



Code: UKCAL-CWF-CON-EIA-RPT-00007-7D07

Volume 7D Caledonia South Appendices

Appendix 12-3 Seascape, Landscape and Visual Impact Assessment Visualisations
(Part 1)

Caledonia Offshore Wind Farm Ltd

5th Floor Atria One, 144 Morrison Street, Edinburgh, EH3 8EX

Volume 7D Appendix 12-3 Seascape, Landscape and Visual Impact Assessment Visualisations (Part 1)

Code	UKCAL-CWF-CON-EIA-RPT-00007-7D07
Revision	Issued
Date	18 October 2024

List of Figures

Viewpoint locations are presented in Volume 7D, Appendix 12-2: Seascape, Landscape and Visual Impact Assessment Figures.

Figure 12–1: Viewpoint 1: Burwick Ferry Landing (not included).

Figure 12–2: Viewpoint 2: Dunnet Head (not included).

Figure 12–3: Viewpoint 3: Duncansby Head.

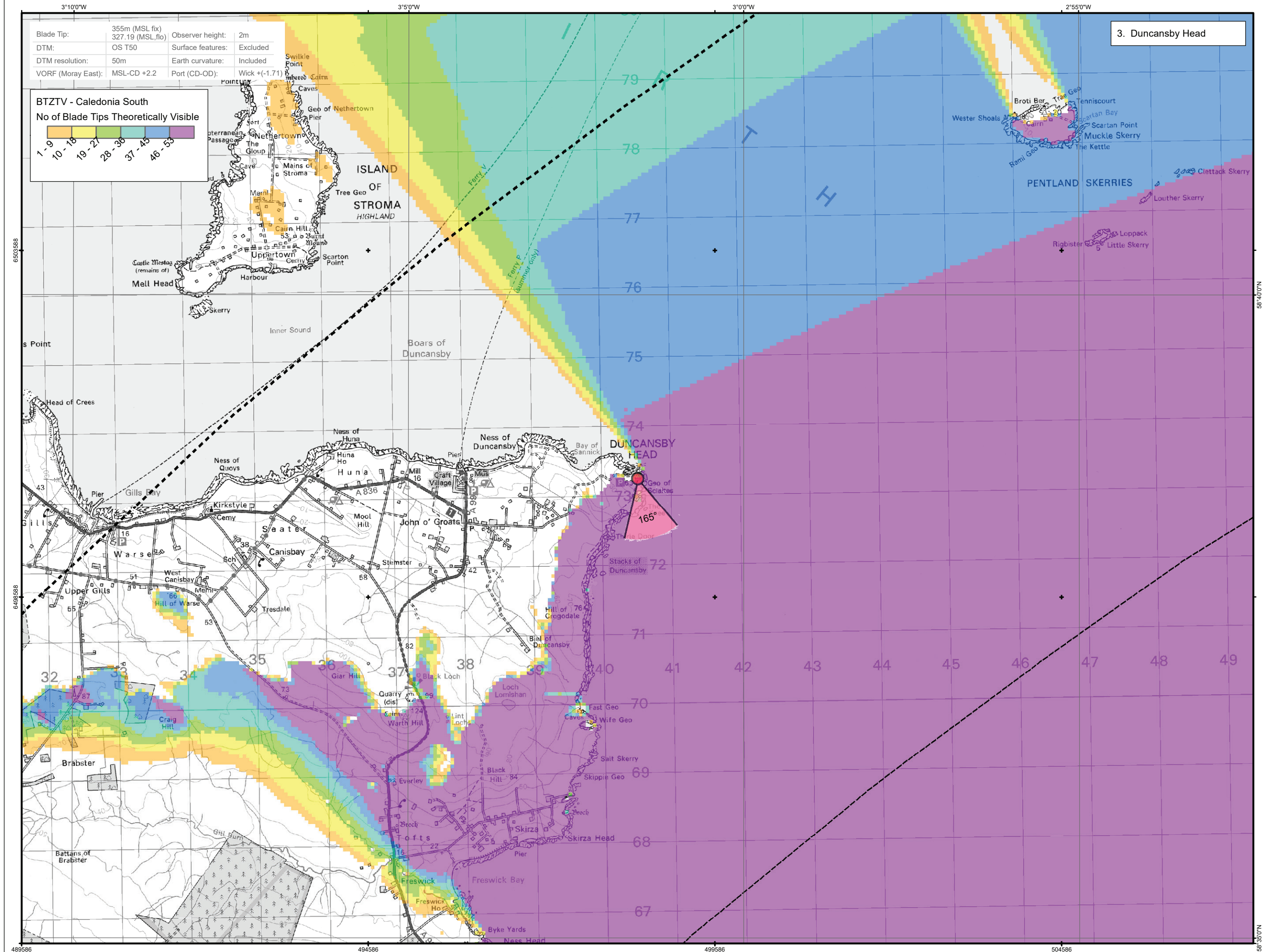
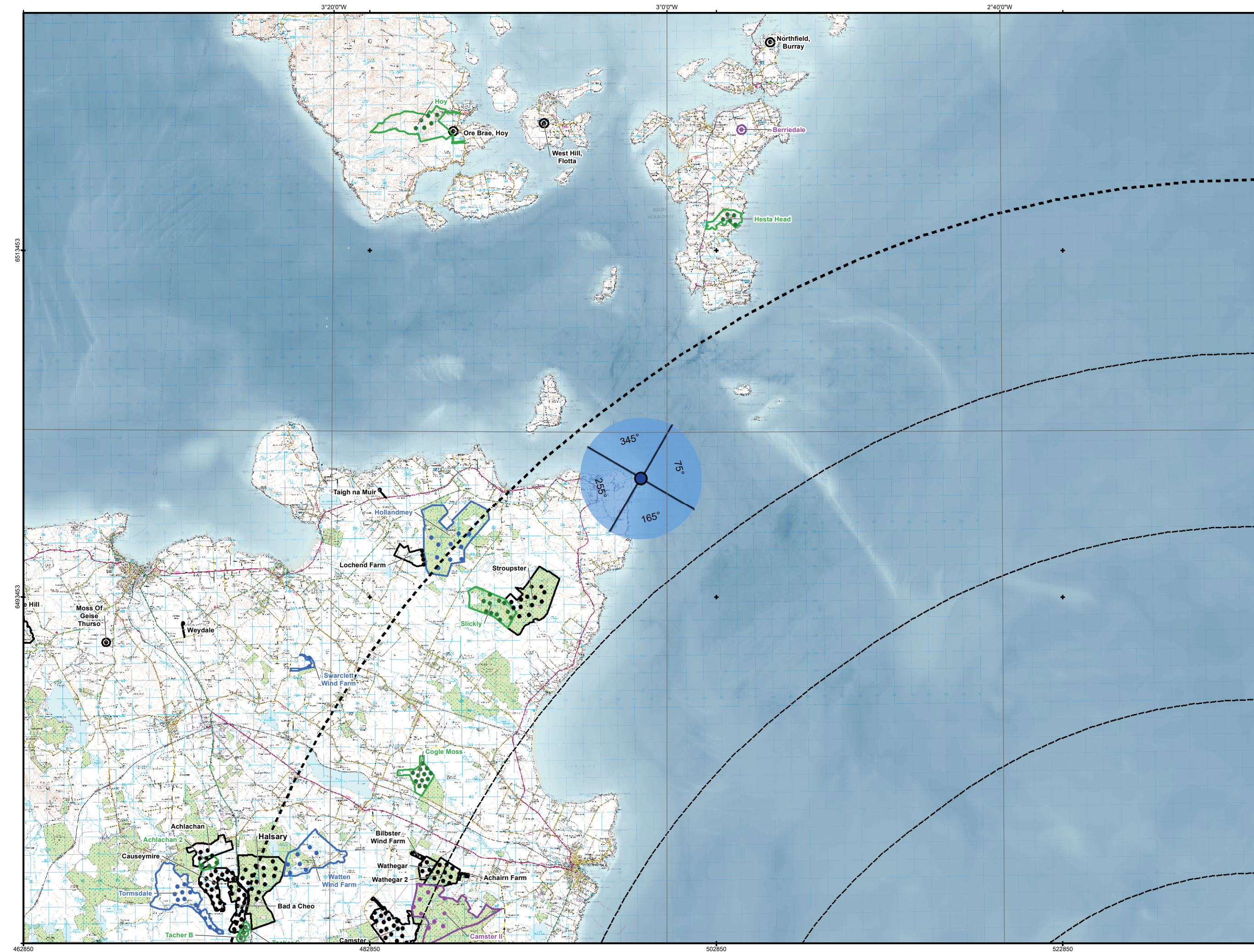
Figure 12–4: Viewpoint 4: Keiss.

