



**NORTH FALLS**

*Offshore Wind Farm*

# **ENVIRONMENTAL STATEMENT**

Chapter 29 Figures (Part 5 of 6)

|                     |           |
|---------------------|-----------|
| Document Reference: | 3.2.25    |
| Volume:             | 3.2       |
| APFP Regulation:    | 5(2)(a)   |
| Date:               | July 2024 |
| Revision:           | 0         |

**Project Reference: EN010119**



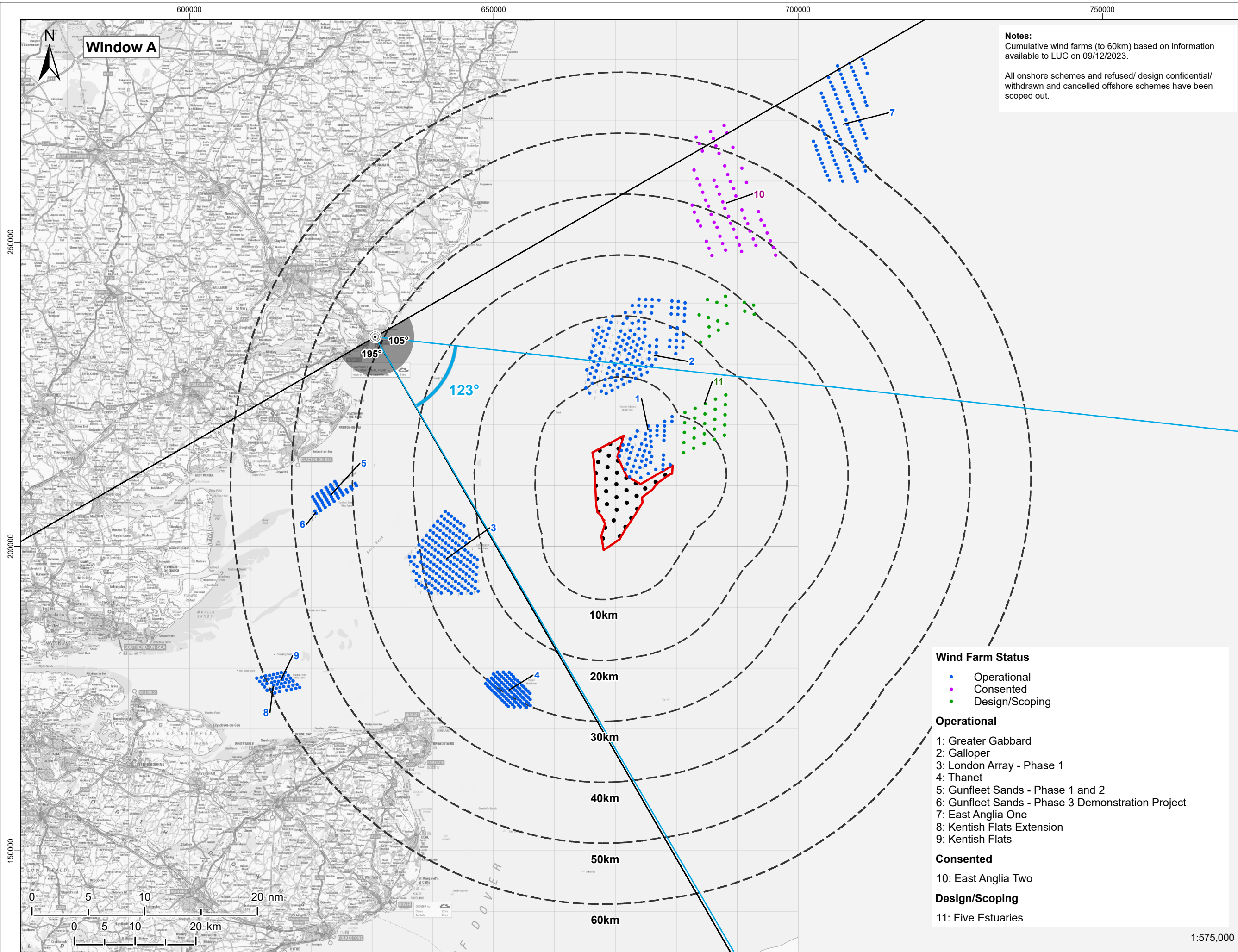
**NORTH FALLS**

*Offshore Wind Farm*

|                             |  |
|-----------------------------|--|
| <b>Project</b>              | North Falls Offshore Wind Farm             |
| <b>Document Title</b>       | Environmental Statement Chapter 29 Figures |
| <b>Document Reference</b>   | 3.2.25                                     |
| <b>APFP Regulation</b>      | 5(2)(a)                                    |
| <b>Supplier</b>             | Royal HaskoningDHV                         |
| <b>Supplier Document ID</b> | PB9244-RHD-ES-OF-RP-OF-0213                |

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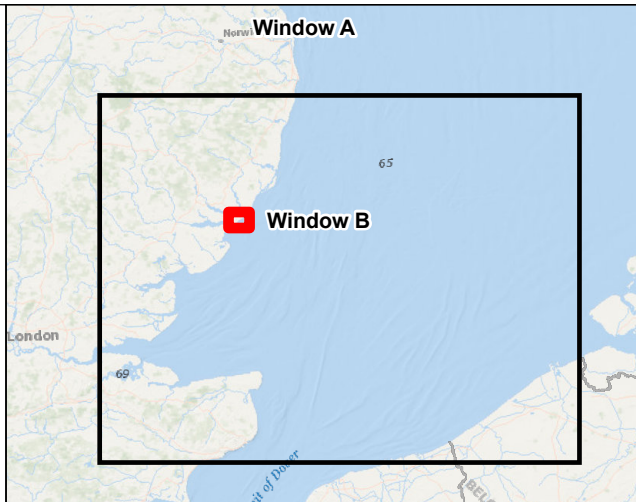
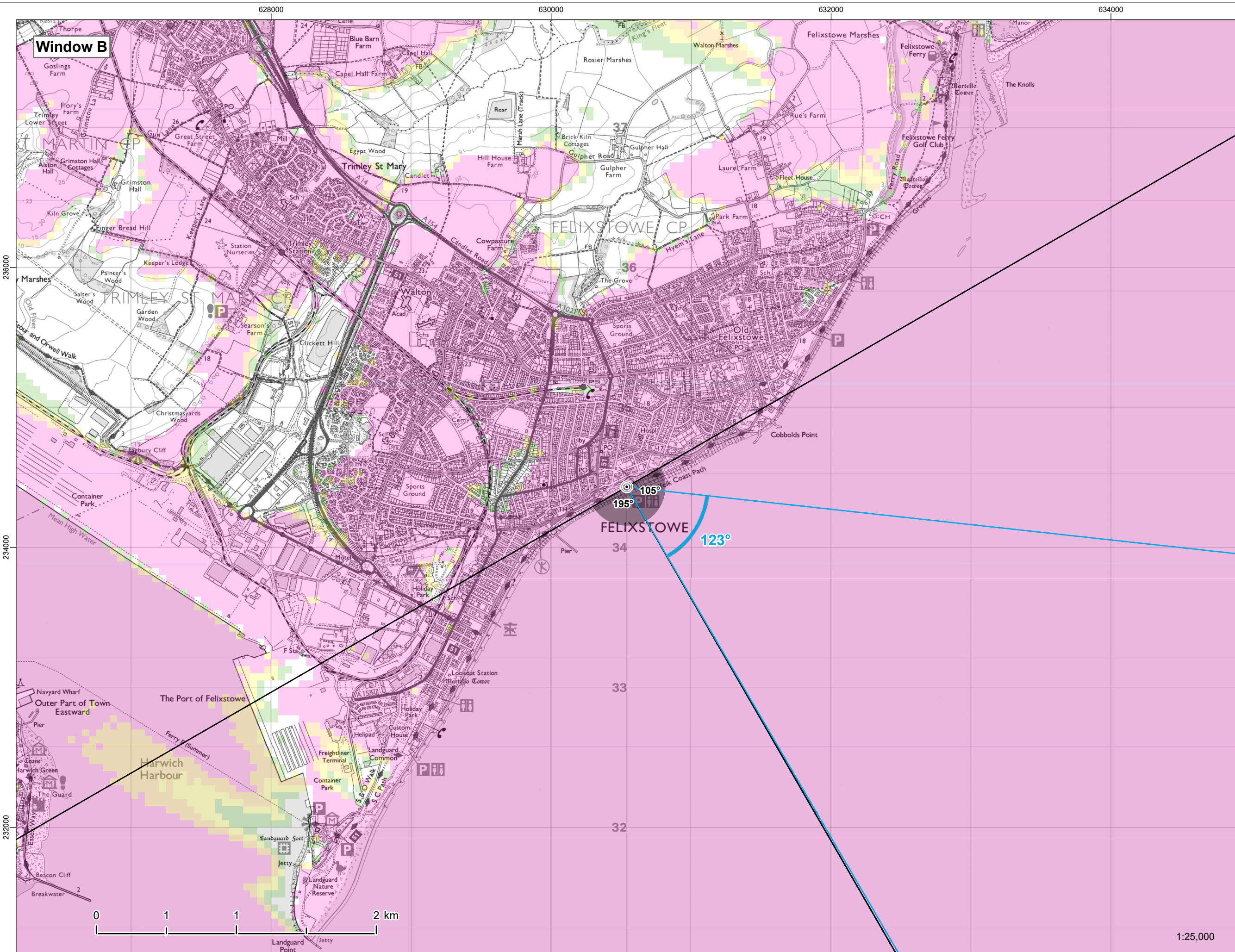
| <b>Revision</b> | <b>Date</b> | <b>Status/Reason for Issue</b> | <b>Originator</b> | <b>Checked</b> | <b>Approved</b> |
|-----------------|-------------|--------------------------------|-------------------|----------------|-----------------|
| 0               | July 2024   | Submission                     | RHDHV             | NFOW           | NFOW            |
|                 |             |                                |                   |                |                 |
|                 |             |                                |                   |                |                 |
|                 |             |                                |                   |                |                 |



**Notes:**  
 Cumulative wind farms (to 60km) based on information available to LUC on 09/12/2023.  
 All onshore schemes and refused/ design confidential/ withdrawn and cancelled offshore schemes have been scoped out.

