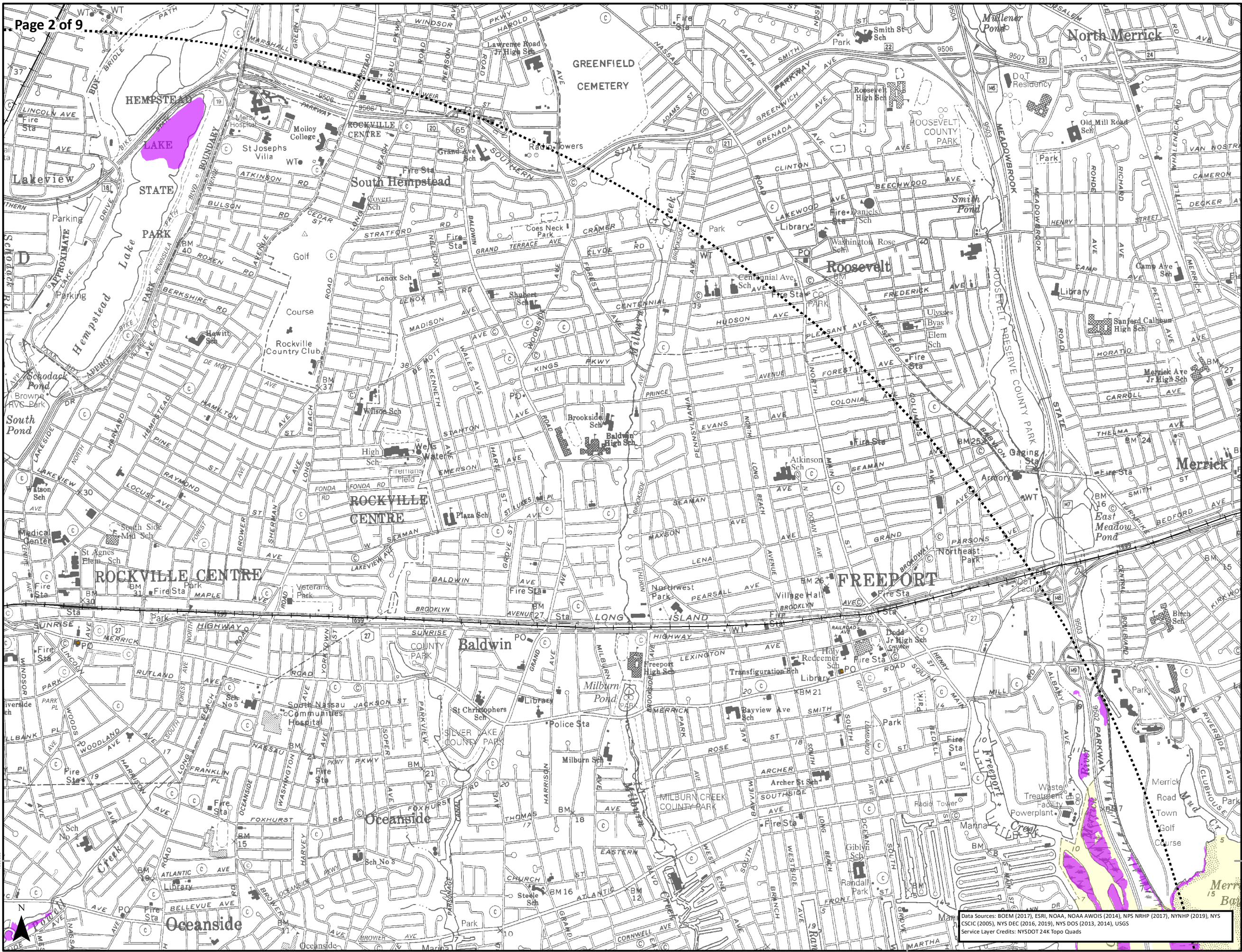
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Service Layer Credits: NYSDOT 24K Topo Quads





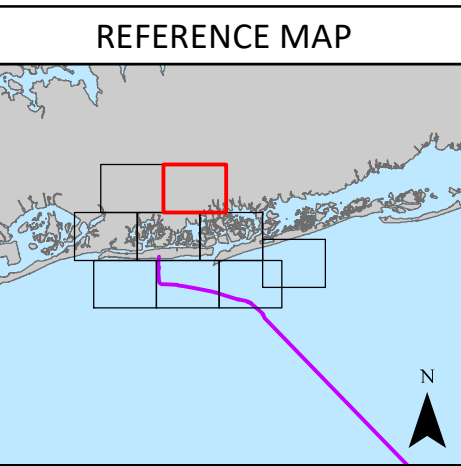
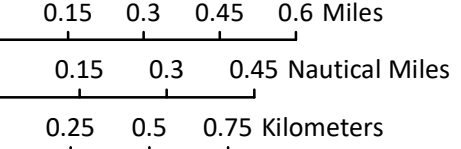
# EMPIRE OFFSHORE WIND EMPIRE WIND 2 PROJECT FIGURE 2.2-4



- 5-mile Buffer
- Railroad
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- NRHP Site

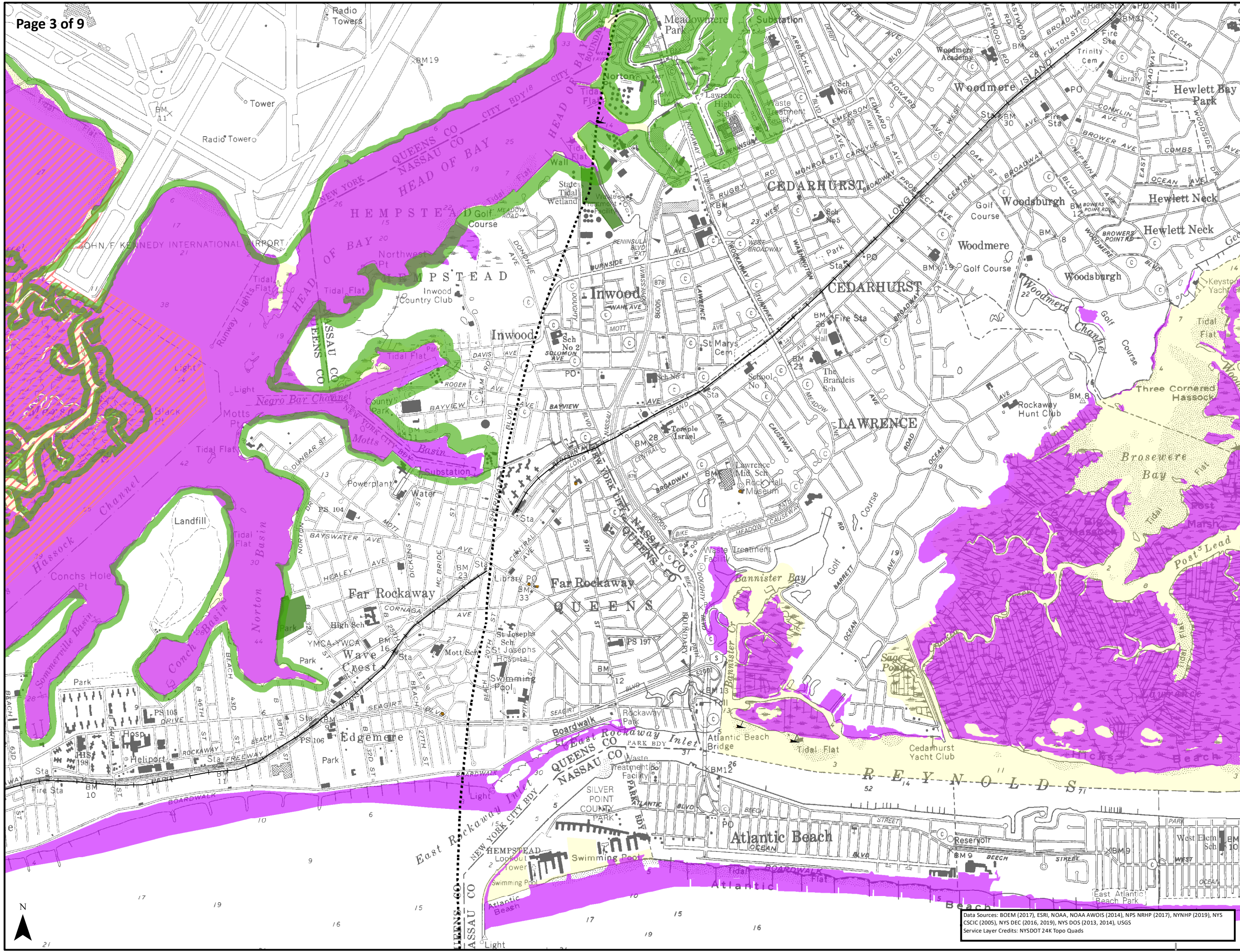
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Data Sources: BOEM (2017), ESR, NOAA, NOAA AOWIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
Service Layer Credits: NYSDOT 24K Topo Quads





