Argonne NATIONAL LABORATORY

BOEM Bureau of Ocean Energy Management

Truescape®

KOP 30: Shinnecock Inlet | Season: Winter | Time of Day: Late-Noon

Base Photographic Documentation

Date (MM/DD/YYYY):	2/02/2023
Time (24hr):	13:24
GPS Longitude:	-72.47849719
GPS Latitude:	40.84122092
Viewpoint Elevation (ft):	8.828
Camera Height (ft):	5.41
Camera Heading (°):	194
Camera Direction:	SSW

Camera Information

Camera Make & Model:	Canon EOS 5DS R
Camera Sensor Size:	36mm x 24mm
Lens Make & Model:	Sigma F1.4 DG HSM A021
Lens Focal Length:	20mm
Field of View:	65.47° (H) / 46.397° (V)

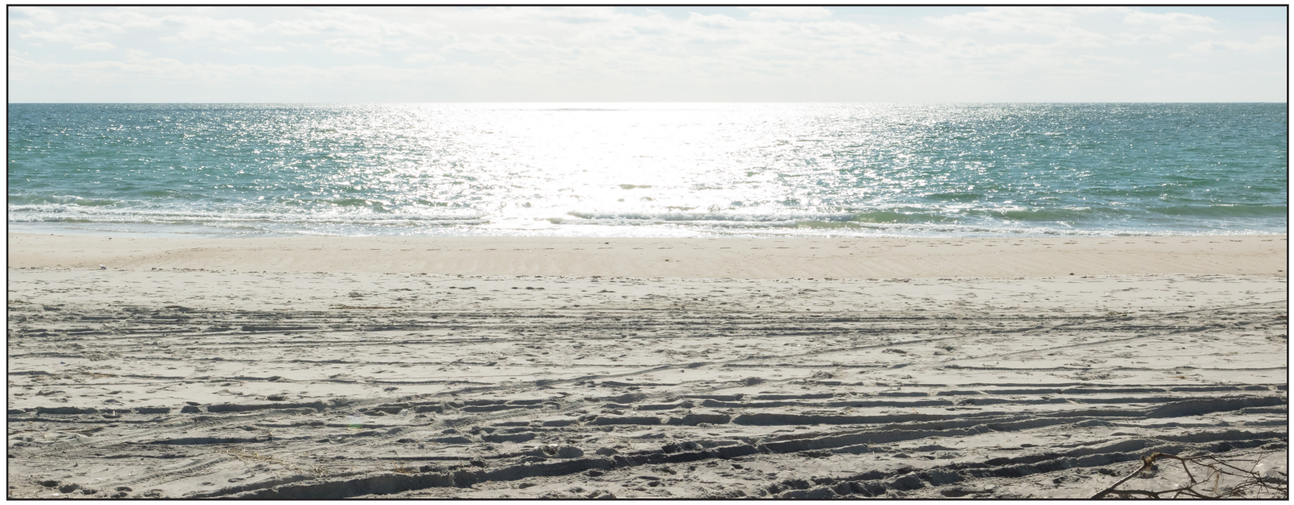
Sun And Weather Information

Sun Azimuth:	202.21
Sun Elevation:	29.51
Lighting Angle (On Turbines):	Top Lit
Weather Conditions:	Partly Cloudy
Maximum Visibility (NM):	24.75
Temperature (°F):	37
Temperature (°C):	2.78
Humidity (%):	47

