

Case No. 16-1871-EL-BGN

Icebreaker Windpower Inc.

Application-Part 2 of 13

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- Figure 03-2: Aerial Photography
- Figure 04-1: Study Areas Evaluated
- Figure 04-2: Constraint Map
- Figure 07-1: Water Monitoring and Gauging Stations
- Figure 07-2: Aviation Facilities
- Figure 08-1: Drinking Water Resources
- Figure 08-2: Existing Uses
- Figure 08-3: Ecological Features
- Figure 08-5: Land Use
- Figure 08-6: Wind Turbine Setbacks
- Figure 08-7: Cultural and Archaeological Resources

Date Filed: February 1, 2017

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Icebreaker Wind

Lake Erie, City of Cleveland

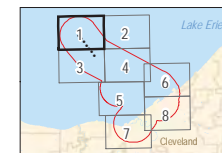
Cuyahoga County, Ohio

Figure 03-1: Geography and Topography

January 2017

- Proposed Wind Turbine
- Alternate Wind Turbine
- Bathymetry Contour
- Electric Collection Line Envelope
- 2-Mile Facility Study Area

Sheet 1 of 8

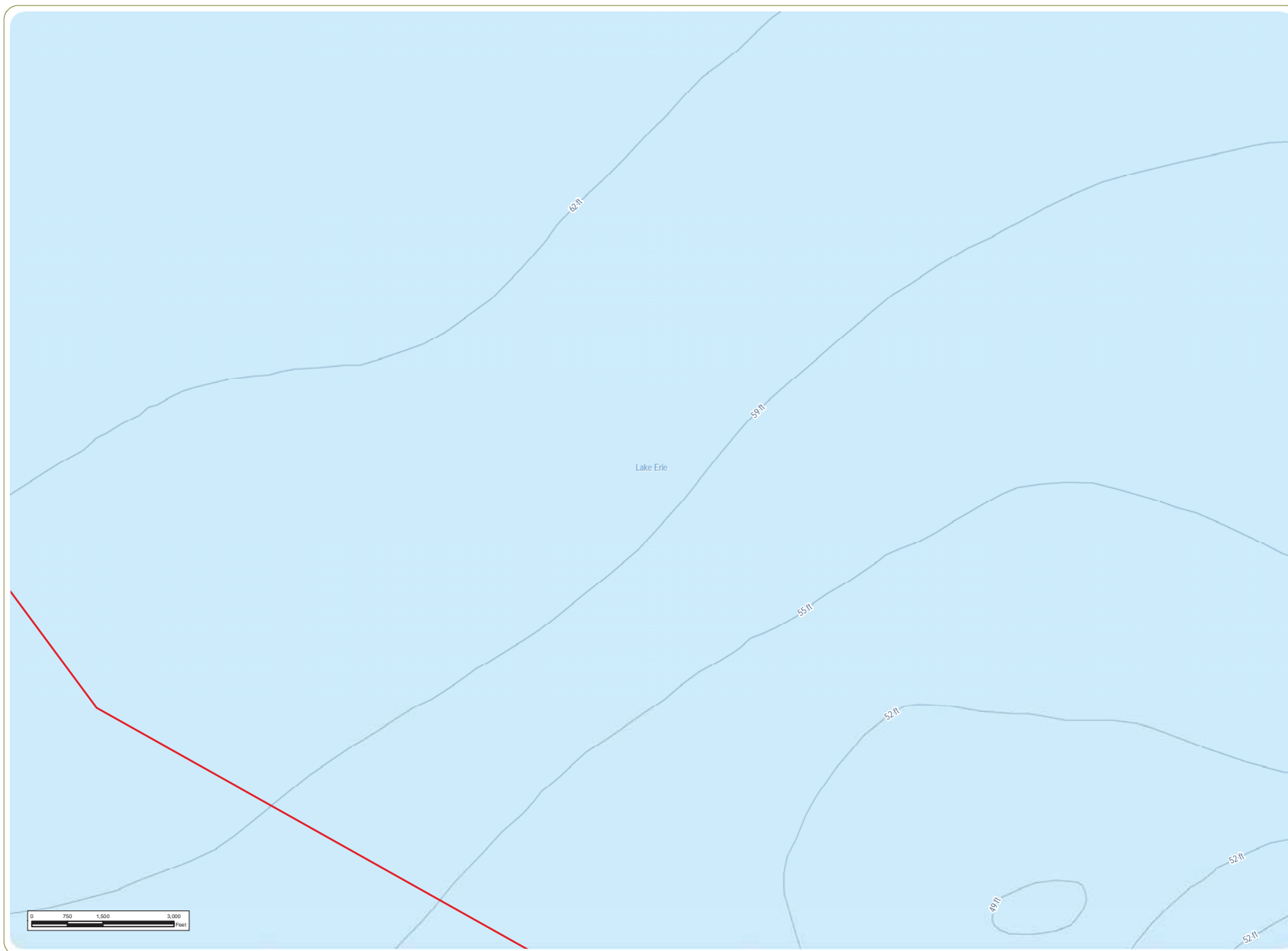


Notes:

1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
2. Institutional land uses derived from Cuyahoga County GIS Department 2014 land use data. Electric transmission lines digitized by EDR based on a map provided by PUCO. Gas transmission lines digitized by EDR based on the National Pipeline Mapping System. Bathymetry obtained from the Great Lakes Information Network. Facility shapefiles generated by EDR per LeedCo specification. Recreational resources compiled and digitized by EDR through review of publicly available data.
3. Map Scale: 1:24,000



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Icebreaker Wind

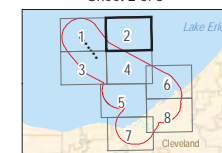
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 03-1: Geography and Topography January 2017

— Bathymetry Contour

□ 2-Mile Facility Study Area

Sheet 2 of 8

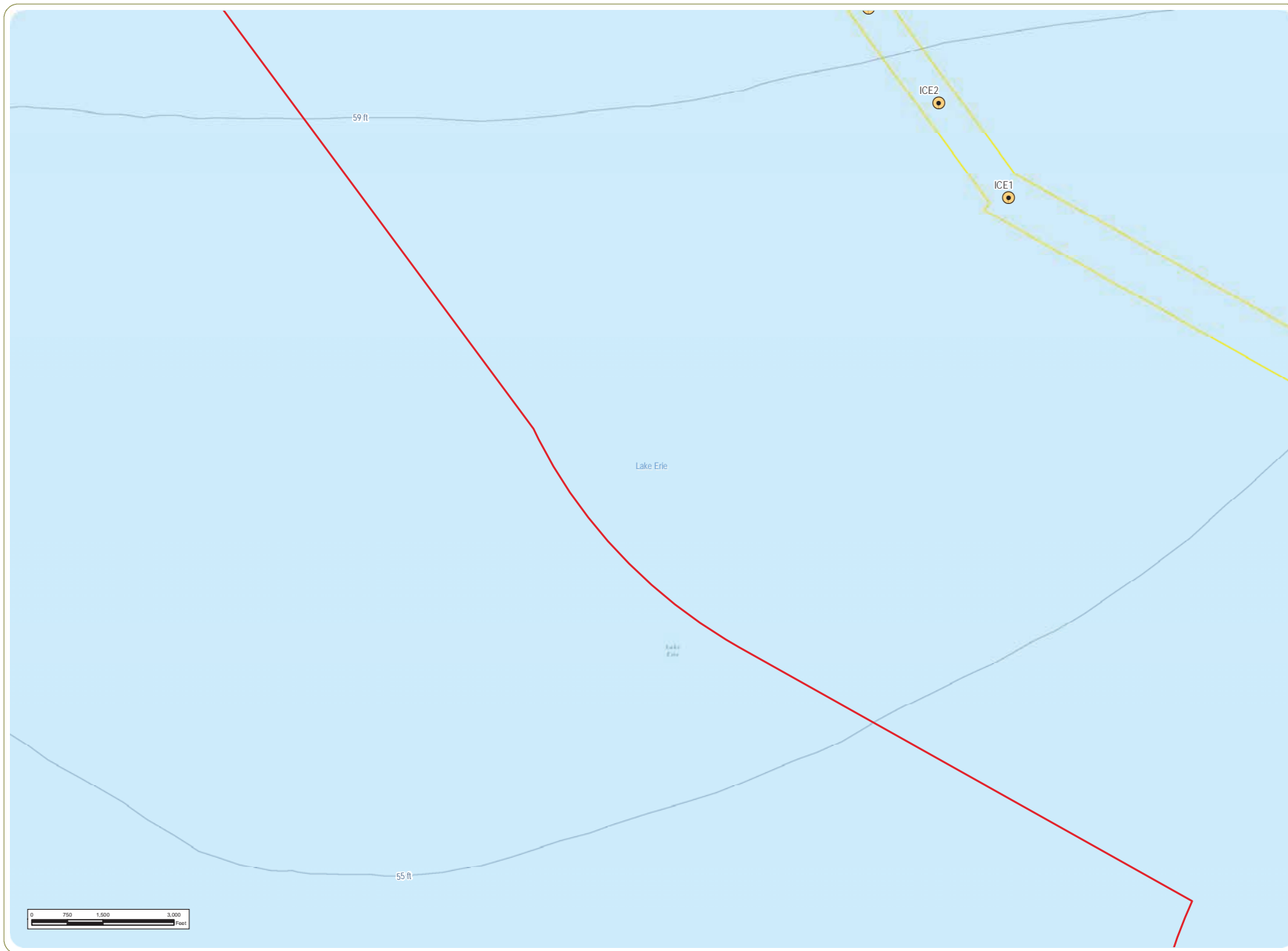


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Lake Erie, City of Cleveland

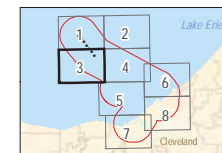
Cuyahoga County, Ohio

Figure 03-1: Geography and Topography

January 2017

-  Proposed Wind Turbine
-  Bathymetry Contour
-  Electric Collection Line Envelope
-  2-Mile Facility Study Area

Sheet 3 of 8

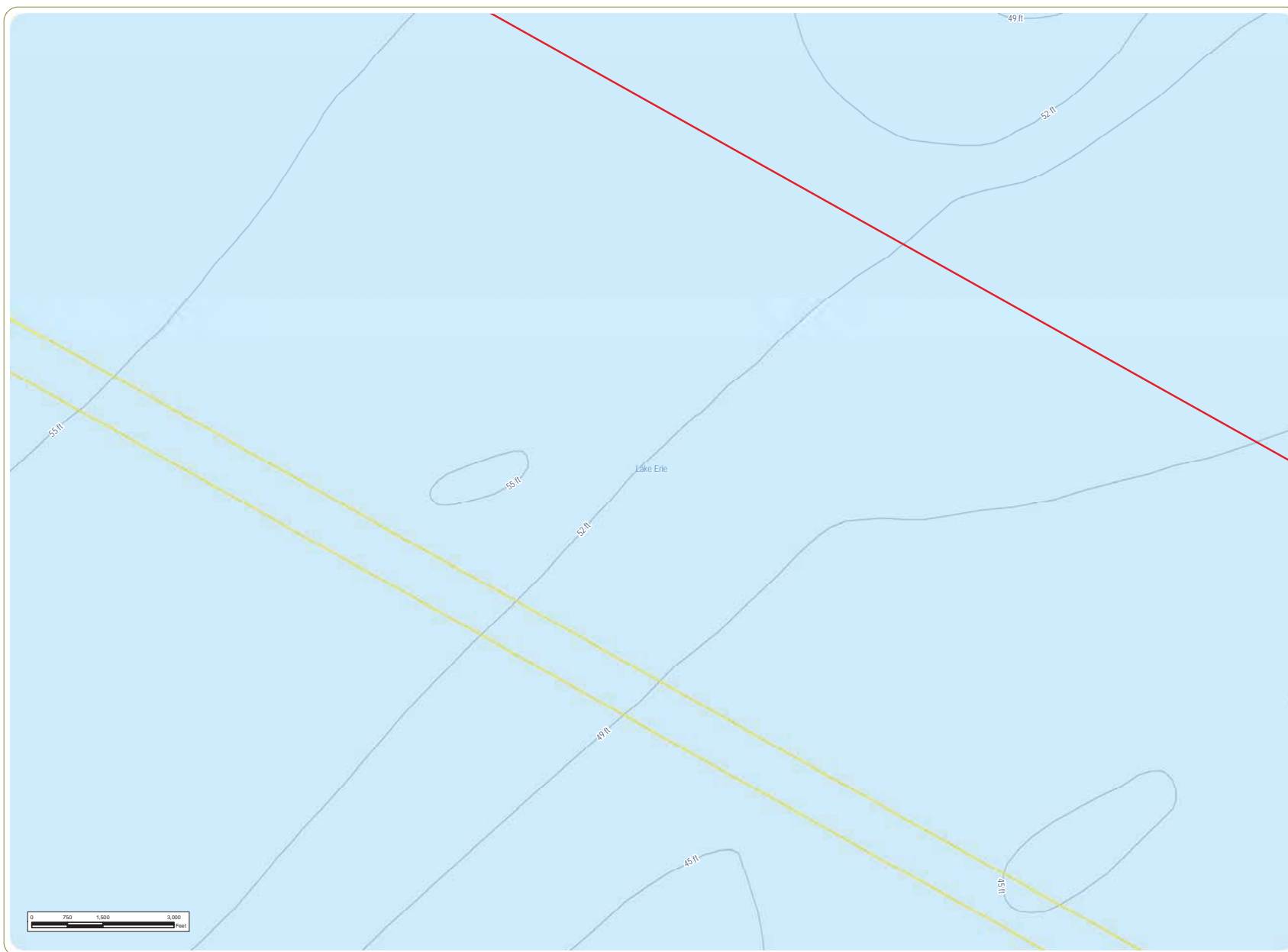


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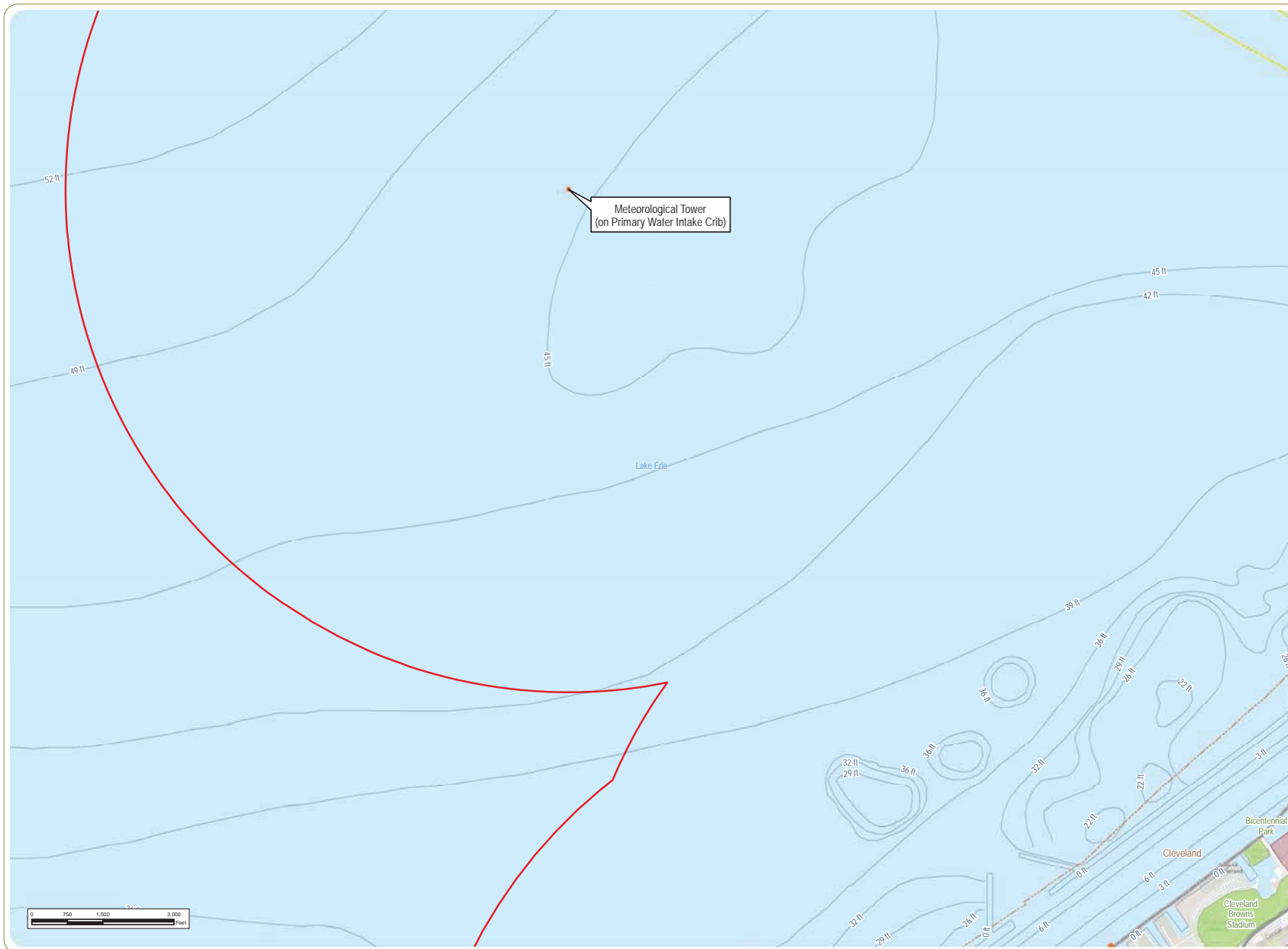
Icebreaker Wind
 Lake Erie, City of Cleveland
 Cuyahoga County, Ohio
Figure 03-1: Geography and Topography January 2017

— Bathymetry Contour
 Electric Collection Line Envelope
 2-Mile Facility Study Area

Sheet 4 of 8

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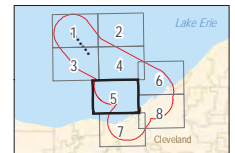


Icebreaker Wind

Lake Erie, City of Cleveland
Cuyahoga County, Ohio
Figure 03-1: Geography and Topography January 2017

- Bathymetry Contour
- Recreational Resource
- Government Office
- Ancillary Facility
- Electric Collection Line Envelope
- 2-Mile Facility Study Area
- Municipal Boundary
- County Boundary

Sheet 5 of 8



Notes:

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Cuyahoga County, Ohio

Figure 03-1: Geography and Topography
January 2017

- Bathymetry Contour
- Electric Transmission Line
- Recreational Resource
- Government Office
- Religious Institution
- School
- Electric Collection Line Envelope
- 2-Mile Facility Study Area
- Municipal Boundary
- County Boundary

Sheet 6 of 8

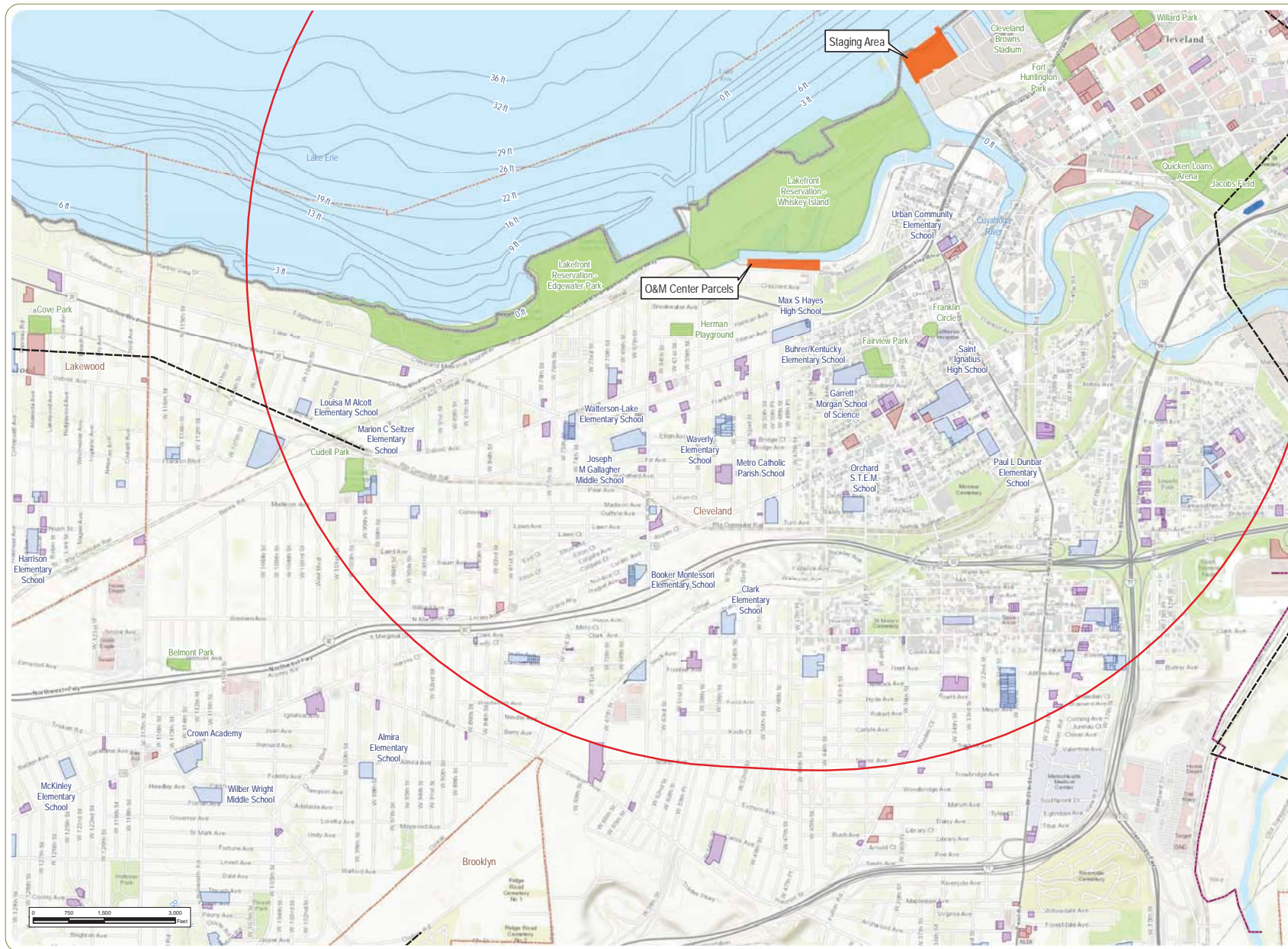


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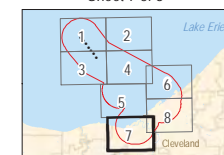
Icebreaker Wind

Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 03-1: Geography and Topography
January 2017

- Bathymetry Contour
- Electric Transmission Line
- Gas Transmission Pipeline
- Recreational Resource
- Government Office
- Religious Institution
- School
- University
- Ancillary Facility
- 2-Mile Facility Study Area
- Municipal Boundary
- County Boundary

Sheet 7 of 8

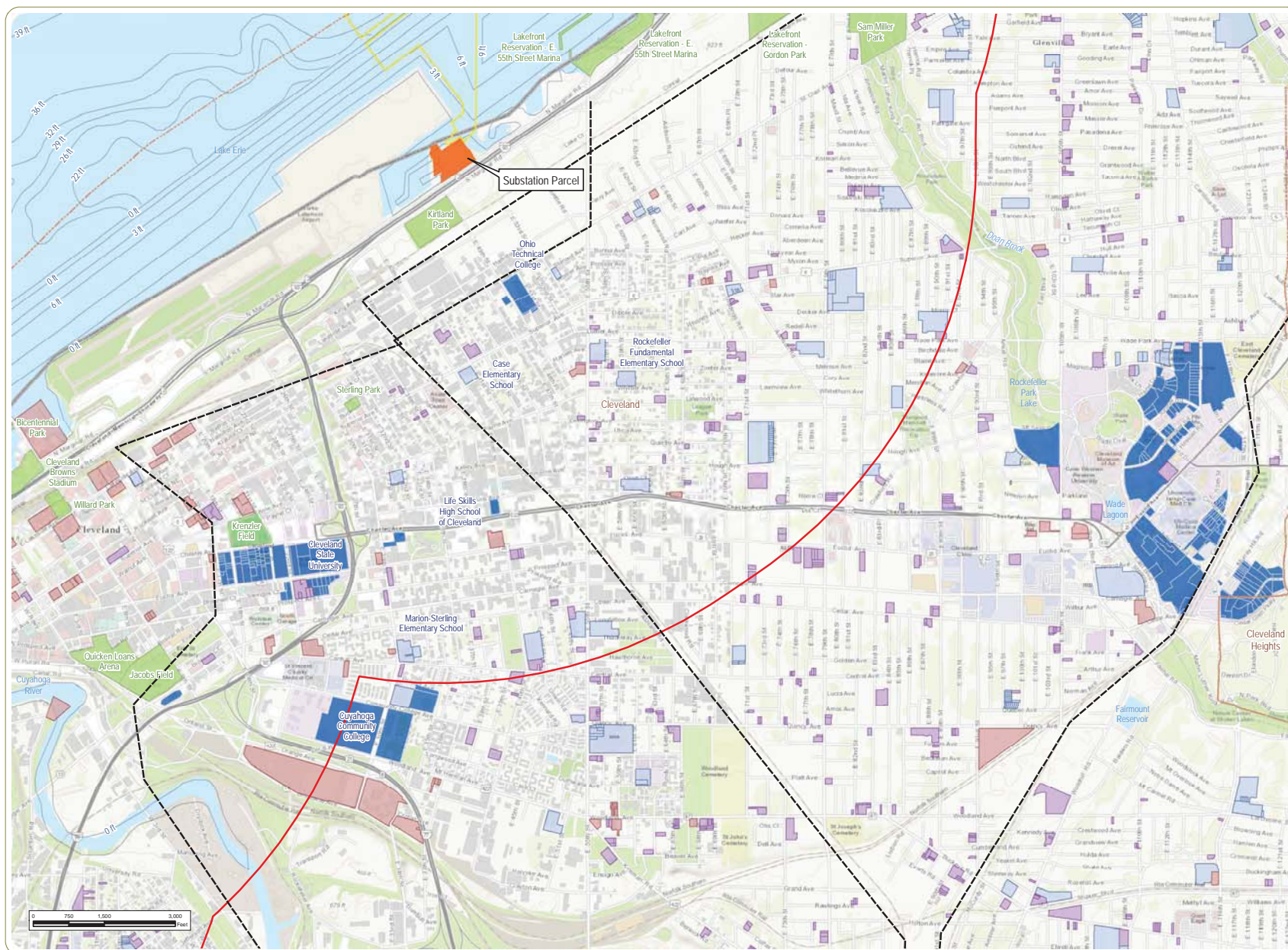


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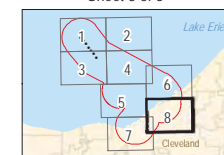


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Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 03-1: Geography and Topography
January 2017

- Bathymetry Contour
 - Electric Transmission Line
 - Recreational Resource
 - Government Office
 - Religious Institution
 - School
 - University
 - Ancillary Facility
 - Electric Collection Line Envelope
 - 2-Mile Facility Study Area
 - Municipal Boundary
 - County Boundary
- Sheet 8 of 8



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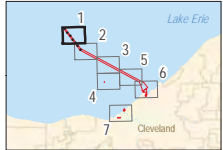
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 03-2: Aerial
Photography