- Wind Farm Status**
- Operational
  - Consented
  - Design/Scoping
- Operational**
- 1: Greater Gabbard
  - 2: Galloper
  - 3: London Array - Phase 1
  - 4: Thanet
  - 5: Gunfleet Sands - Phase 1 and 2
  - 6: Gunfleet Sands - Phase 3 Demonstration Project
  - 7: East Anglia One
  - 8: Kentish Flats Extension
  - 9: Kentish Flats
- Consented**
- 10: East Anglia Two
- Design/Scoping**
- 11: Five Estuaries

1:575,000



- Legend**
- ◻ North Falls Array Area
  - Turbine (indicative layout)
  - ◻ Turbine buffers - 10km intervals
  - ⊙ Viewpoint
- Bareground ZTV to Tip (381.39m)**
- 1 - 10 Turbines visible
  - 11 - 20 Turbines visible
  - 21 - 30 Turbines visible
  - 31 - 34 Turbines visible
  - ∠ 53.5° Field of View
  - ∠ 90° Field of View

**Notes:**  
 The ZTV is calculated to turbine tip height (381.39m) from a viewing height of 2m above ground level.

The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.1.0 software

Data Source: OS, LUC, RHDHV  
 Basemap Sources: OS, Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

Drawing Title  
**Viewpoint 11 - Felixstowe Seaford Gardens**

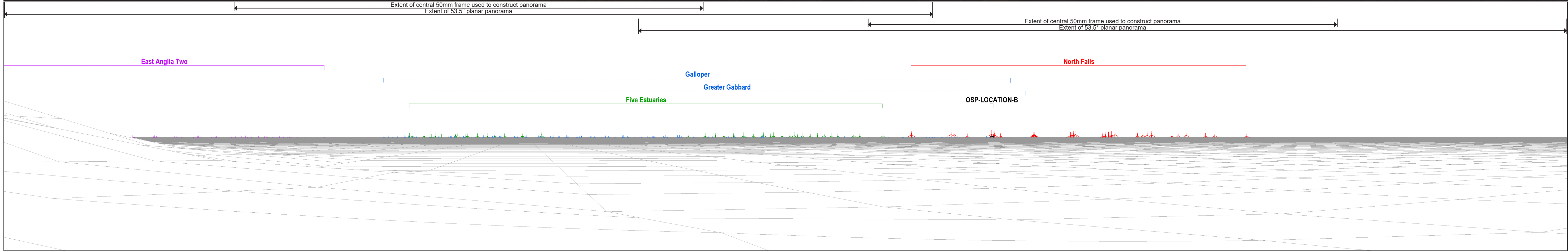
| Rev | Date       | Remarks     | Drwn | Chkd |
|-----|------------|-------------|------|------|
| 01  | 13/03/2024 | First Issue | RW   | JN   |
|     |            |             |      |      |
|     |            |             |      |      |

Drawing Number  
**PB9244-LUC-ZZ-OF-DR-GS-0032**

Figure Number  
**29.2.11**

Scale: Plot Size Double Width A3, Datum OSGB36, Projection BNG





OS reference: 630540E 234432N  
 AOD: 4 m  
 Direction of view: 105°  
 Nearest turbine: 41.33 km

Horizontal field of view: 90° (cylindrical projection)  
 Principal distance: 522 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
 Lens: 50mm Fixed Focal Length  
 Camera height: 1.5 m

Photography Date: 22/11/2021  
 Photography Time: 15:15

Wind Farm Developments key  
 (by status):

Proposed scheme  
 Operational  
 Consented  
 Scoping

Notes: Certain cumulative offshore wind farm data has been sourced from publicly accessible locations including project scoping/ environmental report plans and from the open infrastructure website. Layouts are approximate, and any discernible slight discrepancies between cumulative wirelines and baseline photography are not sufficient to alter the reliability of the images or result in material changes.

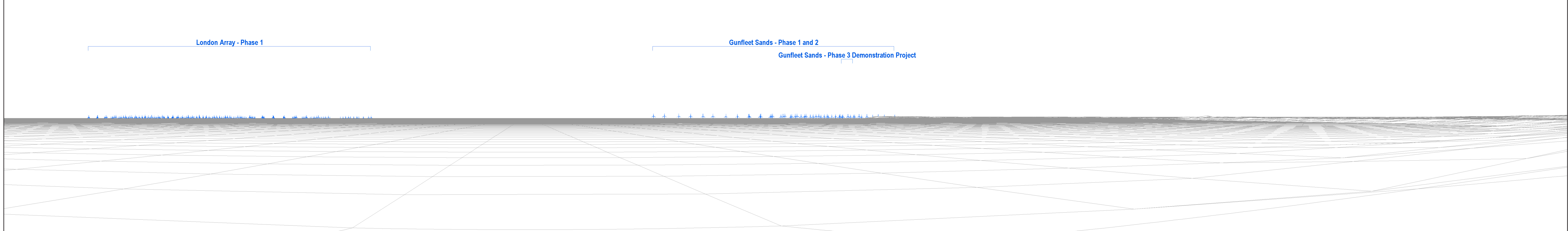
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Baseline photograph

This image provides landscape and visual context only

Wireline drawing



OS reference: 630540E 234432N  
 AOD: 4 m  
 Direction of view: 195°  
 Nearest turbine: 41.33 km

Horizontal field of view: 90° (cylindrical projection)  
 Principal distance: 522 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
 Lens: 50mm Fixed Focal Length  
 Camera height: 1.5 m

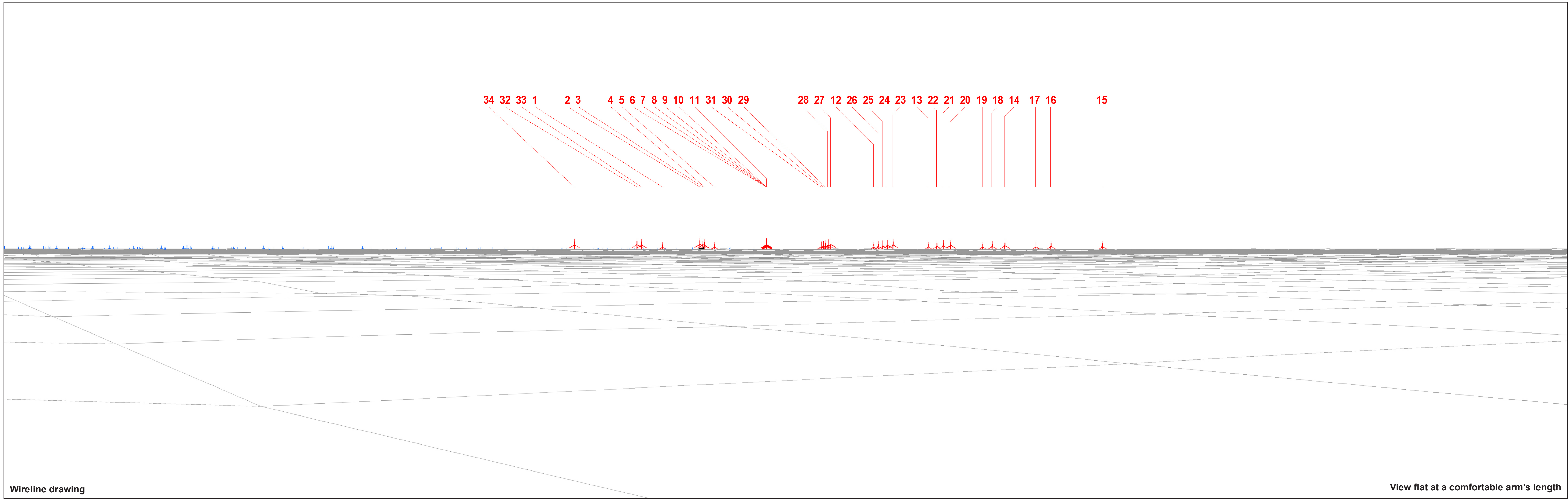
Photography Date: 22/11/2021  
 Photography Time: 15:15

Wind Farm Developments key  
 (by status):

Proposed scheme  
 Operational  
 Consented  
 Scoping

Notes: Certain cumulative offshore wind farm data has been sourced from publicly accessible locations including project scoping/ environmental report plans and from the open infrastructure website. Layouts are approximate, and any discernible slight discrepancies between cumulative wirelines and baseline photography are not sufficient to alter the reliability of the images or result in material changes.