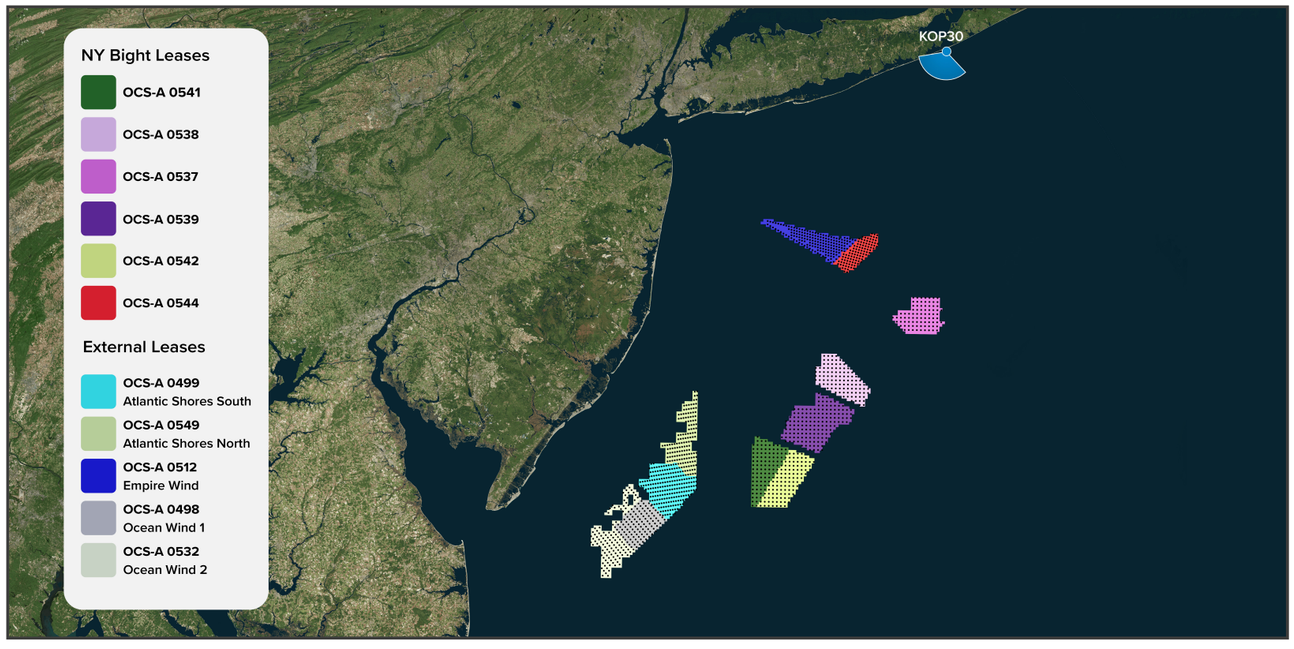
Viewing Instructions

11 x 17 inch Printed Display:	Distance is 19.7 inches (500mm)
On-Screen Display:	Distance is 19.7 inches (500mm)

Image Preview



Context Map



Key Observation Point (KOP) Turbines

KOP 30:Shinnecock Inlet | Season: Winter | Time of Day: Late-Noon

NY Bight Turbine Information - 1312ft (399.9m)

Lease Area	Distance to Nearest Turbine in Miles (km)	Turbines Visible		
		Blade Tip	Hub	Mid Tower
Total	-	27	0	0
OCS-A 0544	44.67 (71.89)	27	0	0
OCS-A 0537	55.35 (89.07)	0	0	0
OCS-A 0538	79.92 (128.62)	0	0	0
OCS-A 0539	92.27 (148.49)	0	0	0
OCS-A 0541	110.48 (177.80)	0	0	0
OCS-A 0542	109.85 (176.78)	0	0	0

Blade tip counts are a summation of only blade tips visible, only hubs visible, and mid-towers visible. Hub counts are a summation of only hubs visible and mid towers visible.

Turbine Visibility	Turbine Visibility & Percentage
Amount of Nearest Turbine Hidden in ft (m)	1070.2 (326.2)
Percent of Nearest Turbine Hidden (%)	81.6%
Amount of Nearest Turbine Visible in ft (m)	241.9 (73.7)
Percent of Nearest Turbine Visible (%)	18.4%

NY Bight Turbine Specifications

Turbine Components	Measurements ft (m)
Rotor Diameter in ft (m)	1212 (369.4)
Total Height to Tip of Blade in ft (m)	1312 (399.9)
Hub Height in ft (m)	706 (215.2)
Support Structure Height in ft (m)	25 (7.6)
Service Platform in ft (m)	100 (30.5) x 200 (61.0) Steel Platform above MWS
Total Number of Turbines	1481

NY Bight Turbine Information - 853ft (260m)

No Simulation

Lease Area	Distance to Nearest Turbine in Miles (km)	Turbines Visible		
		Blade Tip	Hub	Mid Tower
Total	-	0	0	0
OCS-A 0544	44.67 (71.89)	0	0	0
OCS-A 0537	55.35 (89.07)	0	0	0
OCS-A 0538	79.92 (128.62)	0	0	0
OCS-A 0539	92.27 (148.49)	0	0	0
OCS-A 0541	110.48 (177.80)	0	0	0
OCS-A 0542	109.85 (176.78)	0	0	0

Blade tip counts are a summation of only blade tips visible, only hubs visible, and mid-towers visible. Hub counts are a summation of only hubs visible and mid towers visible.