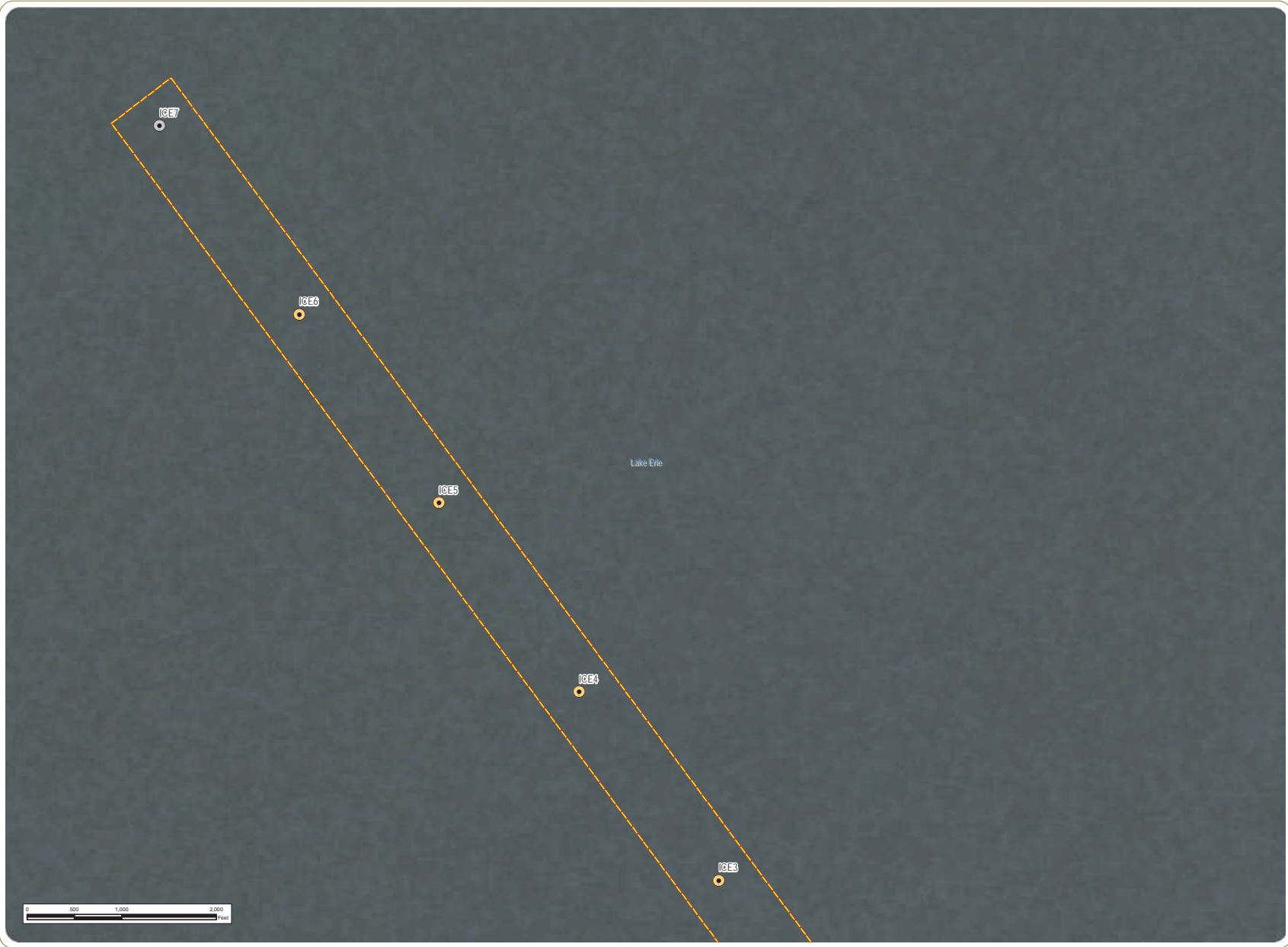
January 2017

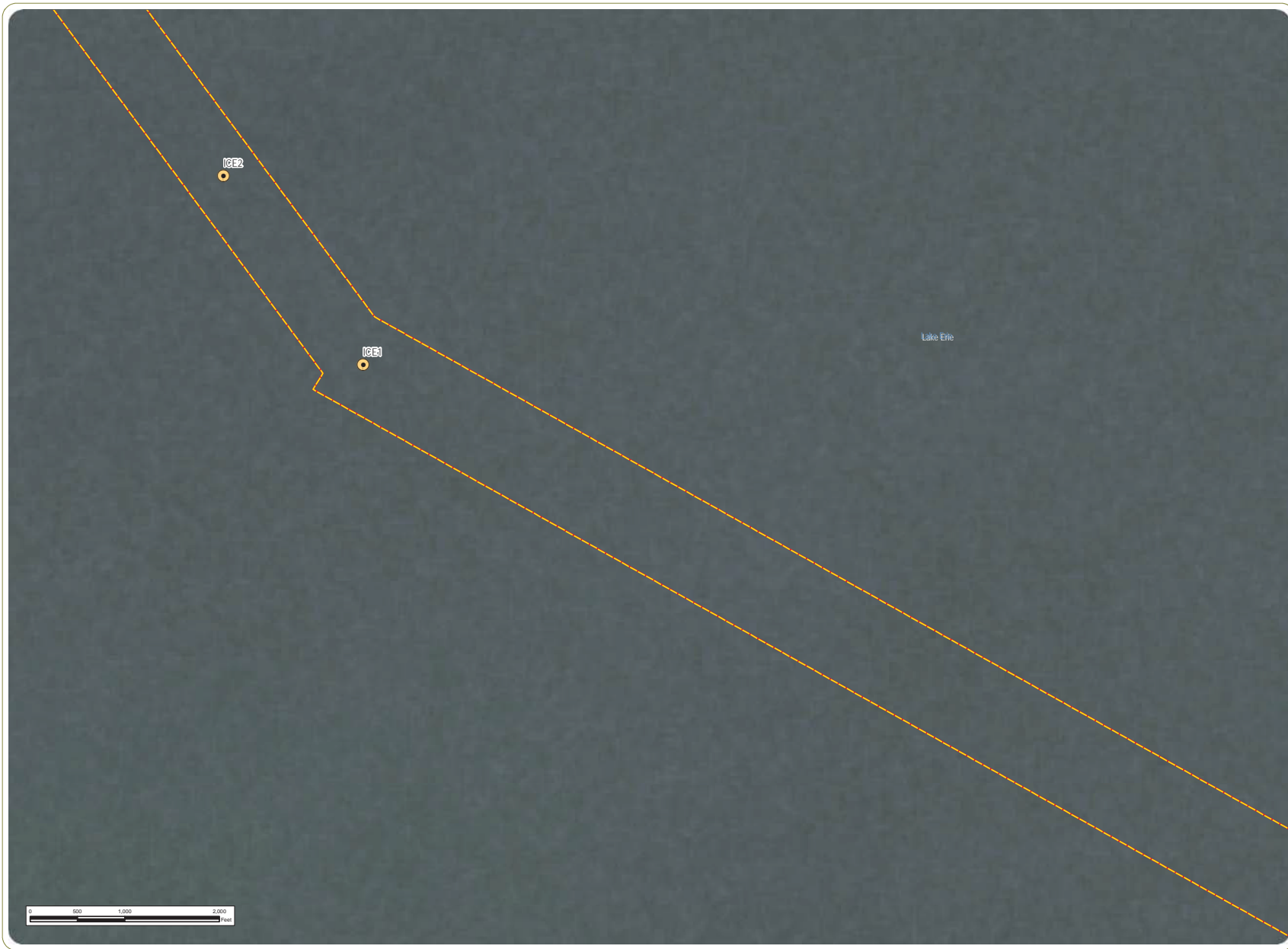
- Proposed Wind Turbine
- Alternate Wind Turbine
- Electric Collection Line Envelope
- Project Area

Sheet 1 of 7



Notes:
1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. Facility shapefiles generated by EDR per LeedCo specification.
3. Map Scale: 1:12,000








Icebreaker Wind

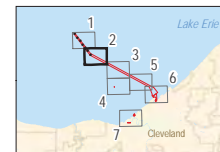
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 03-2: Aerial
Photography

January 2017

-  Proposed Wind Turbine
-  Electric Collection Line Envelope
-  Project Area

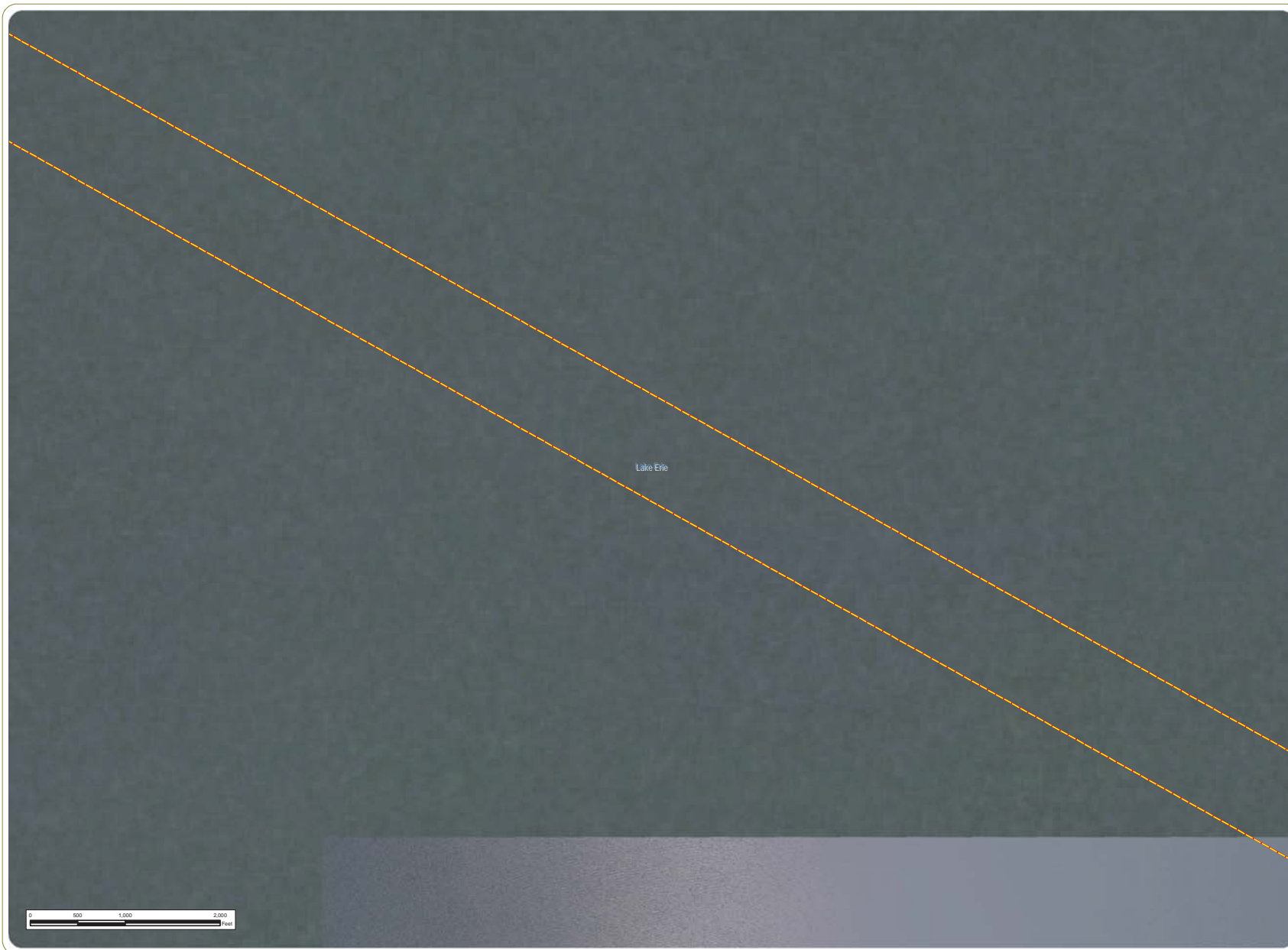
Sheet 2 of 7



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LeedCo specification.
3. Map Scale: 1:12,000



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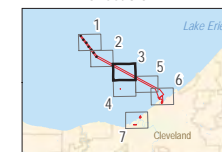
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 03-2: Aerial
Photography

January 2017

Electric Collection Line Envelope
Project Area

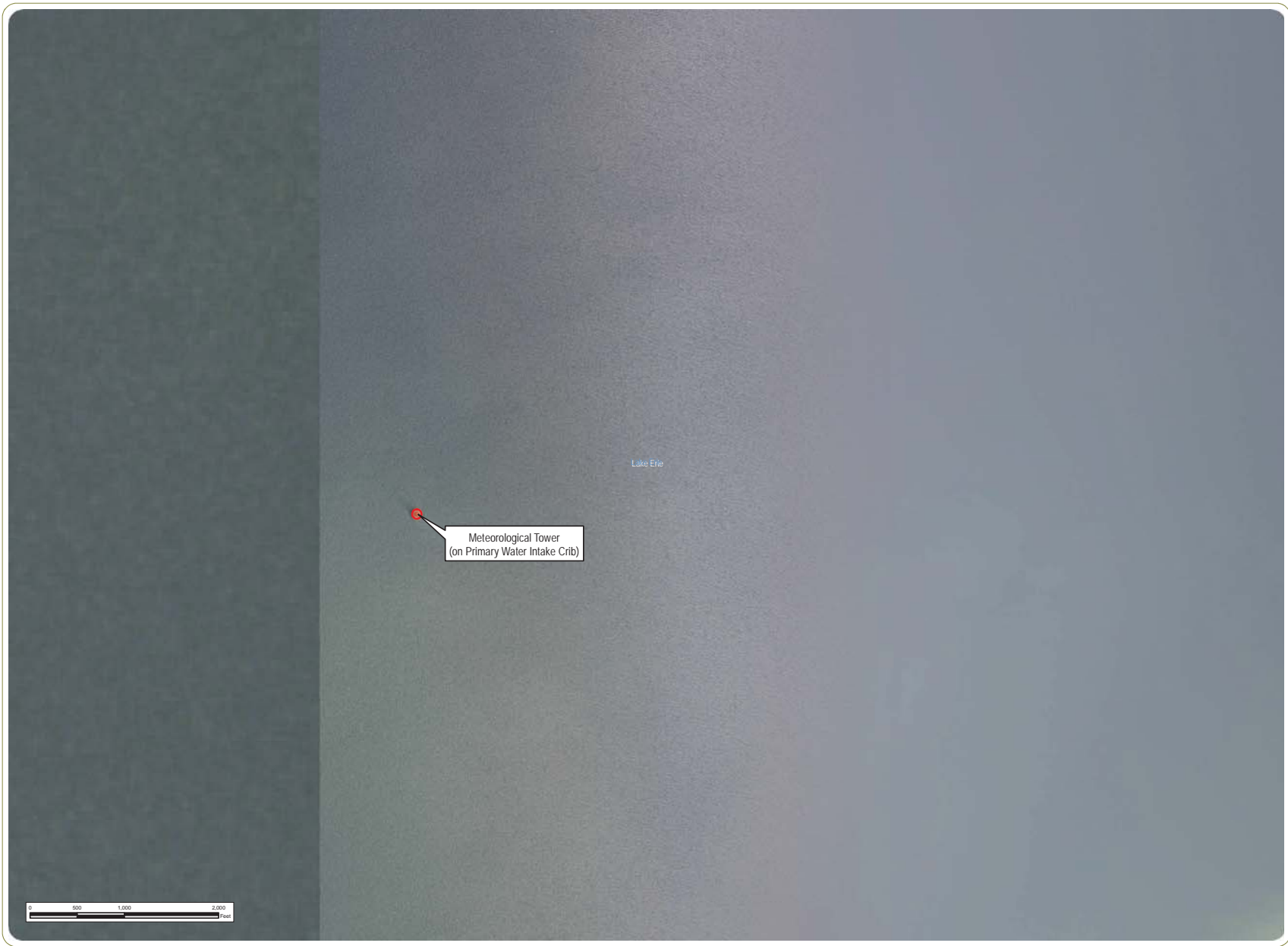
Sheet 3 of 7



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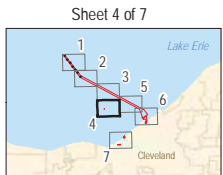
Icebreaker Wind

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Cuyahoga County, Ohio

Figure 03-2: Aerial
Photography

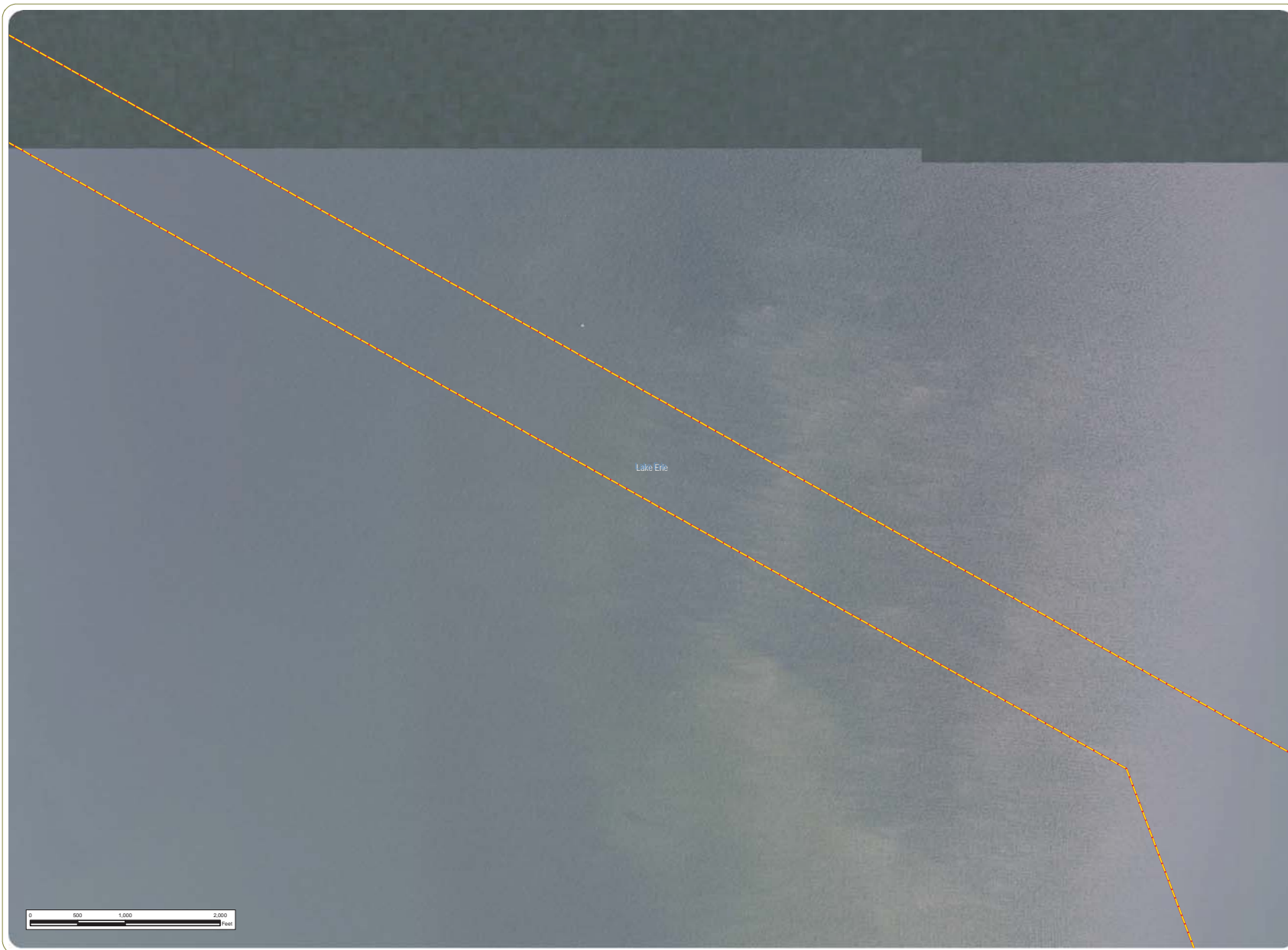
January 2017

Ancillary Facility
Project Area



Notes:
1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. Facility shapefiles generated by EDR per
LeedCo specification.
3. Map Scale: 1:12,000





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Cuyahoga County, Ohio

Figure 03-2: Aerial
Photography

January 2017

Electric Collection Line Envelope
Project Area

Sheet 5 of 7



Notes:

1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. Facility shapefiles generated by EDR per LeedCo specification.
3. Map Scale: 1:12,000



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Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 03-2: Aerial
Photography

January 2017

- Ancillary Facility
- Electric Collection Line Envelope
- Project Area
- Parcel Boundary
- Municipal Boundary
- County Boundary

Sheet 6 of 7



Notes:
1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. Facility shapefiles generated by EDR per LeadCo specification.
3. Map Scale: 1:12,000





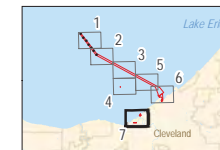
Icebreaker Wind Lake Erie, City of Cleveland Cuyahoga County, Ohio

Figure 03-2: Aerial
Photography

January 2017

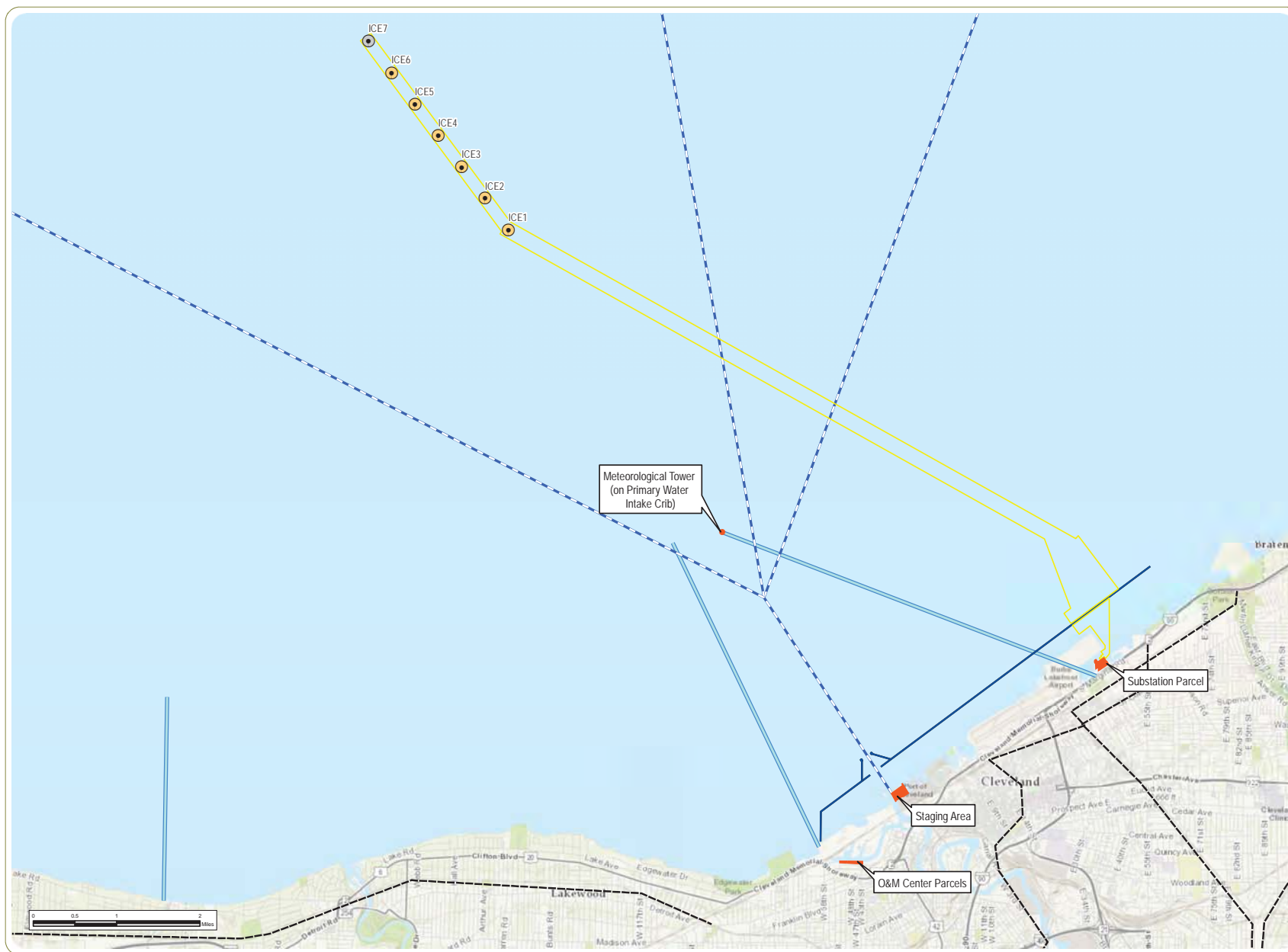
- Ancillary Facility
- Project Area
- Parcel Boundary
- Municipal Boundary
- County Boundary

Sheet 7 of 7



Notes:
1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. Facility shapefiles generated by EDR per LeedCo specification.
3. Map Scale: 1:12,000





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Cuyahoga County, Ohio

Figure 04-2: Constraint Map

January 2017

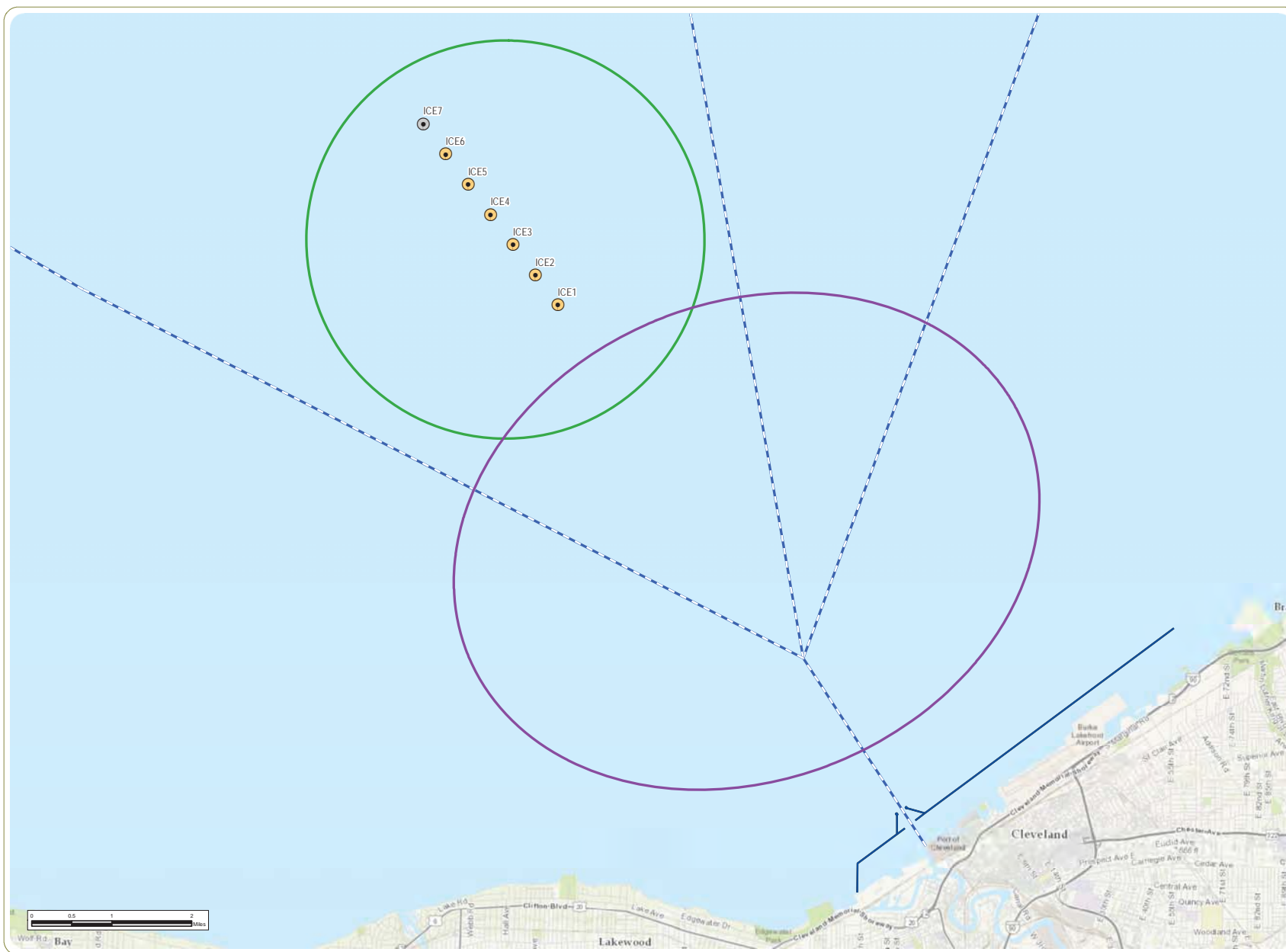
- Proposed Wind Turbine
- Alternate Wind Turbine
- Breakwater
- Shipping Lane
- Water Intake
- Electric Transmission Line
- Ancillary Facility
- Electric Collection Line Envelope

Notes:

1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
2. Shipping lanes and water intakes digitized by EDR based on NOAA Nautical Chart 14829. Breakwater digitized by EDR based on orthoimagery. Electric transmission lines digitized by EDR based on a map provided by PUCO. Facility shapefiles generated by EDR per LeedCo specification.
3. Map Scale: 1:72,000



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Cuyahoga County, Ohio

Figure 04-1: Study Areas Evaluated

January 2017

- Proposed Wind Turbine
- Alternate Wind Turbine
- Breakwater
- - - Shipping Lane
- Area Evaluated in 2009 Feasibility Study
- Area Evaluated in 2014 NREL Wind Optimization Study

Notes:

1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
2. Shipping lanes digitized by EDR based on NOAA Nautical Chart 14829. Breakwater digitized by EDR based on orthoimagery.
3. Study Areas generated by EDR based on the mapping presented in Certificate Application Section 4906-4-04(A)(2). Facility shapefiles generated by EDR per LeedCo specification.
4. Turbine layouts considered within these study areas are displayed in Insets _ and _ of Certificate Application Section 4906-4-04(A)(2).
5. Map Scale: 1:75,000



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Figure 07-1: Water Monitoring and Gauging Stations