Figure 12–5: Viewpoint 5: Wick (path south of South View).

Figure 12–6: Viewpoint 6: Sarclet (Sarclet Haven Info Board).

Acronyms and Abbreviations

BTZTV	Blade Tip Zone of Theoretical Visibility
OSP	Offshore Substation Platform



90° Field of View
53.5° Field of View

Caledonia South Fixed/Floating

- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- OSP's
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area

Cumulative Windfarms Status:

- Operational
- Under Construction
- Consented
- Appeal / Application
- Operational
- Under Construction
- Consented
- Appeal / Application

BTZTV - Caledonia South
 No of Blade Tips Theoretically Visible

1-9 10-18 19-21 22-26 27-35 36-53

3. Duncansby Head

Legend:

- 90° Field of View
- 53.5° Field of View
- Caledonia South Fixed/Floating
- Fixed (24 x 25MW)
- Floating (29 x 20MW)
- OSP's
- Caledonia South
- Caledonia North
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Cumulative Windfarms Status: Operational, Under Construction, Consented, Appeal / Application

Map Details:

SEMOdel Bathymetry Consortium (2022). EMODnet Digital Bathymetry (DTM).
 © Crown copyright and database rights (2024) Ordnance Survey 0100031673.
 Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA
 Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Gononames.org, and other contributors
 © Caledonia Offshore Wind Farm Ltd © 2024 This document is the property of contractors and sub-contractors and shall not be reproduced or transmitted without prior written approval.

Map Scale: 0 2 4 6 8 10 km
 0 0.5 1 1.5 2 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

CALEDONIA
 Offshore Wind Farm

open
 optimised environments
 PART OF SLR

CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00135
CONTRACTOR REV: 03

GEOIDETIC PARAMETERS:
 WGS 1984 UTM Zone 30N (EPSG:32630)

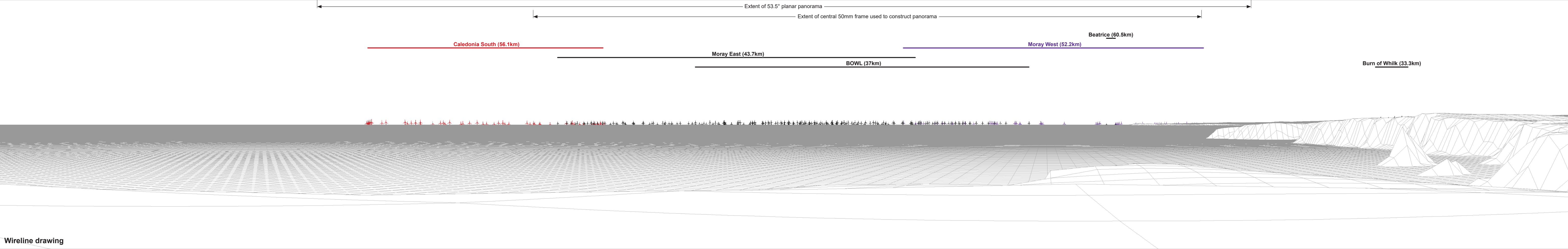
DRAWING TITLE:
 Figure 12-3a - Viewpoint Plan
 3. Duncansby Head

Caledonia South

STATUS: Approved
DRAWING NUMBER: N/A

SCALE: 1:200,000
1:50,000

SHEET NO: 03 of 22
REV: N/A

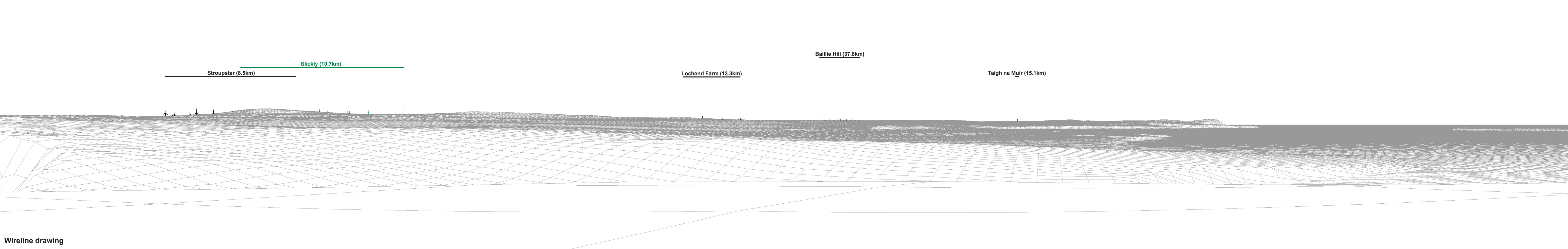


OS reference:	340522 E 973247 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.3b
Eye level:	63.8 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	Viewpoint 3: Duncansby Head
Direction of view:	165°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	Caledonia South
Nearest turbine:	56.06 km	Correct printed image size:	820 x 130 mm	Date and time:	16.10.2023 13:40	© Crown copyright, All rights reserved (2023). Licence number 0100031673