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Wireline drawing

View flat at a comfortable arm's length

OS reference: 630540E 234432N  
 AOD: 4 m  
 Direction of view: 120°  
 Nearest turbine: 41.33 km

Horizontal field of view: 53.5° (planar projection)  
 Principal distance: 812.5 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Wind Farm Developments key  
 (by status):

- Proposed scheme
- Operational
- Consented
- Scoping

North Falls  
 Figure: 29.2.11c  
 Viewpoint 11: Felixstowe Seafrost Gardens



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Photomontage

View flat at a comfortable arm's length



OS reference: 630540E 234432N  
AOD: 4 m  
Direction of view: 120°  
Nearest turbine: 41.33 km

Horizontal field of view: 53.5° (planar projection)  
Principal distance: 812.5 mm  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
Lens: 50mm Fixed Focal Length  
Camera height: 1.5 m

Photography Date: 22/11/2021  
Photography Time: 15:15

North Falls  
Figure: 29.2.11d  
Viewpoint 11: Felixstowe Seafront Gardens



Photomontage - 2000 Candela Aviation Hub lighting

View flat at a comfortable arm's length



OS reference: 630540E 234432N  
AOD: 4 m  
Direction of view: 120°  
Nearest turbine: 33.76 km

Horizontal field of view: 53.5° (planar projection)  
Principal distance: 812.5 mm  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
Lens: 50mm Fixed Focal Length  
Camera height: 1.5 m

Photography Date: 22/11/2021  
Photography Time: 16:40





Photomontage - 200 Candela Aviation Hub lighting

View flat at a comfortable arm's length

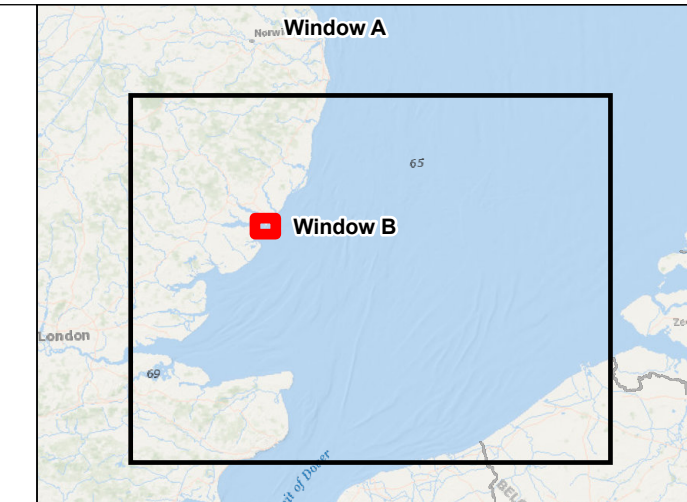
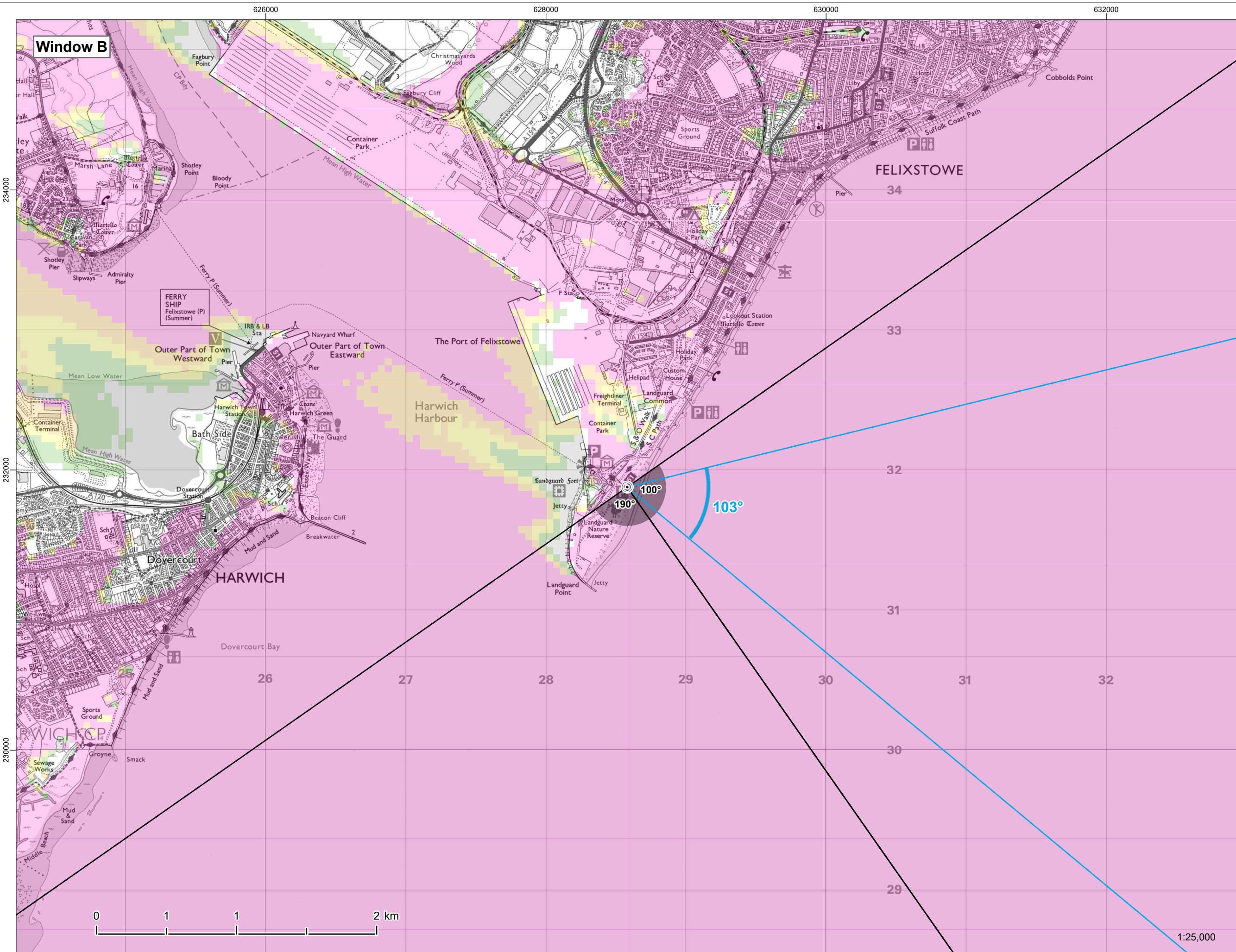
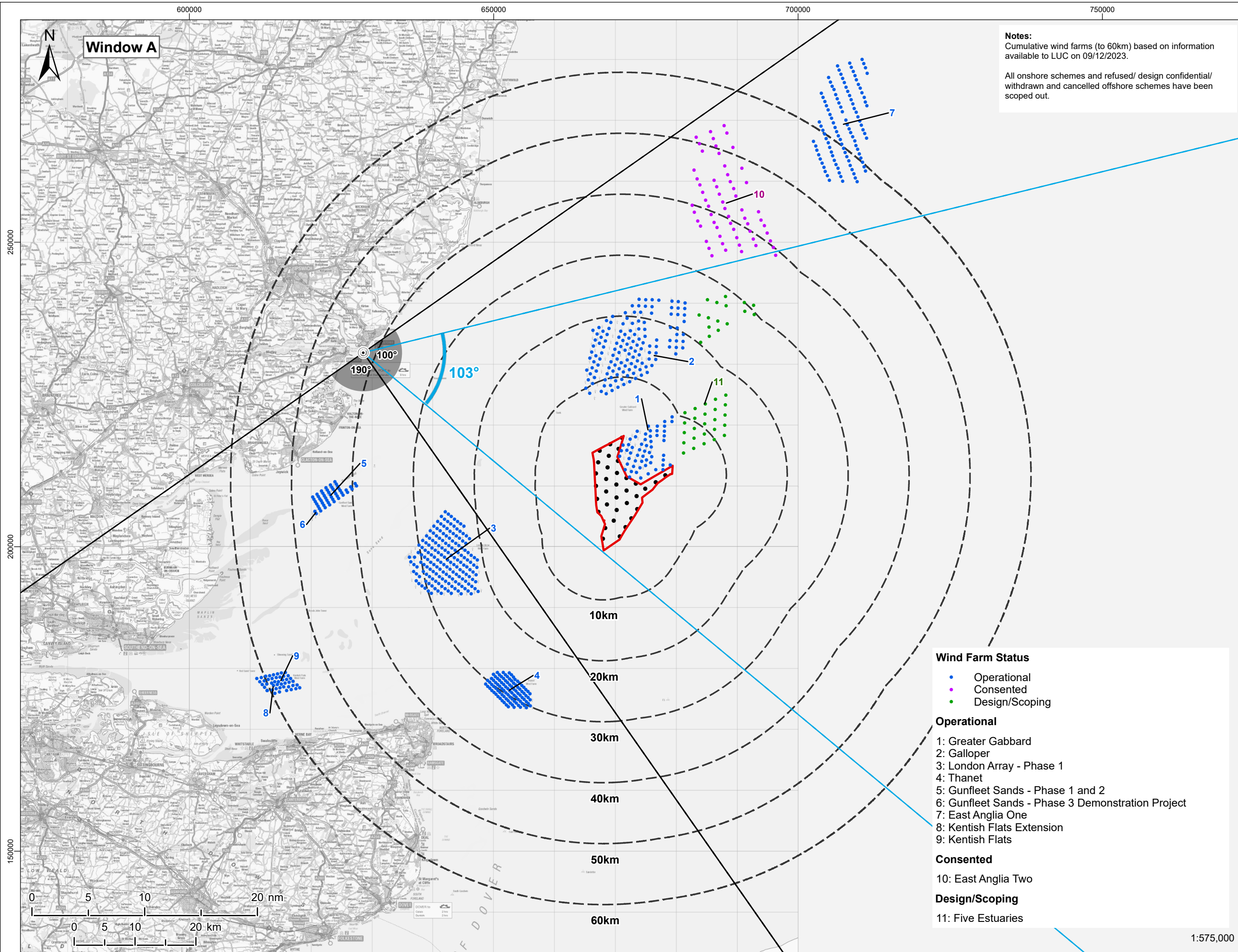