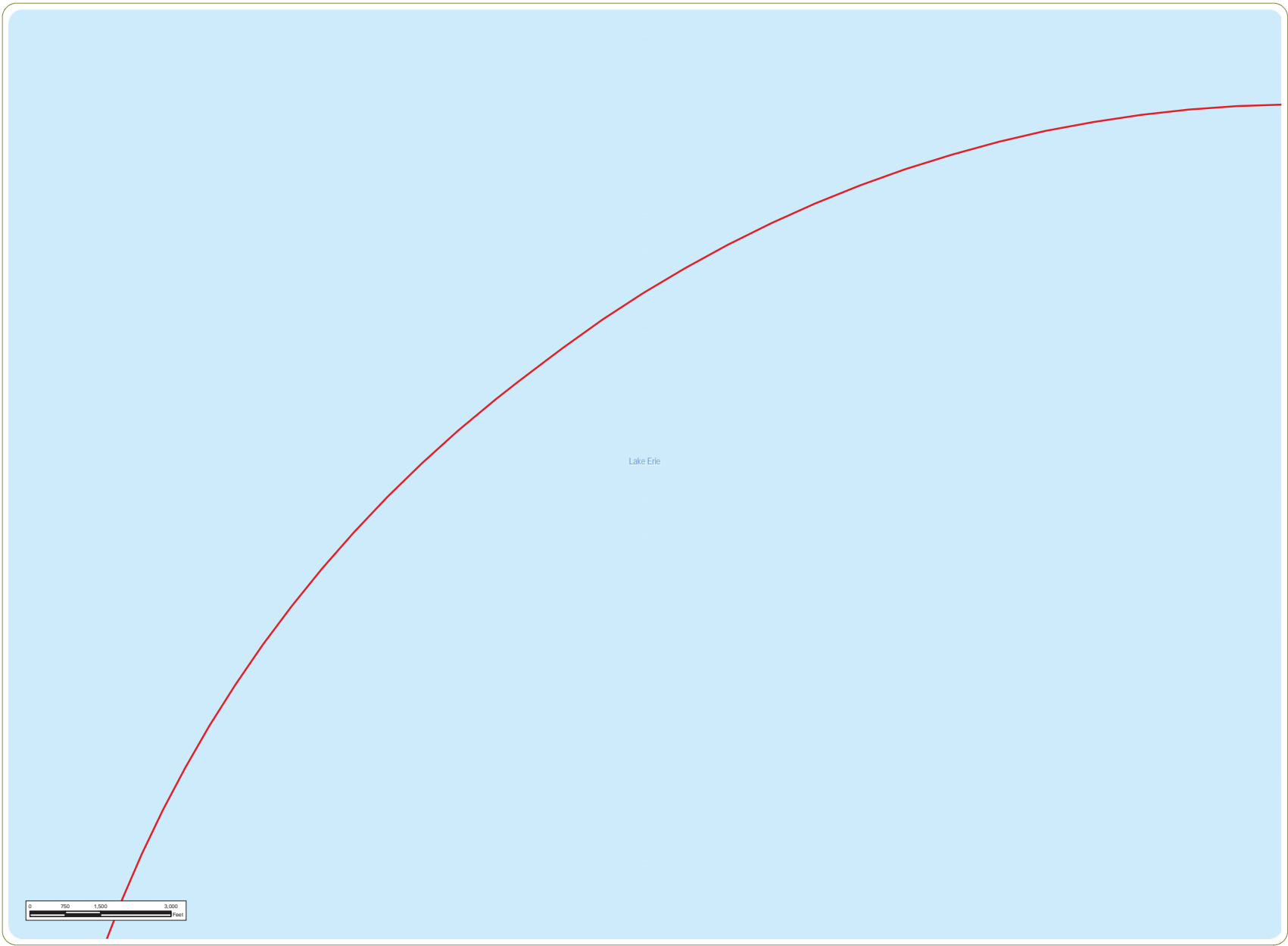
January 2017

- ★ Water Monitoring and Gauging Station
- ⊙ Proposed Wind Turbine
- ⊙ Alternate Wind Turbine
- ▭ Electric Collection Line Envelope



- Notes:**
1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
 2. Water monitoring and gauging station coordinates obtained from Limno Tech. Facility shapefiles generated by EDR per LeedCo specification.
 3. The water monitoring and gauging stations depicted will be utilized during the pre-construction, construction, and operation phases of the Project.
 4. Map Scale: 1:24,000





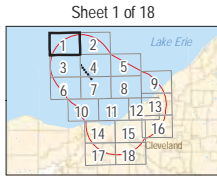
Icebreaker Wind

Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation
Facilities

January 2017

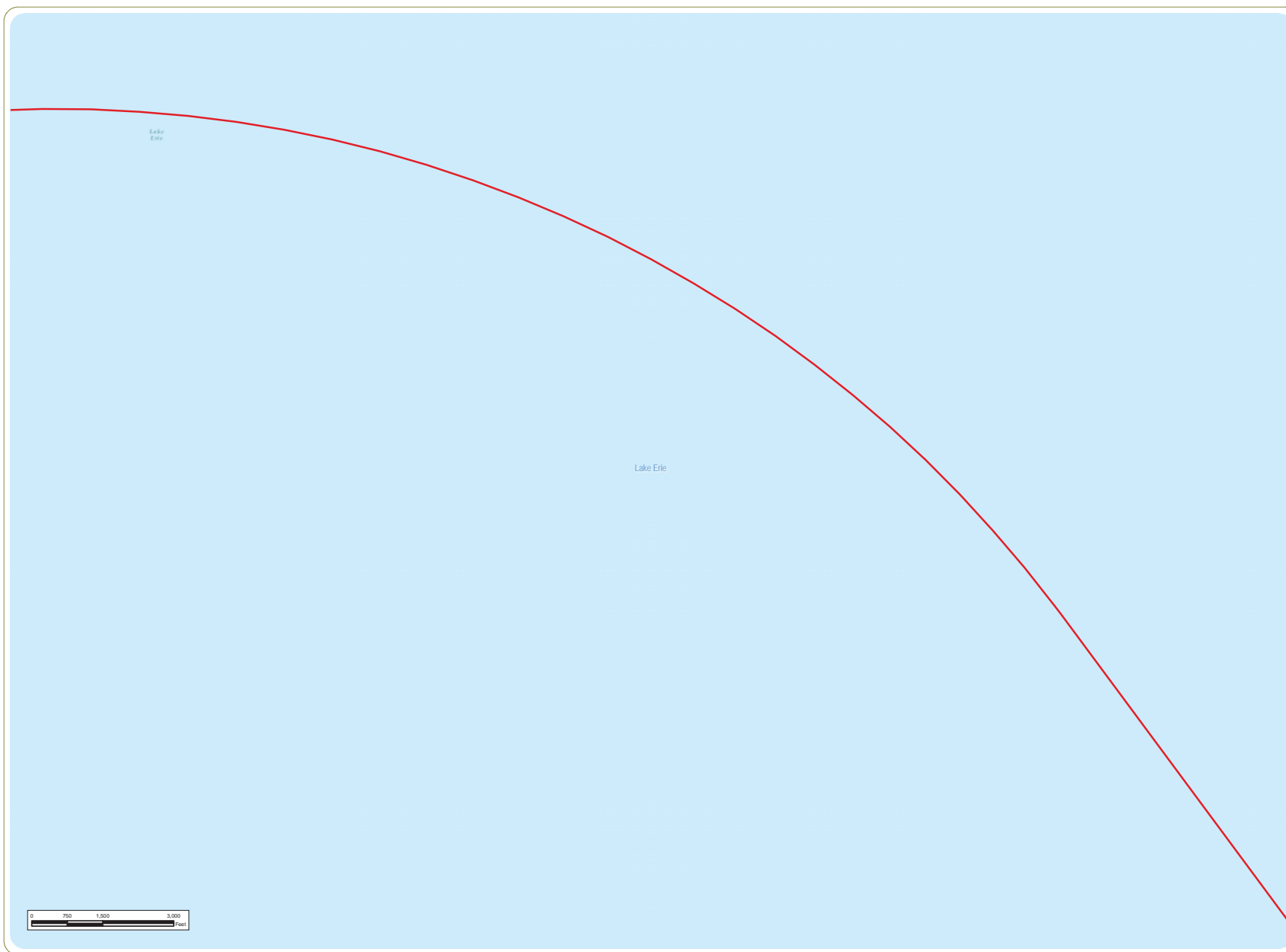
5-Mile Facility Study Area



- Notes:
- 1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
 - 2. Aviation facilities shapefiles obtained from State of Ohio GIS and FAA. Facility shapefiles generated by EDR per LeedCo specification.
 - 3. Map Scale: 1:24,000



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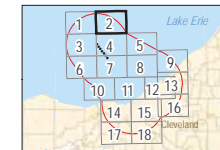
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation Facilities

January 2017

 5-Mile Facility Study Area

Sheet 2 of 18



Notes:

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2. Aviation facilities shapefiles obtained from State of Ohio GIS and FAA. Facility shapefiles generated by EDR per LeedCo specification.
3. Map Scale: 1:24,000



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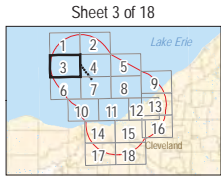
Icebreaker Wind

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Cuyahoga County, Ohio

**Figure 07-2: Aviation
Facilities**

January 2017

- Electric Collection Line Envelope
- 5-Mile Facility Study Area



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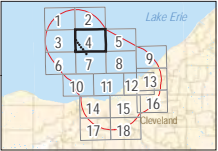
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation
Facilities

January 2017

- Proposed Wind Turbine
- Alternate Wind Turbine
- Electric Collection Line Envelope
- 5-Mile Facility Study Area

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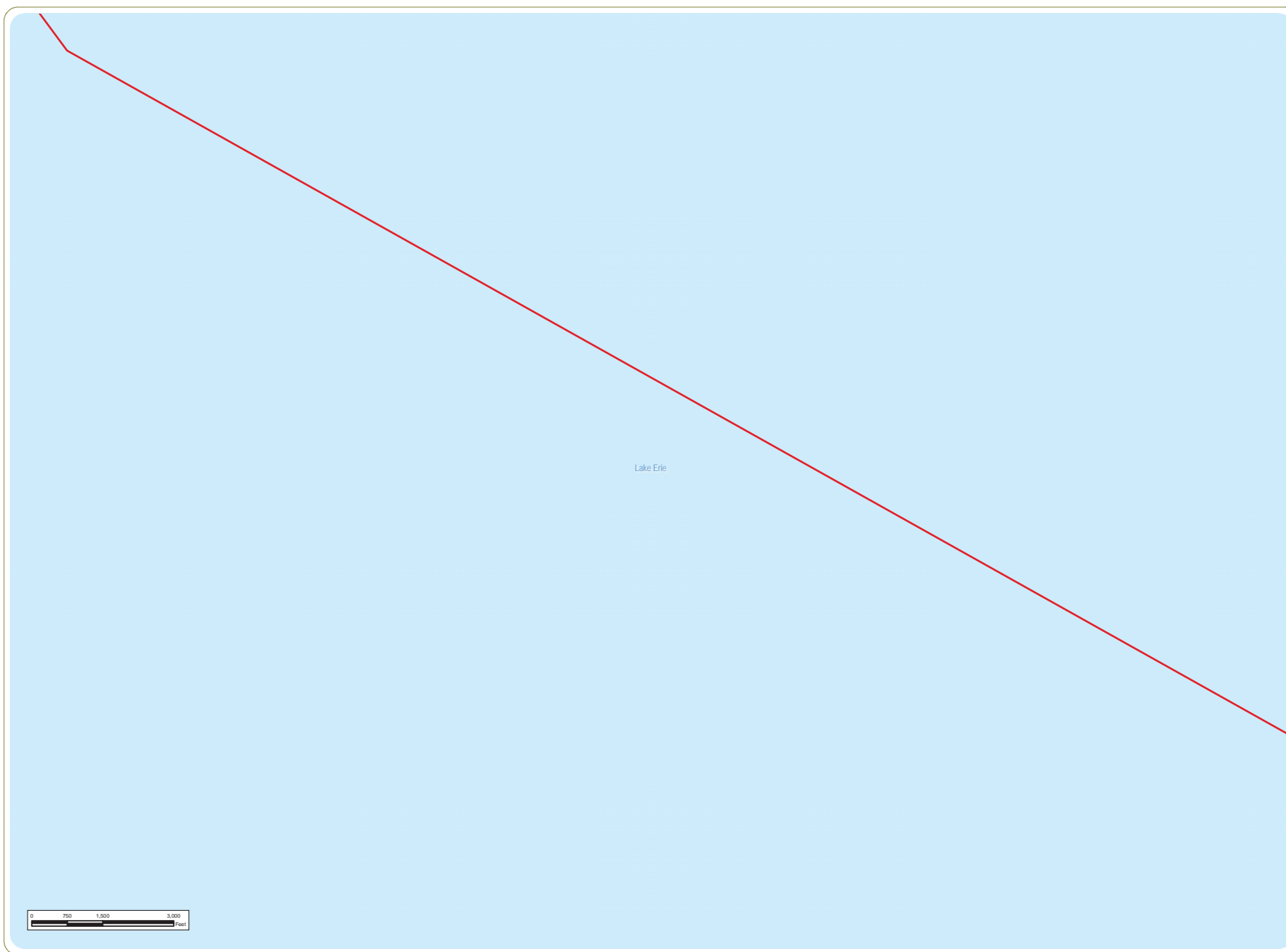
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Lake Erie





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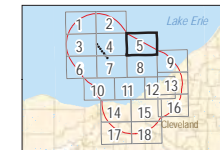
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation
Facilities

January 2017

 5-Mile Facility Study Area

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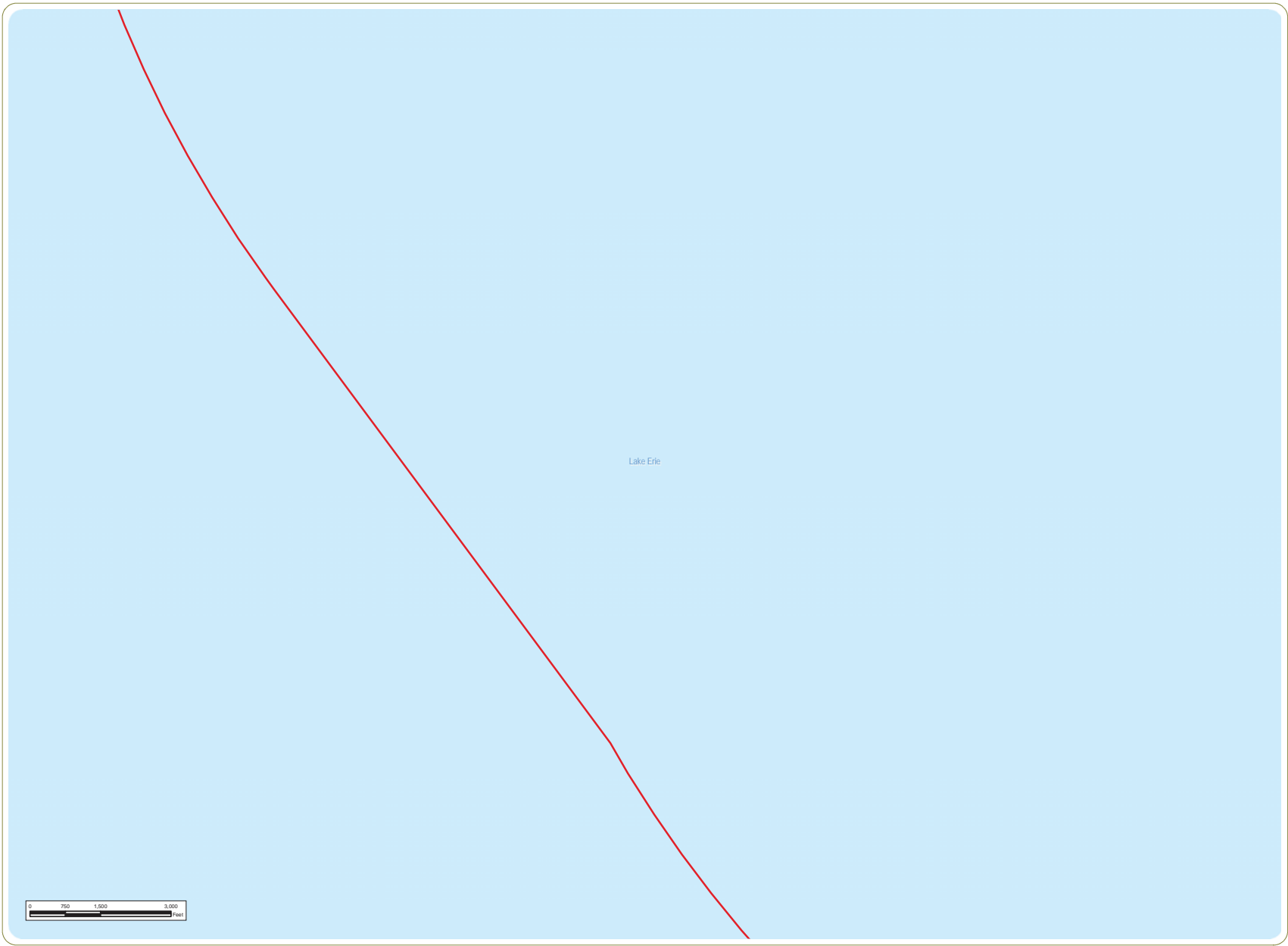


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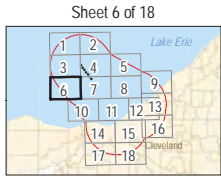
Icebreaker Wind

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Cuyahoga County, Ohio

**Figure 07-2: Aviation
Facilities**

January 2017

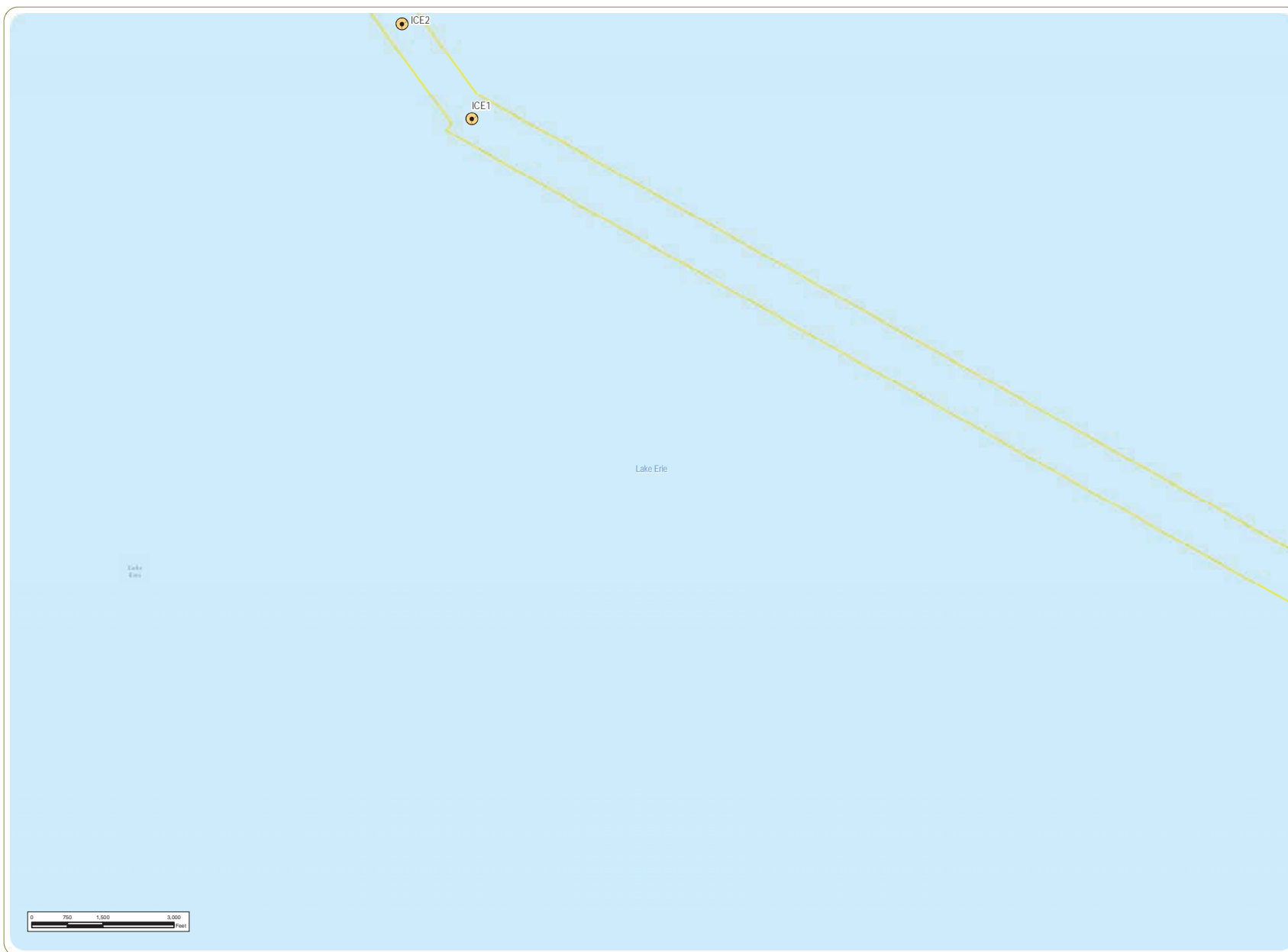
 5-Mile Facility Study Area



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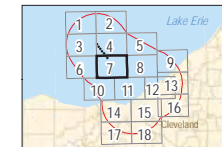
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Figure 07-2: Aviation Facilities

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-  Electric Collection Line Envelope
-  5-Mile Facility Study Area

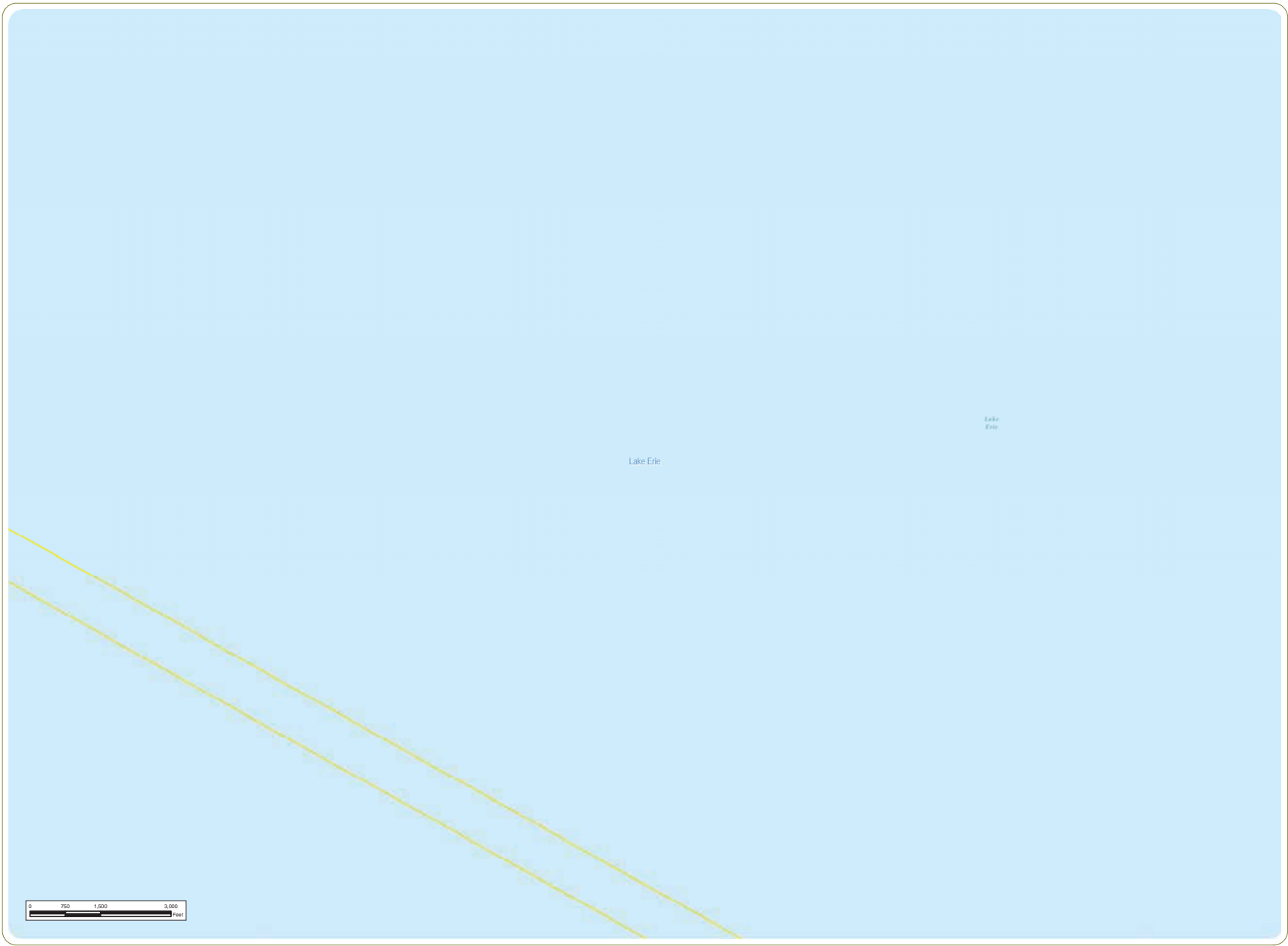
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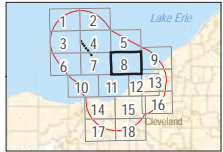
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Cuyahoga County, Ohio

**Figure 07-2: Aviation
Facilities**

January 2017

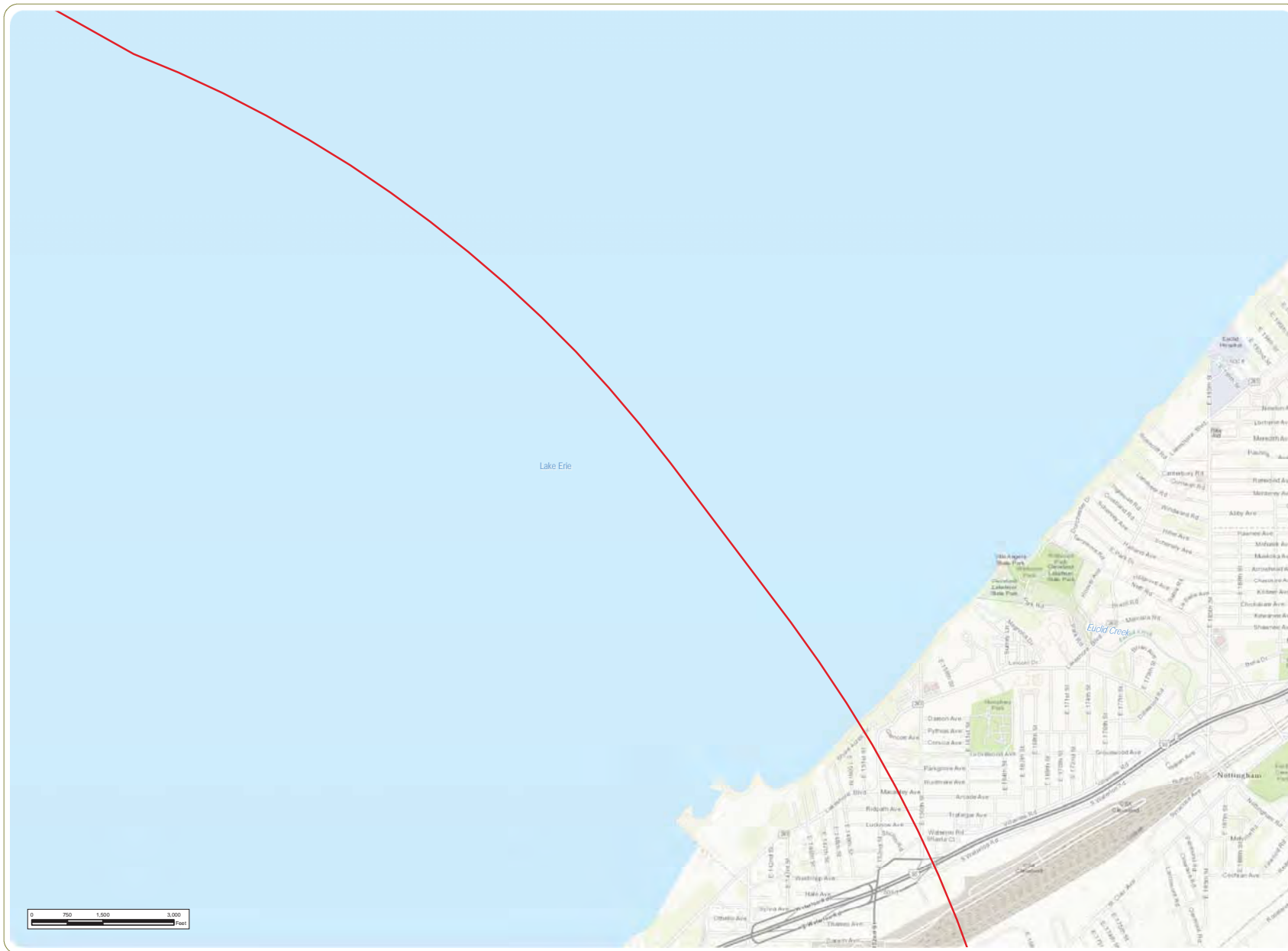
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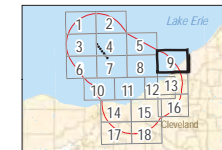
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Cuyahoga County, Ohio