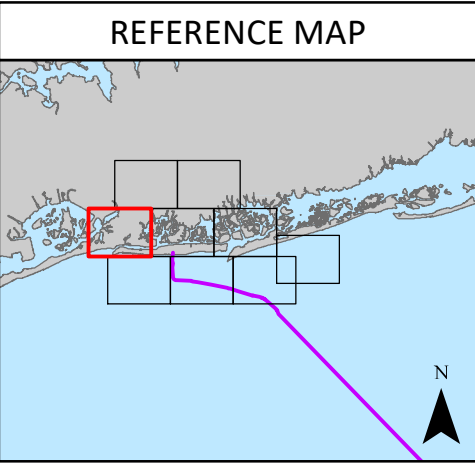
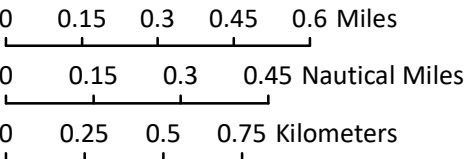
# EMPIRE OFFSHORE WIND EMPIRE WIND 2 PROJECT FIGURE 2.2-4



- 5-mile Buffer
- Shipwreck
- Railroad
- Critical Environmental Area
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- Federal Land
- NYSDEC Land
- NRHP Site

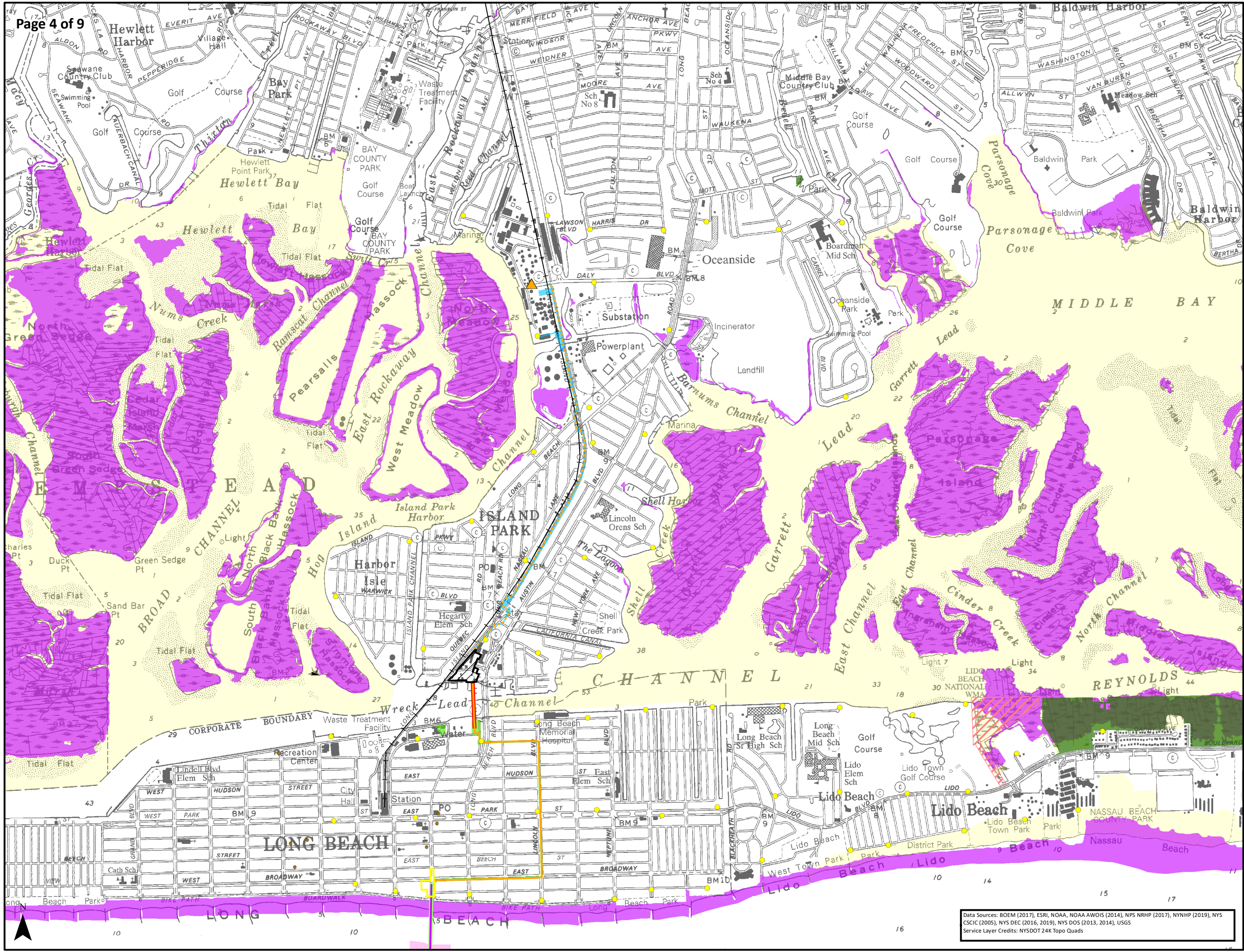
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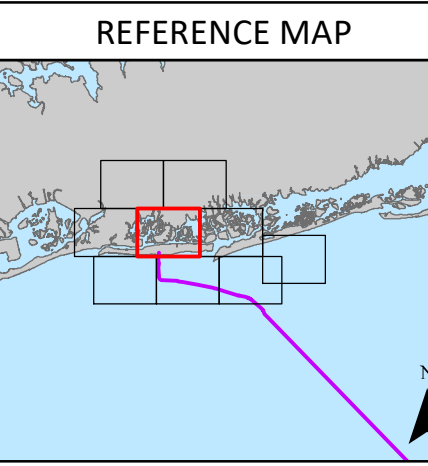
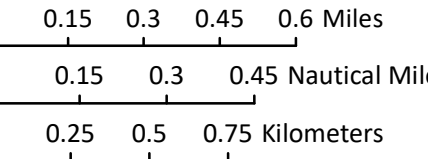
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-4



- Survey Control Point
- ▲ POI
- Interconnection Cable Route
- Interconnection Cable Corridor
- Onshore Substation
- Onshore Substation Workspace
- Onshore Export Cable Route
- Onshore Export Cable HDD
- Onshore Export Cable Corridor
- Cable Landfall
- Submarine Export Cable Route
- Submarine Export Cable HDD
- Submarine Export Cable Corridor
- ⊙ 5-mile Buffer
- ⚓ Shipwreck
- ⚓ Railroad
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- Federal Land
- NYSDEC Land
- NRHP Site