OS reference: 630540E 234432N  
AOD: 4 m  
Direction of view: 120°  
Nearest turbine: 33.76 km

Horizontal field of view: 53.5° (planar projection)  
Principal distance: 812.5 mm  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
Lens: 50mm Fixed Focal Length  
Camera height: 1.5 m

Photography Date: 22/11/2021  
Photography Time: 16:40



- Legend**
- North Falls Array Area
  - Turbine (indicative layout)
  - Turbine buffers - 10km intervals
  - Viewpoint
- Bareground ZTV to Tip (381.39m)**
- 1 - 10 Turbines visible
  - 11 - 20 Turbines visible
  - 21 - 30 Turbines visible
  - 31 - 34 Turbines visible
  - 53.5° Field of View
  - 90° Field of View

**Notes:**  
The ZTV is calculated to turbine tip height (381.39m) from a viewing height of 2m above ground level.

The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.1.0 software

Data Source: OS, LUC, RHDHV  
Basemap Sources: OS, Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

Drawing Title  
**Viewpoint 12 - Landguard Fort**

| Rev | Date       | Remarks     | Drwn | Chkd |
|-----|------------|-------------|------|------|
| 01  | 13/03/2024 | First Issue | RW   | JN   |
|     |            |             |      |      |
|     |            |             |      |      |

Drawing Number  
**PB9244-LUC-ZZ-OF-DR-GS-0033**

Figure Number  
**29.2.12**

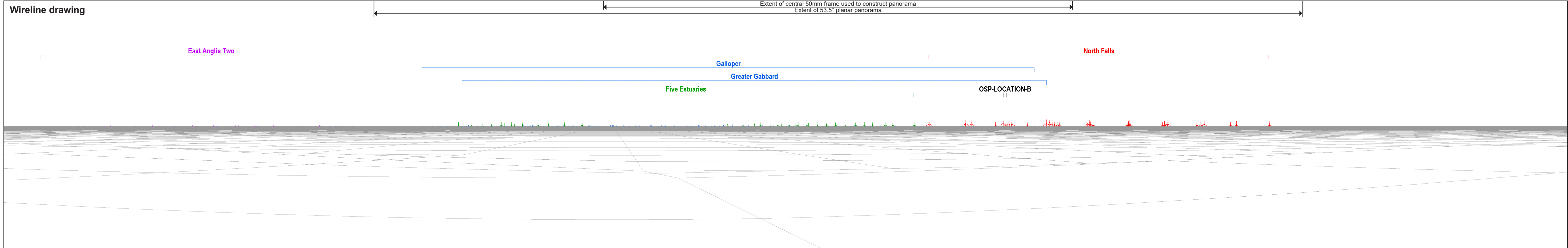
Scale: Plot Size: Double Width A3, Datum: OSGB36, Projection: BNG





Baseline photograph

This image provides landscape and visual context only



Extent of central 50mm frame used to construct panorama  
Extent of 53.5° planar panorama

Wireline drawing

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OS reference: 628580E 231878N  
AOD: 3 m  
Direction of view: 100°  
Nearest turbine: 42.04 km

Horizontal field of view: 90° (cylindrical projection)  
Principal distance: 522 mm  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
Lens: 50mm Fixed Focal Length  
Camera height: 1.5 m

Photography Date: 22/11/2021  
Photography Time: 14:55

Wind Farm Developments key  
(by status):

Proposed scheme  
Operational  
Consented  
Scoping

Notes: Certain cumulative offshore wind farm data has been sourced from publicly accessible locations including project scoping/ environmental report plans and from the open infrastructure website. Layouts are approximate, and any discernible slight discrepancies between cumulative wirelines and baseline photography are not sufficient to alter the reliability of the images or result in material changes.

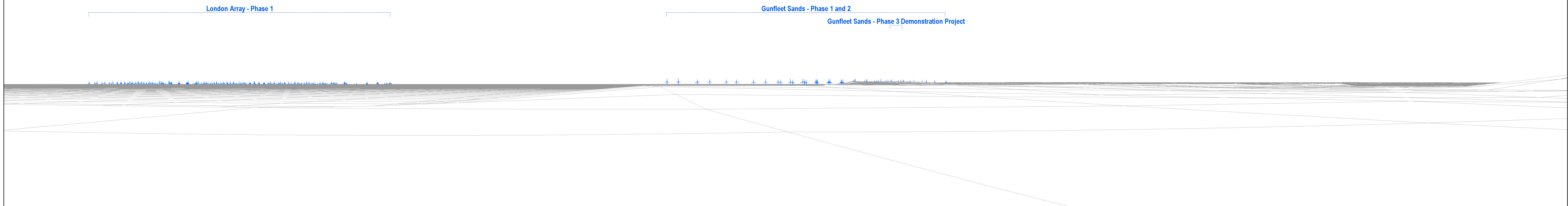
North Falls  
Figure: 29.2.12a  
Viewpoint 12: Landguard Fort



Baseline photograph

This image provides landscape and visual context only

Wireline drawing



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OS reference: 628580E 231878N  
 AOD: 3 m  
 Direction of view: 190°  
 Nearest turbine: 42.04 km

Horizontal field of view: 90° (cylindrical projection)  
 Principal distance: 522 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
 Lens: 50mm Fixed Focal Length  
 Camera height: 1.5 m

Photography Date: 22/11/2021  
 Photography Time: 14:55

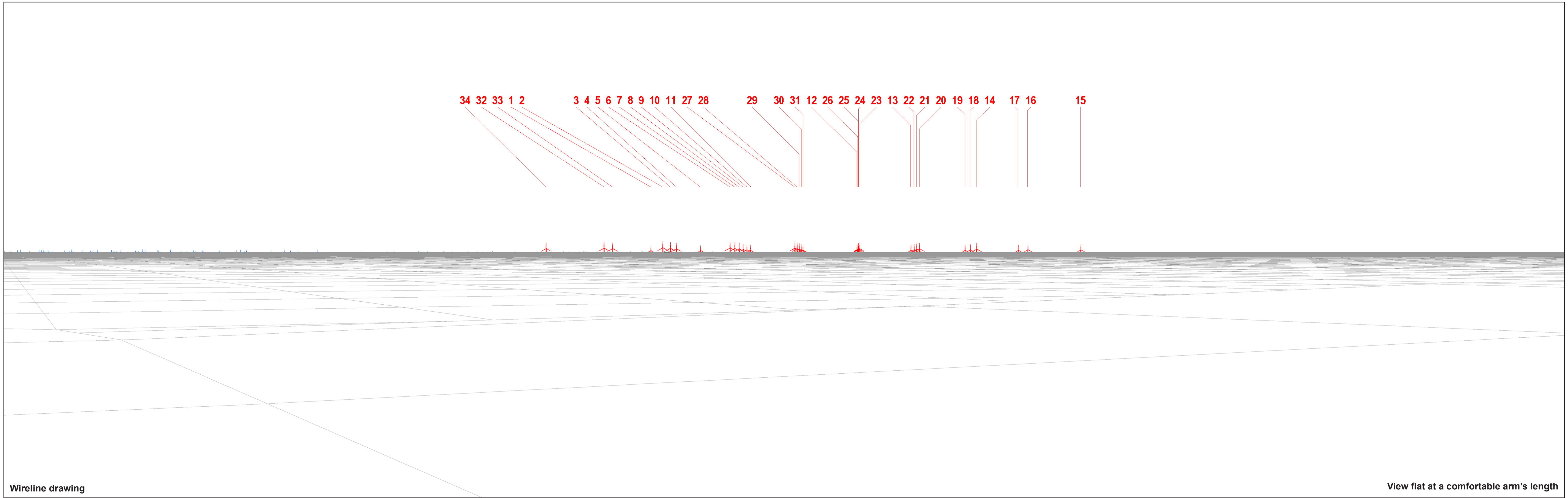
Wind Farm Developments key  
 (by status):

Proposed scheme  
 Operational  
 Consented  
 Scoping

Notes: Certain cumulative offshore wind farm data has been sourced from publicly accessible locations including project scoping/ environmental report plans and from the open infrastructure website. Layouts are approximate, and any discernible slight discrepancies between cumulative wirelines and baseline photography are not sufficient to alter the reliability of the images or result in material changes.