Baseline photograph

This image provides landscape and visual context only



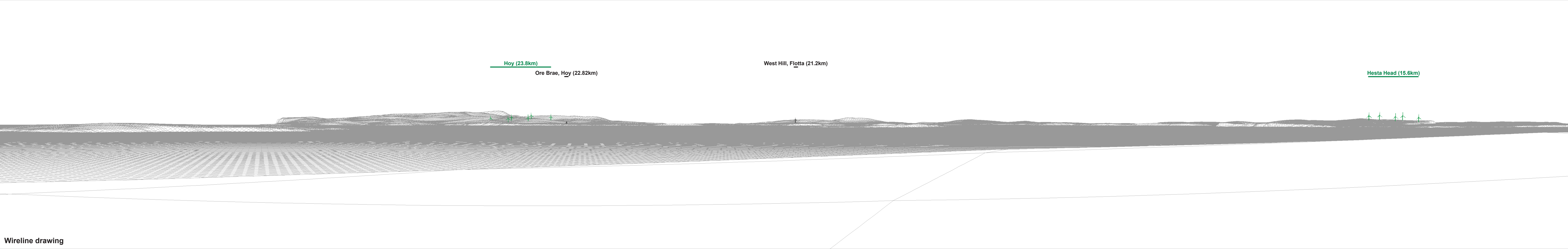
Wireline drawing

OS reference:	340522 E 973247 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.3c
Eye level:	63.8 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	Viewpoint 3: Duncansby Head
Direction of view:	255°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	Caledonia South
Nearest turbine:	56.06 km	Correct printed image size:	820 x 130 mm	Date and time:	16.10.2023 13:40	



Baseline photograph

This image provides landscape and visual context only



Wireline drawing

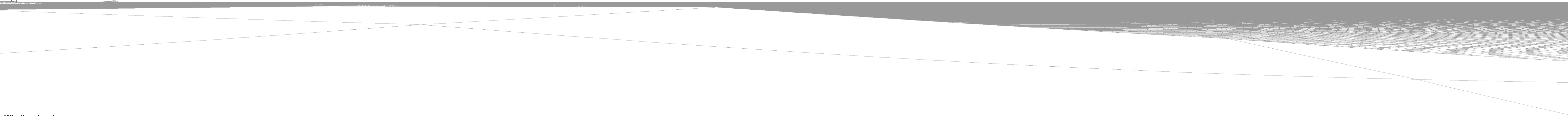
OS reference: Eye level: Direction of view: Nearest turbine:	340522 E 973247 N 63.8 mAOD 345° 56.06 km	Horizontal field of view: Principal distance: Paper size: Correct printed image size:	90° (cylindrical projection) 522 mm 841 x 297 mm (half A1) 820 x 130 mm	Camera: Lens: Camera height: Date and time:	Canon EOS 5D Mark II Canon EF 50mm f/1.4 1.5 m 16.10.2023 13:40	Figure: 12.3d Viewpoint 3: Duncansby Head Caledonia South



Baseline photograph

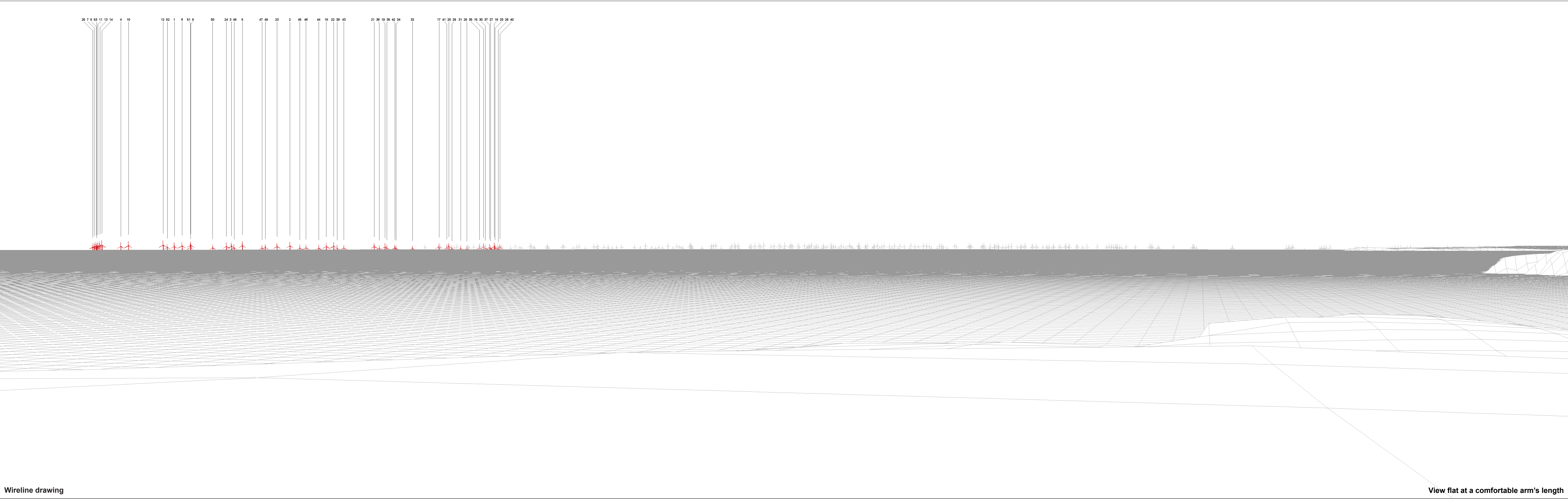
This image provides landscape and visual context only

Barnes of Ayre (35.7km)



Wireline drawing

OS reference:	340522 E 973247 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.3e
Eye level:	63.8 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	Viewpoint 3: Duncansby Head
Direction of view:	75°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	Caledonia South
Nearest turbine:	56.06 km	Correct printed image size:	820 x 130 mm	Date and time:	16.10.2023 13:40	





Baseline photograph.

View flat at a comfortable arm's length

OS reference:	340522 E 973247 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	63.8 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4
Direction of view:	165°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	56.06 km	Correct printed image size:	820 x 260 mm	Date and time:	16.10.2023 13:40

Operational and Under Construction offshore wind farms have been photomontaged in this view.