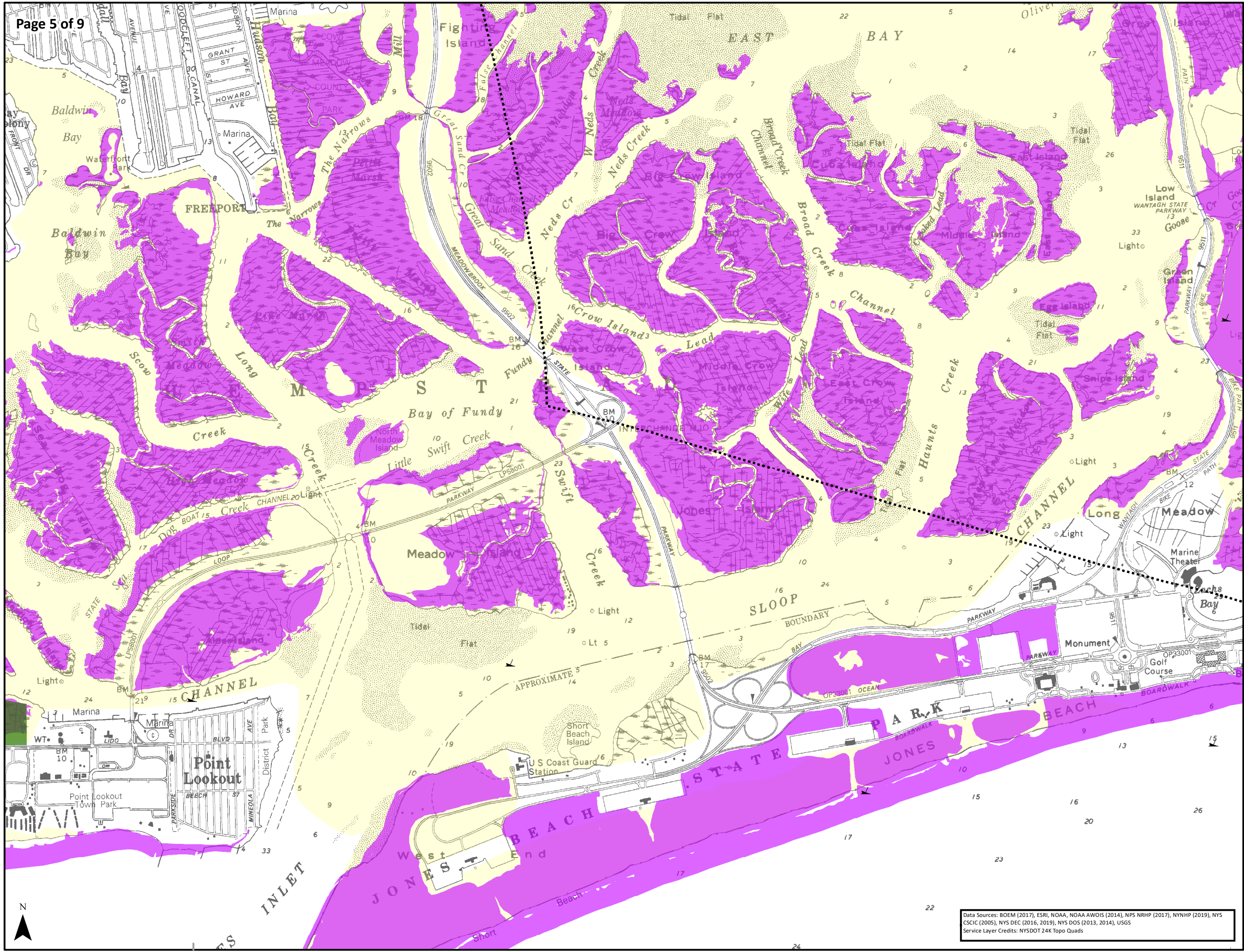
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Service Layer Credits: NYSDOT 24K Topo Quads





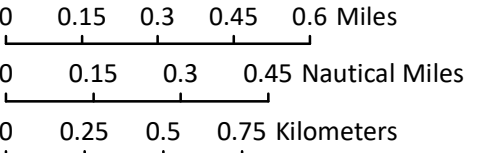
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-4



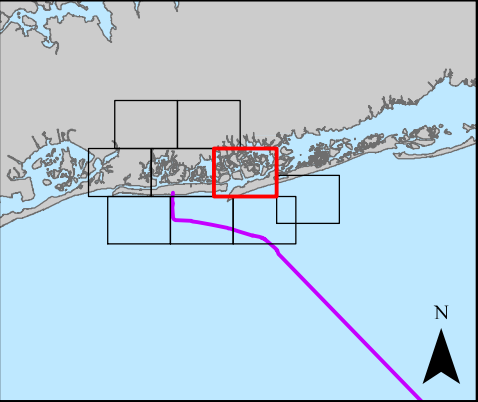
- 5-mile Buffer
- Shipwreck
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- NYSDEC Land

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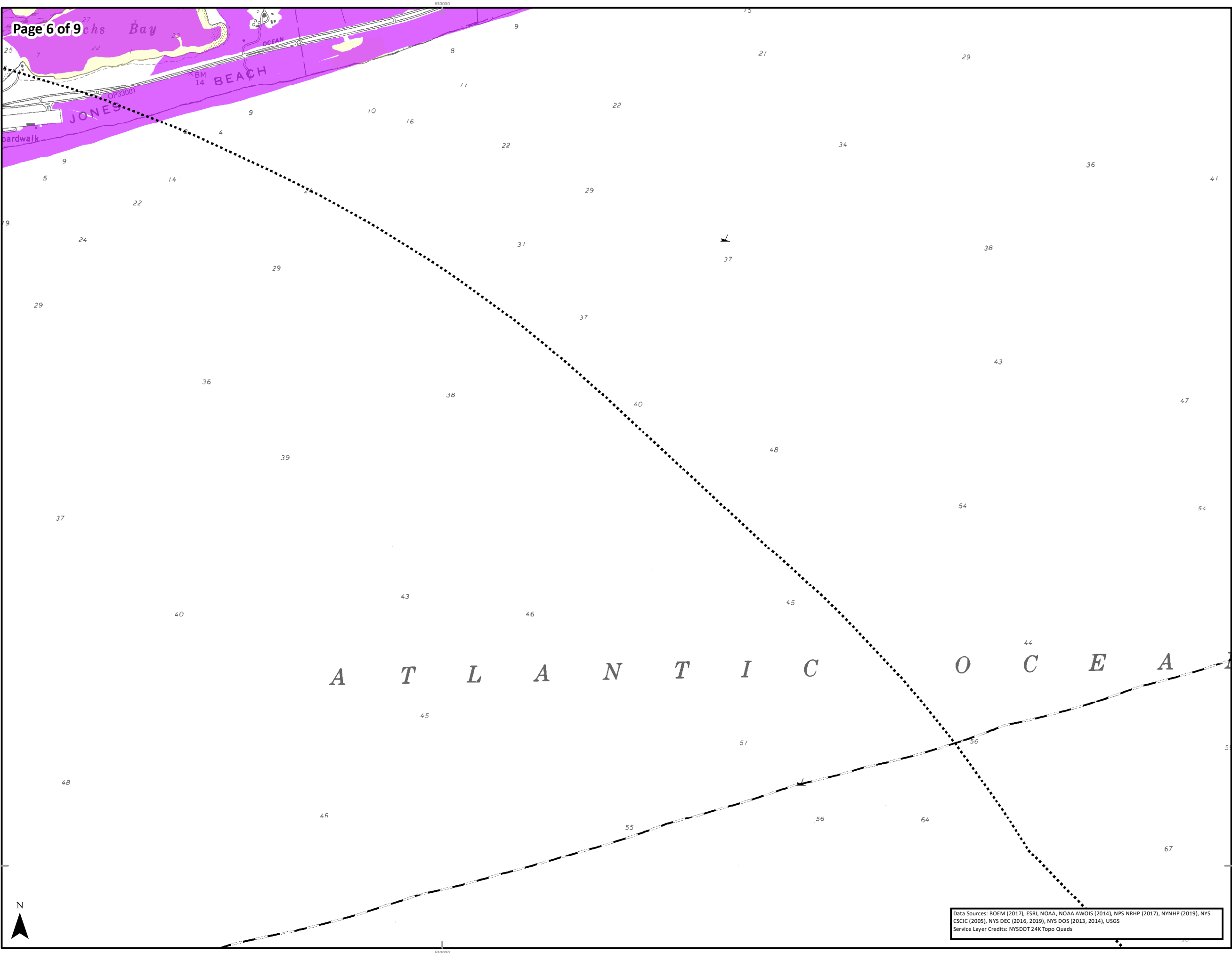


REFERENCE MAP



Data Sources: BOEM (2017), ESR, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
Service Layer Credits: NYSDOT 24K Topo Quads