Turbine Visibility	Turbine Visibility & Percentage
Amount of Nearest Turbine Hidden in ft (m)	853 (260)
Percent of Nearest Turbine Hidden (%)	100%
Amount of Nearest Turbine Visible in ft (m)	0.0 (0.0)
Percent of Nearest Turbine Visible (%)	0.0%

NY Bight Turbine Specifications

Turbine Components	Measurements ft (m)
Rotor Diameter in ft (m)	722 (220.1)
Total Height to Tip of Blade in ft (m)	853 (260)
Hub Height in ft (m)	361 (110)
Support Structure Height in ft (m)	25 (7.6)
Service Platform in ft (m)	100 (30.5) x 200 (61.0) Steel Platform above MWS
Total Number of Turbines	1481

External Turbine Information

Lease Area	Distance to Nearest Turbine in Miles (km)	Turbines Visible		
		Blade Tip	Hub	Mid Tower
Total	-	0	0	N/A
OCS-A 0499	N/A	0	0	N/A
OCS-A 0549	N/A	0	0	N/A
OCS-A 0512	N/A	0	0	N/A
OCS-A 0498	N/A	0	0	N/A
OCS-A 0532	N/A	0	0	N/A

Cumulative Turbine Visibility
(Total WTG Count for NY Bight + External Leases)

1312ft (399.9m)			853ft (260m) - No Simulation		
Blade Tip	Hub	Mid Tower	Blade Tip	Hub	Mid Tower
27	0	0	0	0	0

The cumulative mid tower counts for both turbine heights are conservative values due to having no mid tower data for the external leases.

External Turbine Specifications

Lease Area	Rotor Diameter in ft (m)	Total Height to Tip of Blade in ft (m)	Hub Height in ft (m)	Support Structure Height in ft (m)
OCS-A 0499	918.6 (279.9)	1049 (319.7)	577 (176)	25 (7.6)
OCS-A 0549	918.6 (279.9)	1049 (319.7)	577 (176)	25 (7.6)
OCS-A 0512	853 (259.9)	951 (290)	525 (160)	25 (7.6)
OCS-A 0498	788 (240.1)	906 (276)	512 (156)	25 (7.6)
OCS-A 0532	788 (240.1)	906 (276)	512 (156)	25 (7.6)

KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° **- Existing View**

For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 157 inches

2/02/2023 at 13:24 - KOP 30

Argonne NATIONAL LABORATORY

New York Bight

Shinnecock Inlet

Camera Heading 194°

Viewpoint Location Turbines

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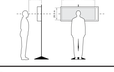
Elevation of Viewpoint Position:	**8.828**
Height of Camera Above Ground:	**5.41**
Date of Photography:	**2/02/2023 at 13:24**
Horizontal Field of View:	**124°**
Vertical Field of View:	**55°**

CORRECT VIEWING OF TRUEVIEW™ PHOTO SIMULATIONS



NOTES:

Viewpoint locations have been precision surveyed by

New York City Land Surveyors PC
63 Montgomery Avenue
Staten Island NY 10301

Heights are above mean sea level.

Structure design and placement are subject to final engineering.

No part of this photo simulation shall be altered in any way.

Photo Simulation Created Using
TrueView™ Technology
(Patent No.: US 8,184,906 B2)

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KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° **- Proposed View - NY Bight Leases (1312ft) - Predicted Visibility**

For on-screen display:
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2/02/2023 at 13:24 - KOP 30

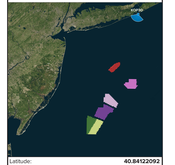
Argonne NATIONAL LABORATORY

New York Bight

Shinnecock Inlet

Camera Heading 194°

Viewpoint Location Turbines



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Horizontal Field of View the Projects Occupy:	**5.7°**

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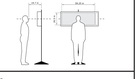

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KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° - **Proposed View - NY Bight Leases (1312ft) - Predicted Visibility**