Figure: 12.3g
Viewpoint 3: Duncansby Head
Caledonia South



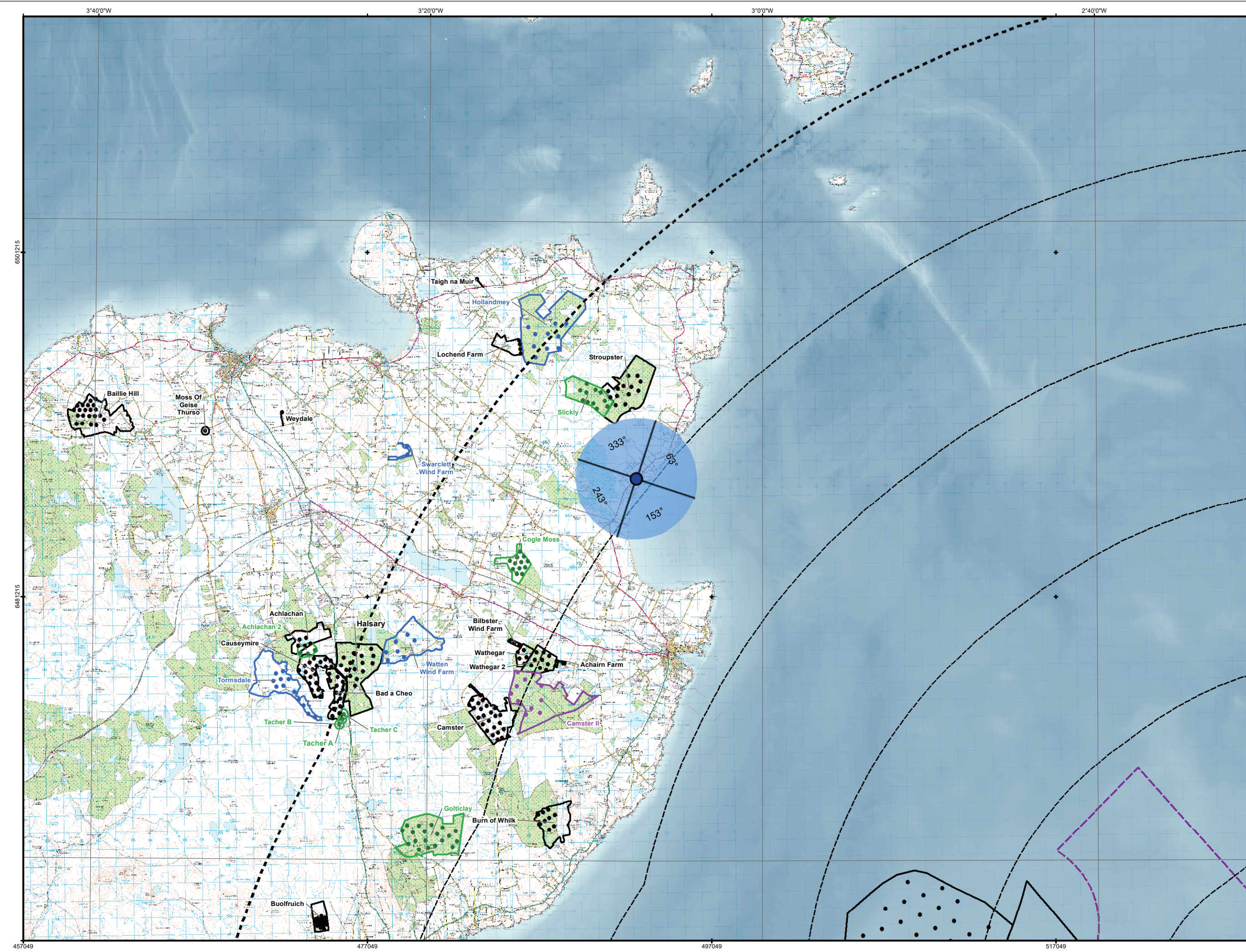
Photomontage: Proposed Development.

View flat at a comfortable arm's length

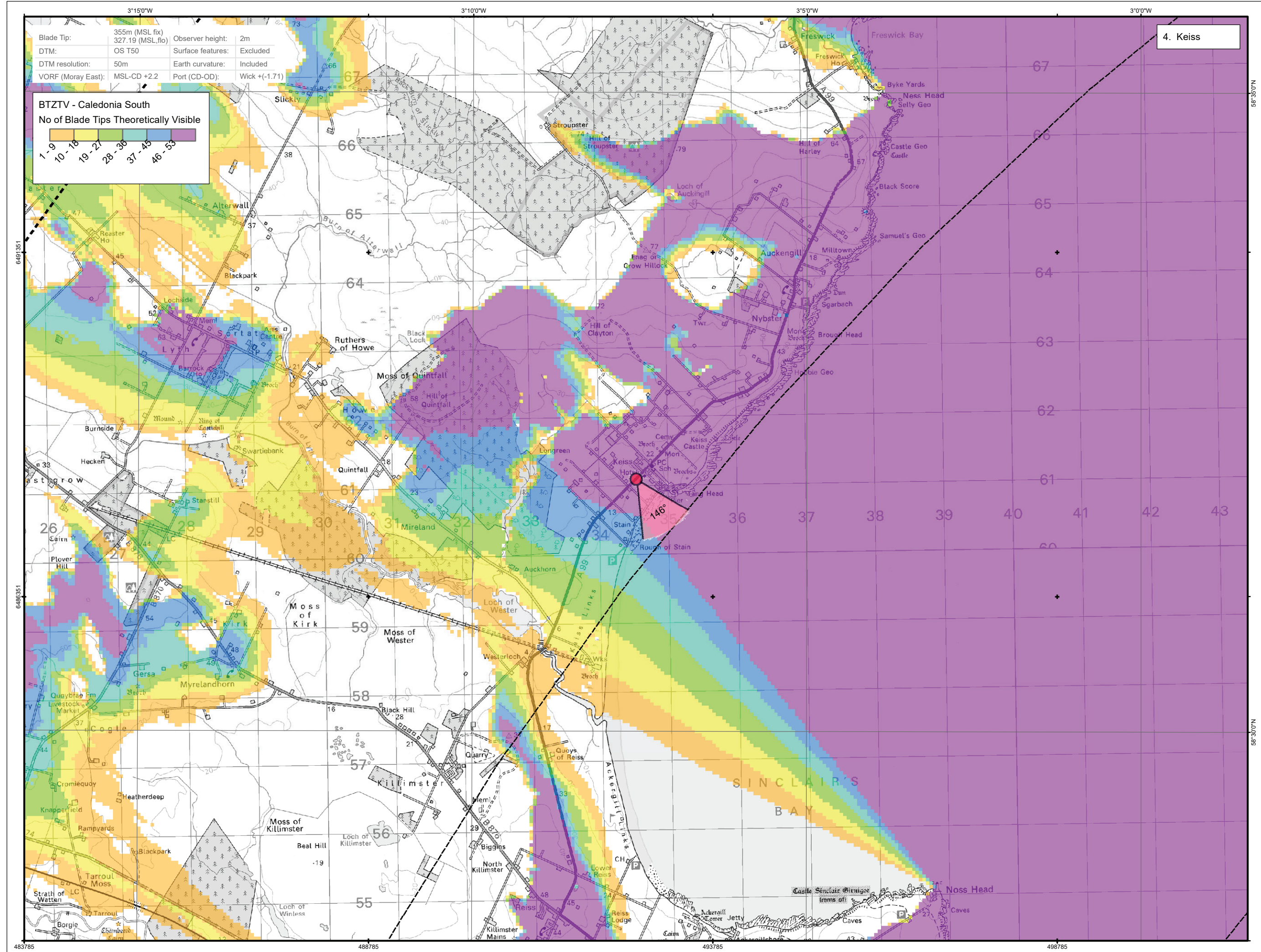
OS reference:	340522 E 973247 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	63.8 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4
Direction of view:	165°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	56.06 km	Correct printed image size:	820 x 260 mm	Date and time:	16.10.2023 13:40

Operational and Under Construction offshore wind farms have been photomontaged in this view.