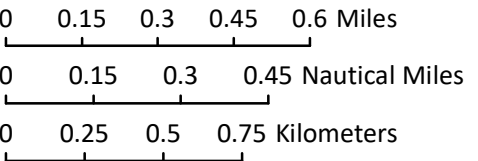
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-4



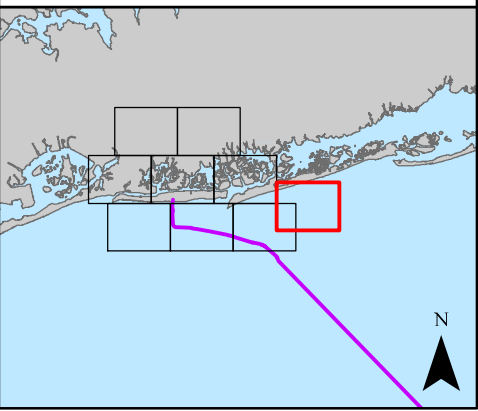
- 5-mile Buffer
- Shipwreck
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- State Territorial Waters Boundary

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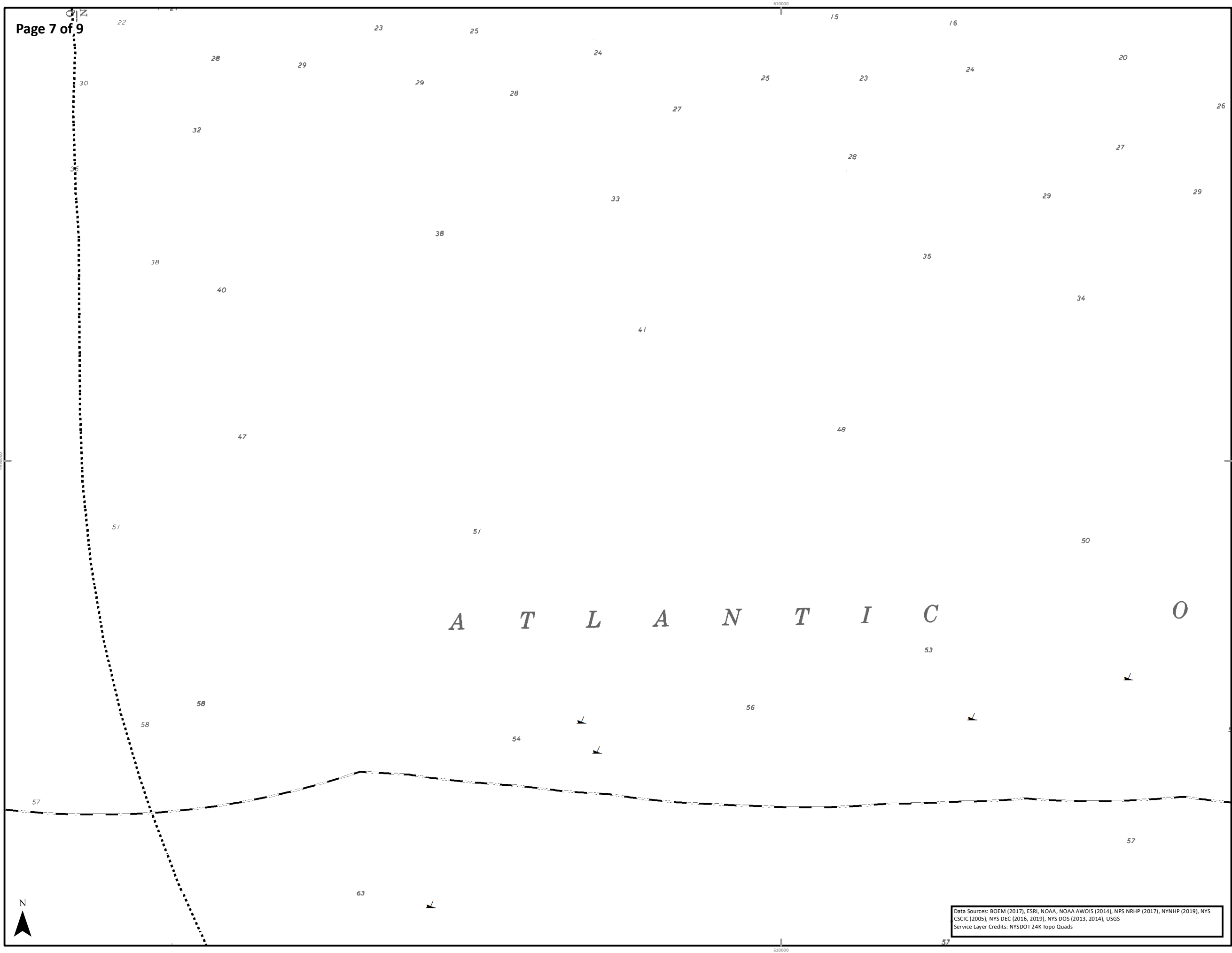


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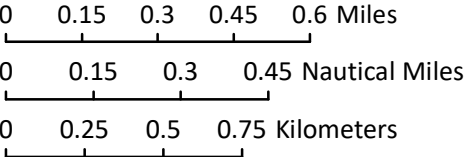
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-4



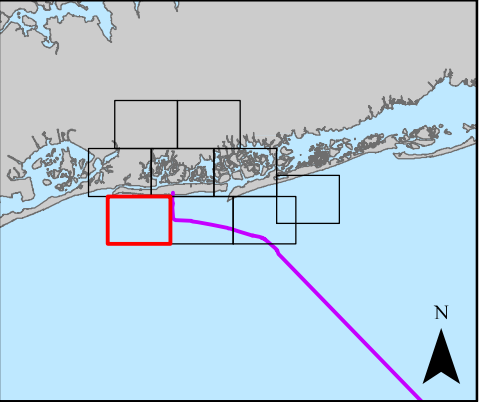
- 5-mile Buffer
- Shipwreck
- State Territorial Waters Boundary

Note: Certain features may not be visible at this map scale.  
The background image is not representative for the location  
of the state boundary. The proposed submarine export  
cable siting corridor will be entirely within New York State  
waters.

Date	5/19/2022
File/Job Number	194-1247-0001
Personnel	Figure Prepared by: Tetra Tech Offshore GIS