For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 19.7 inches

2/02/2023 at 13:24 - KOP 30

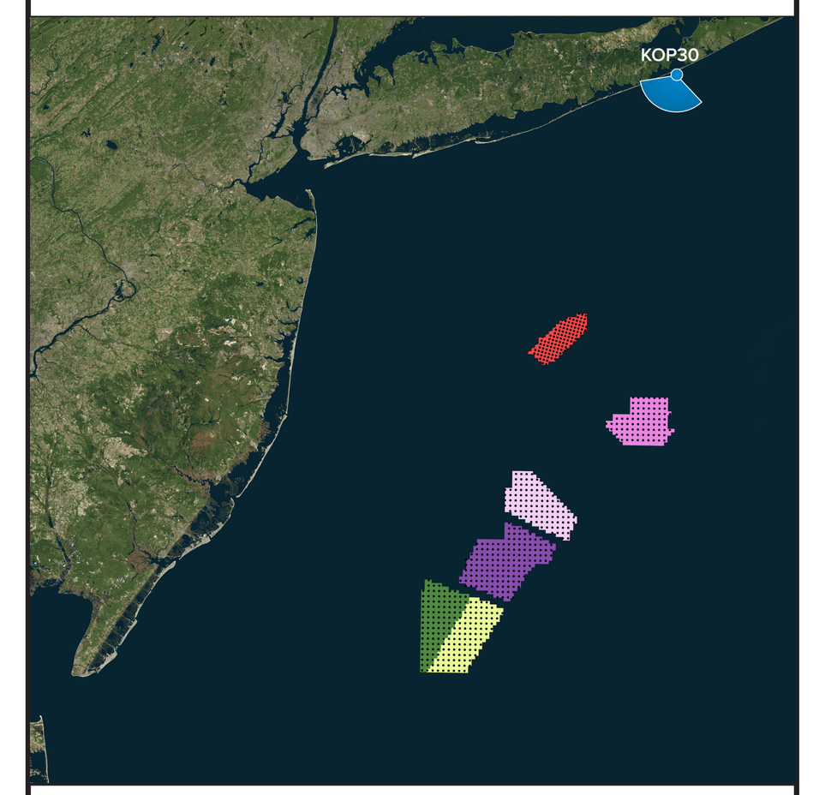
Argonne NATIONAL LABORATORY

New York Bight

Shinnecock Inlet

Camera Heading 194°

● Viewpoint Location ● Turbines



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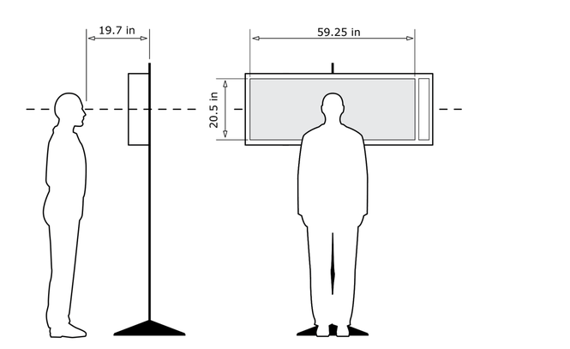

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KEY OBSERVATION POINT 30 - SHINNECOCK INLET

PROPOSED VIEW - NY BIGHT LEASES (1312 FT) - PREDICTED VISIBILITY - 50MM CROP - (WINTER / LATE-NOON)

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For on-screen display:
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2/02/2023 at 13:24 - KOP 30

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KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° **- Proposed View - NY Bight Leases (1312ft) - Maximum Visibility**

For on-screen display:
Scale bar to be 4 inches wide
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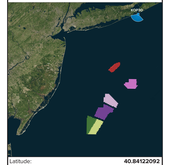
Argonne NATIONAL LABORATORY

New York Bight

Shinnecock Inlet

Camera Heading 194°

Viewpoint Location Turbines



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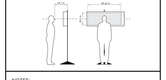

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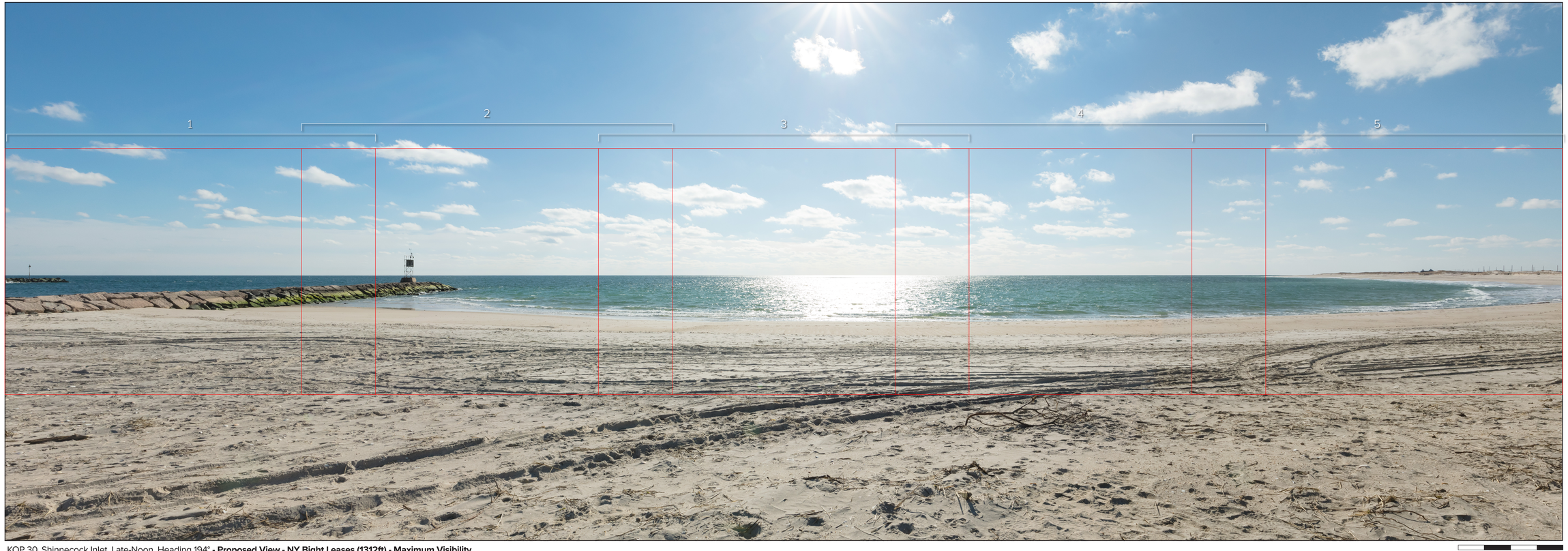