Figure 07-2: Aviation Facilities

January 2017

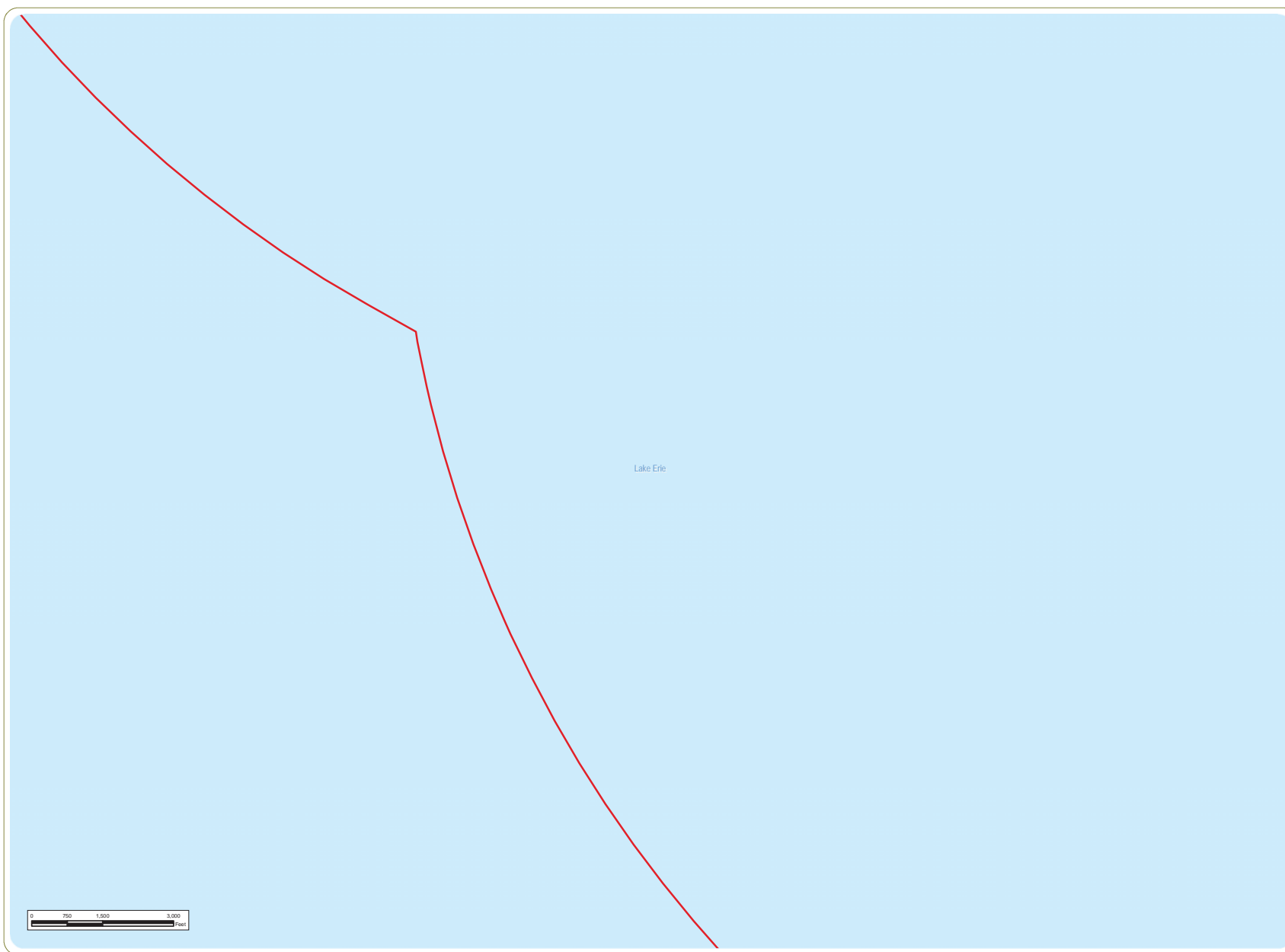
5-Mile Facility Study Area

Sheet 9 of 18



Notes:
1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
2. Aviation facilities shapefiles obtained from State of Ohio GIS and FAA. Facility shapefiles generated by EDR per LeedCo specification.
3. Map Scale: 1:24,000





Icebreaker Wind

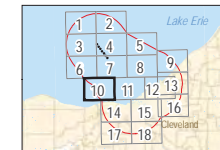
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation Facilities

January 2017

 5-Mile Facility Study Area

Sheet 10 of 18

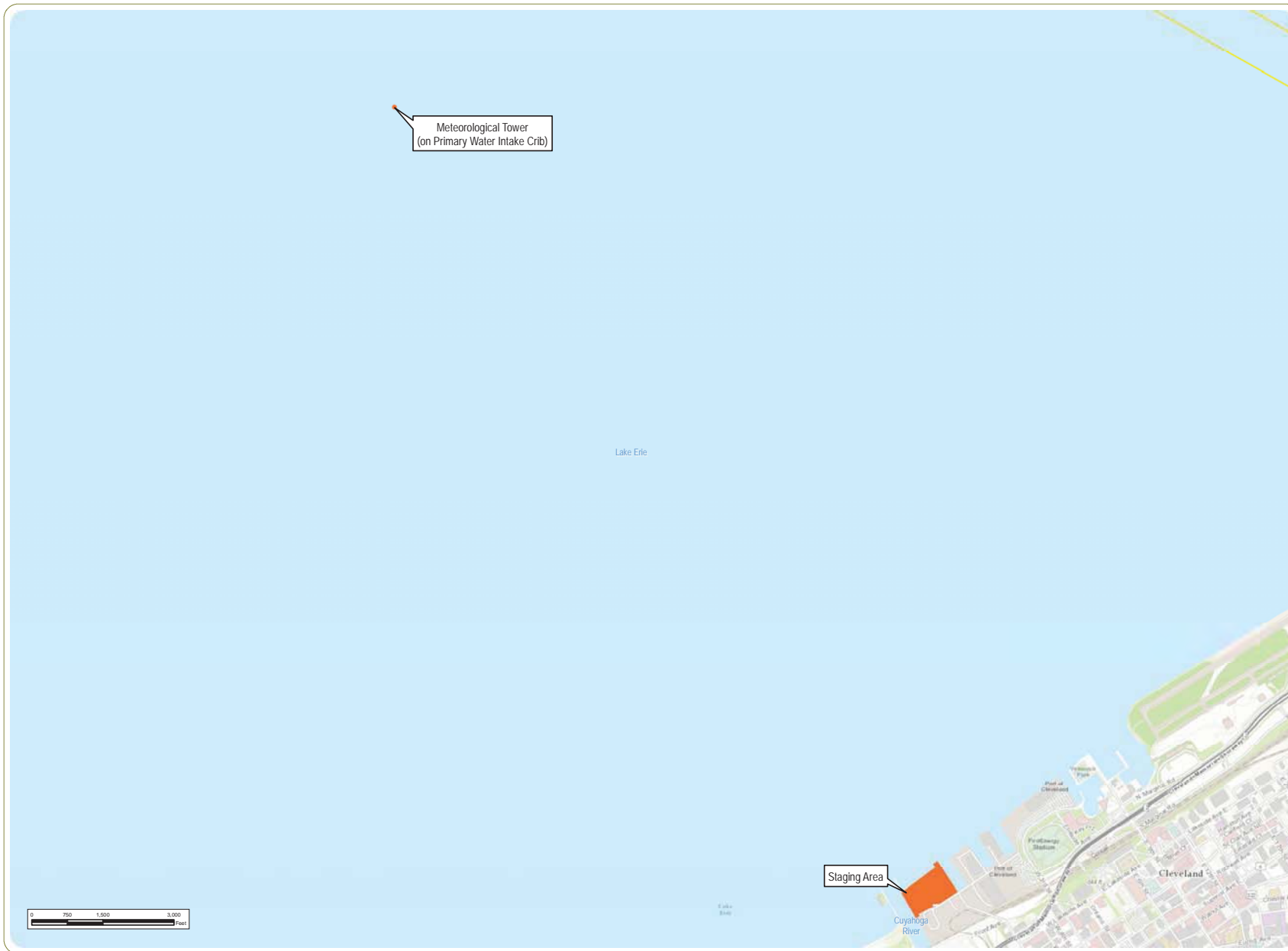


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3. Map Scale: 1:24,000



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Icebreaker Wind

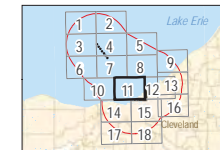
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation Facilities

January 2017

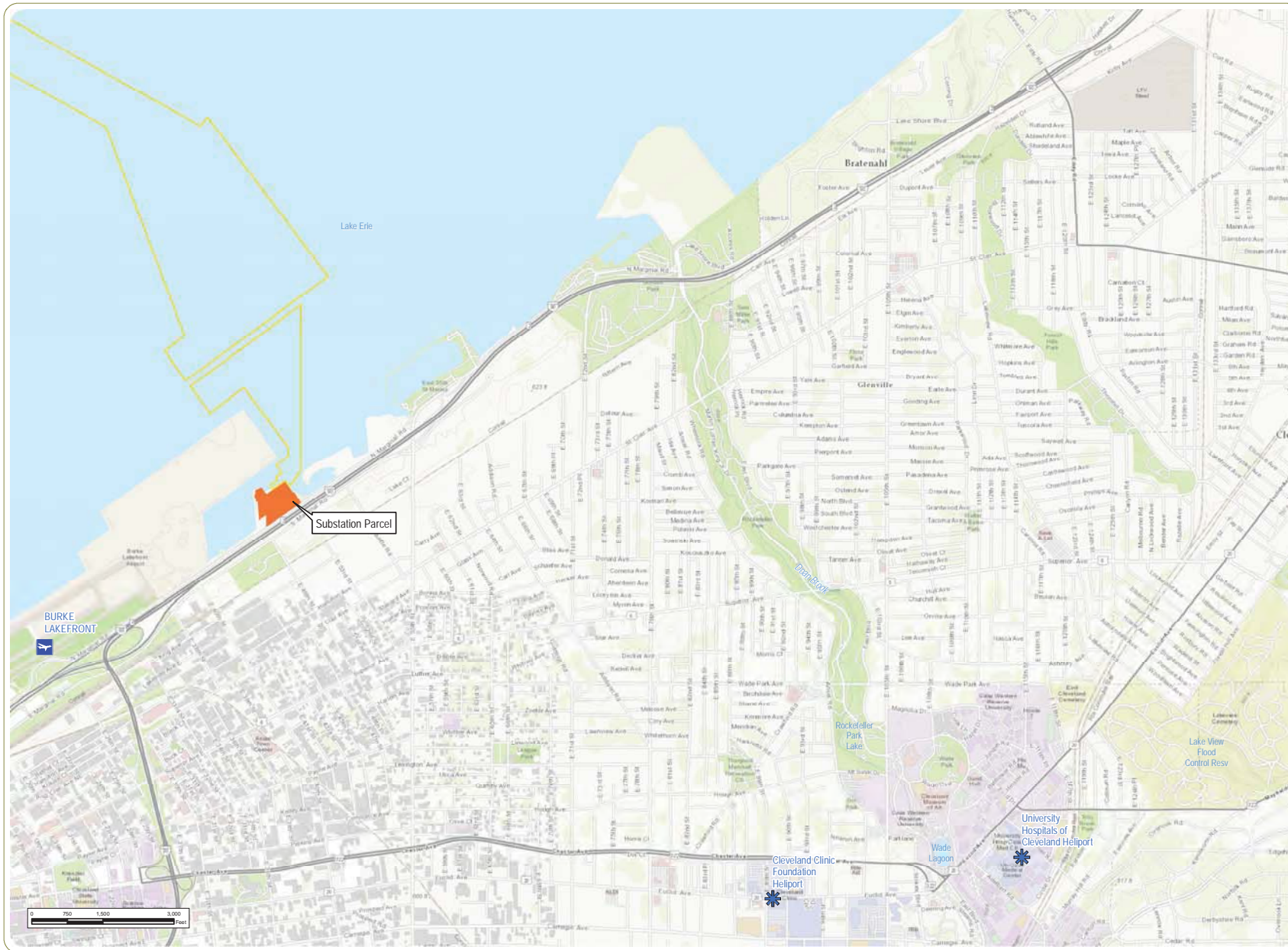
- Airport
- Ancillary Facility
- Electric Collection Line Envelope
- 5-Mile Facility Study Area

Sheet 11 of 18



- Notes:
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 2. Aviation facilities shapefiles obtained from State of Ohio GIS and FAA. Facility shapefiles generated by EDR per LeedCo specification.
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Icebreaker Wind

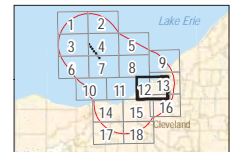
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation
Facilities

January 2017

- Airport
- Heliport
- Ancillary Facility
- Electric Collection Line Envelope
- 5-Mile Facility Study Area

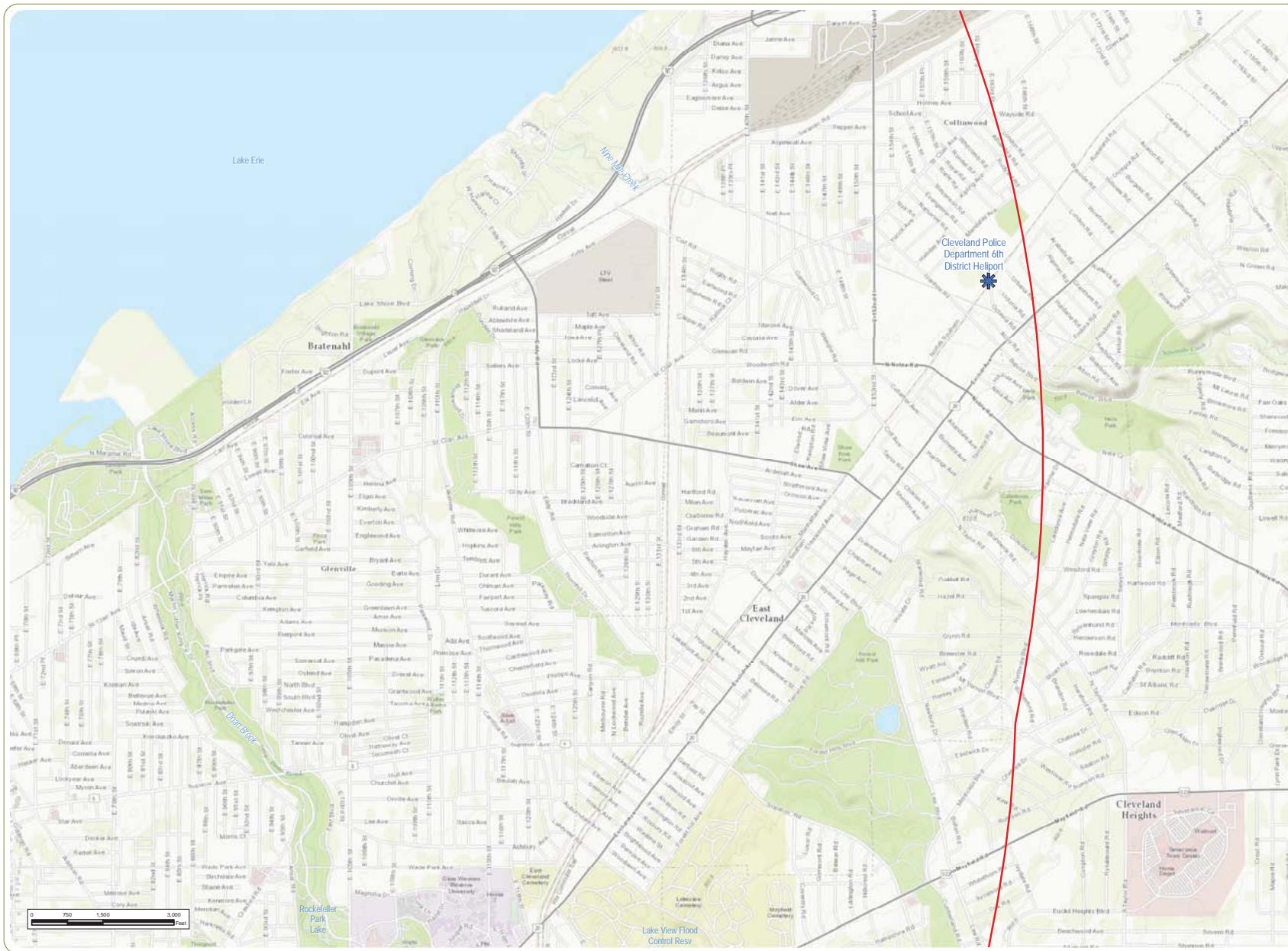
Sheet 12 of 18



- Notes:
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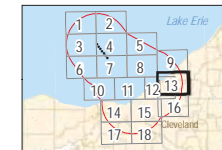
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation Facilities

January 2017

- Helipad
- 5-Mile Facility Study Area

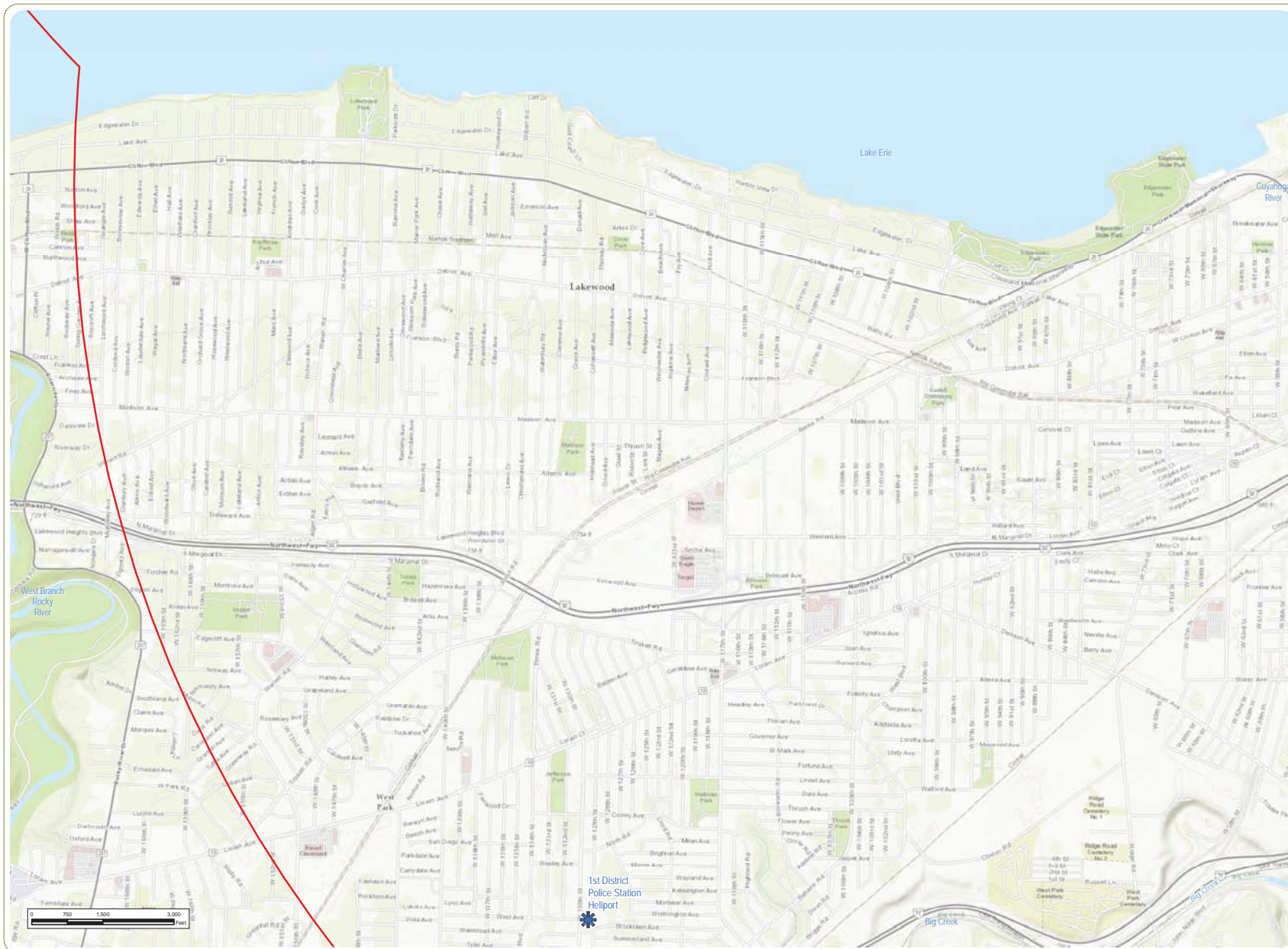
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- Notes:
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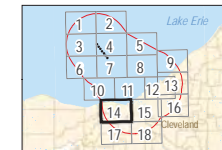
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation Facilities

January 2017

- Helipoint
- 5-Mile Facility Study Area

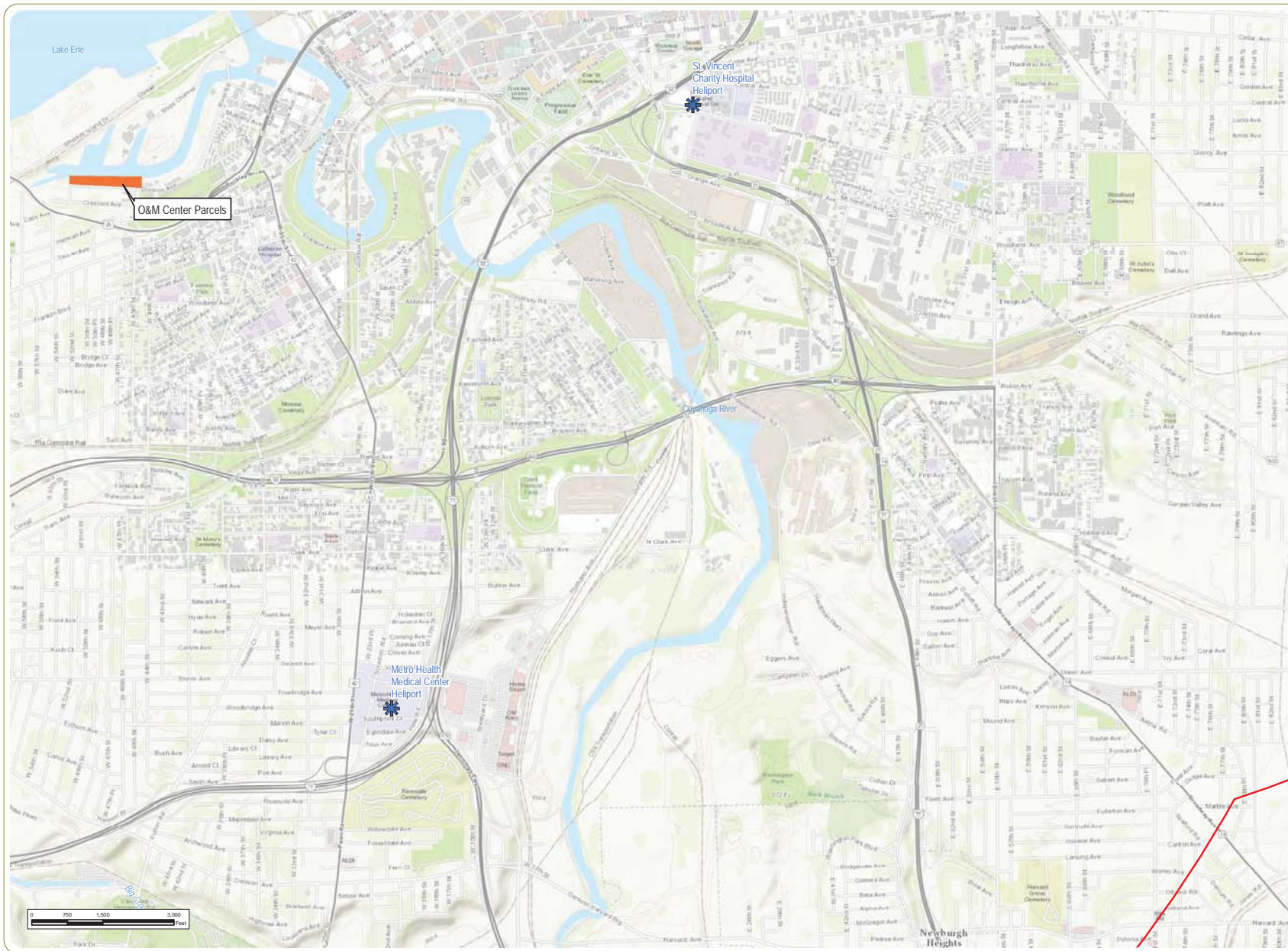
Sheet 14 of 18



- Notes:
1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
 2. Aviation facilities shapefiles obtained from State of Ohio GIS and FAA. Facility shapefiles generated by EDR per LeedCo specification.
 3. Map Scale: 1:24,000



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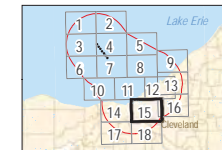
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation Facilities

January 2017

-  Helipoint
-  Ancillary Facility
-  5-Mile Facility Study Area

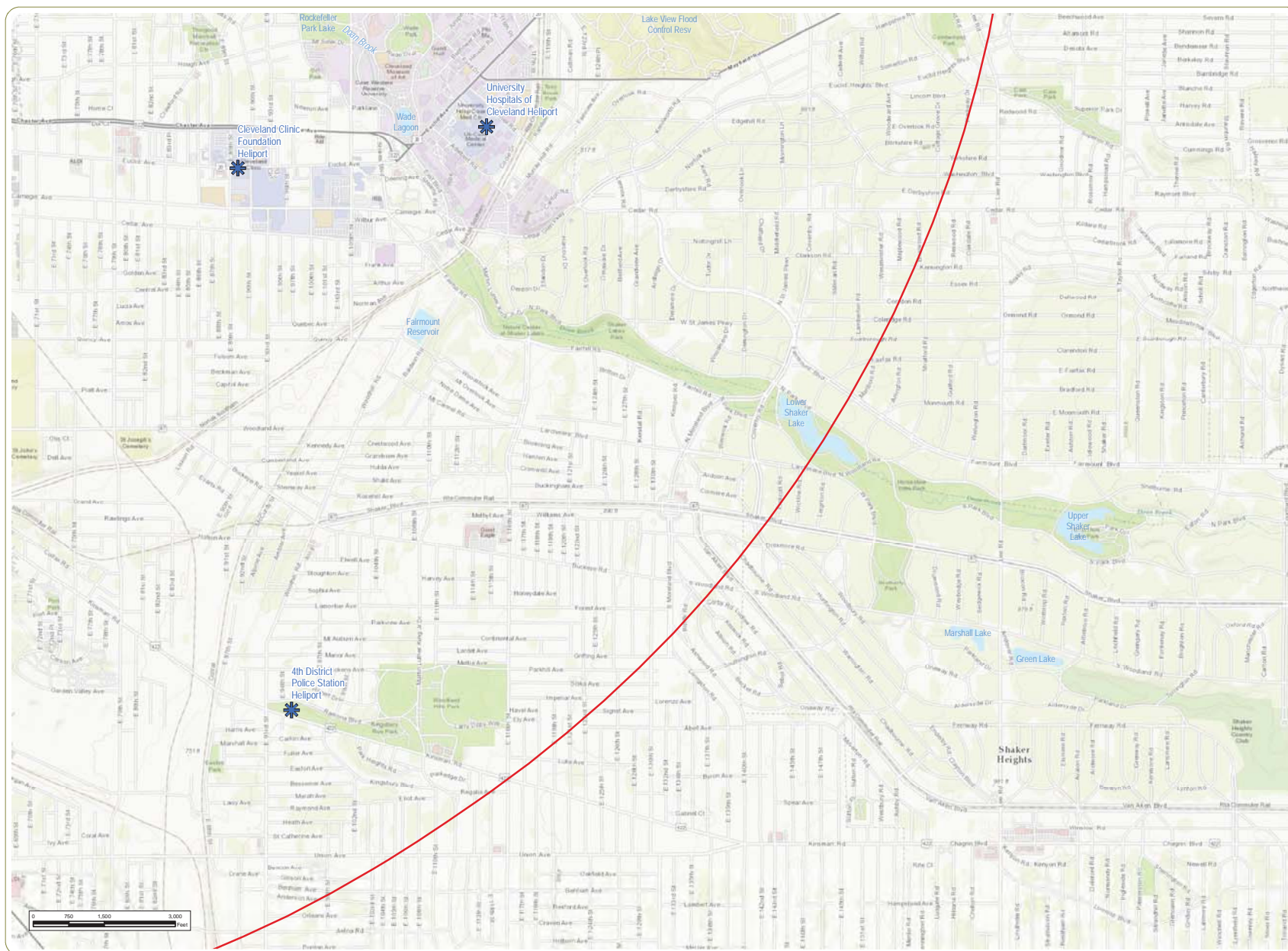
Sheet 15 of 18



- Notes:
1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
 2. Aviation facilities shapefiles obtained from State of Ohio GIS and FAA. Facility shapefiles generated by EDR per LeedCo specification.
 3. Map Scale: 1:24,000



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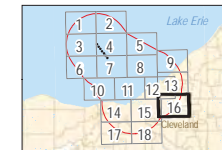
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation Facilities