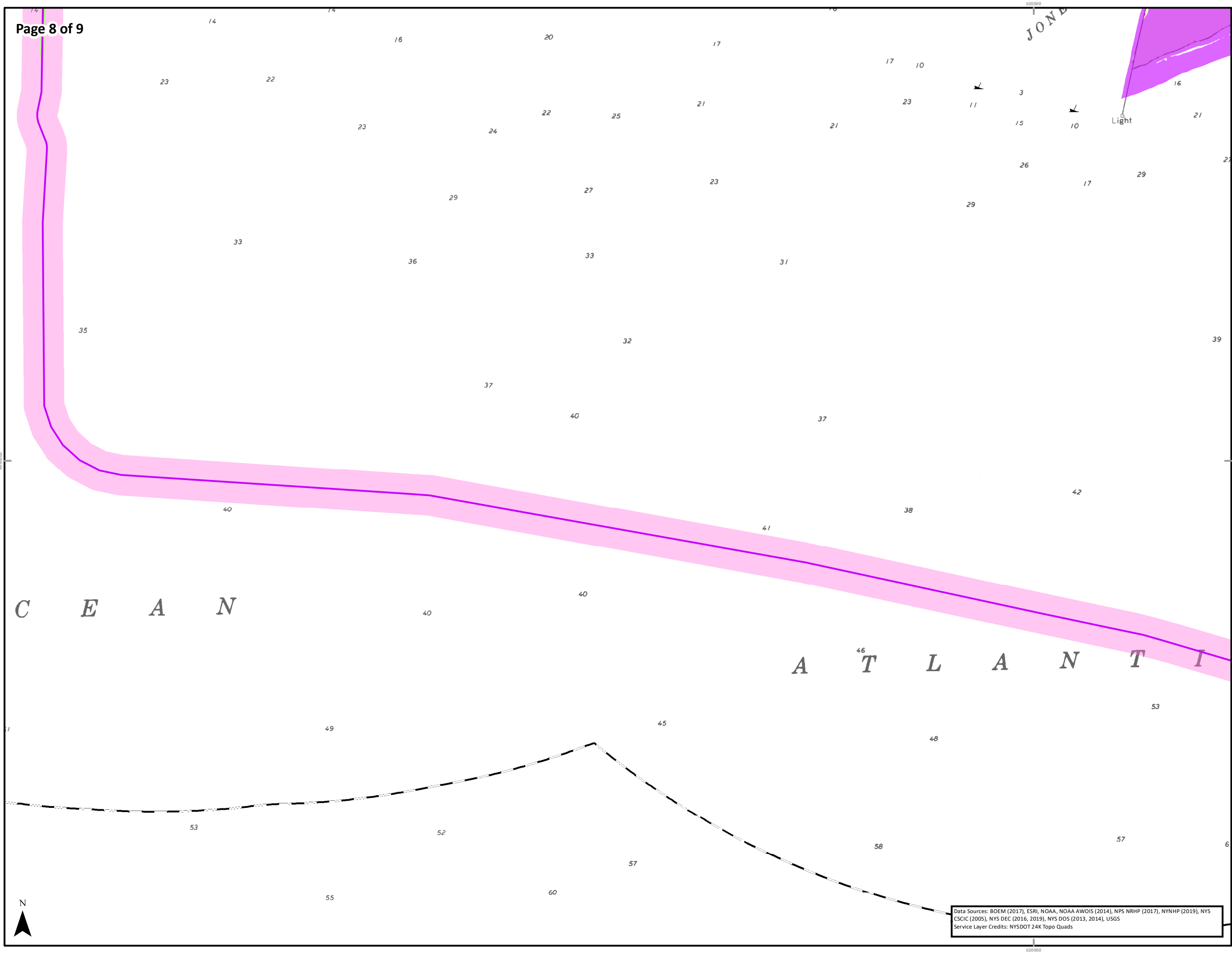


REFERENCE MAP



Data Sources: BOEM (2017), ESRI, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS  
CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
Service Layer Credits: NYSDOT 24K Topo Quads





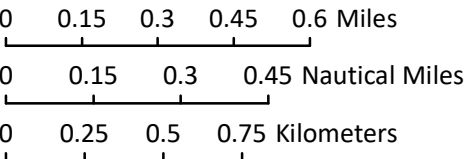
EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.2-4



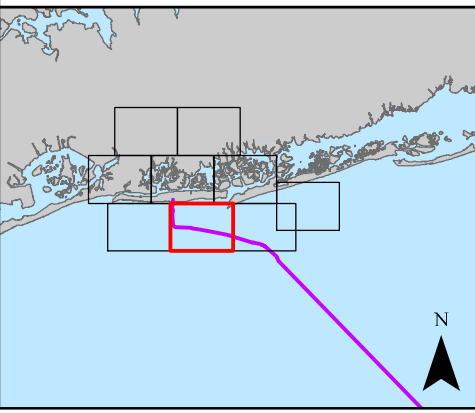
- Submarine Export Cable Route
- Submarine Export Cable HDD
- Submarine Export Cable Corridor
- 5-mile Buffer
- Shipwreck
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- State Territorial Waters Boundary

Note: Certain features may not be visible at this map scale. The background image is not representative for the location of the state boundary. The proposed submarine export cable siting corridor will be entirely within New York State waters.

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File/Job Number	194-1247-0001
Personnel	Figure Prepared by: Tetra Tech Offshore GIS

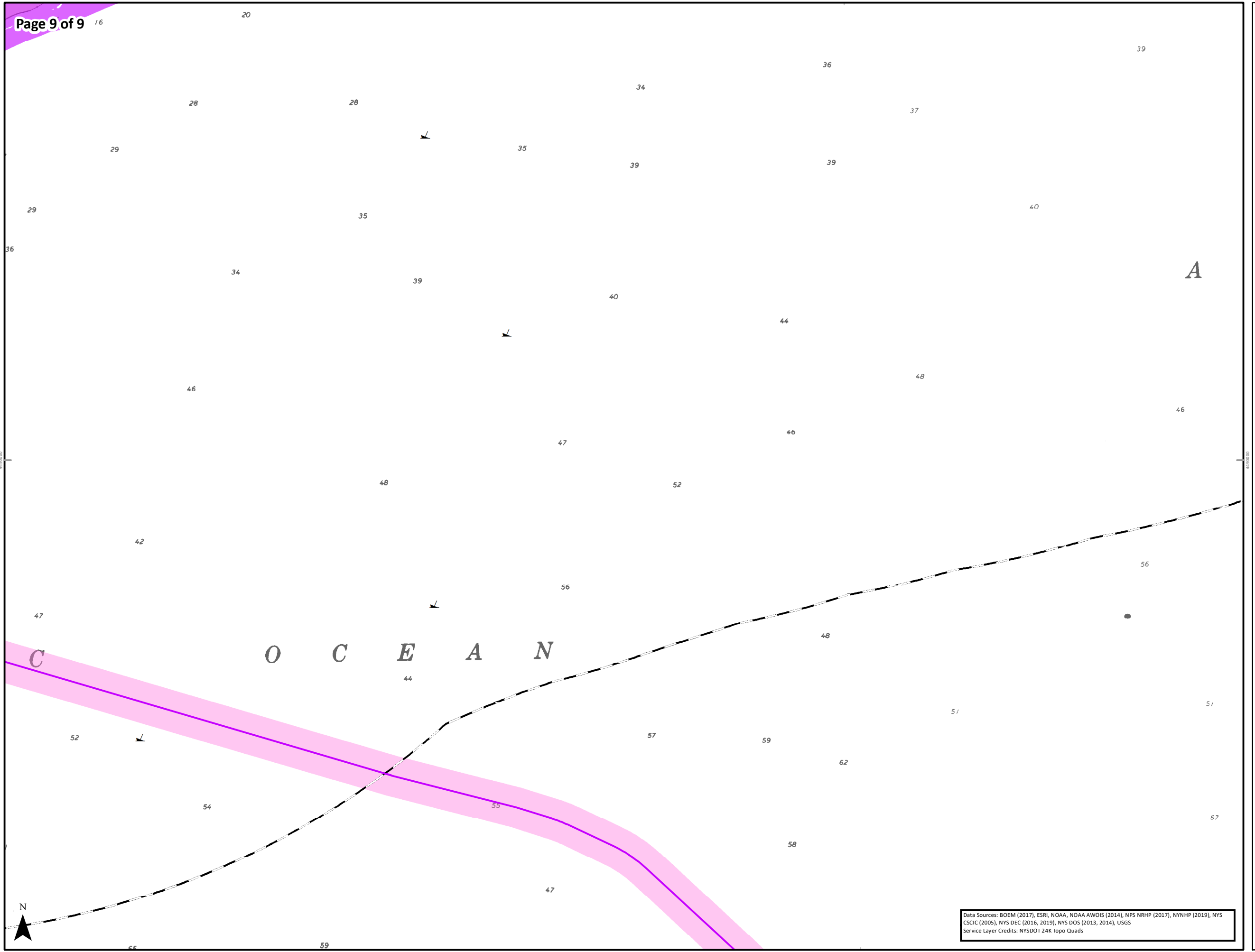


REFERENCE MAP



Data Sources: BOEM (2017), ESRI, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
Service Layer Credits: NYSDOT 24K Topo Quads





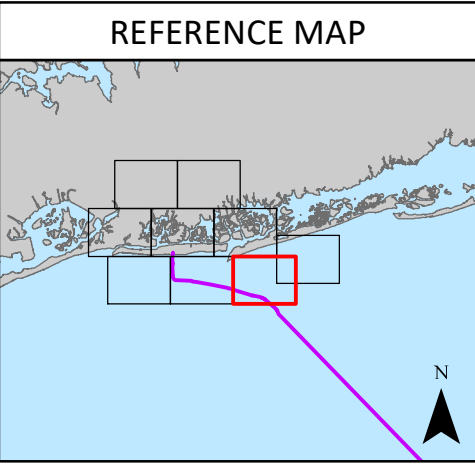
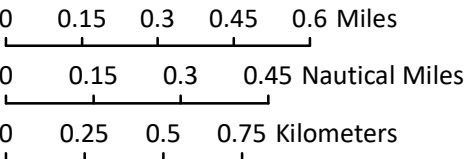
# EMPIRE OFFSHORE WIND EMPIRE WIND 2 PROJECT FIGURE 2.2-4



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- 5-mile Buffer
- Shipwreck
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- State Territorial Waters Boundary

Note: Certain features may not be visible at this map scale. The background image is not representative for the location of the state boundary. The proposed submarine export cable siting corridor will be entirely within New York State waters.