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New York Bight

Shinnecock Inlet

Camera Heading 194°

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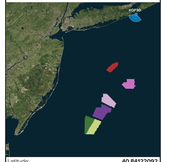

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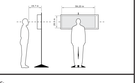

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2/02/2023 at 13:24 - KOP 30

KEY OBSERVATION POINT 30 - SHINNECOCK INLET

PROPOSED VIEW - NY BIGHT LEASES (1312 FT) - MAXIMUM VISIBILITY - 50MM CROP - (WINTER / LATE-NOON)

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For on-screen display:
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2/02/2023 at 13:24 - KOP 30

KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° **- Proposed View - Cumulative - External Leases and NY Bight Leases (1312ft) - Predicted Visibility**

For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 157 inches

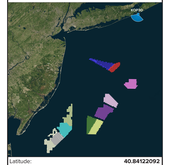
Argonne NATIONAL LABORATORY

New York Bight

Shinnecock Inlet

Camera Heading 194°

Viewpoint Location Turbines



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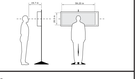

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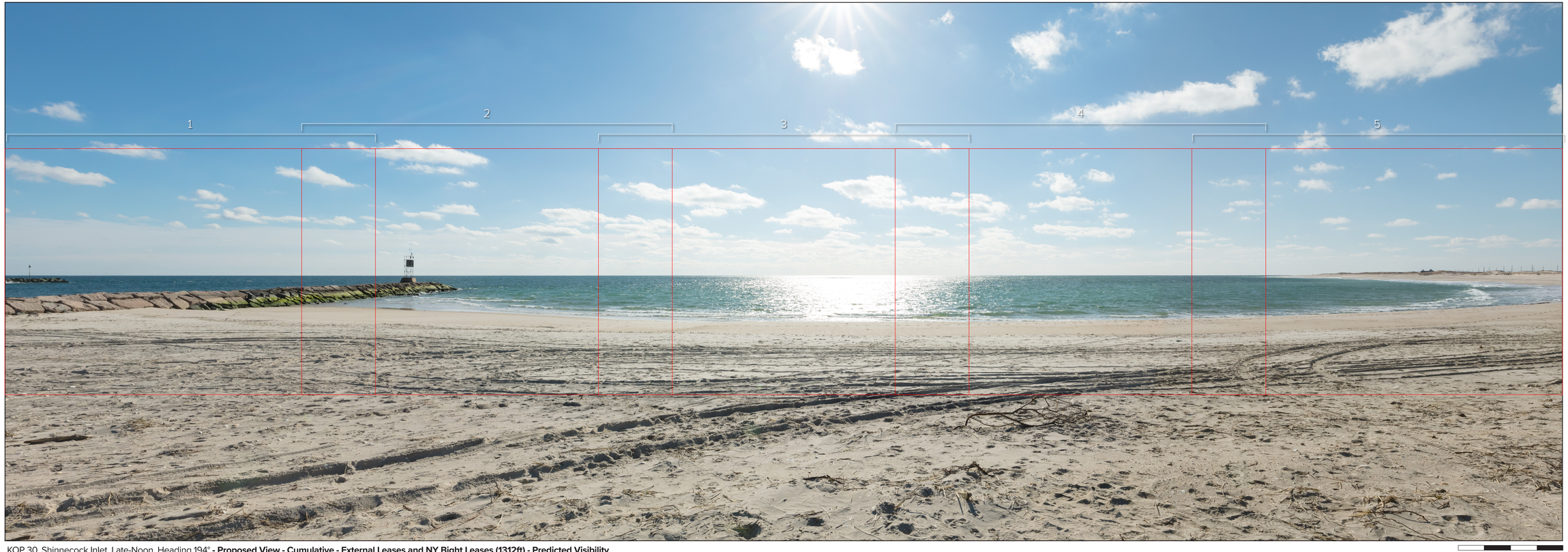

KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° **- Proposed View - Cumulative - External Leases and NY Bight Leases (1312ft) - Predicted Visibility**

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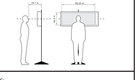

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KEY OBSERVATION POINT 30 - SHINNECOCK INLET

PROPOSED VIEW - CUMULATIVE - EXTERNAL LEASES & NY BIGHT LEASES (1312 FT) - PREDICTED VISIBILITY - 50MM CROP - (WINTER / LATE-NOON)

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2/02/2023 at 13:24 - KOP 30

KEY OBSERVATION POINT 30 - SHINNECOCK INLET

PROPOSED VIEW - CUMULATIVE - EXTERNAL LEASES & NY BIGHT LEASES (1312 FT) - PREDICTED VISIBILITY - 50MM CROP - (WINTER / LATE-NOON)

Truescape®

For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 19.7 inches

2/02/2023 at 13:24 - KOP 30

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2/02/2023 at 13:24 - KOP 30

KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° **- Proposed View - Cumulative - External Leases and NY Bight Leases (1312ft) - Maximum Visibility**

For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 157 inches

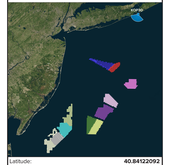
Argonne NATIONAL LABORATORY

New York Bight

Shinnecock Inlet

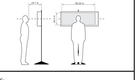
Camera Heading 194°

Viewpoint Location Turbines



Latitude:	**40.84122092**
Longitude:	**-72.47849719**
Elevation of Viewpoint Position:	**8.828**
Height of Camera Above Ground:	**5.41**
Date of Photography:	**2/02/2023 at 13:24**
Horizontal Field of View:	**124°**
Vertical Field of View:	**55°**
Nearest Turbine:	**44.7mi (71.9km) (OCS-A 0544)**
Furthest Visible Turbine:	**48.7mi (78.4km) (OCS-A 0544)**
Horizontal Field of View the Projects Occupy:	**5.7°**

CORRECT VIEWING OF TRUEVIEW™ PHOTO SIMULATIONS



NOTES:

Viewpoint locations have been precision surveyed by

New York City Land Surveyors PC
63 Montgomery Avenue
Staten Island NY 10301

Heights are above mean sea level.

Structure design and placement are subject to final engineering.

No part of this photo simulation shall be altered in any way.

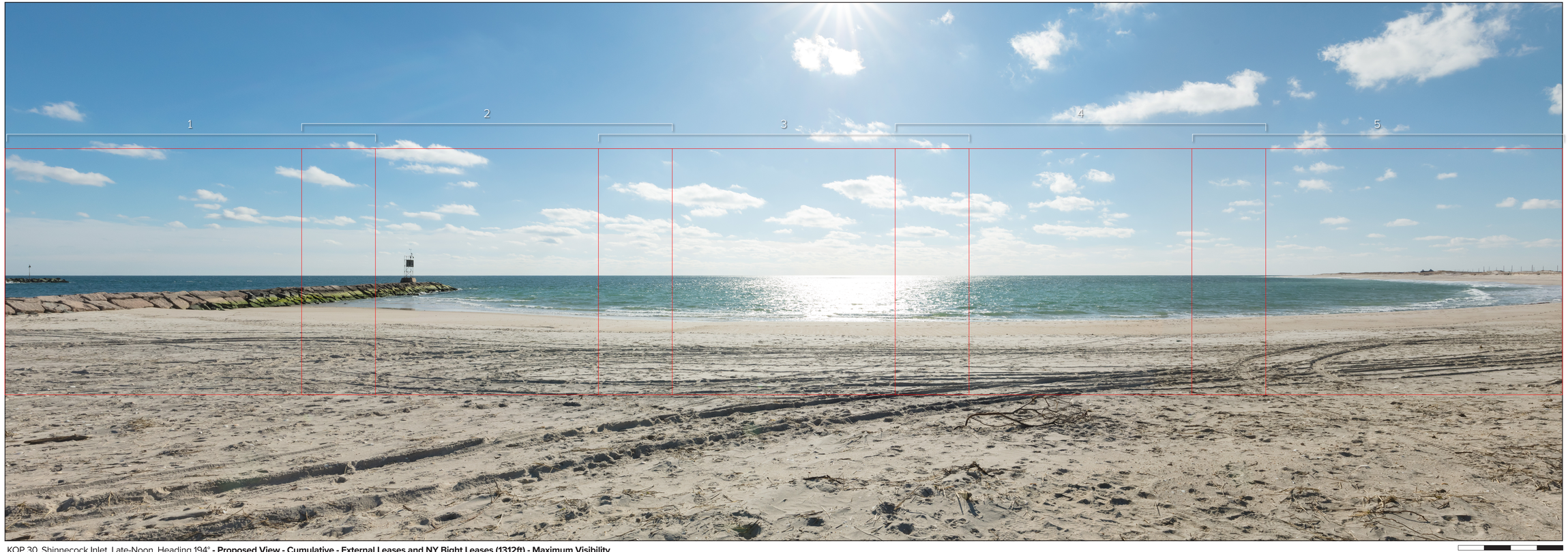
Photo Simulation Created Using
TrueView™ Technology
(Patent No.: US 8,184,906 B2)