Figure: 12.3h
Viewpoint 3: Duncansby Head
Caledonia South



Viewpoint Location Plan Baseline Panorama (90° View)
Scale: 1:200,000



Viewpoint Location Plan (53.5° View)
Scale: 1:50,000

90°Field of View

53.5°Field of View

Caledonia South Fixed/Floating

Fixed (24 x 25MW)

Floating (29 x 20MW)

OSP's

Caledonia South

Caledonia North

Offshore and Onshore Export Cable Corridor

10km Radii

60km Study Area

Cumulative Windfarms Status:

Operational

Under Construction

Consented

Appeal / Application

Operational

Under Construction

Consented

Appeal / Application

EMODnet Bathymetry Consortium (2022). EMODnet Digital Bathymetry (DTM). © Crown copyright and database rights (2024) Ordnance Survey 0100031671. Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA. Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors. © Caledonia Offshore Wind Farm Ltd © 2024 This document is the property of contractors and sub-contractors and shall not be reproduced nor transmitted without prior written approval.

0 2 4 6 8 10 km

0 0.5 1 1.5 2 km

03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT
REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP

CALEDONIA

Offshore Wind Farm

open

optimised environments

PART OF

SLR

CONTRACTOR DRAWING NO
UKCAL1_OPN_WNF_ENV_SLV_MAP_00136

CONTRACTOR REV
03

GEODETIC PARAMETERS
WGS 1984 UTM Zone 30N (EPSG:32630)

DRAWING TITLE
Figure 12-4a - Viewpoint Plan
4. Keiss

Caledonia South

Approved

SCALE
1:200,000
1:50,000

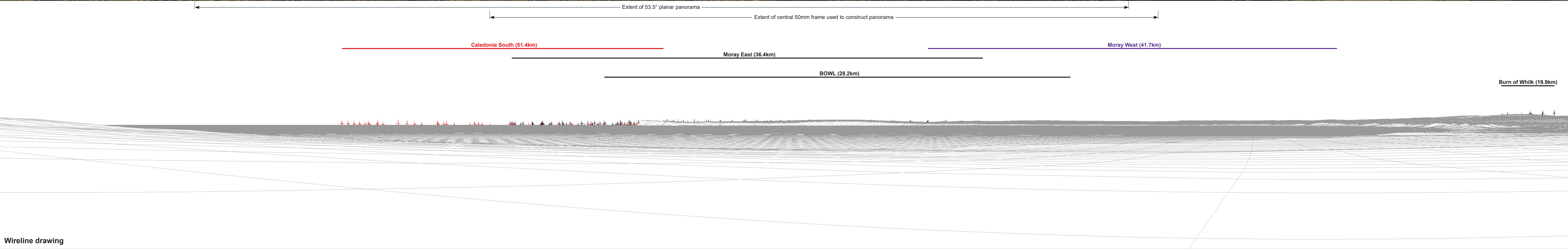
SHEET NO
04 of 22

REV
N/A



Baseline photograph

This image provides landscape and visual context only



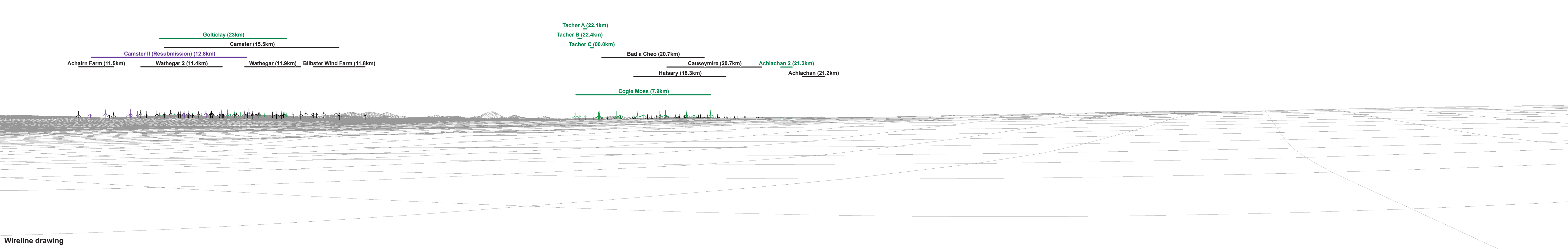
Wireline drawing

OS reference:	334539 E 961097 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.4b
Eye level:	15.4 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	Viewpoint 4: Keiss
Direction of view:	153°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	Caledonia South
Nearest turbine:	51.45 km	Correct printed image size:	820 x 130 mm	Date and time:	17.10.2023 15:03	