North Falls  
**Figure: 29.2.12b**  
 Viewpoint 12: Landguard Fort

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Wireline drawing

View flat at a comfortable arm's length



OS reference: 628580E 231878N  
 AOD: 3 m  
 Direction of view: 117°  
 Nearest turbine: 42.04 km

Horizontal field of view: 53.5° (planar projection)  
 Principal distance: 812.5 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Wind Farm Developments key  
 (by status):

- Proposed scheme
- Operational
- Consented
- Scoping

North Falls  
 Figure: 29.2.12c  
 Viewpoint 12: Landguard Fort



Photomontage

View flat at a comfortable arm's length



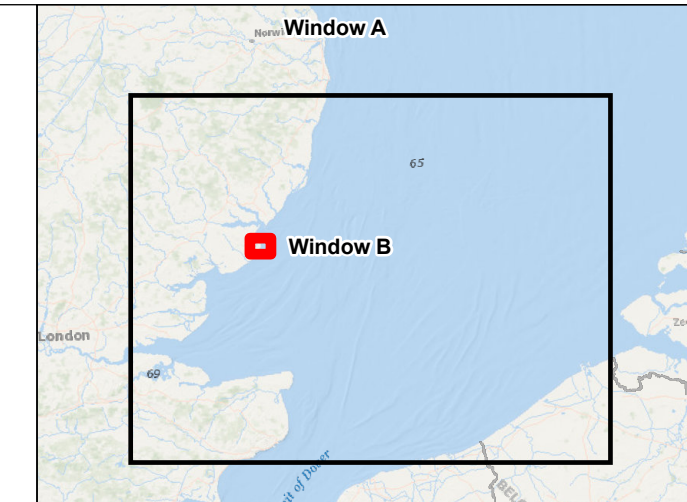
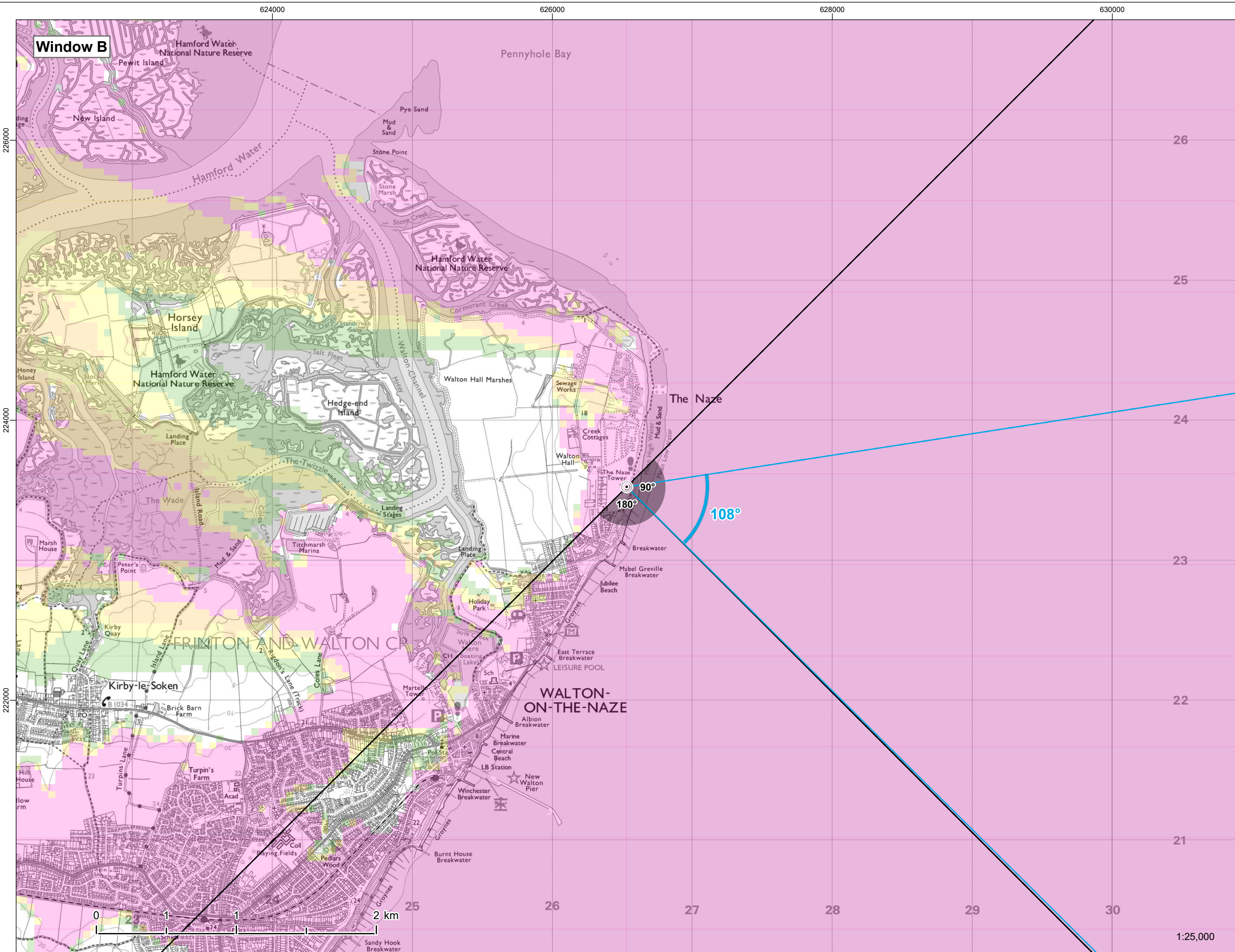
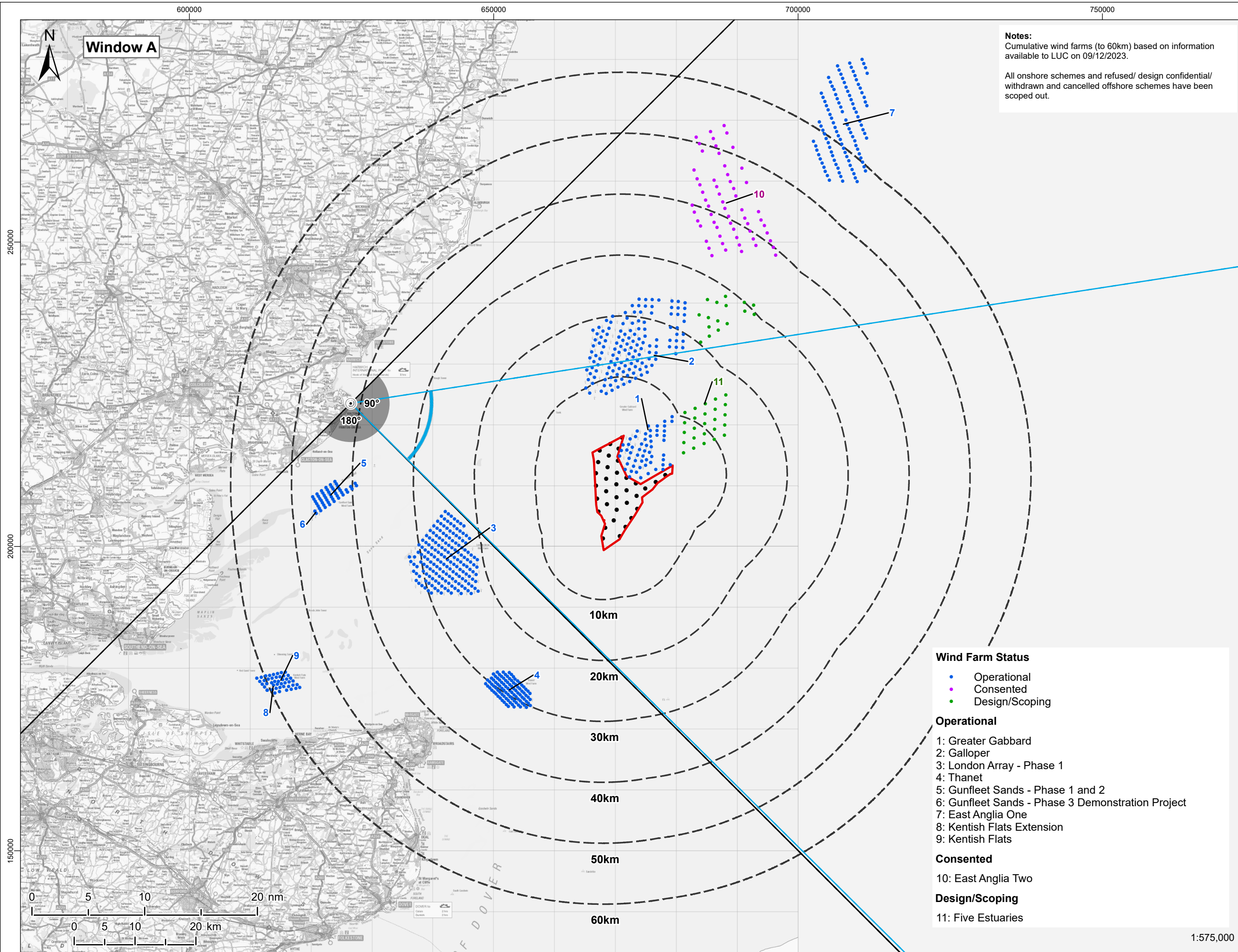
OS reference: 628580E 231878N  
AOD: 3 m  
Direction of view: 117°  
Nearest turbine: 42.04 km