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File/Job Number	194-1247-0001
Personnel	Figure Prepared by: Tetra Tech Offshore GIS

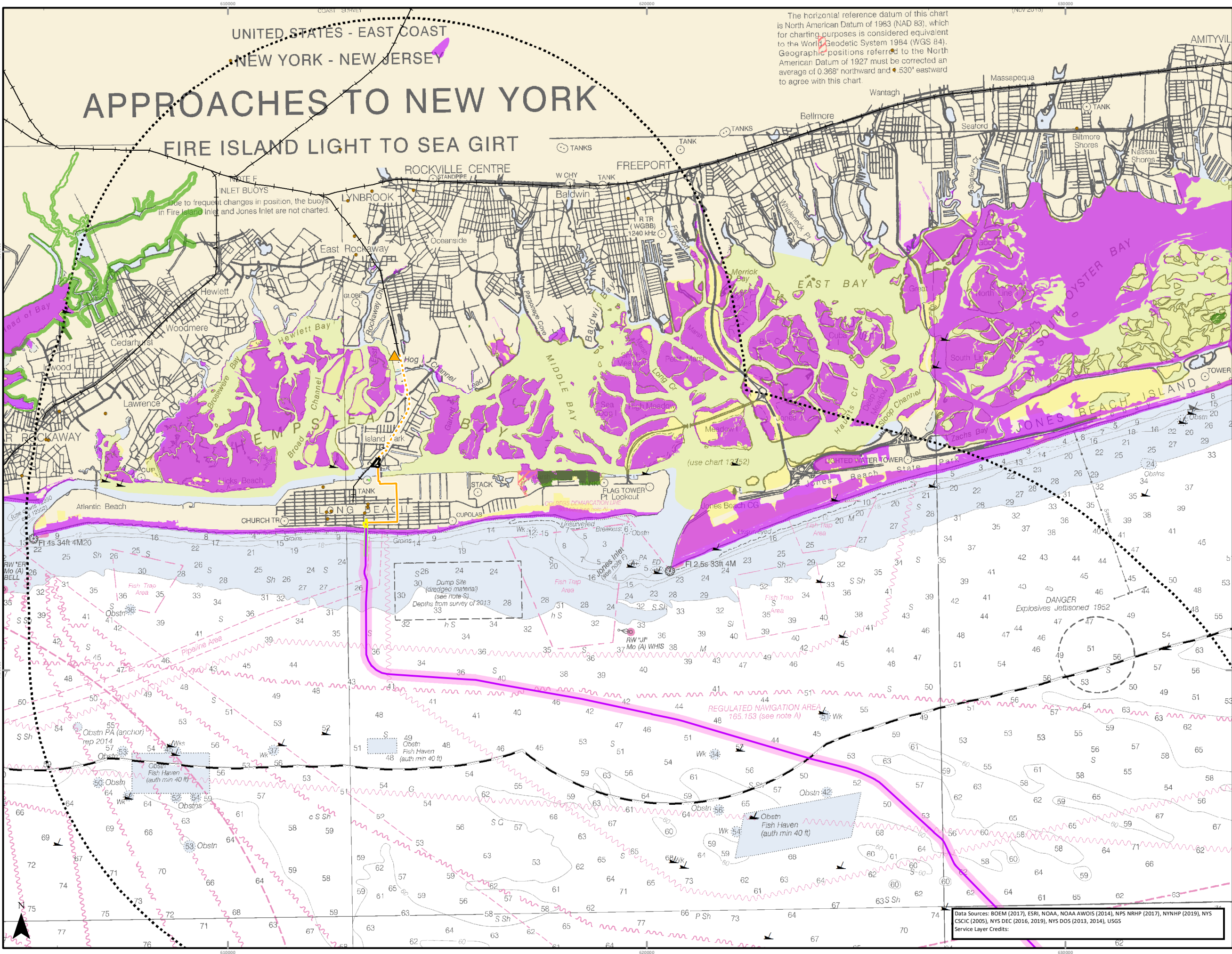


Data Sources: BOEM (2017), ESRI, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
Service Layer Credits: NYSDOT 24K Topo Quads









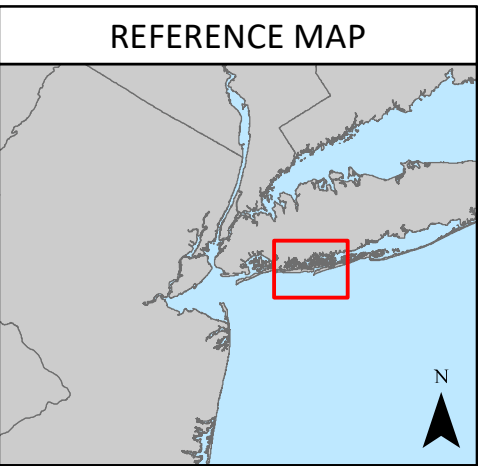
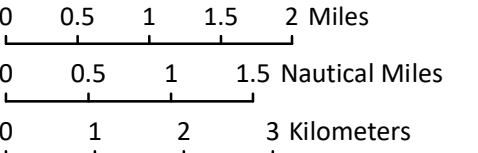
## EMPIRE OFFSHORE WIND EMPIRE WIND 1 PROJECT FIGURE 2.3-1



- POI
- Interconnection Cable Route
- Interconnection Cable Corridor
- Onshore Substation
- Onshore Substation Workspace
- Onshore Export Cable Route
- Onshore Export Cable HDD
- Onshore Export Cable Corridor
- Cable Landfall
- Submarine Export Cable Route
- Submarine Export Cable HDD
- Submarine Export Cable Corridor
- 5-mile Buffer
- Shipwreck
- Railroad
- Critical Environmental Area
- Significant Coastal Fish and Wildlife Habitat
- Natural Heritage Community Occurrence
- Federal Land
- NYSDEC Land
- NRHP Site
- State Territorial Waters Boundary

Note: Certain features may not be visible at this map scale. The background image is not representative for the location of the state boundary. The proposed submarine export cable siting corridor will be entirely within New York State waters.

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Personnel	Figure Prepared by: Tetra Tech Offshore GIS



Data Sources: BOEM (2017), ESI, NOAA, NOAA AWOIS (2014), NPS NRHP (2017), NYNHP (2019), NYS CSCIC (2005), NYS DEC (2016, 2019), NYS DOS (2013, 2014), USGS  
Service Layer Credits:





Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.3-2



- ▲ POI
- Interconnection Cable Route
- Interconnection Cable Corridor
- - - Export Cable and Interconnection Cable Corridor 1,200-ft Buffer

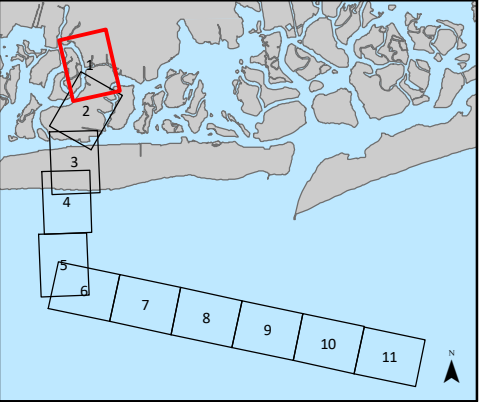
Aerial Imagery Date:  
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0 200 400 600 Feet

0 50 100 150 200 Meters

REFERENCE MAP







EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.3-2



- Interconnection Cable Route
- Interconnection Cable Corridor
- Onshore Substation
- Onshore Substation Workspace
- Submarine Export Cable HDD
- Export Cable and Interconnection Cable Corridor 1,200-ft Buffer