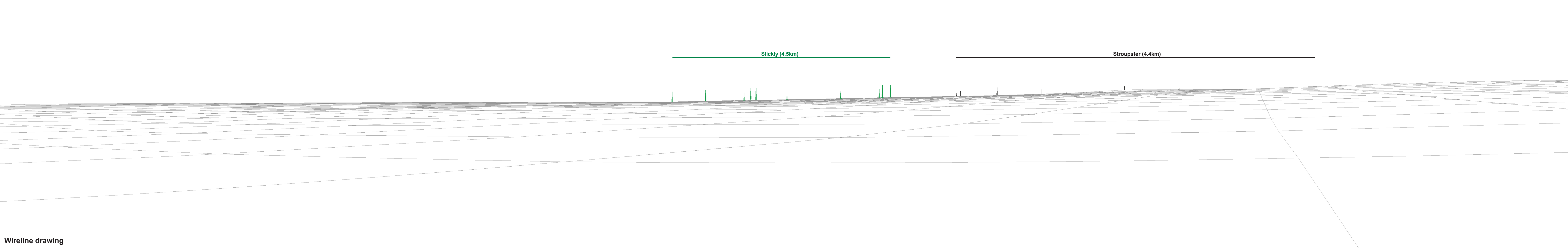


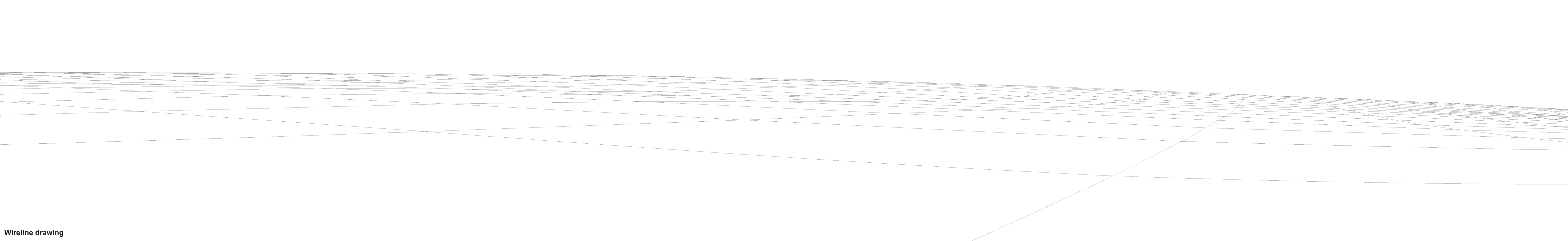
Baseline photograph

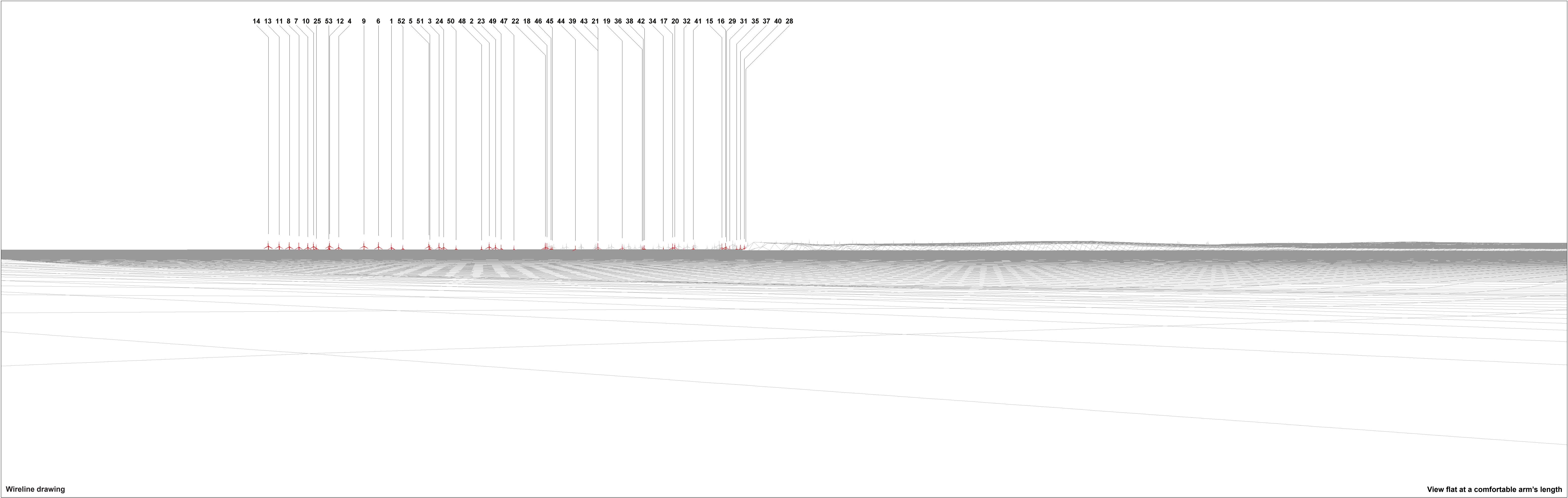
This image provides landscape and visual context only