Provided by

Truescape®

truescape.com

2023/02/02 at 13:24 - KOP 30



KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° **- Proposed View - Cumulative - External Leases and NY Bight Leases (1312ft) - Maximum Visibility**

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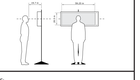

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2023/2/02 at 13:24 - KOP 30

KEY OBSERVATION POINT 30 - SHINNECOCK INLET

PROPOSED VIEW - CUMULATIVE - EXTERNAL LEASES & NY BIGHT LEASES (1312 FT) - MAXIMUM VISIBILITY - 50MM CROP - (WINTER / LATE-NOON)

Truescape®

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2/02/2023 at 13:24 - KOP 30

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2/02/2023 at 13:24 - KOP 30

KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° **- Proposed View - External Leases - Predicted Visibility**

For on-screen display:
Scale bar to be 4 inches wide
Viewing distance 157 inches

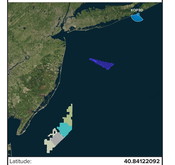
Argonne NATIONAL LABORATORY

New York Bight

Shinnecock Inlet

Camera Heading 194°

Viewpoint Location Turbines



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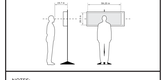
Vertical Field of View:	**55°**

CORRECT VIEWING OF TRUEVIEW™ PHOTO SIMULATIONS



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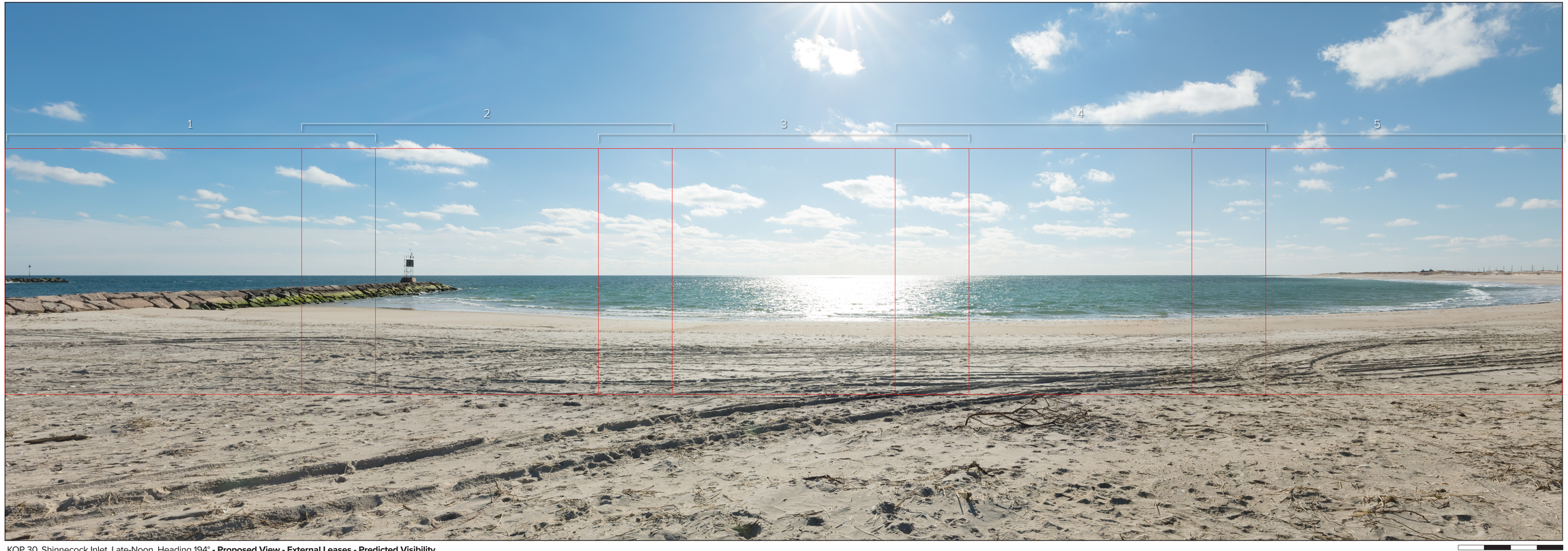

KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° **- Proposed View - External Leases - Predicted Visibility**

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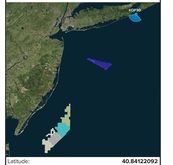

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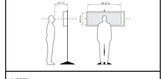

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KEY OBSERVATION POINT 30 - SHINNECOCK INLET

PROPOSED VIEW - EXTERNAL LEASES - PREDICTED VISIBILITY - 50MM CROP - (WINTER / LATE-NOON)

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KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° **- Proposed View - External Leases - Maximum Visibility**

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2/02/2023 at 13:24 - KOP 30

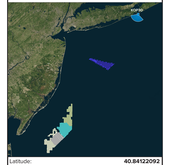
Argonne NATIONAL LABORATORY

New York Bight

Shinnecock Inlet

Camera Heading 194°

Viewpoint Location Turbines



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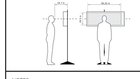

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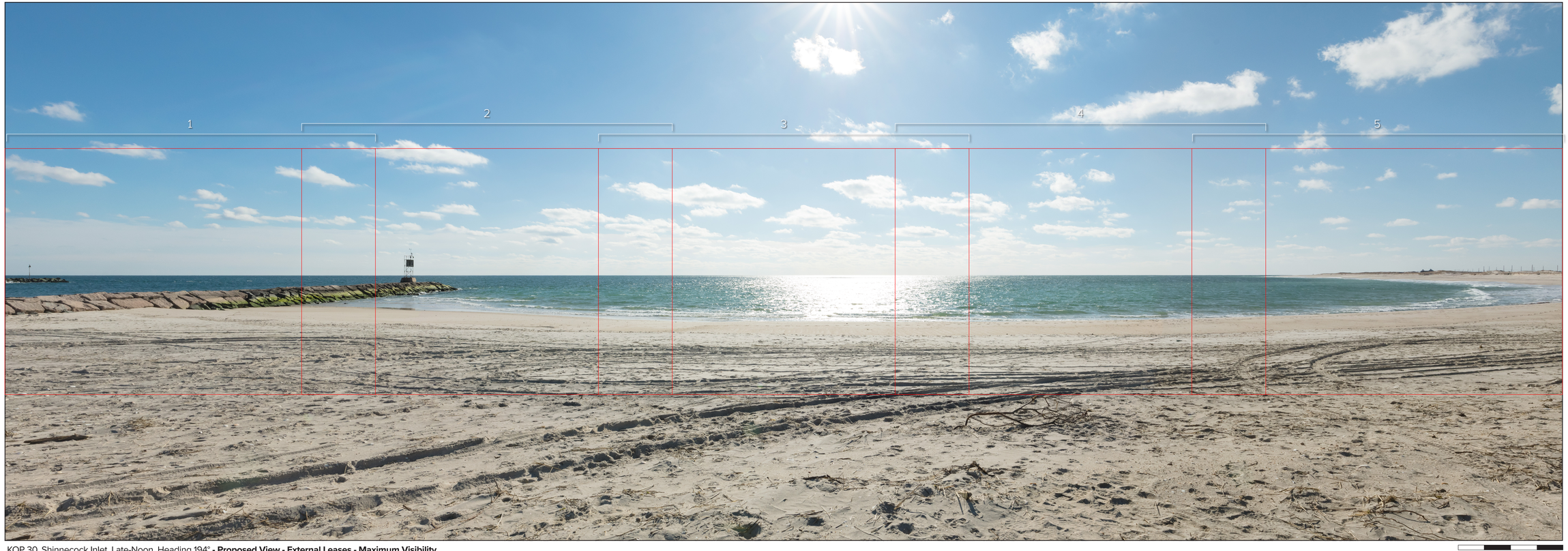

KOP 30, Shinnecock Inlet, Late-Noon, Heading 194° **- Proposed View - External Leases - Maximum Visibility**

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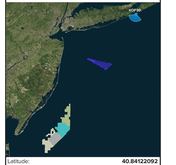

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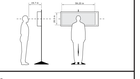

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2/02/2023 at 13:24 - KOP 30

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