Horizontal field of view: 53.5° (planar projection)  
Principal distance: 812.5 mm  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
Lens: 50mm Fixed Focal Length  
Camera height: 1.5 m

Photography Date: 22/11/2021  
Photography Time: 14:55

North Falls  
Figure: 29.2.12d  
Viewpoint 12: Landguard Fort



- Legend**
- North Falls Array Area
  - Turbine (indicative layout)
  - Turbine buffers - 10km intervals
  - Viewpoint
- Bareground ZTV to Tip (381.39m)**
- 1 - 10 Turbines visible
  - 11 - 20 Turbines visible
  - 21 - 30 Turbines visible
  - 31 - 34 Turbines visible
  - 53.5° Field of View
  - 90° Field of View

**Notes:**  
The ZTV is calculated to turbine tip height (381.39m) from a viewing height of 2m above ground level.

The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.1.0 software

Data Source: OS, LUC, RHDHV  
Basemap Sources: OS, Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

Drawing Title  
**Viewpoint 13 - Naze Tower**

| Rev | Date       | Remarks     | Drwn | Chkd |
|-----|------------|-------------|------|------|
| 01  | 13/03/2024 | First Issue | RW   | JN   |
|     |            |             |      |      |
|     |            |             |      |      |

Drawing Number  
**PB9244-LUC-ZZ-OF-DR-GS-0034**

Figure Number  
**29.2.13**

Scale  
Plot Size  
Double Width A3

Datum  
OSGB36

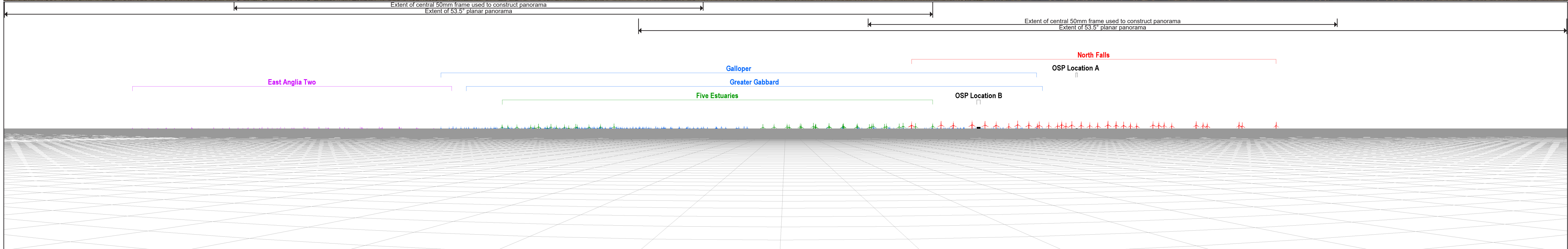
Projection  
BNG





Baseline photograph

This image provides landscape and visual context only



Extent of central 50mm frame used to construct panorama  
Extent of 53.5° planar panorama

Extent of central 50mm frame used to construct panorama  
Extent of 53.5° planar panorama

East Anglia Two

Five Estuaries

Gallopier

Greater Gabbard

OSP Location B

OSP Location A

North Falls

OS reference: 626531E 223524N  
AOD: 21 m  
Direction of view: 90°  
Nearest turbine: 41.62 km

Horizontal field of view: 90° (cylindrical projection)  
Principal distance: 522 mm  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
Lens: 50mm Fixed Focal Length  
Camera height: 1.5 m

Photography Date: 08/07/2022  
Photography Time: 18:00

Wind Farm Developments key  
(by status):

Proposed scheme  
Operational  
Consented  
Scoping

Notes: Certain cumulative offshore wind farm data has been sourced from publicly accessible locations including project scoping/ environmental report plans and from the open infrastructure website. Layouts are approximate, and any discernible slight discrepancies between cumulative wirelines and baseline photography are not sufficient to alter the reliability of the images or result in material changes.

North Falls  
Figure: 29.2.13a  
Viewpoint 13: Naze Tower

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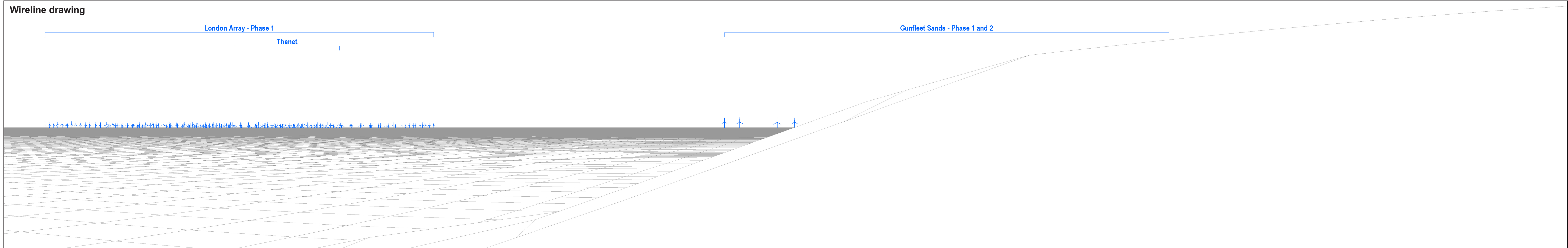






Baseline photograph

This image provides landscape and visual context only



Wireline drawing

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OS reference: 626531E 223524N  
 AOD: 21 m  
 Direction of view: 180°  
 Nearest turbine: 41.62 km

Horizontal field of view: 90° (cylindrical projection)  
 Principal distance: 522 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
 Lens: 50mm Fixed Focal Length  
 Camera height: 1.5 m

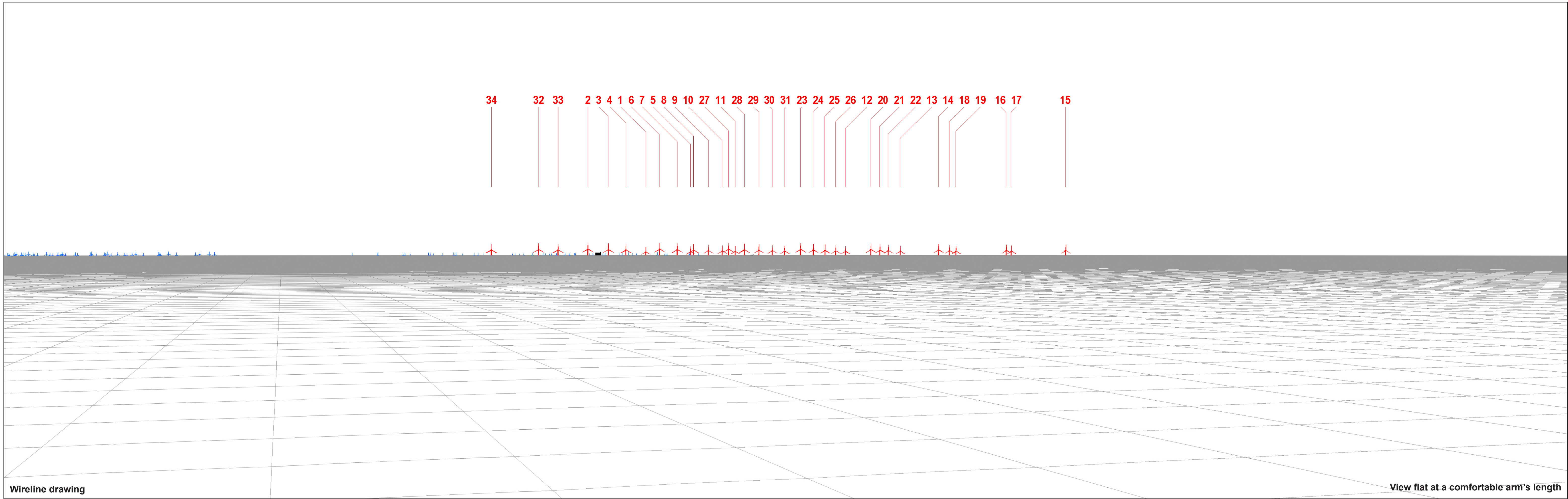
Photography Date: 08/07/2022  
 Photography Time: 18:00

Wind Farm Developments key  
 (by status):

Proposed scheme  
 Operational  
 Consented  
 Scoping

Notes: Certain cumulative offshore wind farm data has been sourced from publicly accessible locations including project scoping/ environmental report plans and from the open infrastructure website. Layouts are approximate, and any discernible slight discrepancies between cumulative wirelines and baseline photography are not sufficient to alter the reliability of the images or result in material changes.