Wireline drawing





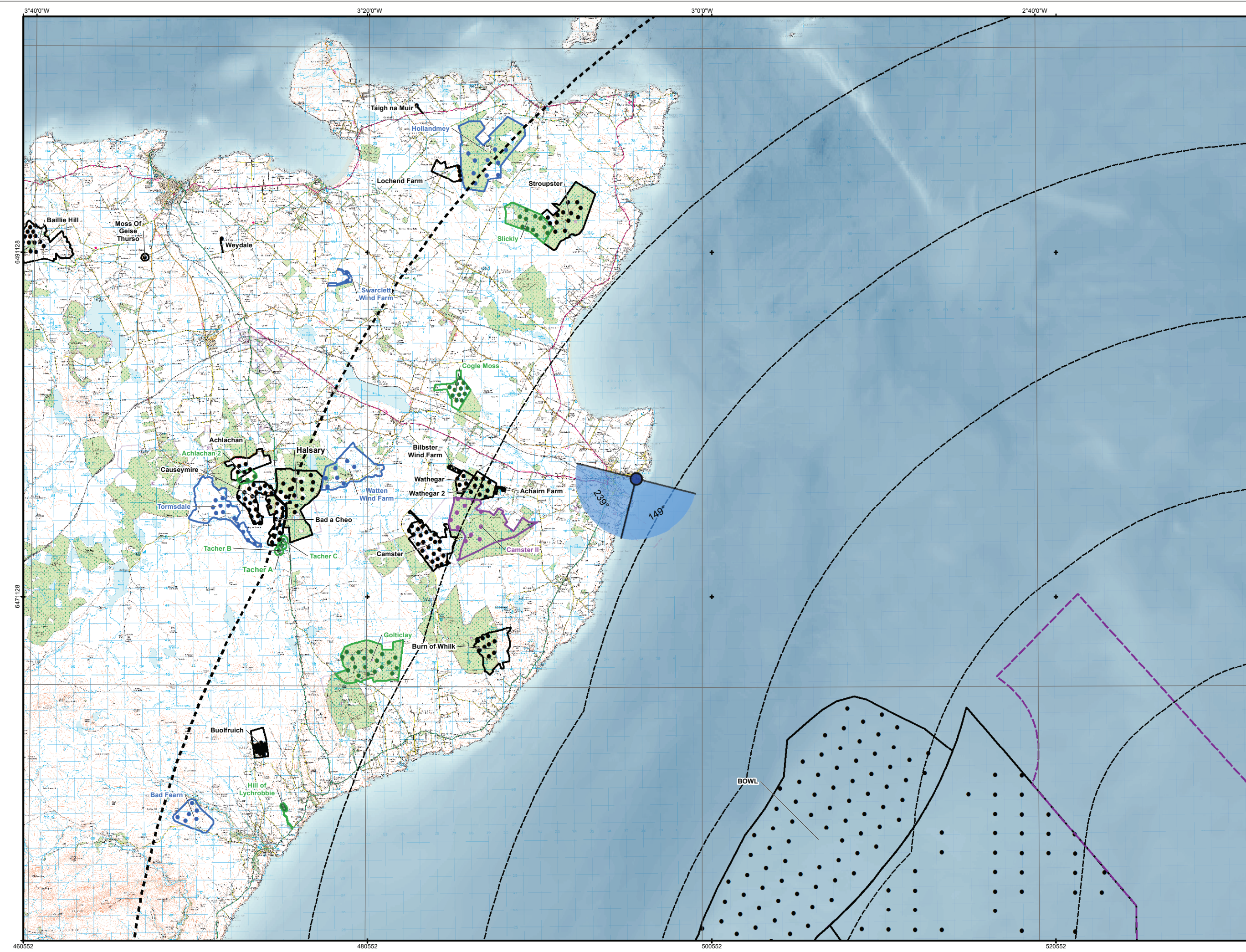


Wireline drawing

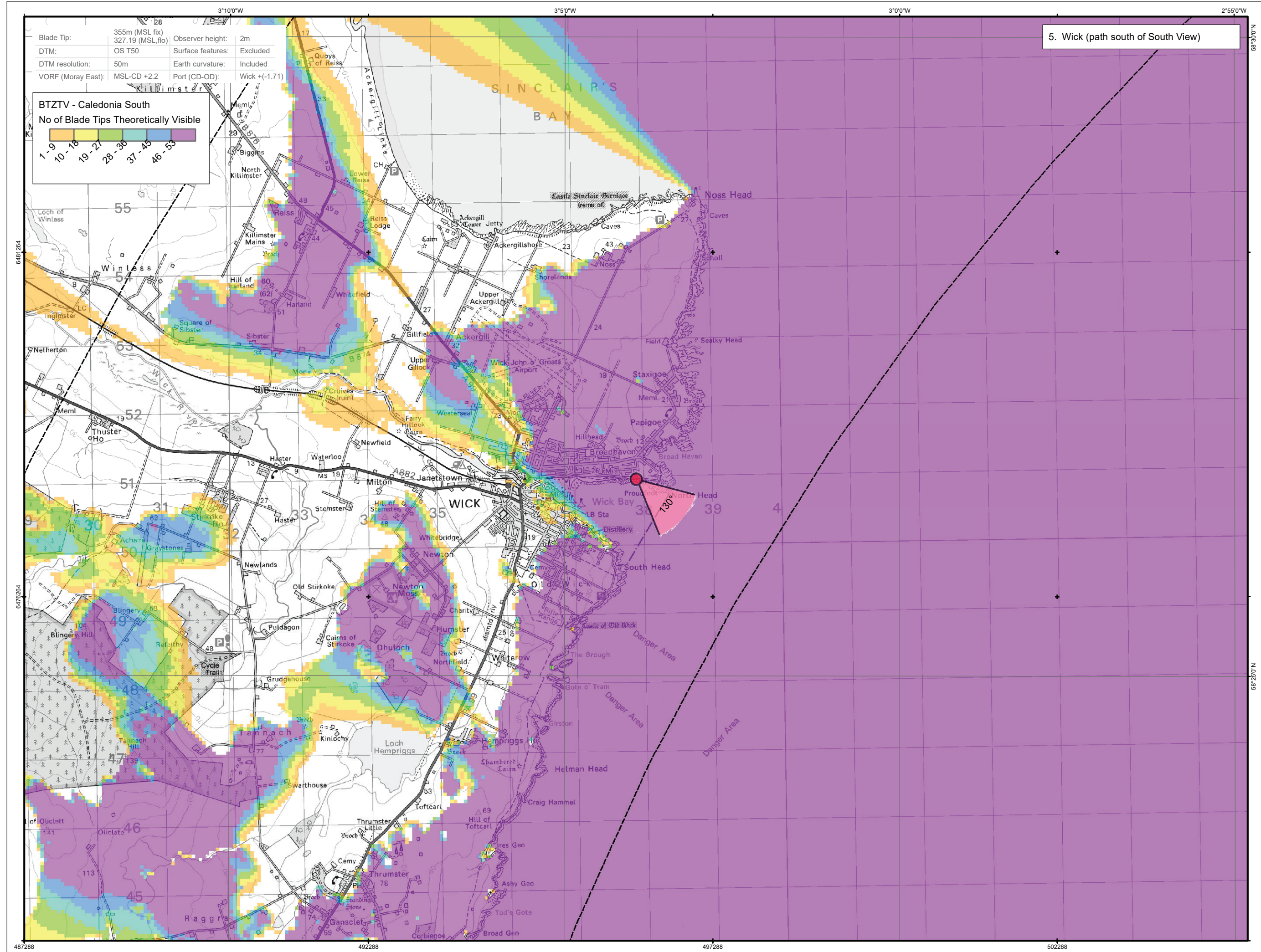
View flat at a comfortable arm's length







Viewpoint Location Plan Baseline Panorama (90° View)
Scale: 1:200,000



Viewpoint Location Plan (53.5° View)
Scale: 1:50,000

90°Field of View

53.5°Field of View

Caledonia South Fixed/Floating

Fixed (24 x 25MW)

Floating (29 x 20MW)

OSP

Caledonia South

Caledonia North

Offshore and Onshore Export Cable Corridor

10km Radii

60km Study Area

Cumulative Windfarms Status:

Operational

Under Construction

Consented

Appeal / Application

Operational

Under Construction

Consented

Appeal / Application

SEMODnet Bathymetry Consortium (2022). EMODnet Digital Bathymetry (DTM).
© Crown copyright and database rights (2024) Ordnance Survey 0100031673.
Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA.
Sources: ESR, GEBCO, NGA, National Geographic, Garmin, HERE, Geonames.org, and other contributors.
© Caledonia Offshore Wind Farm Ltd © 2024 This document is the property of contractors and sub-contractors and shall not be reproduced nor transmitted without prior written approval.

0 2 4 6 8 10 km

0 0.5 1 1.5 2 km

03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT
REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP

CALEDONIA

Offshore Wind Farm

open

optimised environments

PART OF SLR

CONTRACTOR DRAWING NO
UKCAL1_OPN_WNF_ENV_SLV_MAP_00137

CONTRACTOR REV
03

GEODETIC PARAMETERS
WGS 1984 UTM Zone 30N (EPSG:32630)

DRAWING TITLE
Figure 12-5a - Viewpoint Plan
5. Wick (path south of South View)