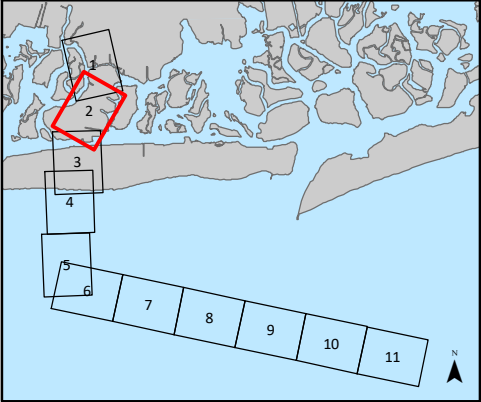
Aerial Imagery Date:  
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File/Job Number	194-1247-0001
Personnel	Figure Prepared by: Tetra Tech Offshore GIS

0 200 400 600 Feet

0 50 100 150 200 Meters

REFERENCE MAP







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EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.3-2



- Interconnection Cable Route
- Interconnection Cable Corridor
- Onshore Substation
- Onshore Substation Workspace
- Onshore Export Cable Route
- Onshore Export Cable HDD
- Onshore Export Cable Corridor
- Cable Landfall
- Submarine Export Cable Route
- Submarine Export Cable HDD
- Export Cable and Interconnection Cable Corridor 1,200-ft Buffer

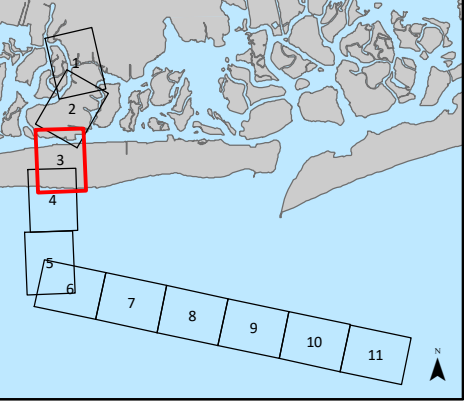
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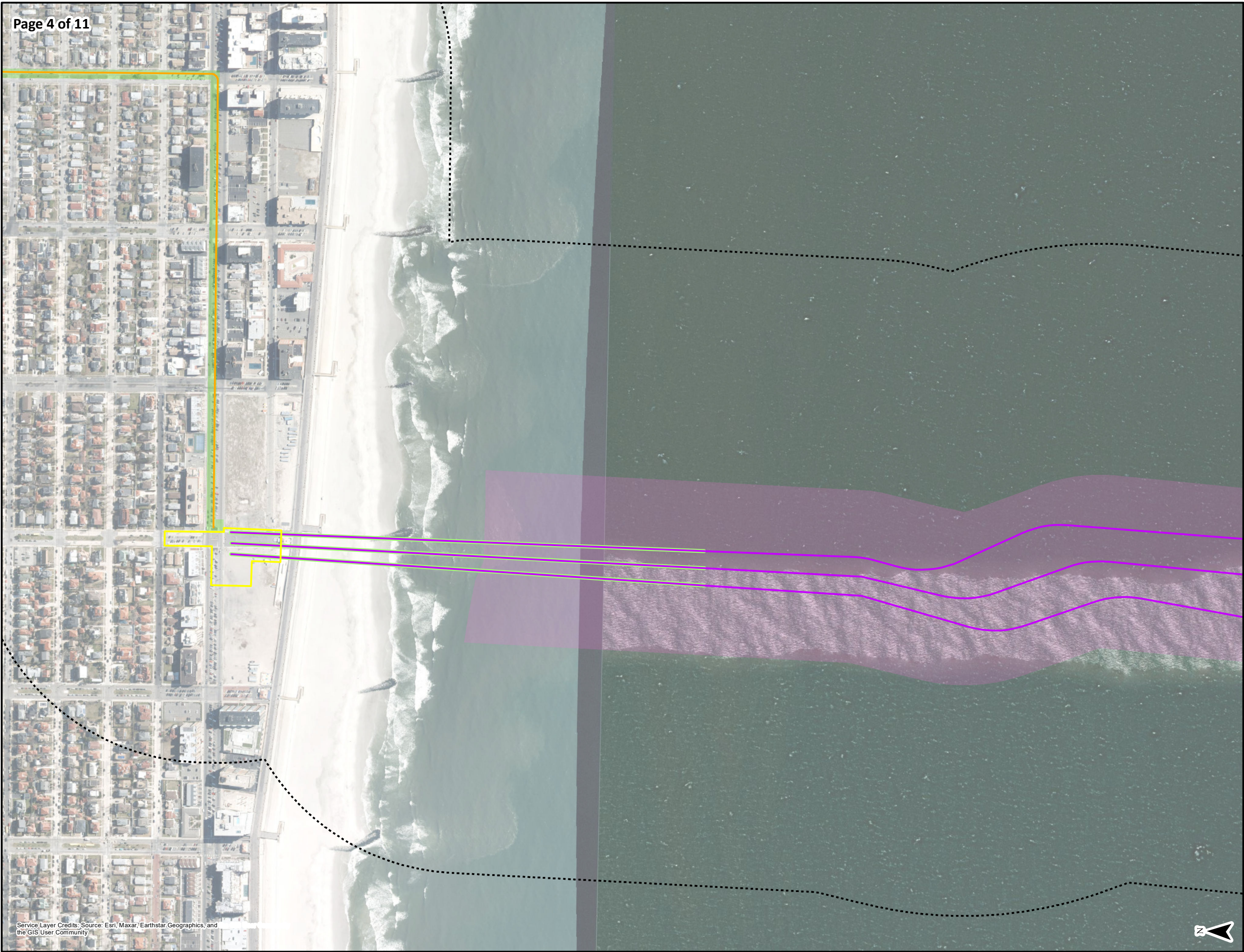
0 200 400 600 Feet

0 50 100 150 200 Meters

REFERENCE MAP







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**EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.3-2**



- Onshore Export Cable Route
- Onshore Export Cable Corridor
- Cable Landfall
- Submarine Export Cable Route
- Submarine Export Cable HDD
- Submarine Export Cable Corridor
- Export Cable and Interconnection Cable Corridor 1,200-ft Buffer

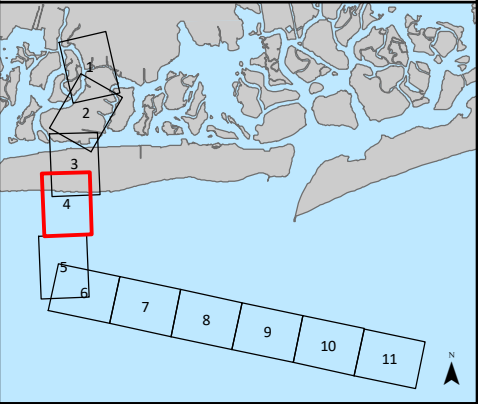
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0 200 400 600 Feet

0 50 100 150 200 Meters

**REFERENCE MAP**





EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.3-2



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- Export Cable and Interconnection Cable Corridor 1,200-ft Buffer

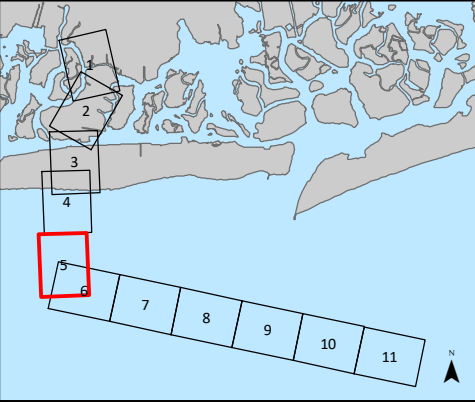
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0 200 400 600 Feet

0 50 100 150 200 Meters

REFERENCE MAP





EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.3-2



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- Export Cable and Interconnection Cable Corridor 1,200-ft Buffer