North Falls  
**Figure: 29.2.13b**  
 Viewpoint 13: Naze Tower



Wireline drawing

View flat at a comfortable arm's length

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|                    |                 |                             |                           |
|--------------------|-----------------|-----------------------------|---------------------------|
| OS reference:      | 626531E 223524N | Horizontal field of view:   | 53.5° (planar projection) |
| AOD:               | 21 m            | Principal distance:         | 812.5 mm                  |
| Direction of view: | 108°            | Paper size:                 | 841 x 297 mm (half A1)    |
| Nearest turbine:   | 41.62 km        | Correct printed image size: | 820 x 260 mm              |

Wind Farm Developments key  
(by status):

- Proposed scheme
- Operational
- Consented
- Scoping

North Falls  
Figure: 29.2.13e  
Viewpoint 13: Naze Tower



Photomontage

View flat at a comfortable arm's length



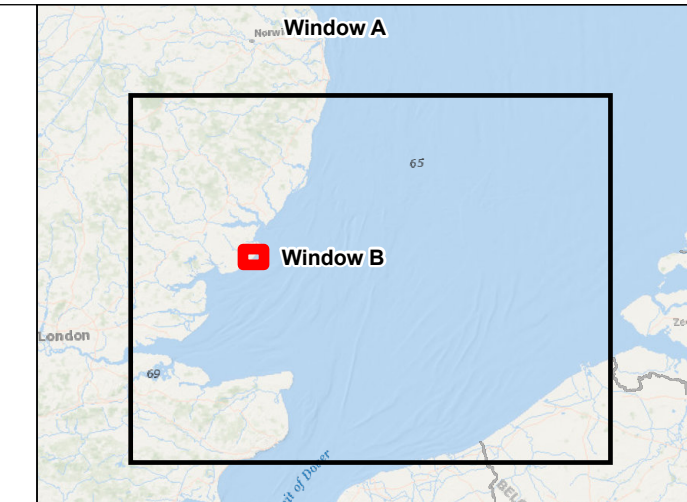
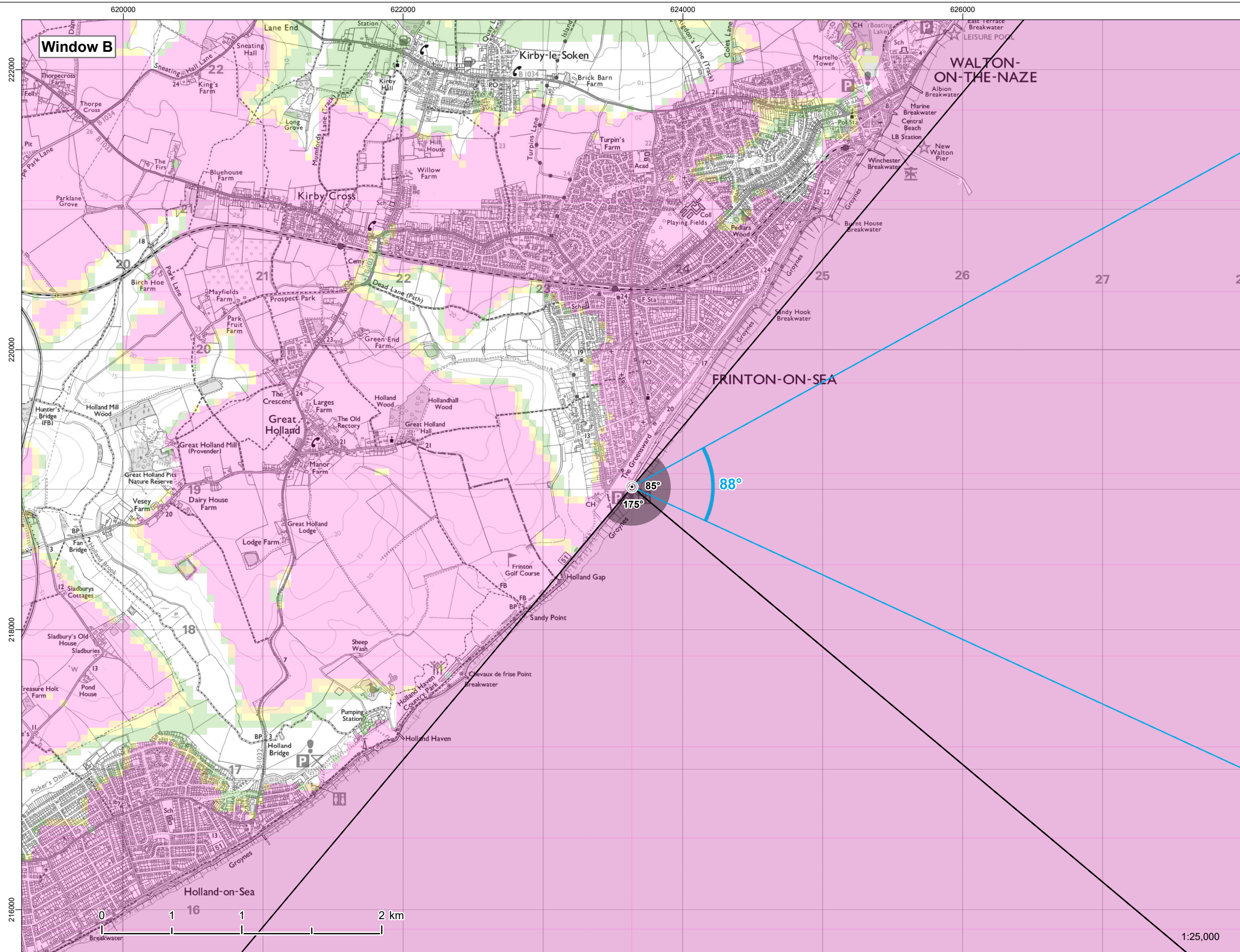
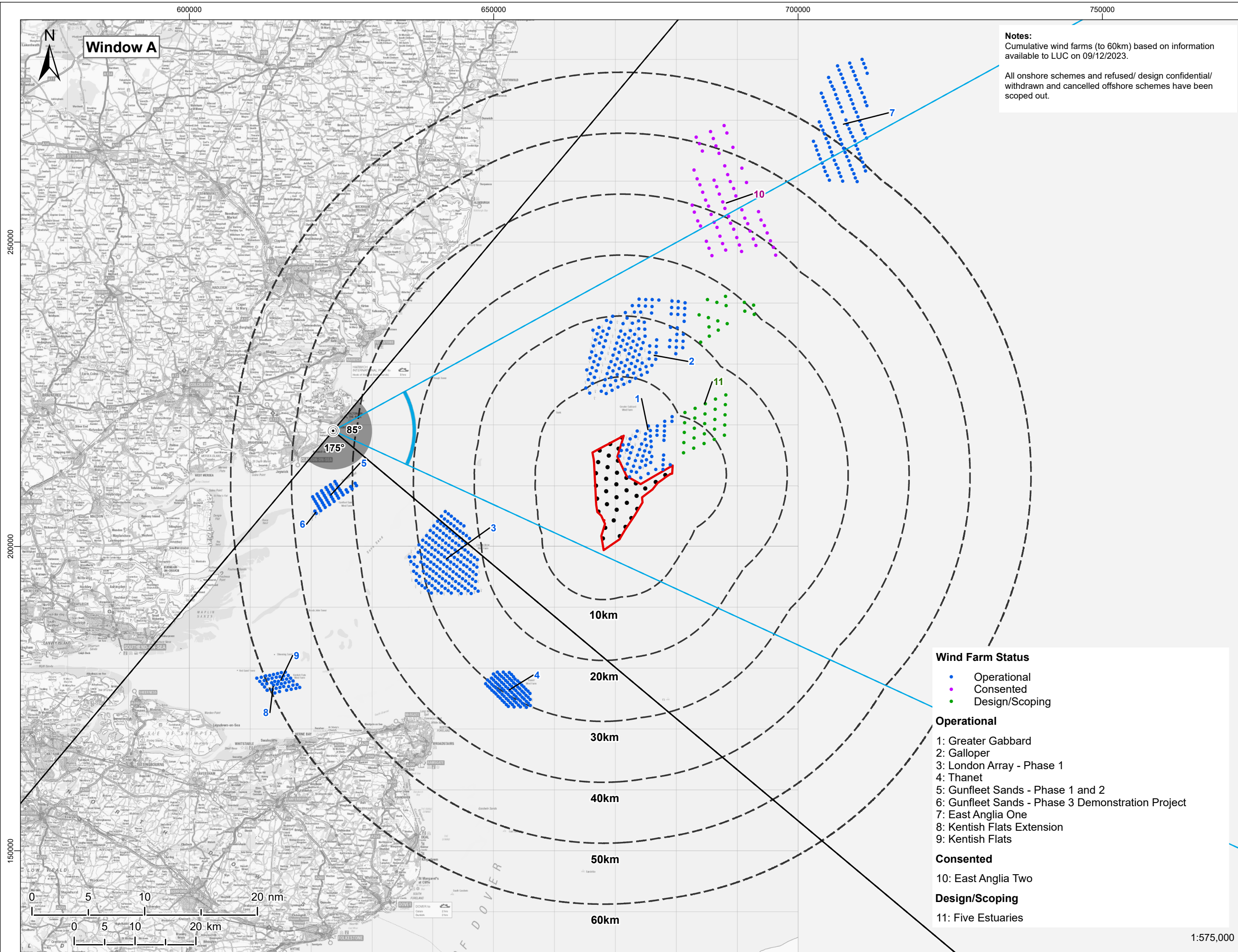
OS reference: 626531E 223524N  
AOD: 21 m  
Direction of view: 108°  
Nearest turbine: 41.62 km

Horizontal field of view: 53.5° (planar projection)  
Principal distance: 812.5 mm  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
Lens: 50mm Fixed Focal Length  
Camera height: 1.5 m

Photography Date: 08/07/2022  
Photography Time: 18:00

North Falls  
Figure: 29.2.13f  
Viewpoint 13: Naze Tower



**Notes:**  
The ZTV is calculated to turbine tip height (381.39m) from a viewing height of 2m above ground level.  
The terrain model assumes bare ground and is derived from OS Terrain 50 height data (obtained from Ordnance Survey in 2022). Earth curvature and atmospheric refraction have been taken into account. The ZTV was calculated using ArcGIS Pro 3.1.0 software.