January 2017

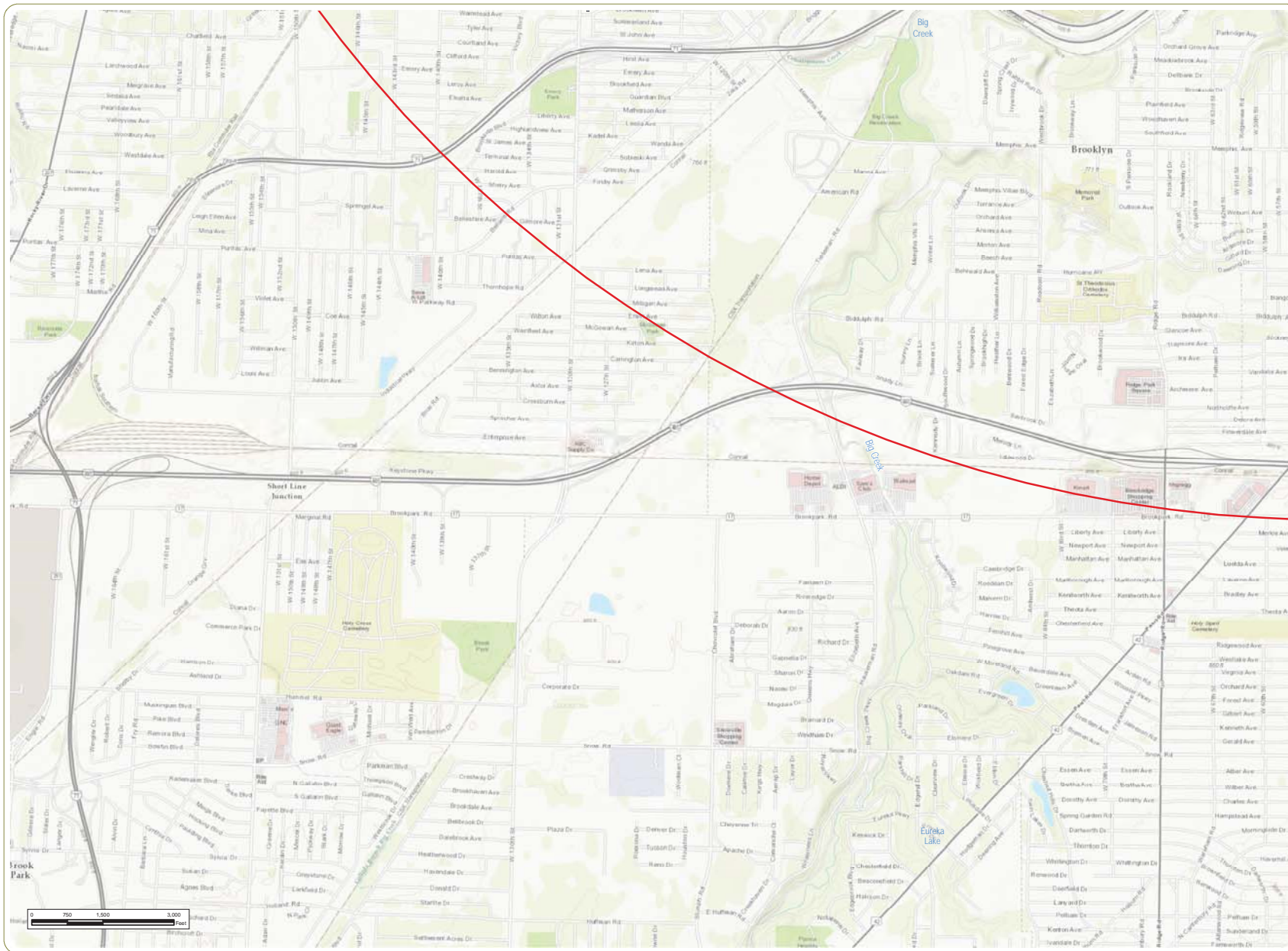
-  Helipoint
-  5-Mile Facility Study Area

Sheet 16 of 18



- Notes:
1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
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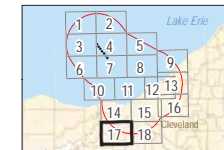
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation Facilities

January 2017

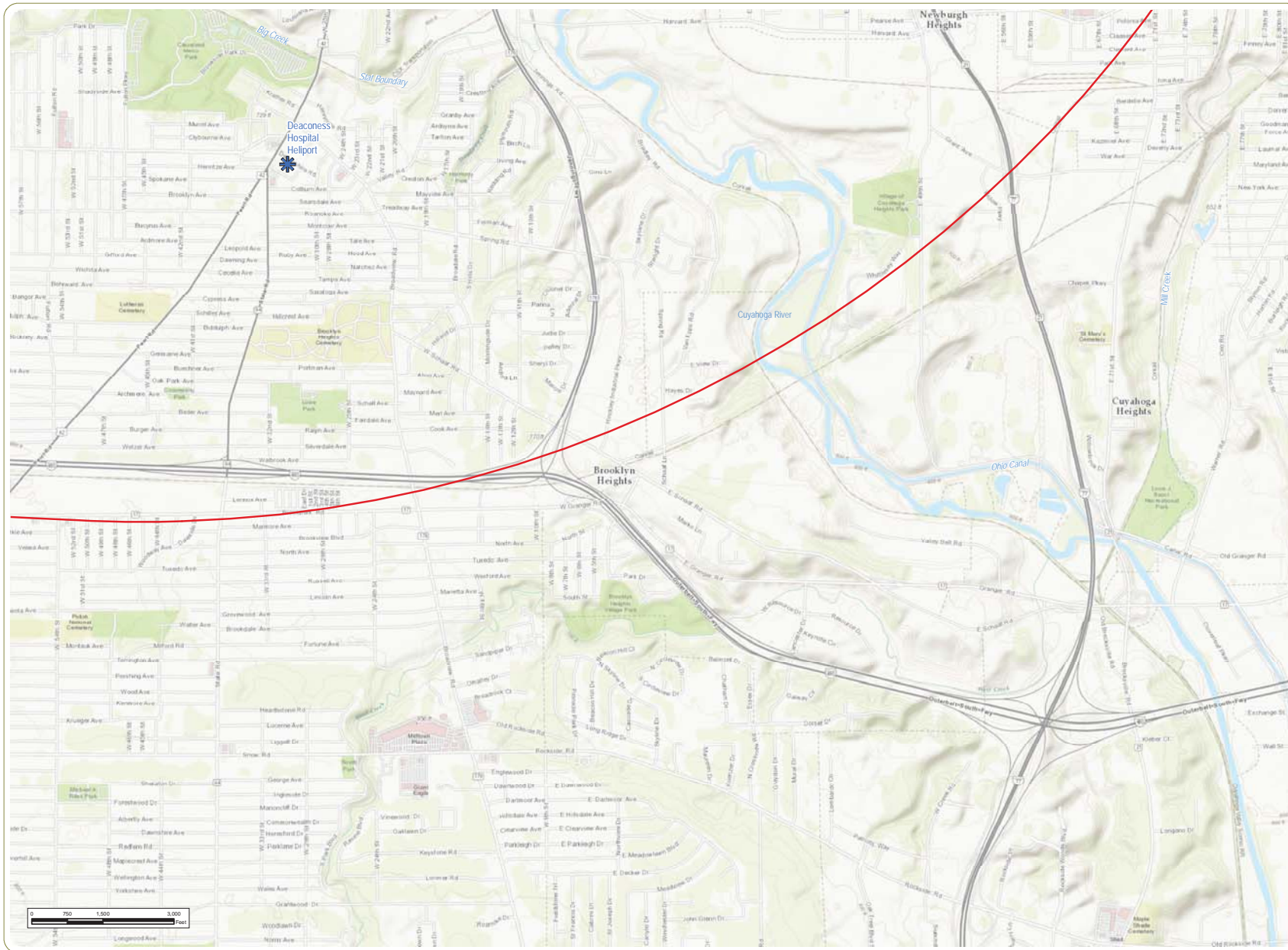
-  Helipoint
-  5-Mile Facility Study Area

Sheet 17 of 18



- Notes:
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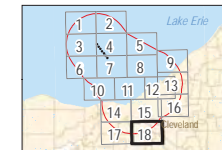
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 07-2: Aviation Facilities

January 2017

- Helipoint
- 5-Mile Facility Study Area

Sheet 18 of 18



- Notes:
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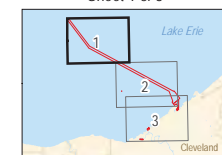
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-2: Existing Features

January 2017

-  Proposed Wind Turbine
-  Alternate Wind Turbine
-  Bathymetry Contour
-  Electric Collection Line Envelope

Sheet 1 of 3



- Notes:**
1. Basemap: ESRI StreetMap North America, 2008.
 2. Well data obtained from ODNR; topographic contours obtained from Cuyahoga County GIS FTP site; bedrock geology obtained from the USGS website; bathymetry obtained from the Great Lakes Information Network; facility shapefiles generated by EDR per LeedCo specification.
 3. Map Scale: 1:24,000



Icebreaker Wind

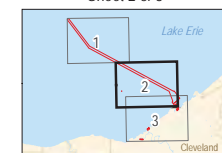
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-2: Existing Features

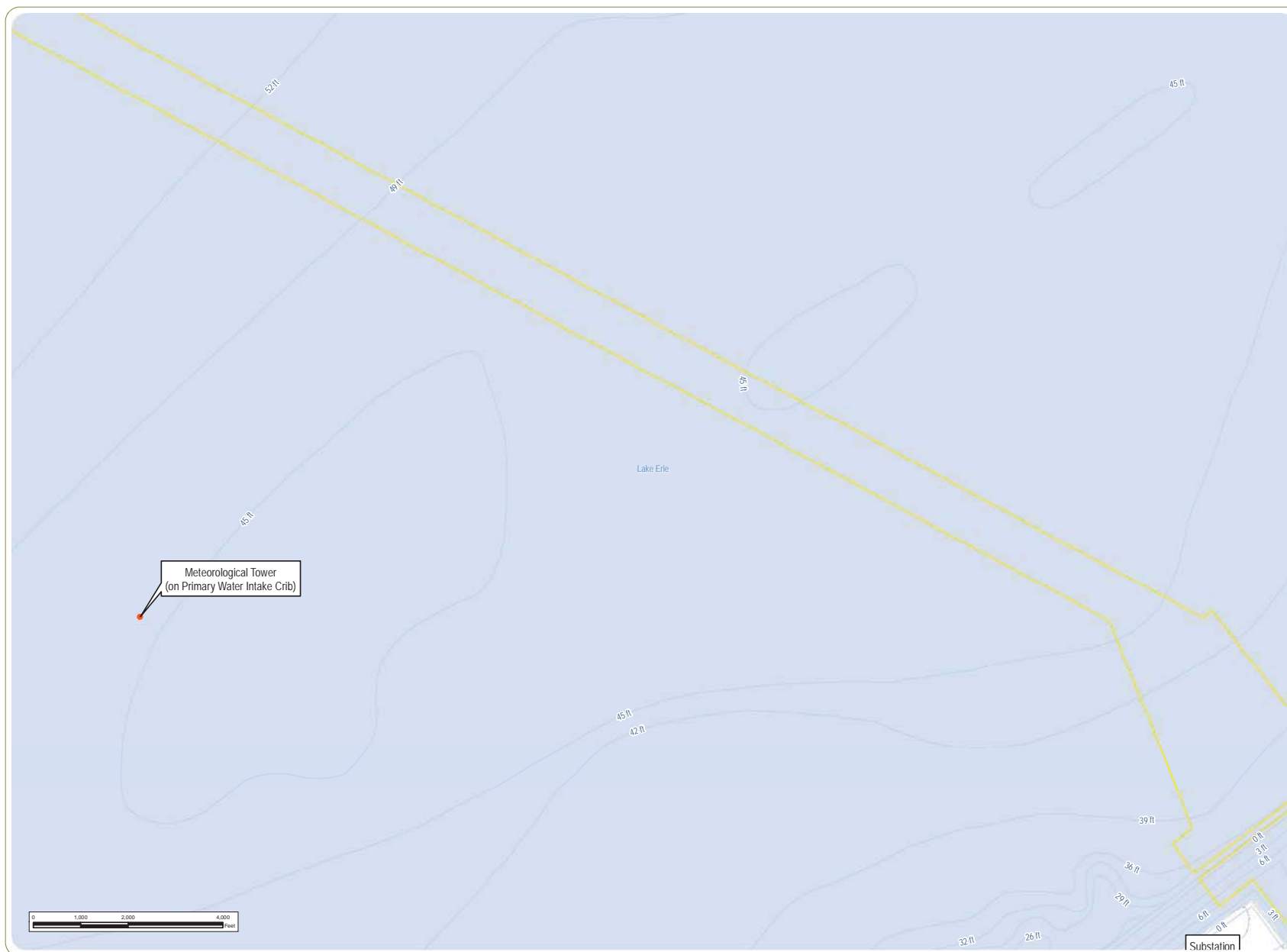
January 2017

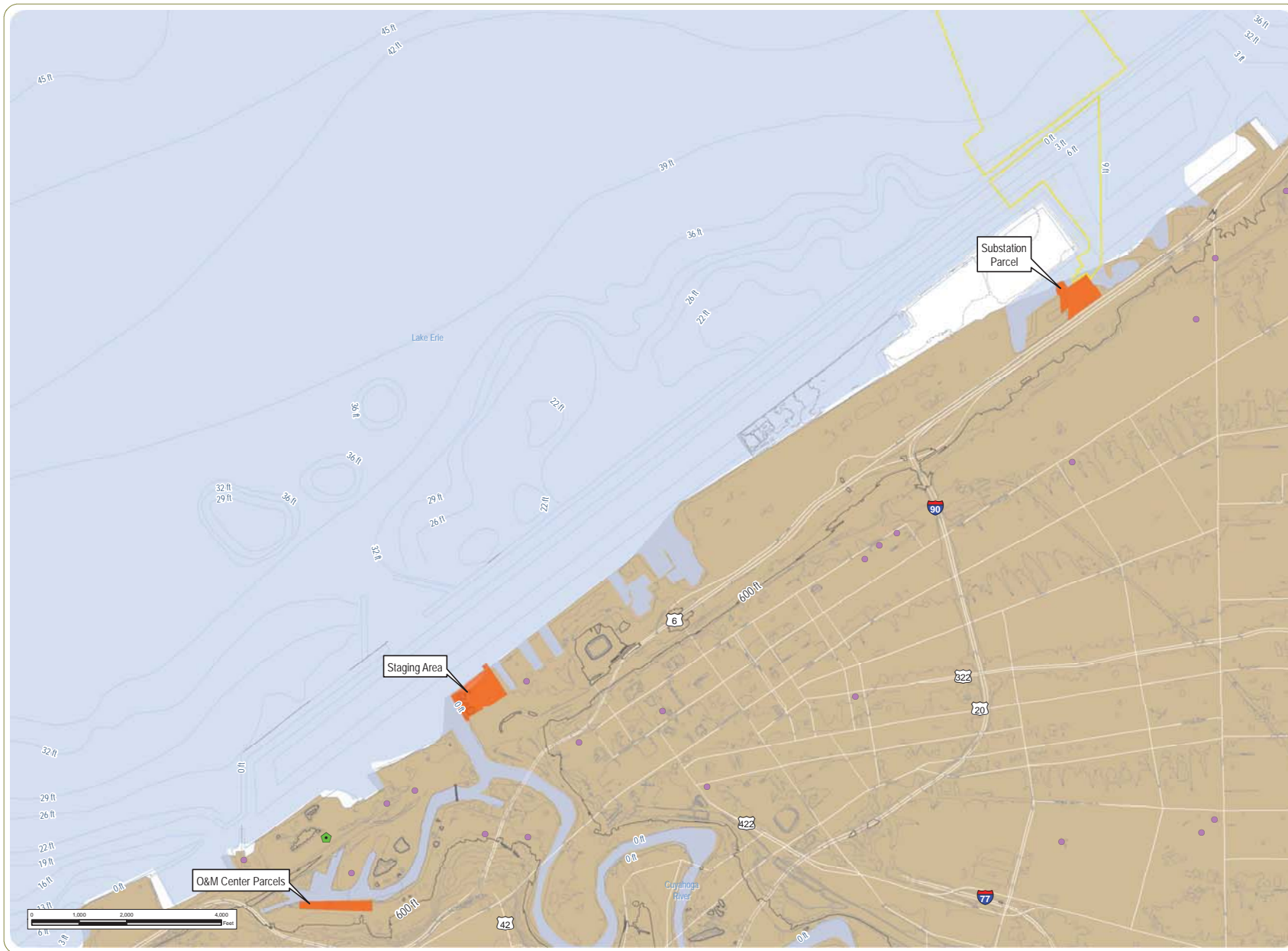
- Bathymetry Contour
- Ancillary Facility
- Electric Collection Line Envelope

Sheet 2 of 3



- Notes:
1. Basemap: ESRI StreetMap North America, 2008.
 2. Well data obtained from ODNR; topographic contours obtained from Cuyahoga County GIS FTP site; bedrock geology obtained from the USGS website; bathymetry obtained from the Great Lakes Information Network; facility shapes generated by EDR per LeedCo specification.
 3. Map Scale: 1:24,000





Icebreaker Wind

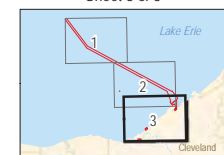
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-2: Existing Features

January 2017

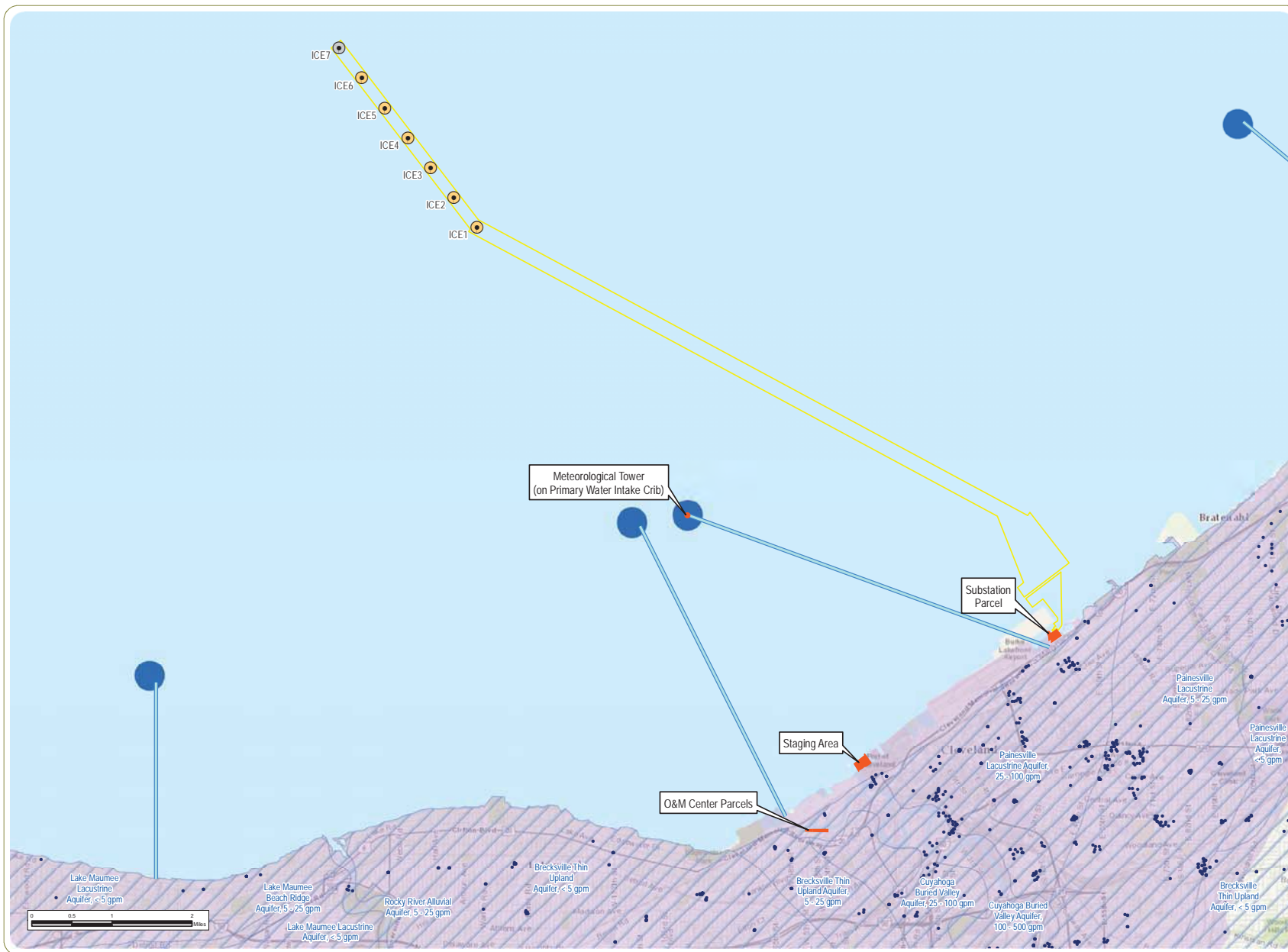
- Oil and Gas Wells_Cuyahoga
- ★ Injection Well
- 10 ft Topographic Contour
- 100ft Topographic Contour
- Bathymetry Contour
- Ancillary Facility
- Electric Collection Line Envelope
- Devonian Black Shale and Shale

Sheet 3 of 3



Notes:
 1. Basemap: ESRI StreetMap North America, 2008.
 2. Well data obtained from ODNR: topographic contours obtained from Cuyahoga County GIS FTP site; bedrock geology obtained from the USGS website; bathymetry obtained from the Great Lakes Information Network; facility shapefiles generated by EDR per LeedCo specification.
 3. Map Scale: 1:24,000





Icebreaker Wind

Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-1: Drinking Water Resources

January 2017

- Water Well
- Proposed Wind Turbine
- Alternate Wind Turbine
- Water Intake
- Ancillary Facility
- Electric Collection Line Envelope
- Source Water Protection Area
- Unconsolidated Aquifer
- Devonian Bedrock Aquifer

Notes:

1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
2. Water well and aquifer data obtained from ODNR; source water protection areas obtained from OEPA; water intakes digitized by EDR based on NOAA Nautical Chart 14829; facility shapes generated by EDR per LeadCo specification.
3. Map Scale: 1:75,000





Icebreaker Wind

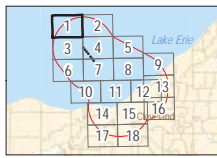
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

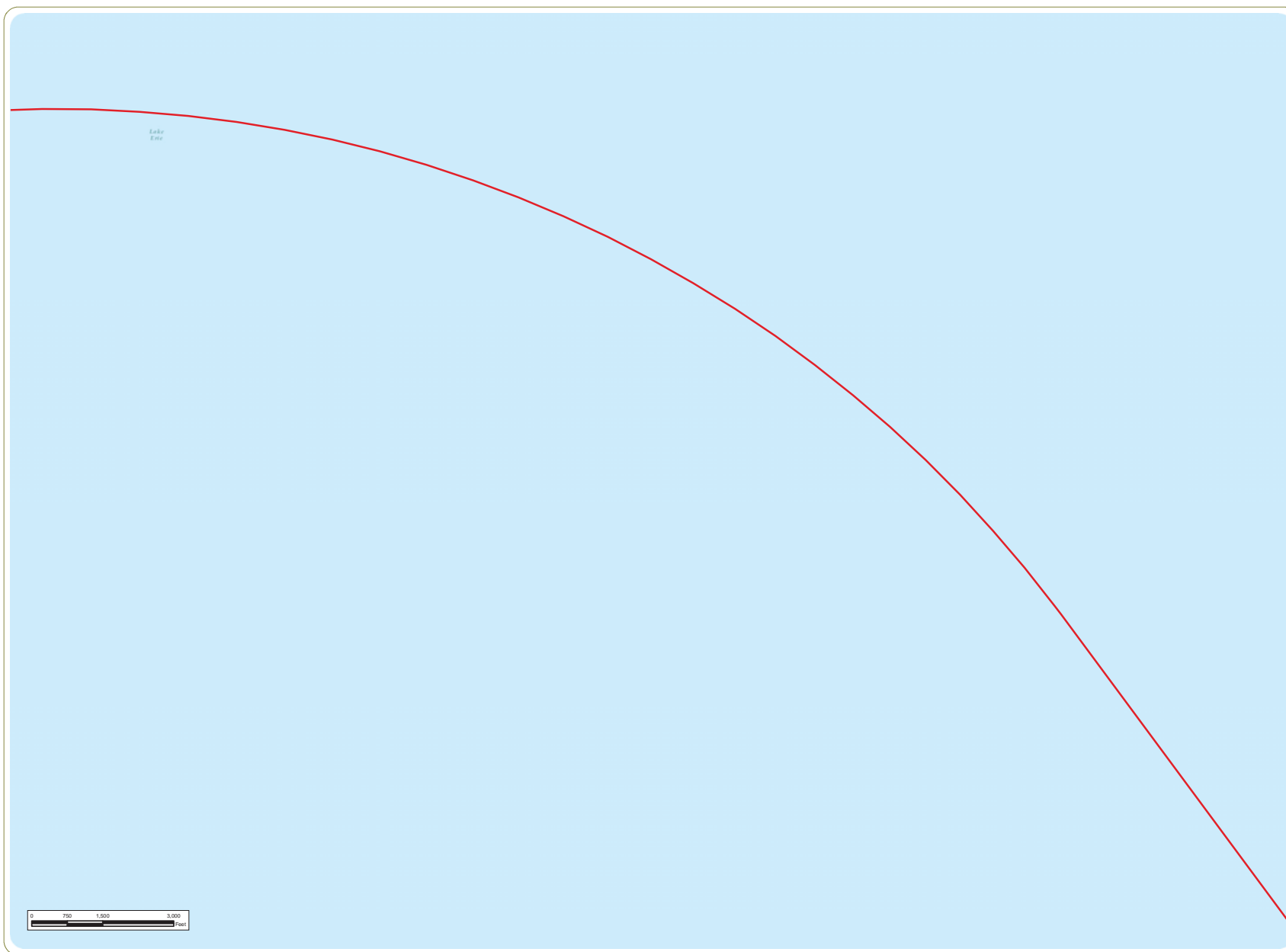
5-Mile Facility Study Area

Sheet 1 of 18



Notes:
1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
2. NRHP data, historic structures, and Ohio Historical Markers obtained from Ohio History Connection; Designated Cleveland Landmarks and Landmark Districts obtained from the City of Cleveland Planning Commission; other resources compiled and digitized by EDR through review of publicly available data. Facility shapefiles generated by EDR per LeedCo specification.
3. Map Scale: 1:24,000





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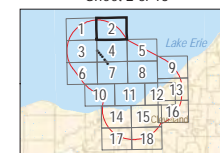
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

 5-Mile Facility Study Area

Sheet 2 of 18



Notes:

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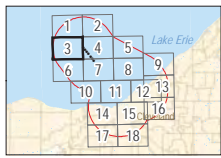
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

**Figure 08-7: Cultural and
Archaeological Resources**

January 2017

- Electric Collection Line Envelope
- 5-Mile Facility Study Area

Sheet 3 of 18



- Notes:**
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Cuyahoga County, Ohio

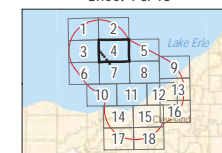
Figure 08-7: Cultural and Archaeological Resources

January 2017

-  Proposed Wind Turbine
-  Alternate Wind Turbine
-  Electric Collection Line Envelope
-  5-Mile Facility Study Area