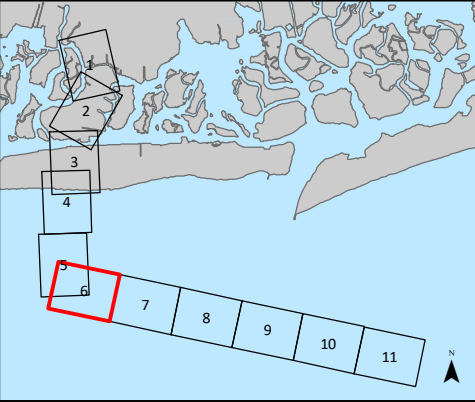
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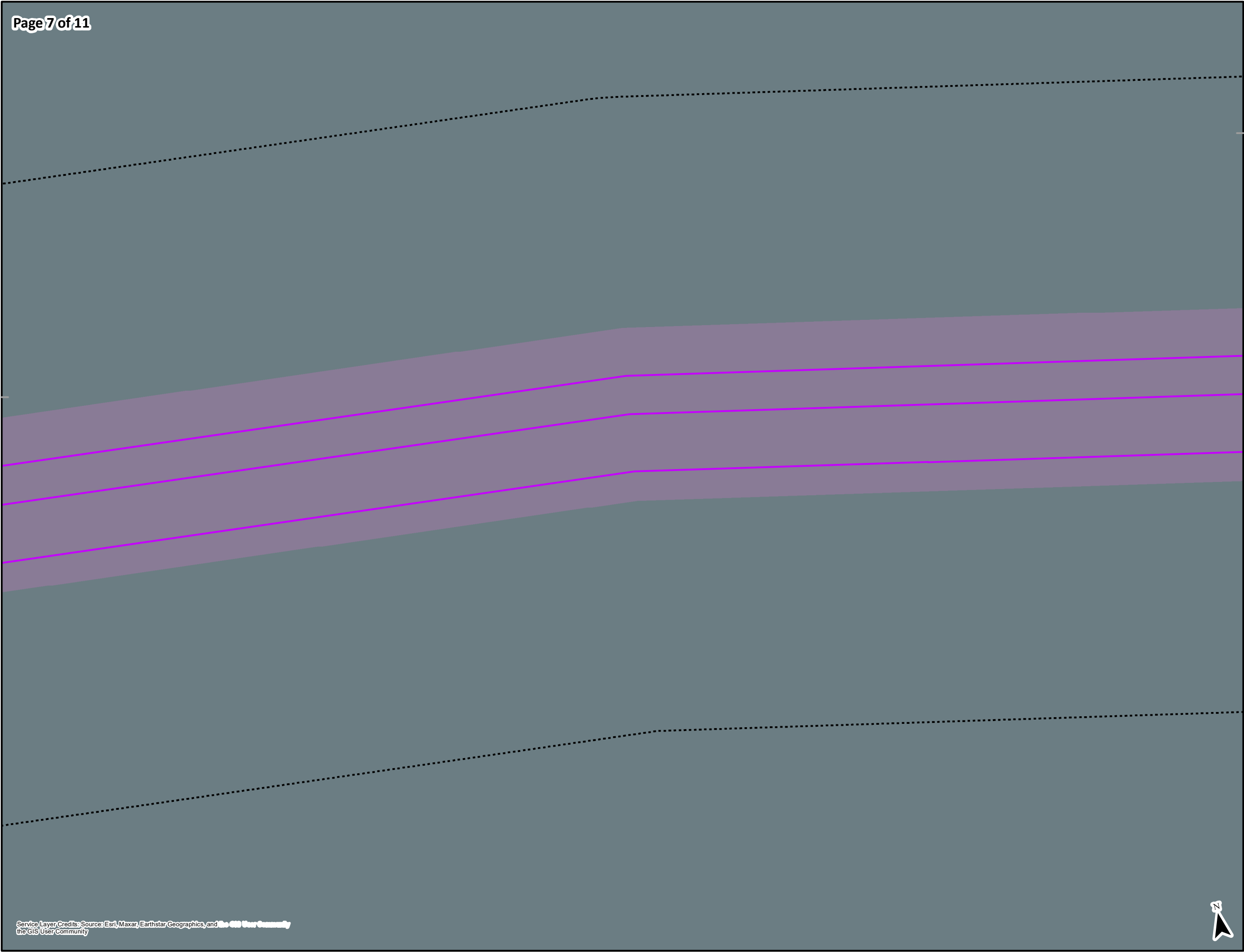
0 200 400 600 Feet

0 50 100 150 200 Meters

REFERENCE MAP







EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.3-2



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- Export Cable and Interconnection Cable Corridor 1,200-ft Buffer

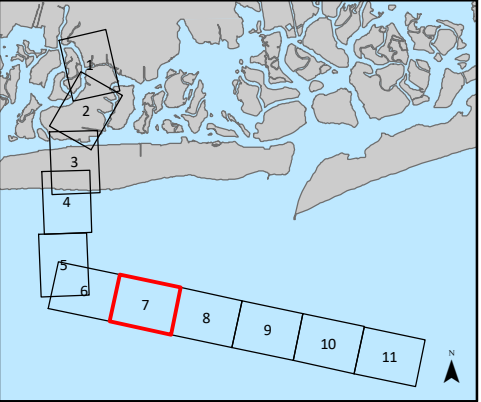
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0 200 400 600 Feet

0 50 100 150 200 Meters

REFERENCE MAP





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EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.3-2



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- Export Cable and Interconnection Cable Corridor 1,200-ft Buffer

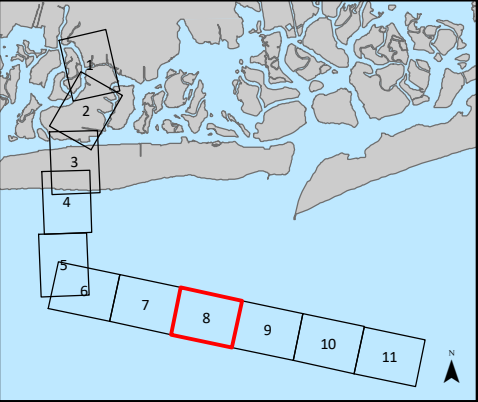
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0 200 400 600 Feet

0 50 100 150 200 Meters

REFERENCE MAP





EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.3-2



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- Export Cable and Interconnection Cable Corridor 1,200-ft Buffer

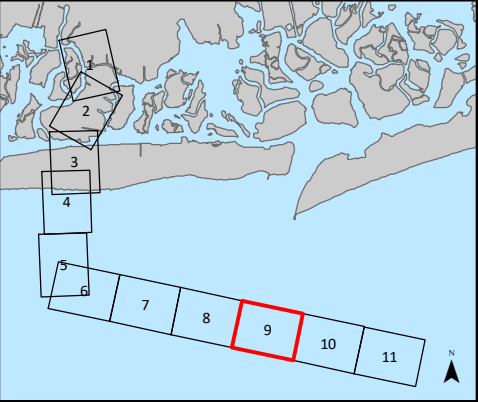
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EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.3-2



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- Export Cable and Interconnection Cable Corridor 1,200-ft Buffer

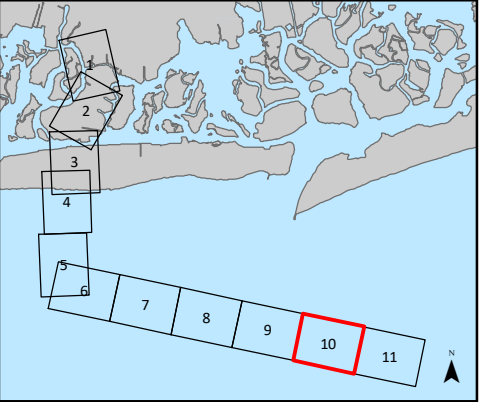
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0 50 100 150 200 Meters

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EMPIRE OFFSHORE WIND  
EMPIRE WIND 2 PROJECT  
FIGURE 2.3-2



- Submarine Export Cable Route
- Submarine Export Cable Corridor
- State Territorial Waters Boundary
- Export Cable and Interconnection Cable Corridor 1,200-ft Buffer

Aerial Imagery Date:  
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0 200 400 600 Feet

0 50 100 150 200 Meters

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