Data Source: OS, LUC, RHDHV  
Basemap Sources: OS, Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors

Drawing Title

**Viewpoint 14 - Frinton on Sea**

| Rev | Date       | Remarks     | Drwn | Chkd |
|-----|------------|-------------|------|------|
| 01  | 13/03/2024 | First Issue | RW   | JN   |
|     |            |             |      |      |
|     |            |             |      |      |

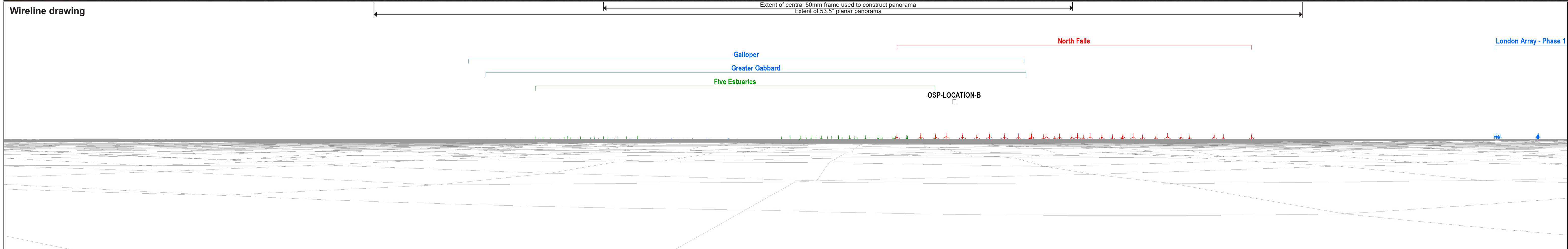
Drawing Number: **PB9244-LUC-ZZ-OF-DR-GS-0035**

Figure Number: **29.2.14**

Scale: Plot Size Double Width A3, Datum OSGB36, Projection BNG

**LUC**

**NORTH FALLS**  
Offshore Wind Farm



OS reference: 623636E 219020N  
 AOD: 2 m  
 Direction of view: 85°  
 Nearest turbine: 43.75 km

Horizontal field of view: 90° (cylindrical projection)  
 Principal distance: 522 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
 Lens: 50mm Fixed Focal Length  
 Camera height: 1.5 m

Photography Date: 08/07/2022  
 Photography Time: 20:40

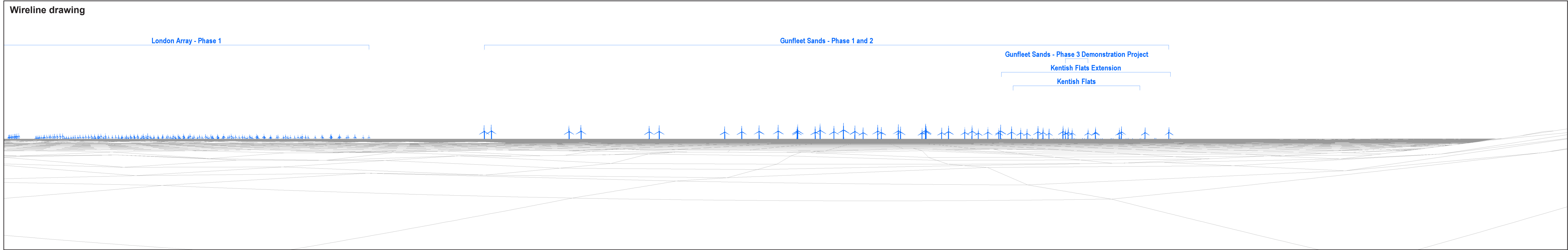
Wind Farm Developments key  
 (by status):

Proposed scheme  
 Operational  
 Consented  
 Scoping

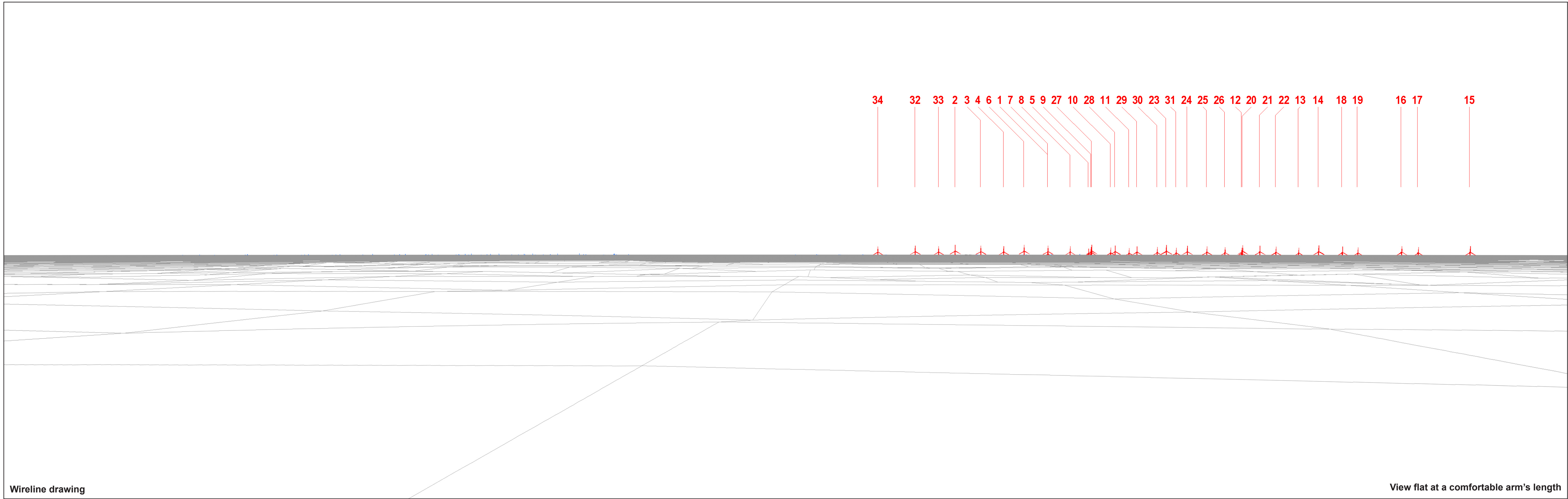
Notes: Certain cumulative offshore wind farm data has been sourced from publicly accessible locations including project scoping/ environmental report plans and from the open infrastructure website. Layouts are approximate, and any discernible slight discrepancies between cumulative wirelines and baseline photography are not sufficient to alter the reliability of the images or result in material changes.

North Falls  
**Figure: 29.2.14a**  
 Viewpoint 14: Frinton on Sea

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Wireline drawing

View flat at a comfortable arm's length



OS reference: 623636E 219020N  
 AOD: 2 m  
 Direction of view: 88°  
 Nearest turbine: 43.75 km

Horizontal field of view: 53.5° (planar projection)  
 Principal distance: 812.5 mm  
 Paper size: 841 x 297 mm (half A1)  
 Correct printed image size: 820 x 260 mm

Wind Farm Developments key  
 (by status):

- Proposed scheme
- Operational
- Consented
- Scoping

North Falls  
 Figure: 29.2.14c  
 Viewpoint 14: Frinton on Sea



Photomontage

View flat at a comfortable arm's length



OS reference: 623636E 219020N  
AOD: 2 m  
Direction of view: 88°  
Nearest turbine: 43.75 km

Horizontal field of view: 53.5° (planar projection)  
Principal distance: 812.5 mm  
Paper size: 841 x 297 mm (half A1)  
Correct printed image size: 820 x 260 mm

Camera: NIKON D750  
Lens: 50mm Fixed Focal Length  
Camera height: 1.5 m

Photography Date: 08/07/2022  
Photography Time: 20:40

North Falls  
Figure: 29.2.14d  
Viewpoint 14: Frinton on Sea





**NORTH FALLS**

*Offshore Wind Farm*



## **HARNESSING THE POWER OF NORTH SEA WIND**

*North Falls Offshore Wind Farm Limited*

*A joint venture company owned equally by SSE Renewables and RWE.*

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