Sheet 4 of 18

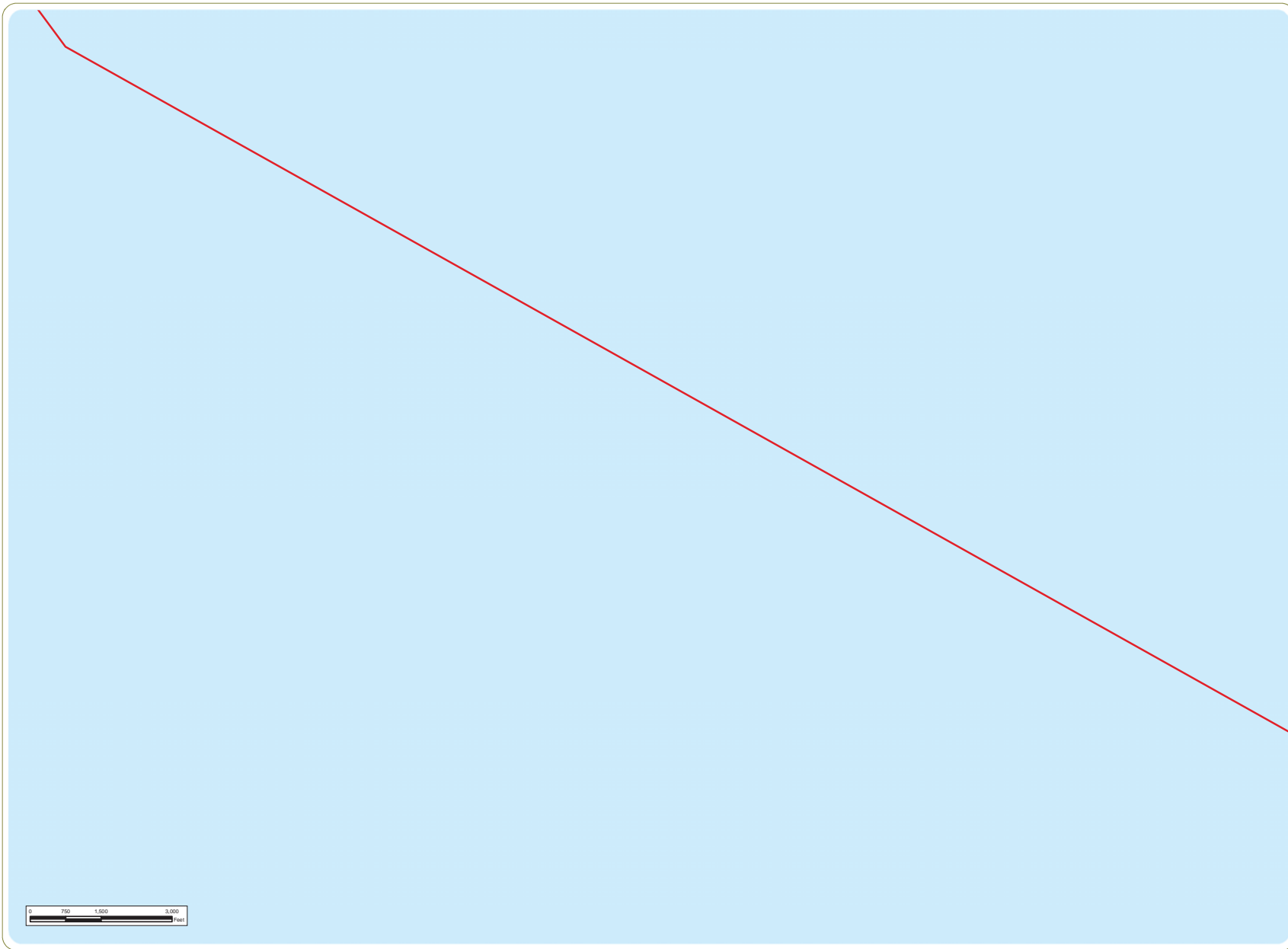


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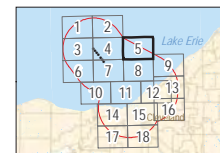
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

 5-Mile Facility Study Area

Sheet 5 of 18

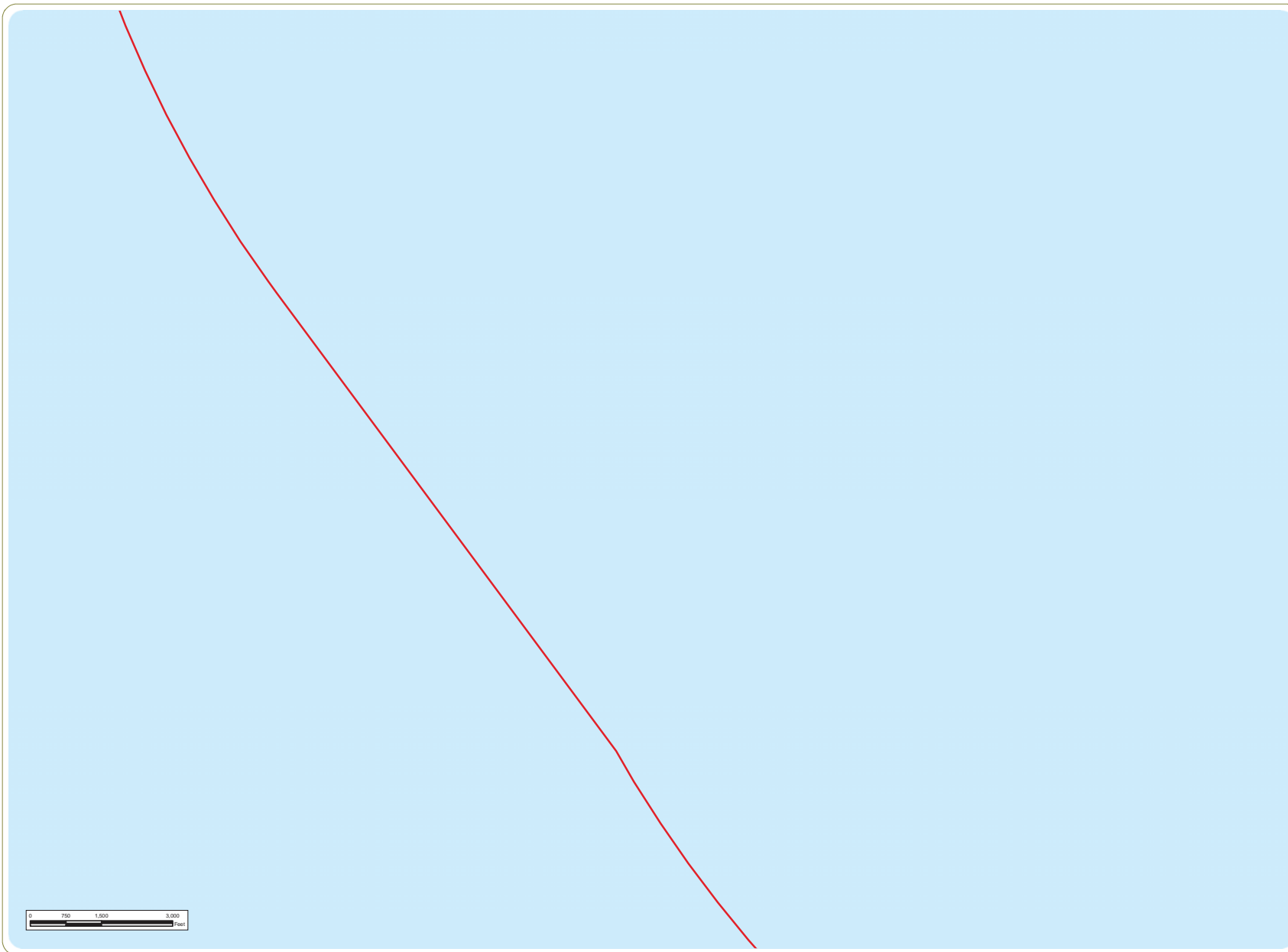


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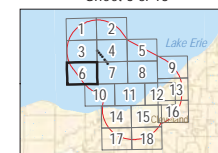
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

 5-Mile Facility Study Area

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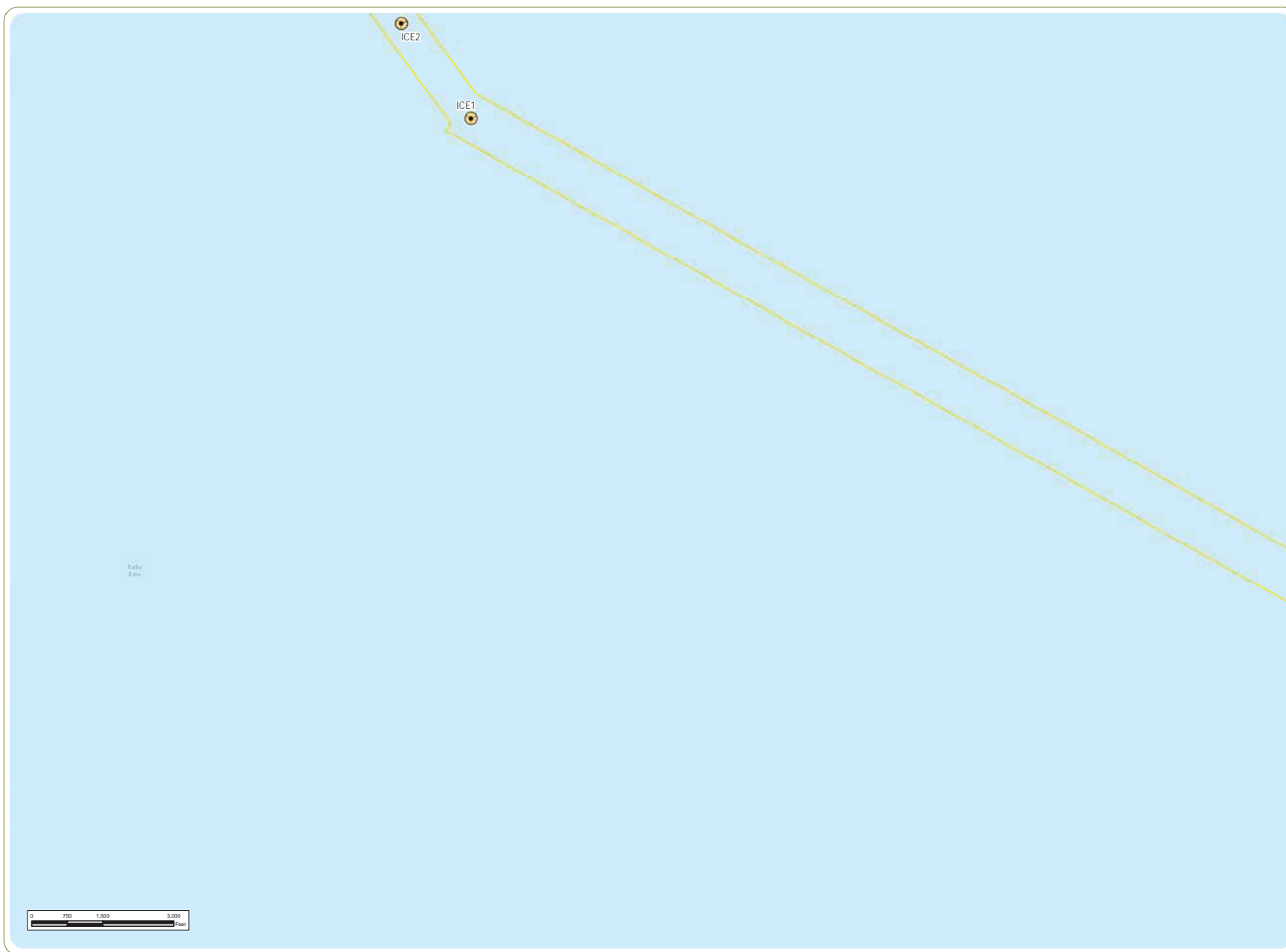


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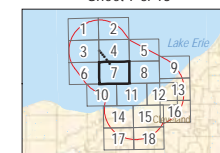
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

- Proposed Wind Turbine
- Electric Collection Line Envelope
- 5-Mile Facility Study Area

Sheet 7 of 18

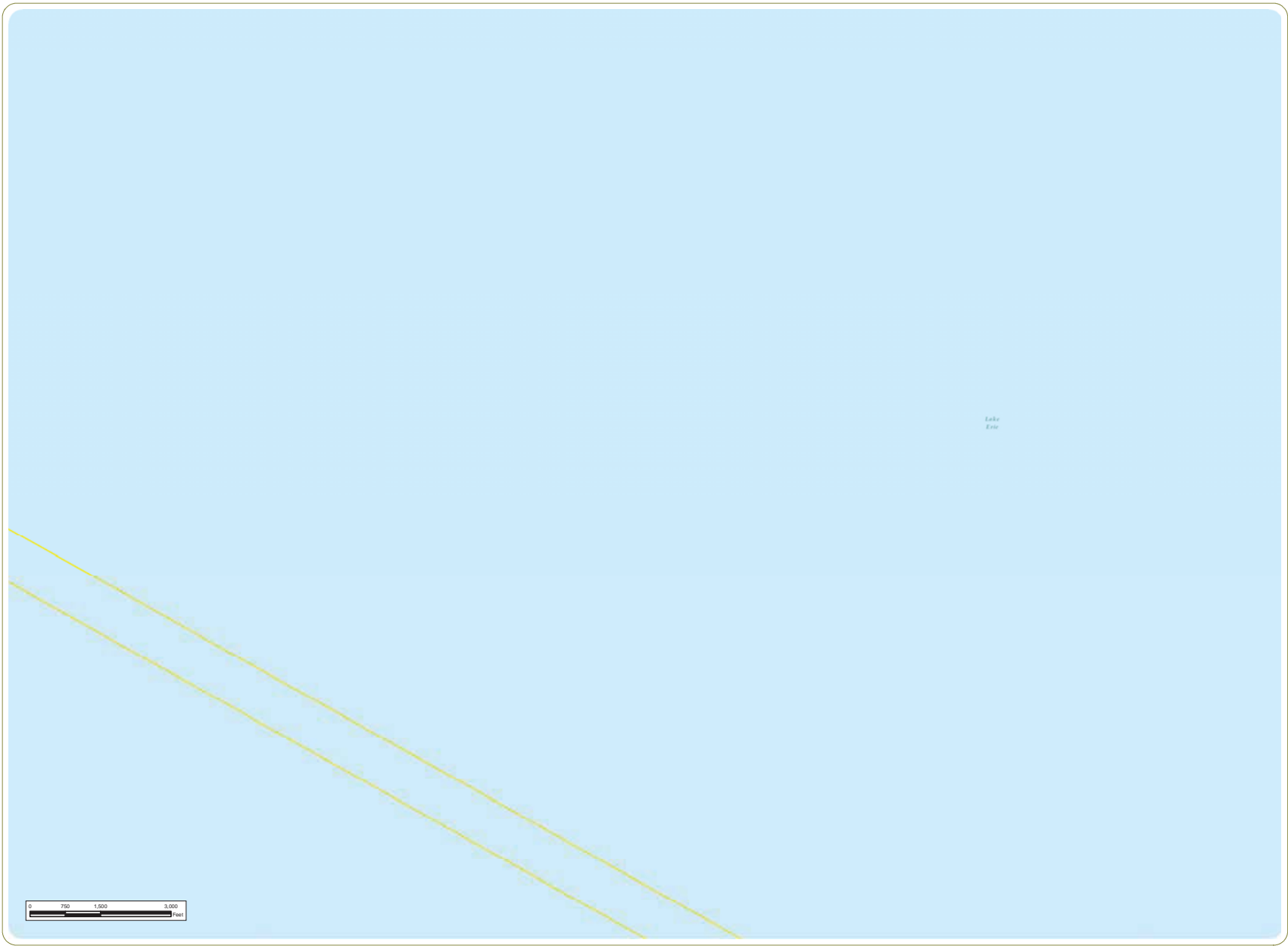


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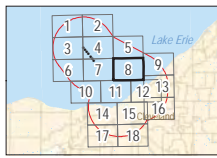
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

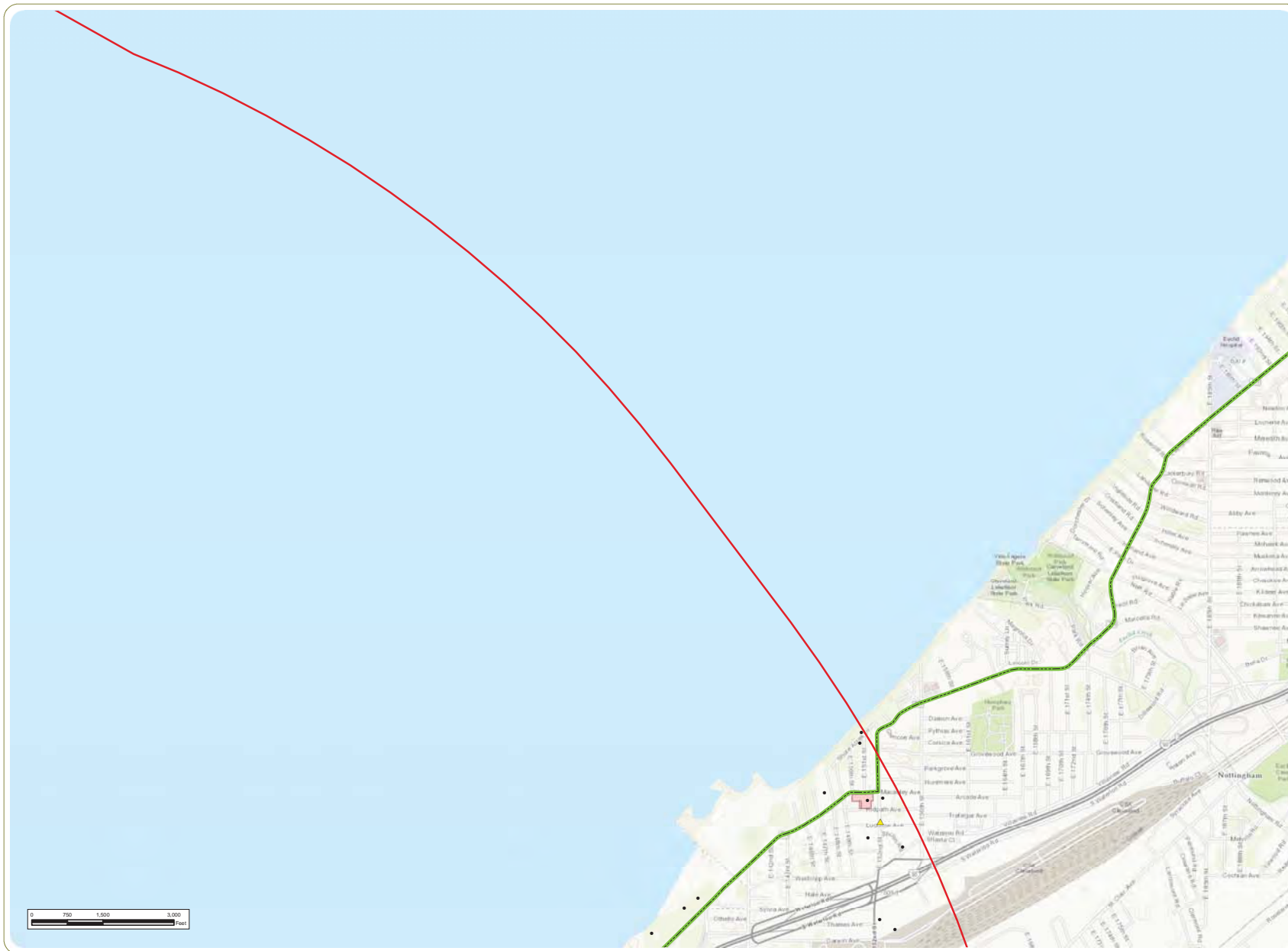
- Electric Collection Line Envelope
- 5-Mile Facility Study Area

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Lake Erie, City of Cleveland

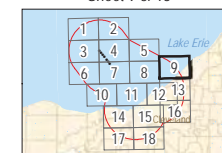
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

- Historic Structure
- ▲ NRHP-Eligible Site
- Scenic Byway
- Designated Cleveland Landmark
- 5-Mile Facility Study Area

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Notes:

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0 750 1,500 3,000 Feet

Icebreaker Wind

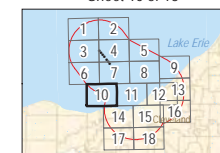
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

 5-Mile Facility Study Area

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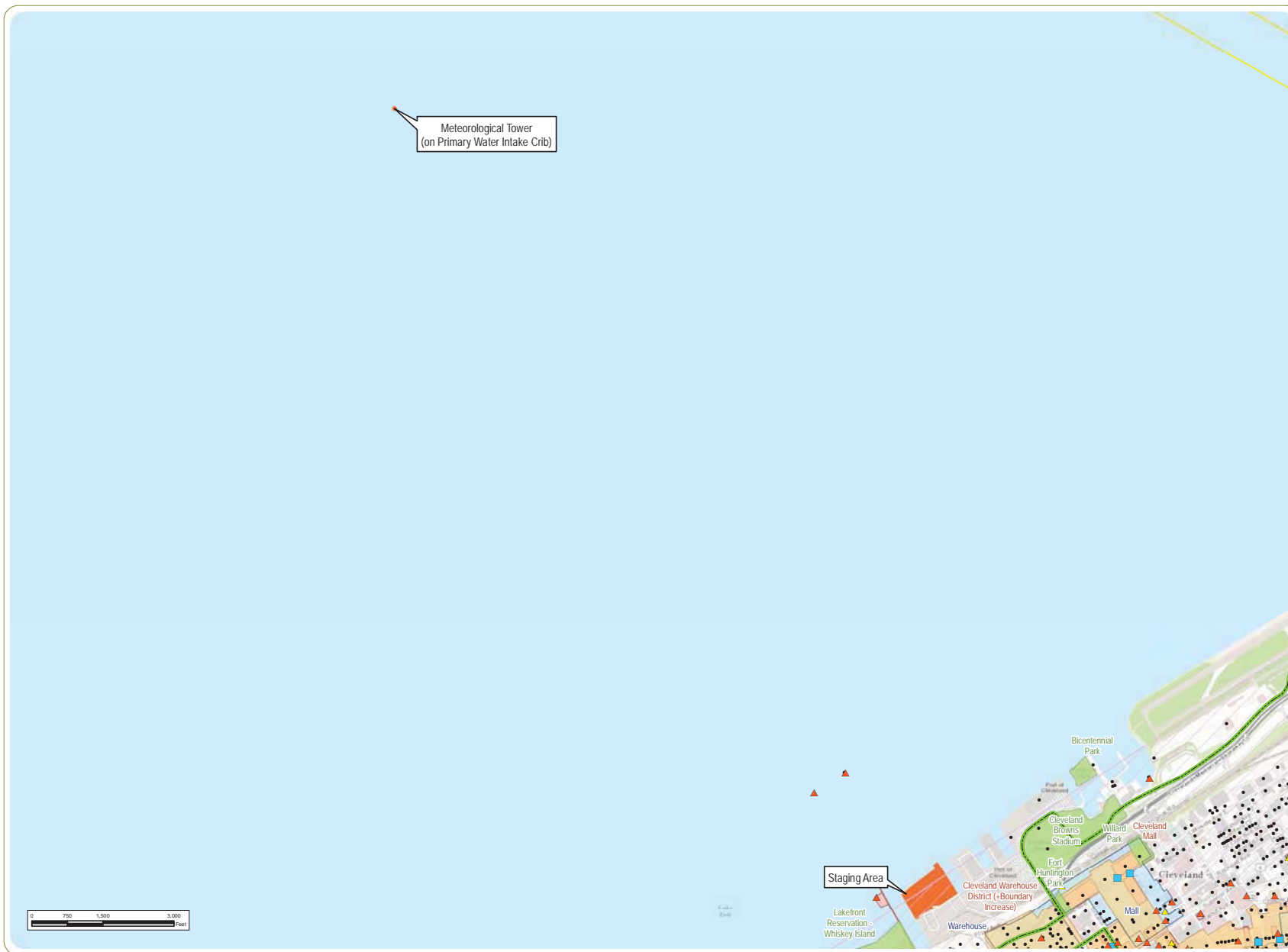


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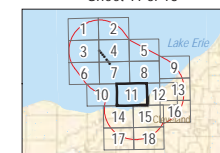
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

- Historic Structure
- ▲ NRHP-Listed Site
- ▲ NRHP-Eligible Site
- Ohio Historical Marker
- Scenic Byway
- Recreational Resource
- NRHP-Listed District
- Designated Cleveland Landmark
- Designated Cleveland Landmark District
- National Heritage Area
- Ancillary Facility
- Electric Collection Line Envelope
- 5-Mile Facility Study Area

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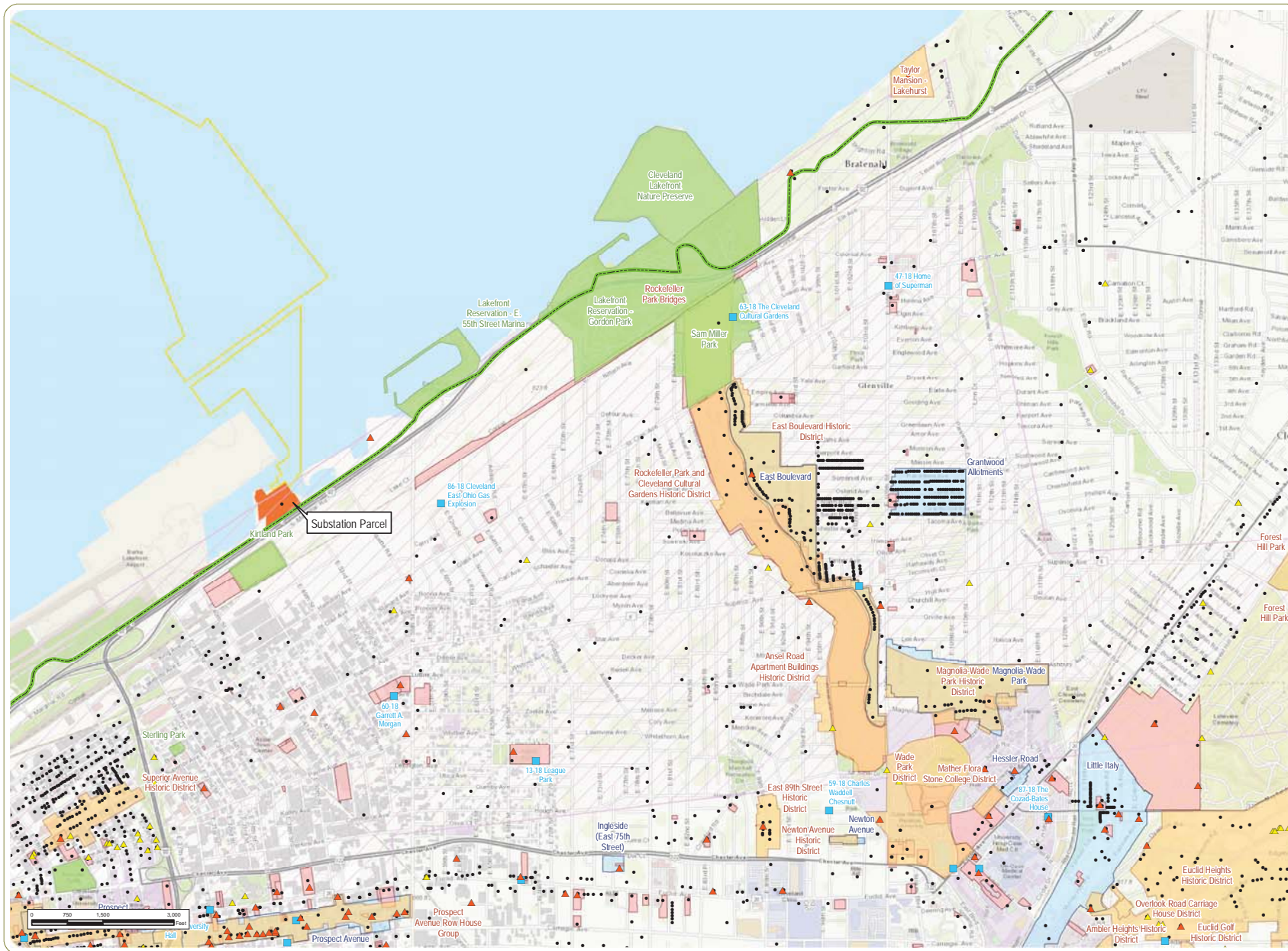


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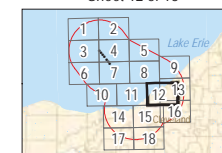
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

- Historic Structure
- ▲ NRHP-Listed Site
- ▲ NRHP-Eligible Site
- Ohio Historical Marker
- Scenic Byway
- Recreational Resource
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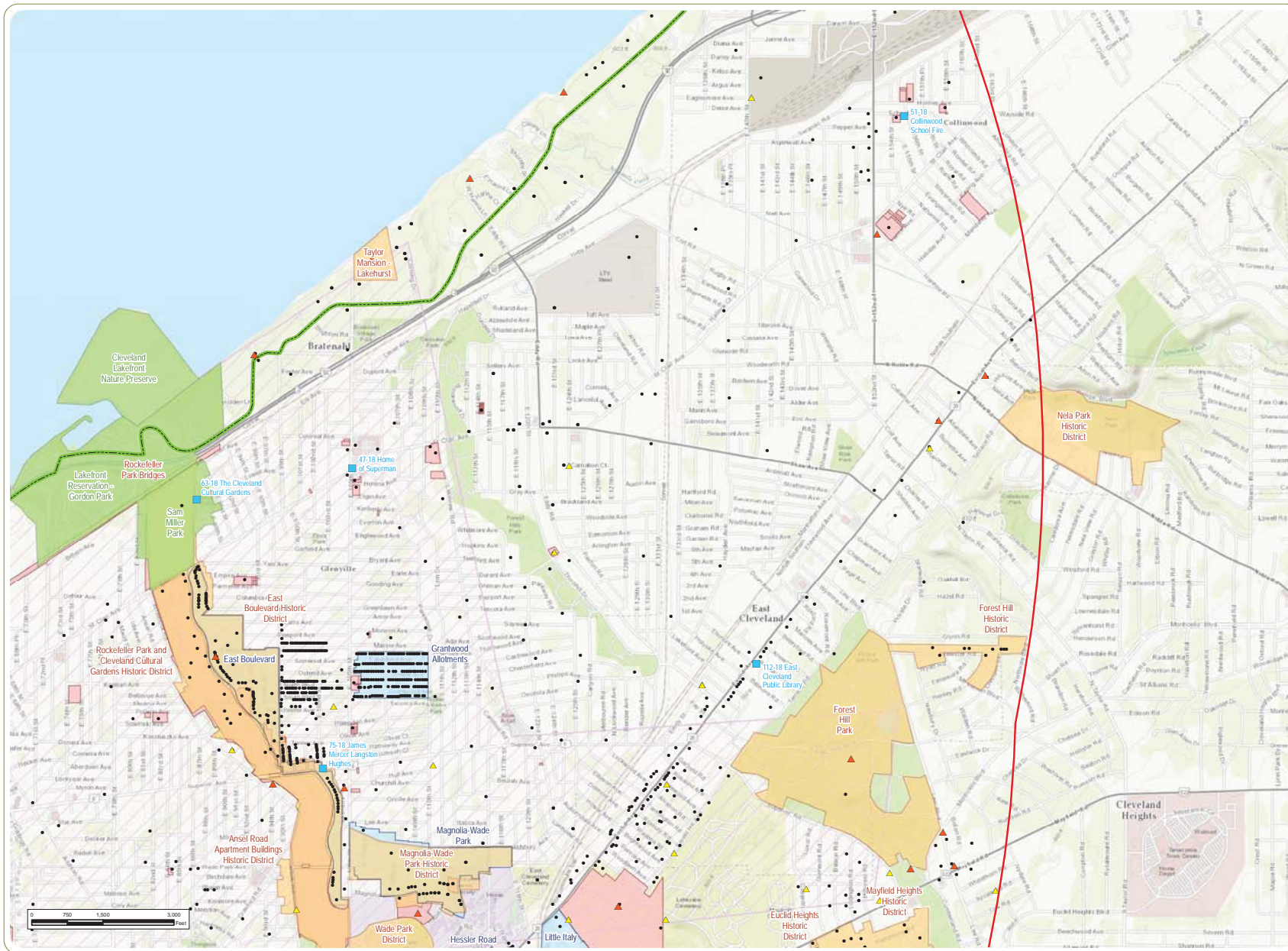
Sheet 12 of 18



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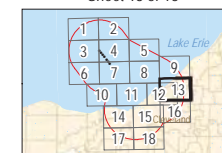
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

- Historic Structure
- ▲ NRHP-Listed Site
- ▲ NRHP-Eligible Site
- Ohio Historical Marker
- Scenic Byway
- Recreational Resource
- NRHP-Listed District
- Designated Cleveland Landmark
- Designated Cleveland Landmark District
- National Heritage Area
- 5-Mile Facility Study Area

Sheet 13 of 18

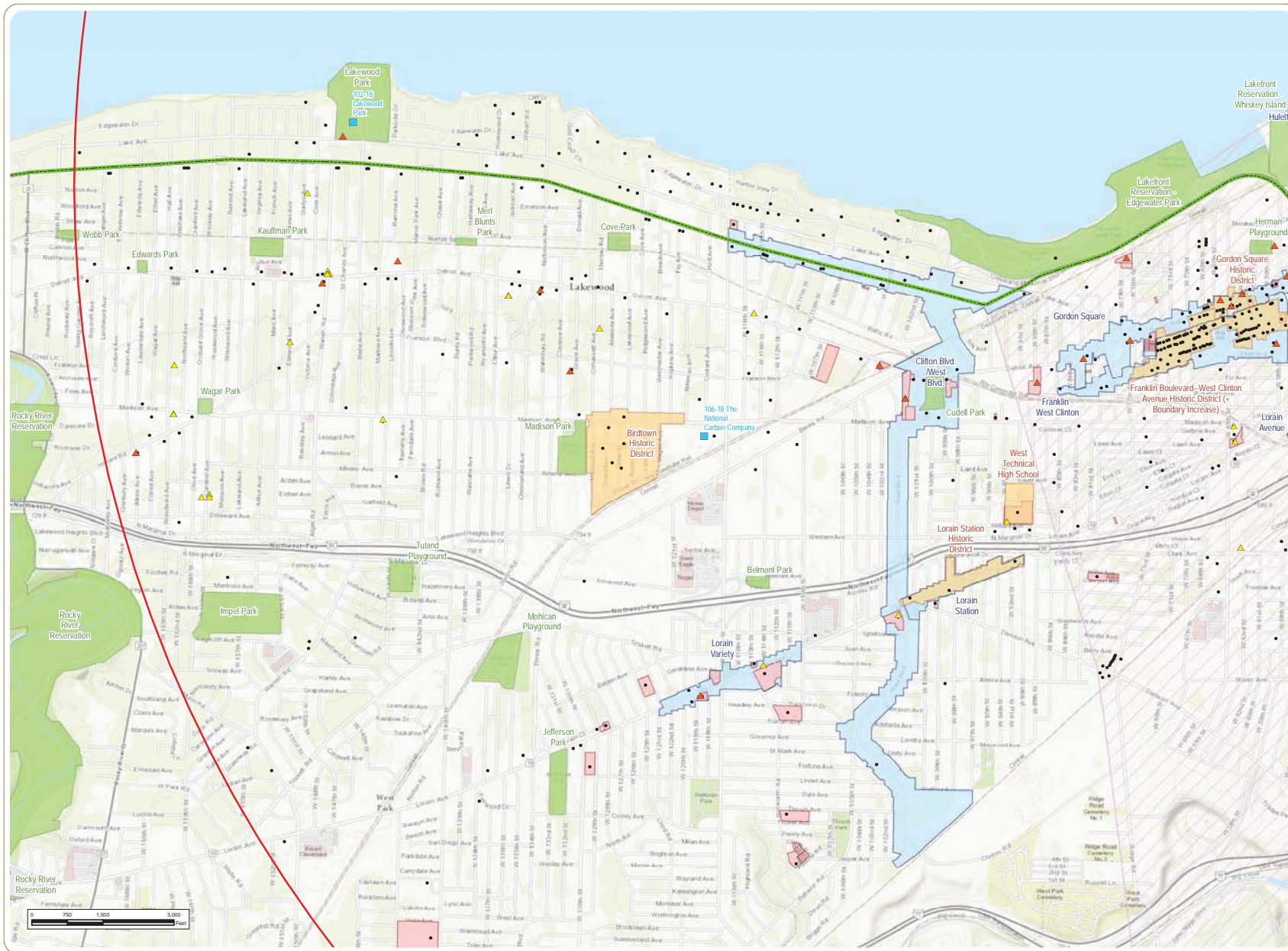


Notes:

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3. Map Scale: 1:24,000



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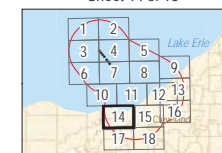
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

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- Designated Cleveland Landmark
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- National Heritage Area
- 5-Mile Facility Study Area

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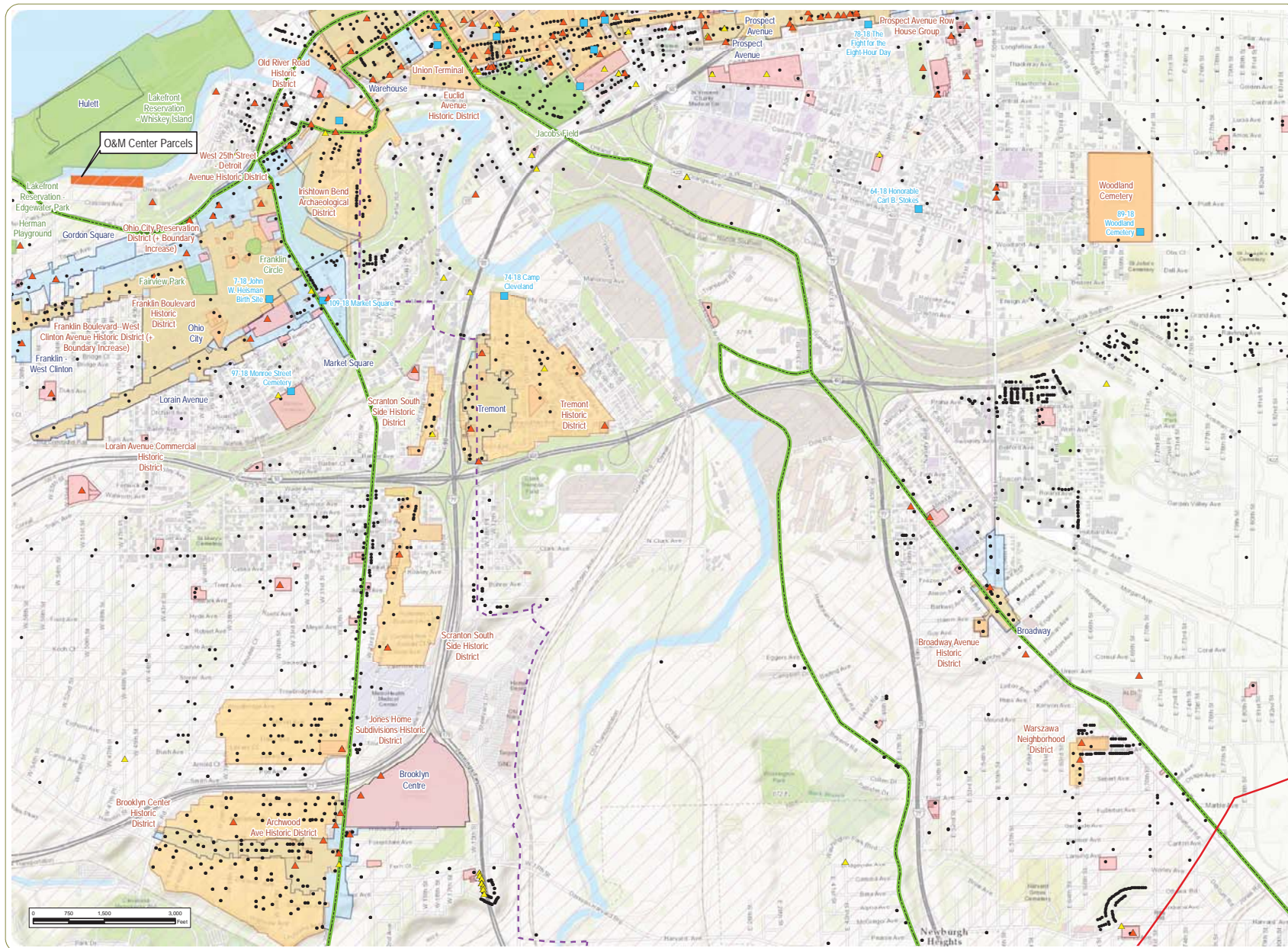


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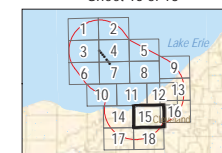
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

- Historic Structure
- ▲ NRHP-Listed Site
- ▲ NRHP-Eligible Site
- Ohio Historical Marker
- - - Ohio Bike Route & Trail
- Scenic Byway
- Recreational Resource
- NRHP-Listed District
- Designated Cleveland Landmark
- Designated Cleveland Landmark District
- National Heritage Area
- Ancillary Facility
- 5-Mile Facility Study Area

Sheet 15 of 18

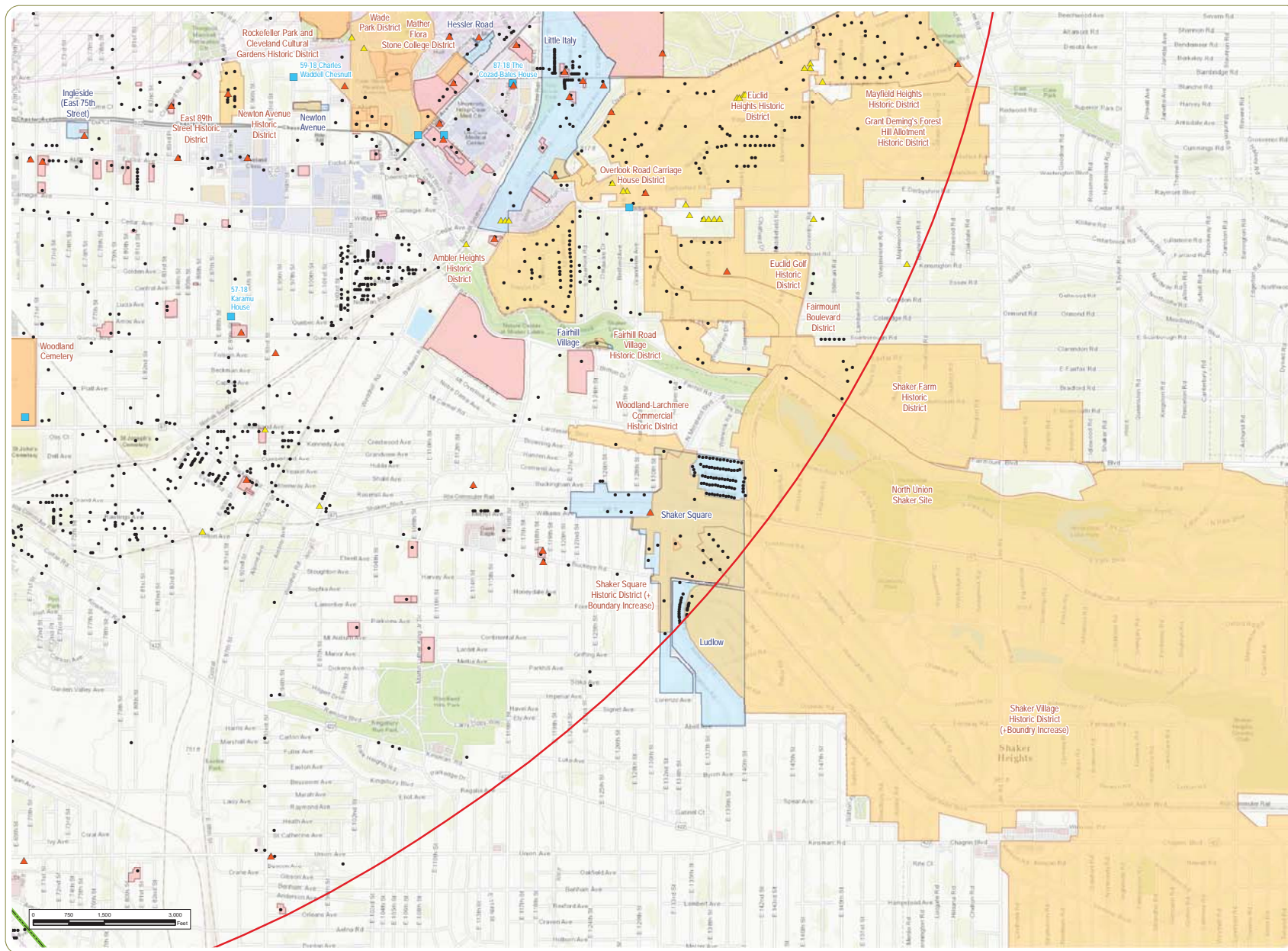


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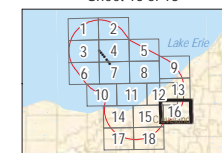
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

- Historic Structure
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- ▲ NRHP-Eligible Site
- Ohio Historical Marker
- Scenic Byway
- Designated Cleveland Landmark
- Designated Cleveland Landmark District
- National Heritage Area
- 5-Mile Facility Study Area

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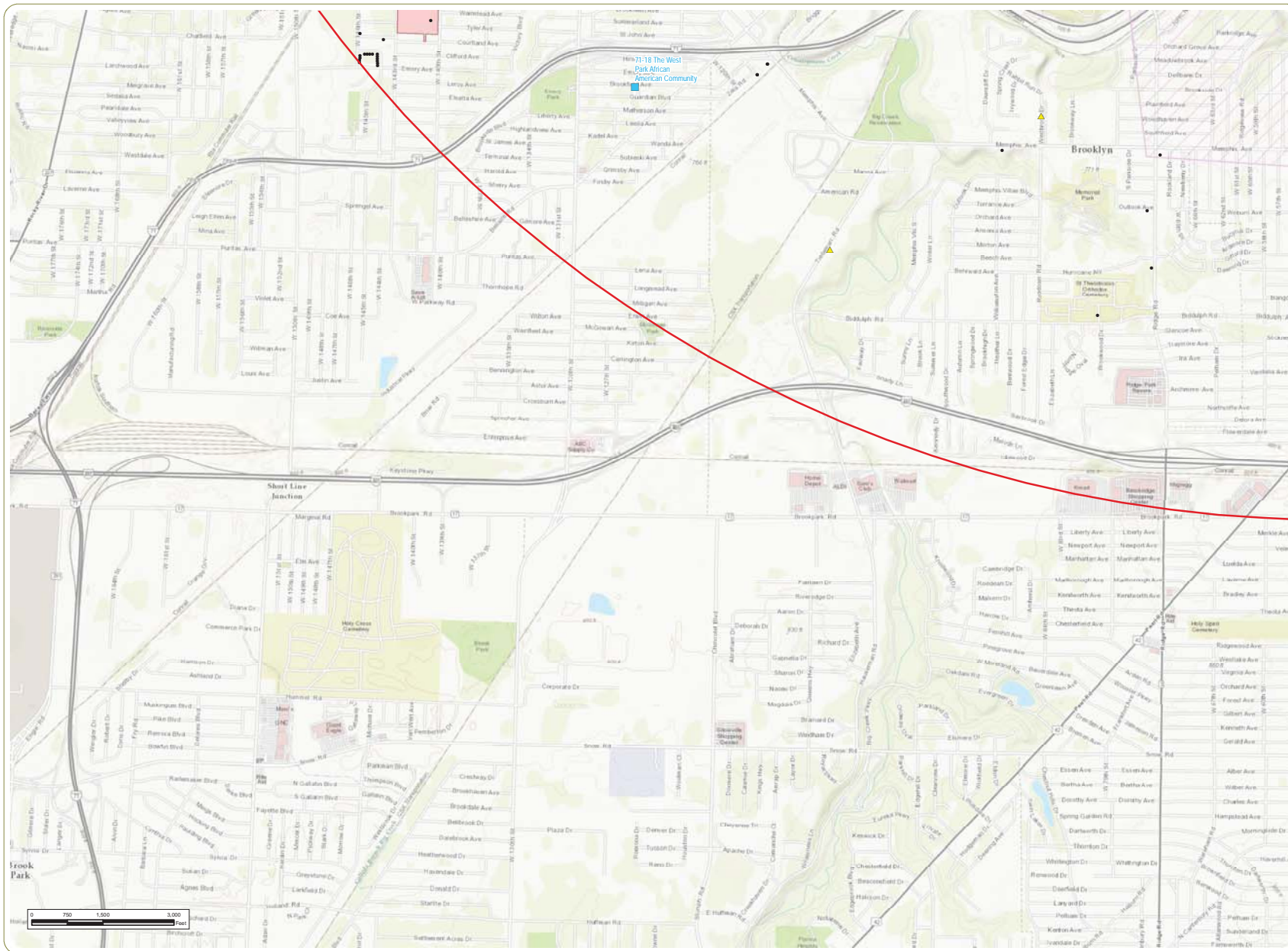


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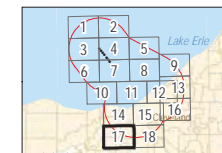
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-7: Cultural and Archaeological Resources

January 2017

- Historic Structure
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- Ohio Historical Marker
- Designated Cleveland Landmark
- National Heritage Area
- 5-Mile Facility Study Area

Sheet 17 of 18

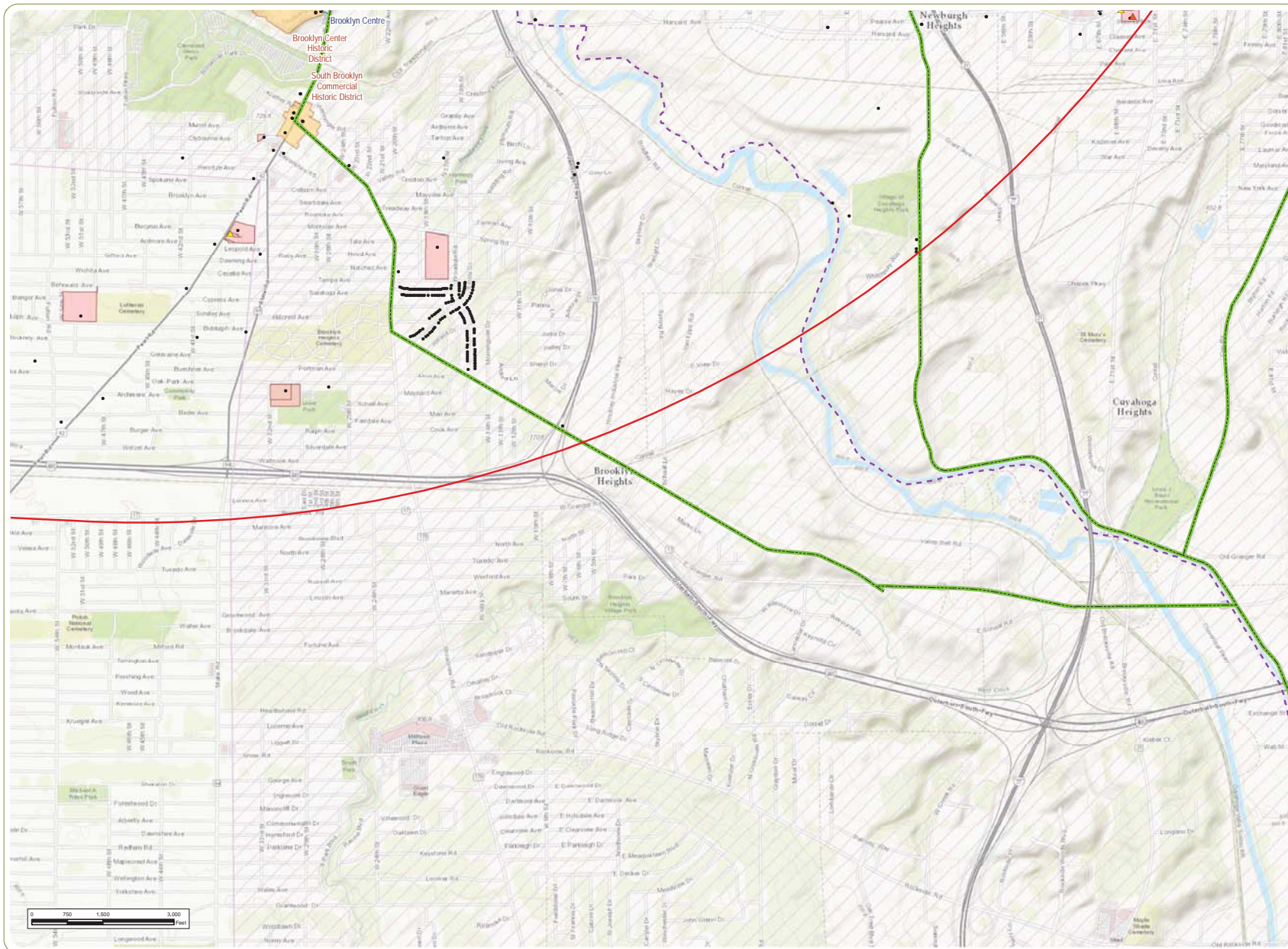


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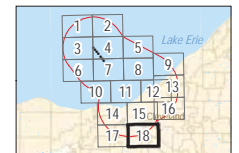
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Icebreaker Wind
Lake Erie, City of Cleveland
Cuyahoga County, Ohio
Figure 08-7: Cultural and Archaeological Resources
January 2017

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- 5-Mile Facility Study Area

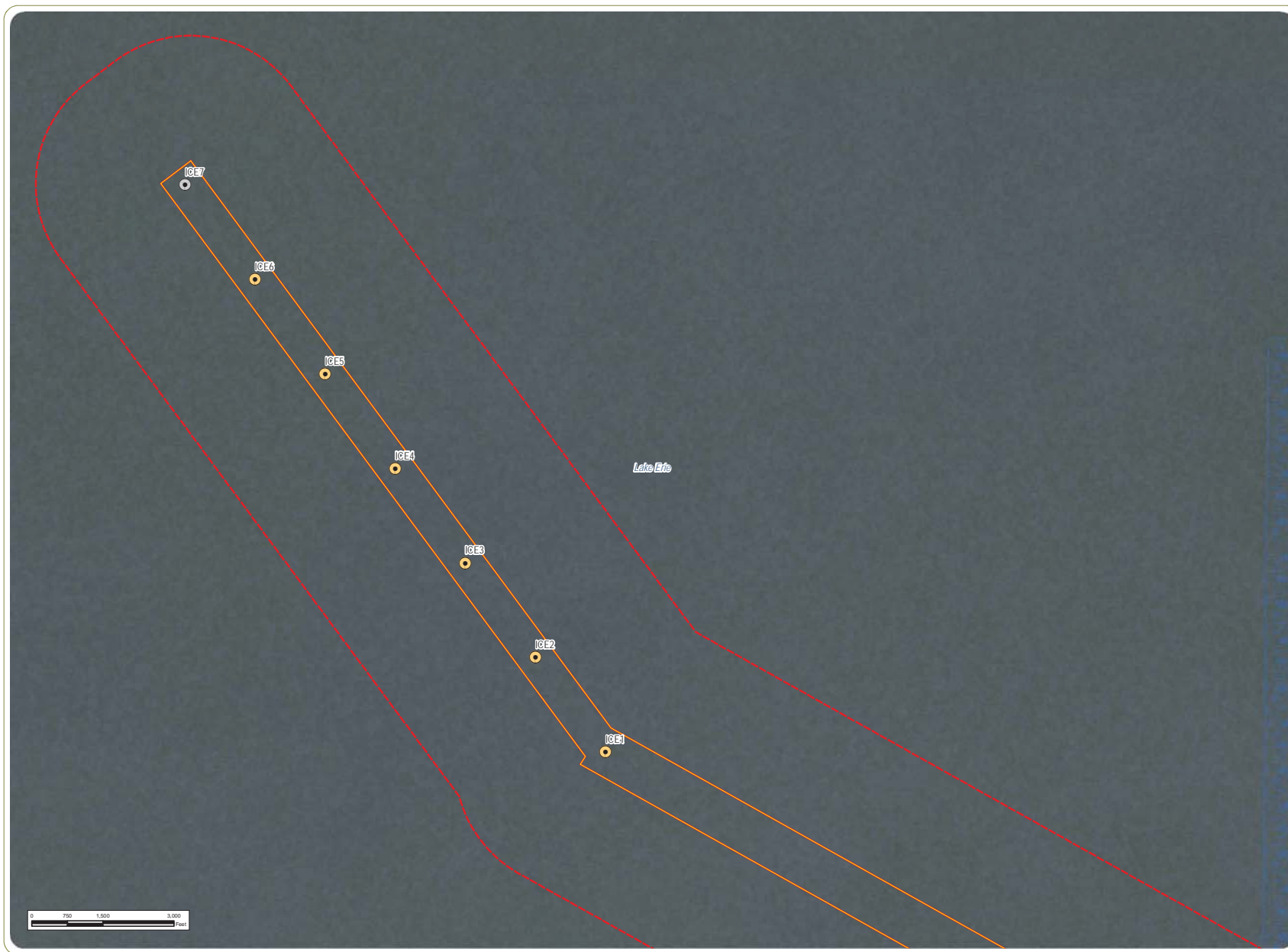
Sheet 18 of 18



- Notes:**
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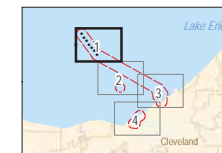
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-3: Ecological Features

January 2017

- Proposed Wind Turbine
- Alternate Wind Turbine
- Ancillary Facility
- Electric Collection Line Envelope
- NWI Wetland/Surface Water
- Slope >12%
- Project Area
- 0.5-Mile Facility Study Area

Sheet 1 of 4

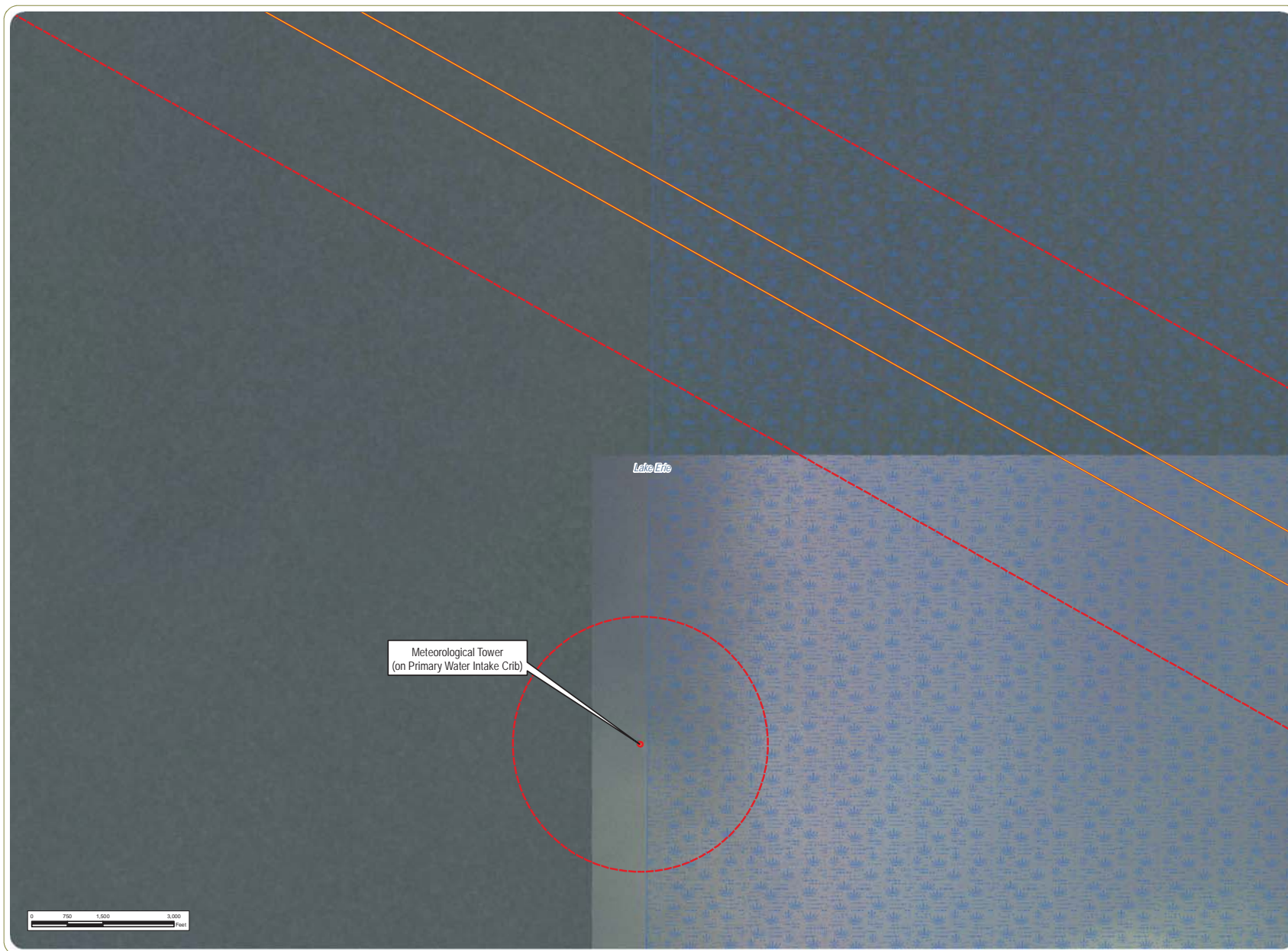


Notes:

1. Basemap: ESRI ArcGIS Online "World Imagery" Map Service.
2. Conservation land derived from Cuyahoga County GIS Department 2014 land use data; Local parks and recreation compiled and digitized by EDR through review of publicly available data; NWI mapping obtained from the USFWS; slope derived from 2006 OSIP LIDAR data. Facility shapefiles generated by EDR per LeedCo specification.
3. NRCS SSURGO soil data does not indicate the presence of highly erodible soils within 0.5-mile of the Project Area.
3. Map Scale: 1:24,000



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Icebreaker Wind

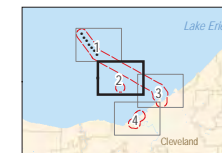
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-3: Ecological Features

January 2017

- Ancillary Facility
- Electric Collection Line Envelope
- NWI Wetland/Surface Water
- Slope >12%
- Project Area
- 0.5-Mile Facility Study Area

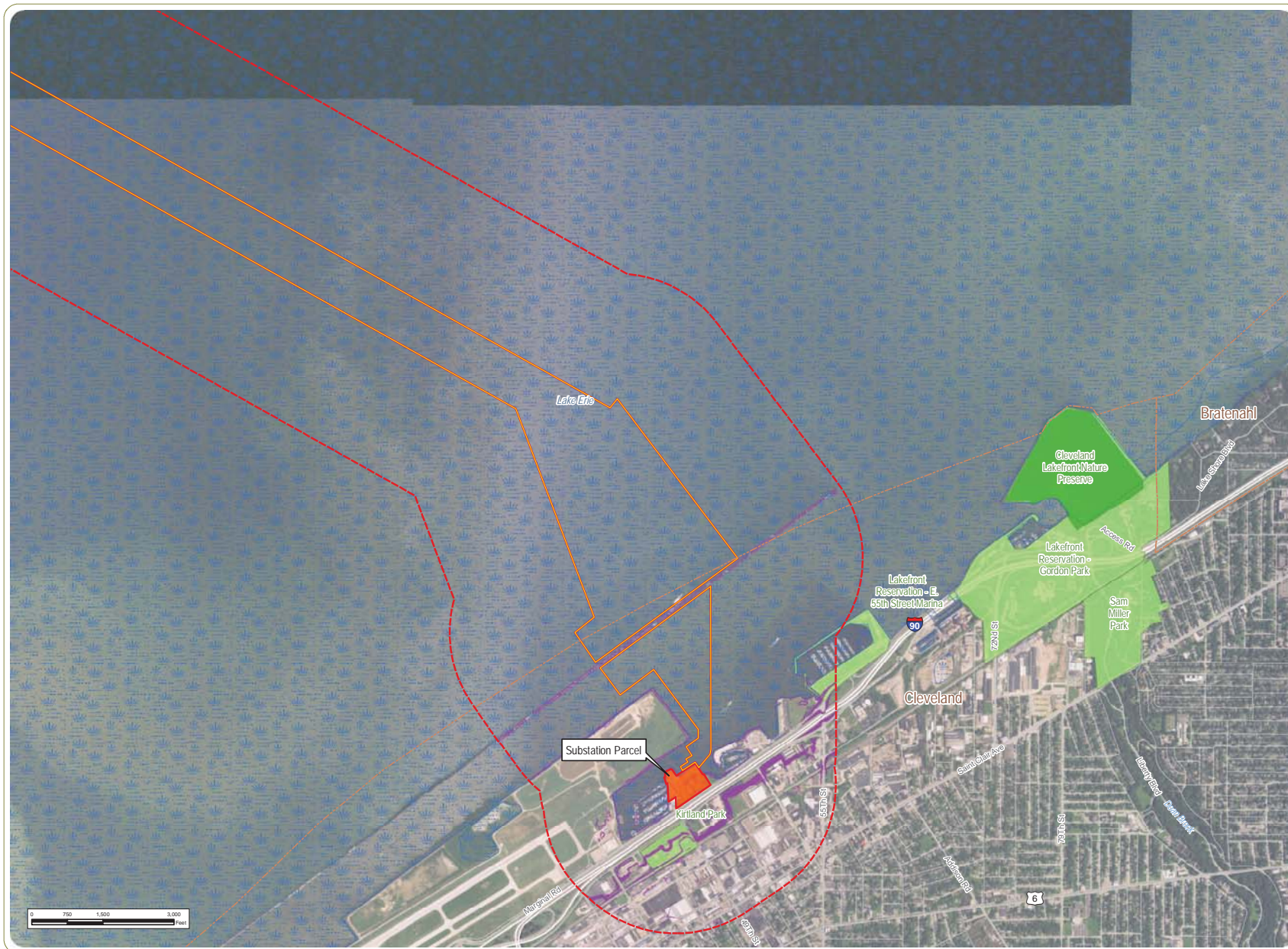
Sheet 2 of 4



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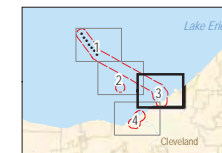
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-3: Ecological Features

January 2017

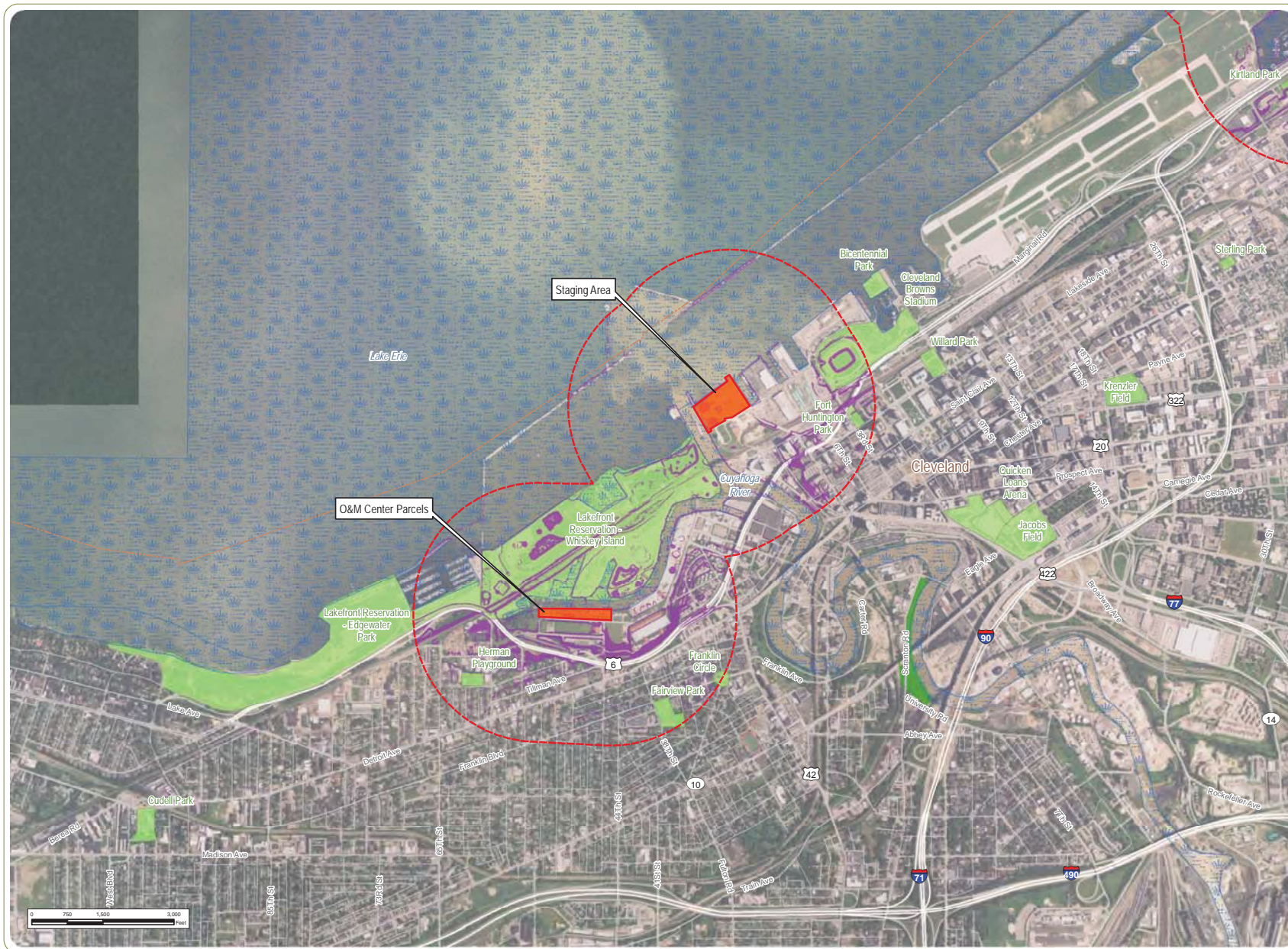
- Ancillary Facility
- Electric Collection Line Envelope
- Conservation Land
- Local Park/Recreation
- NWI Wetland/Surface Water
- Slope >12%
- Project Area
- 0.5-Mile Facility Study Area
- Municipal Boundary

Sheet 3 of 4



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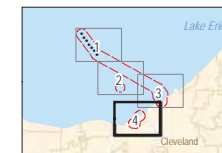
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-3: Ecological Features

January 2017

- Ancillary Facility
- Electric Collection Line Envelope
- Conservation Land
- Local Park/Recreation
- NWI Wetland/Surface Water
- Slope >12%
- Project Area
- 0.5-Mile Facility Study Area
- Municipal Boundary

Sheet 4 of 4



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Icebreaker Wind

Lake Erie, City of Cleveland
Cuyahoga County, Ohio

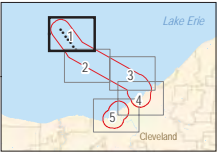
Figure 08-5: Land Use

January 2017

- Proposed Wind Turbine
- Alternate Wind Turbine
- Electric Collection Line Envelope
- 1-Mile Facility Study Area

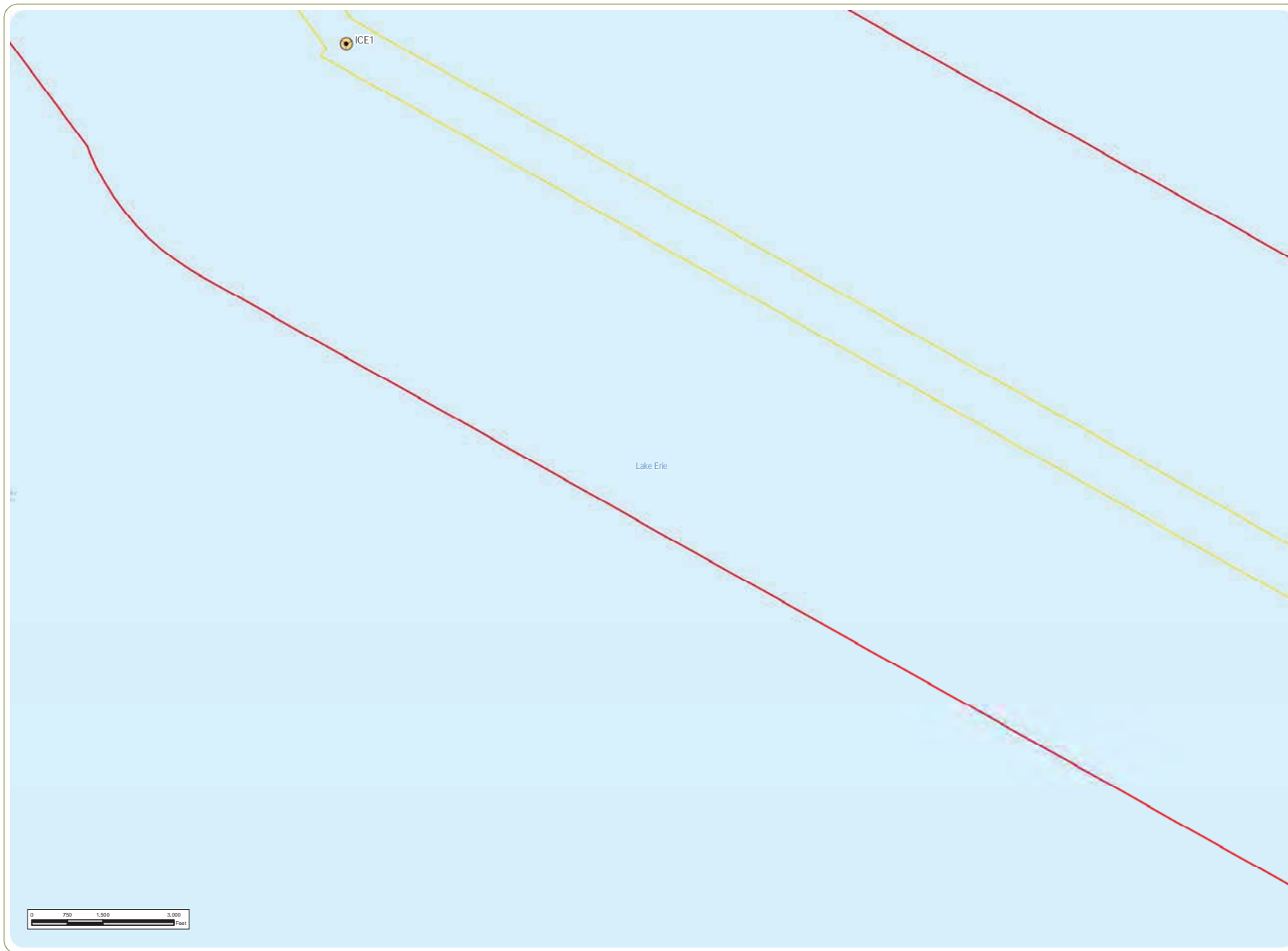


Sheet 1 of 5



- Notes:
- 1. Basemap: ESRI ArcGIS Online "World Topographic Map" Map Service.
 - 2. Land uses and Building Footprints derived from Cuyahoga County GIS Department 2014 land use data. Facility shapefiles generated by EDR per LeedCo specification.
 - 3. Map Scale: 1:24,000





Icebreaker Wind

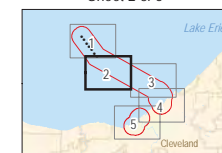
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-5: Land Use

January 2017

- Proposed Wind Turbine
- Electric Collection Line Envelope
- 1-Mile Facility Study Area

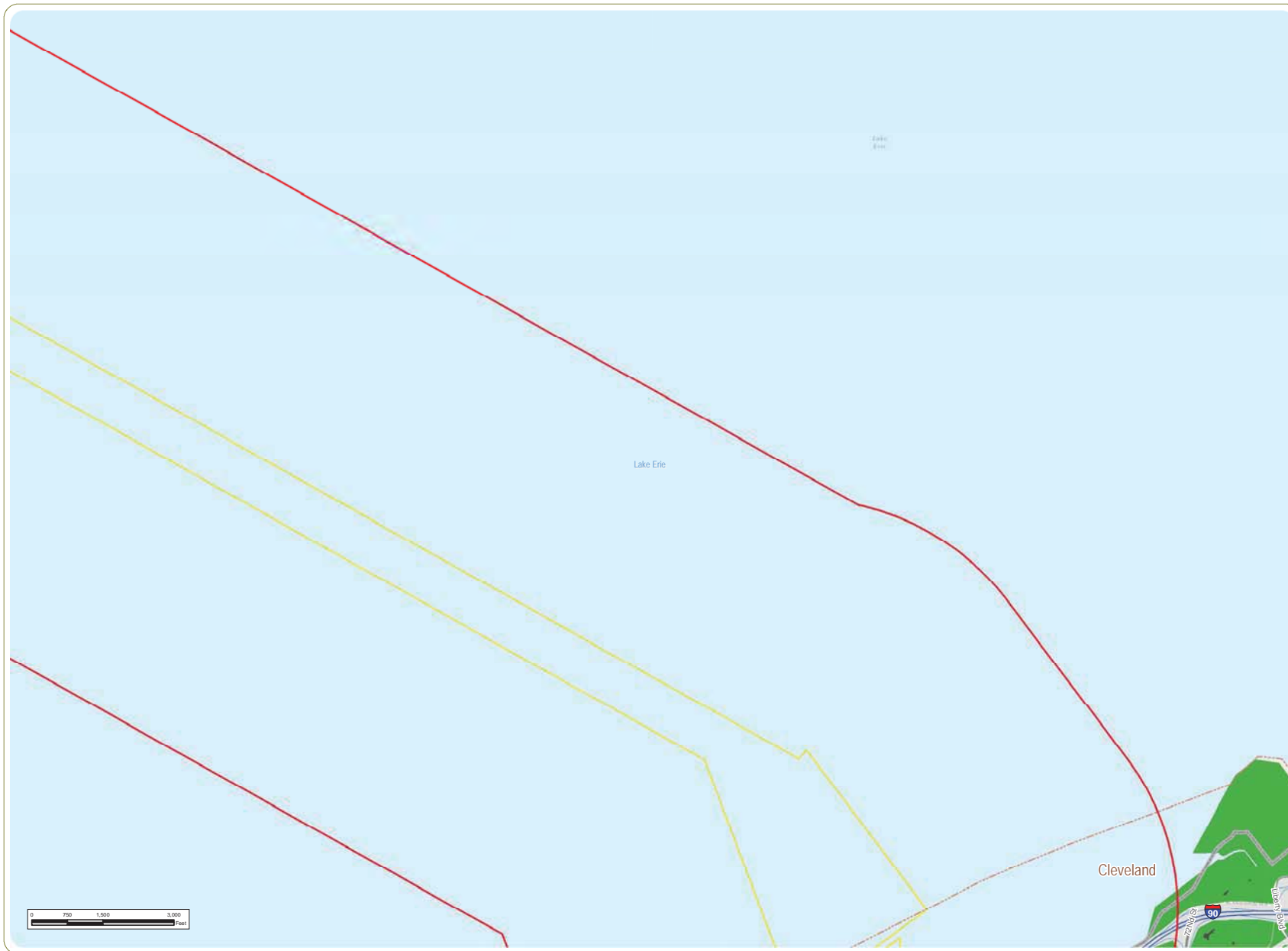
Sheet 2 of 5



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Icebreaker Wind

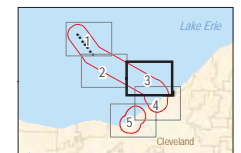
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-5: Land Use

January 2017

- Electric Collection Line Envelope
- 1-Mile Facility Study Area
- Building Footprint
- Land Use**
- Green Space
- Residential
- Utility
- Municipal Boundary
- County Boundary

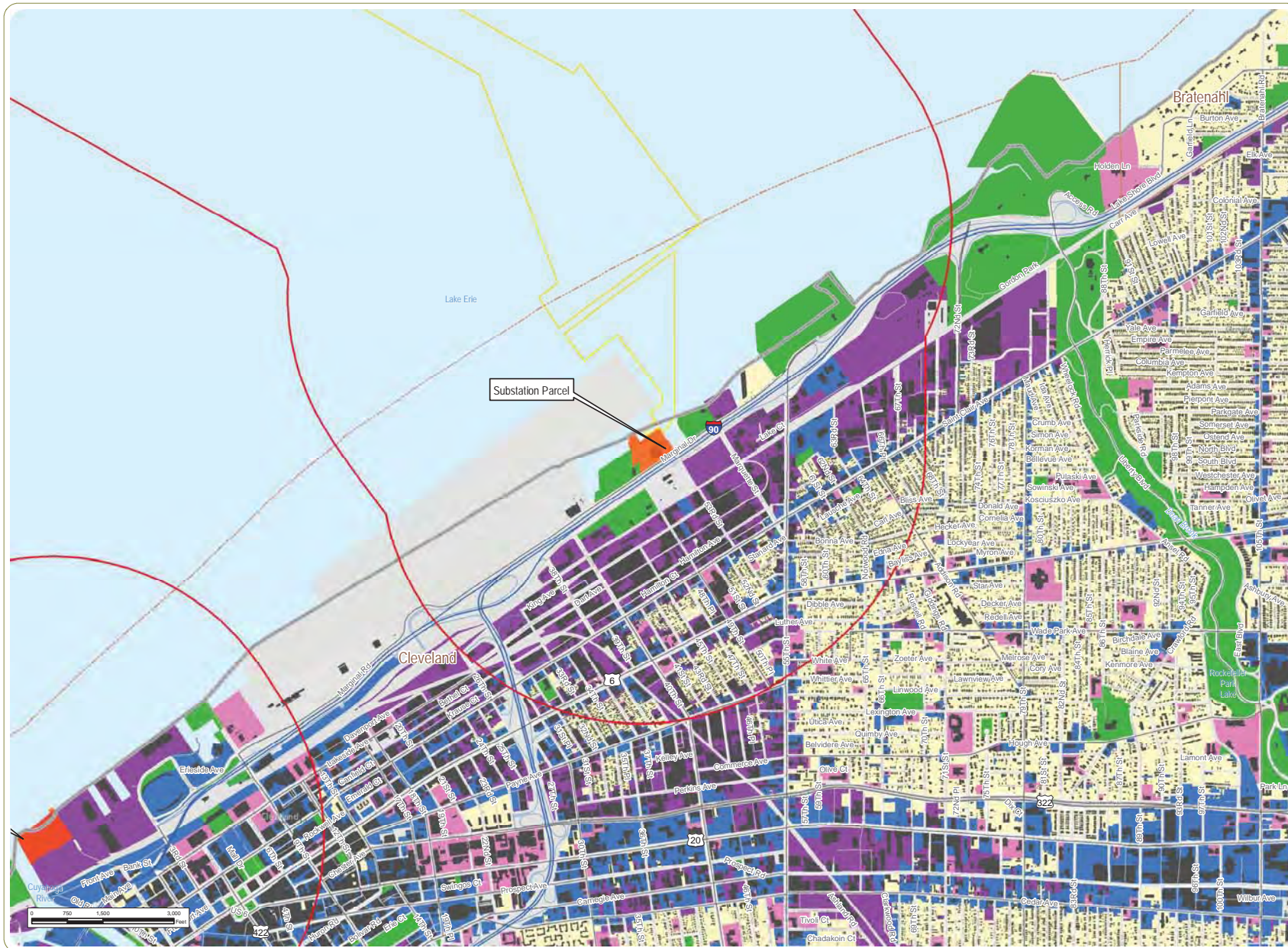
Sheet 3 of 5



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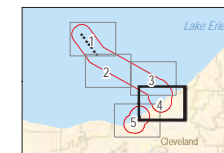


Icebreaker Wind Lake Erie, City of Cleveland Cuyahoga County, Ohio

Figure 08-5: Land Use

January 2017

- Ancillary Facility
 - Electric Collection Line Envelope
 - 1-Mile Facility Study Area
 - Building Footprint
 - Land Use
 - Commercial
 - Green Space
 - Industrial
 - Institutional
 - Residential
 - Utility
 - Municipal Boundary
 - County Boundary
- Sheet 4 of 5



Notes:
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Icebreaker Wind

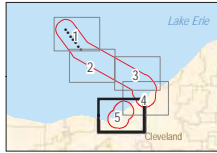
Lake Erie, City of Cleveland
Cuyahoga County, Ohio

Figure 08-5: Land Use

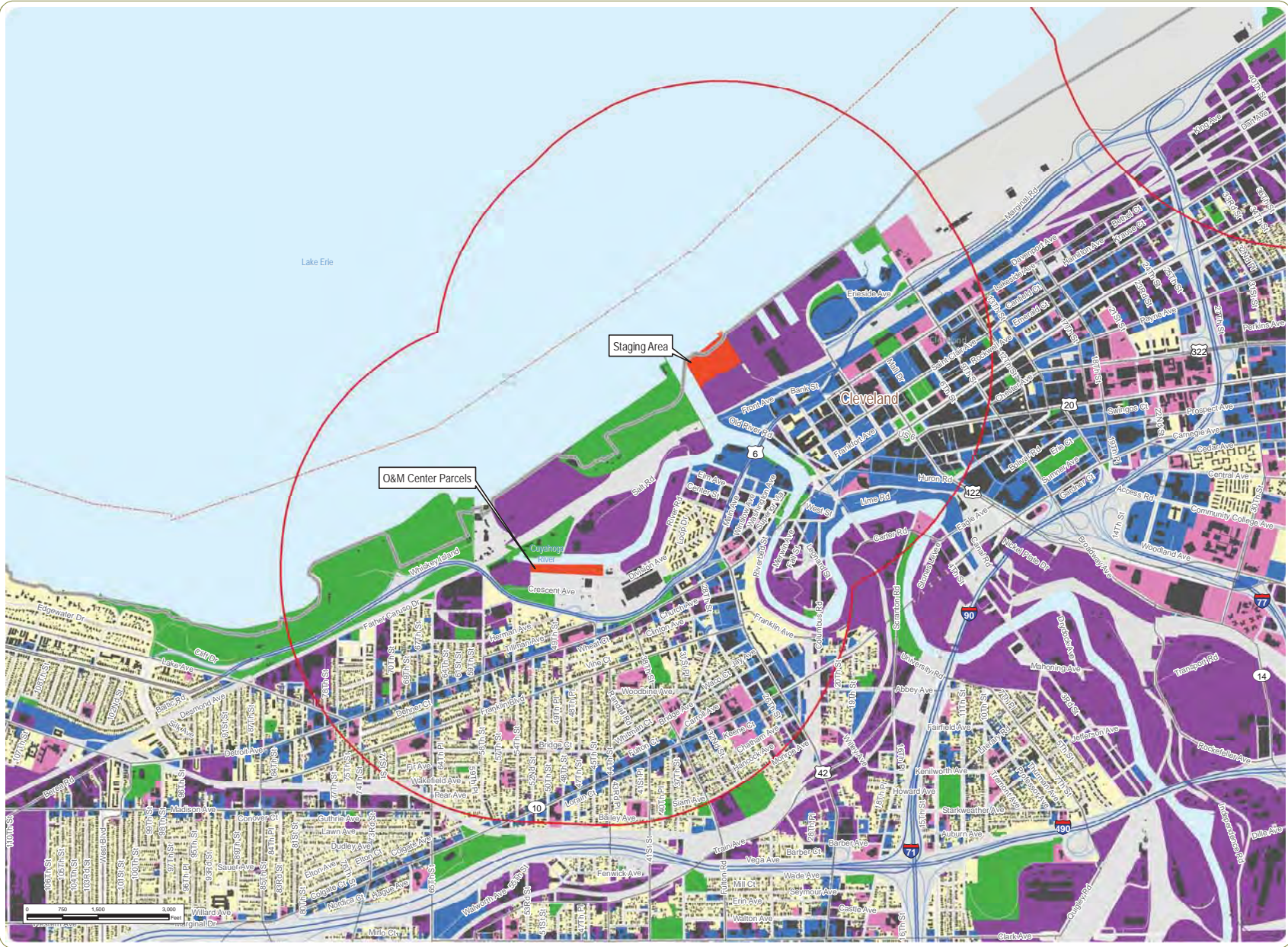
January 2017

- Ancillary Facility
- 1-Mile Facility Study Area
- Building Footprint
- Land Use
 - Commercial
 - Green Space
 - Industrial
 - Institutional
 - Residential
 - Utility
- Municipal Boundary
- County Boundary

Sheet 5 of 5



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in

Case No(s). 16-1871-EL-BGN

Summary: Application Application - Part 2 of 13 Figures 03-1 through 08-7 electronically filed by Christine M.T. Pirik on behalf of Icebreaker Windpower Inc.