Caledonia South

Approved

SCALE
1:200,000
1:50,000

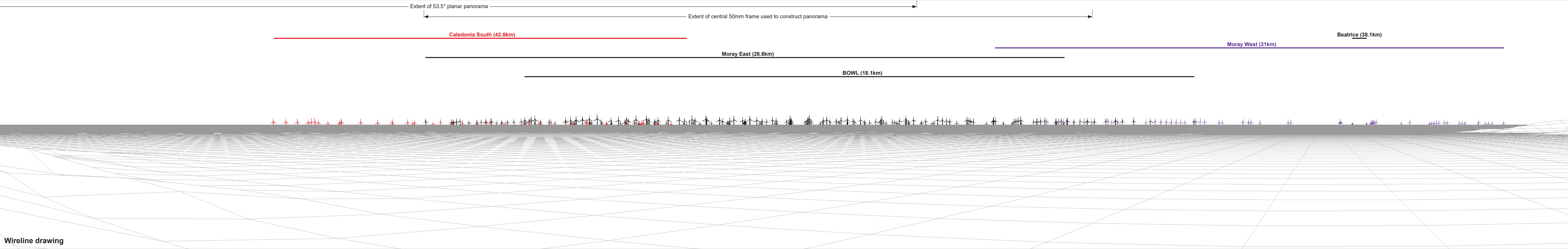
SHEET NO
05 of 22

REV
N/A



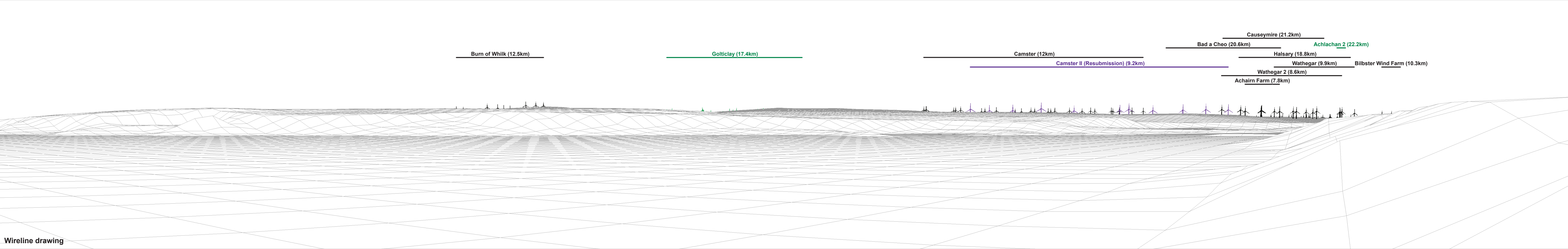
Baseline photograph

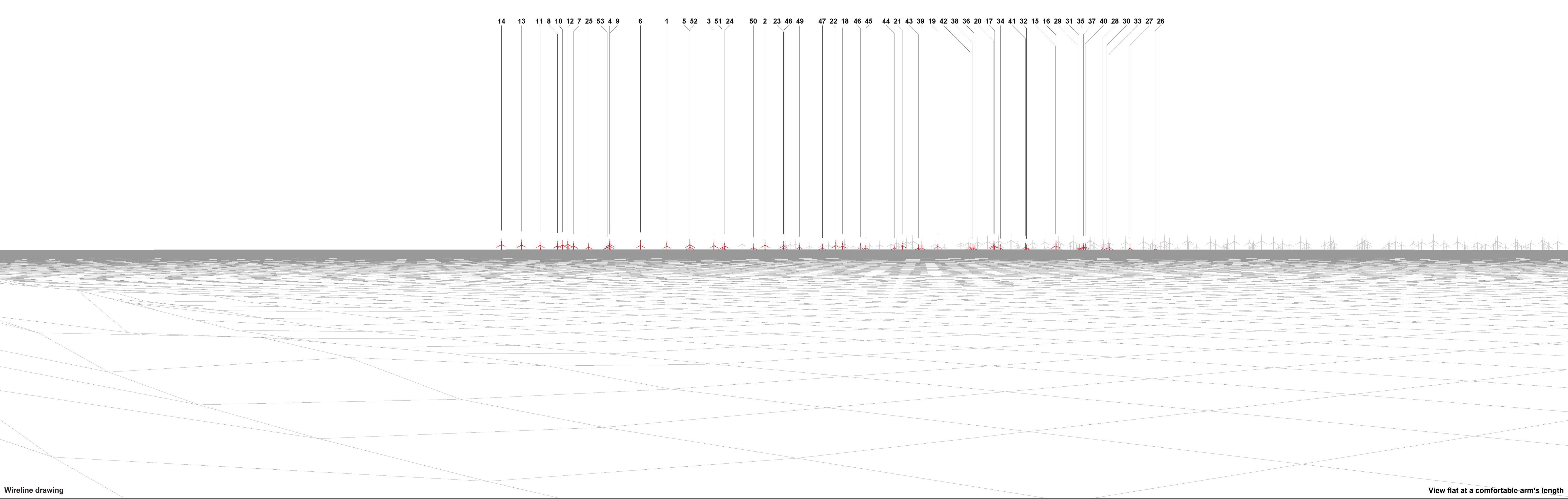
This image provides landscape and visual context only



Wireline drawing

OS reference:	337892 E 950958 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.5b
Eye level:	12.1 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	Viewpoint 5: Wick (path south of South View)
Direction of view:	149°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	Caledonia South
Nearest turbine:	42.77 km	Correct printed image size:	820 x 130 mm	Date and time:	16.10.2023 14:52	© Crown copyright, All rights reserved (2023). Licence number 0100031673







Baseline photograph.

View flat at a comfortable arm's length

OS reference:	337892 E 950958 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II	Operational and Under Construction offshore wind farms have been photomontaged in this view.	Figure: 12.5e Viewpoint 5: Wick (path south of South View) Caledonia South
Eye level:	12.1 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4		
Direction of view:	130°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m		
Nearest turbine:	42.77 km	Correct printed image size:	820 x 260 mm	Date and time:	16.10.2023 14:52		

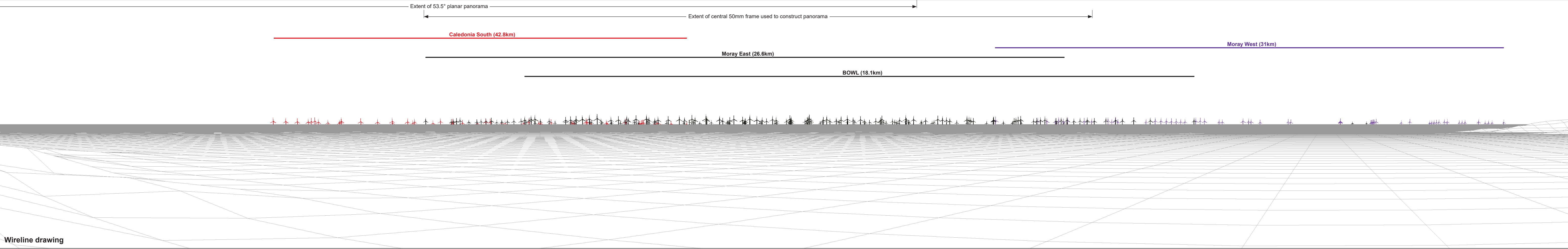
© Crown copyright. All rights reserved (2023). Licence number 0100031673



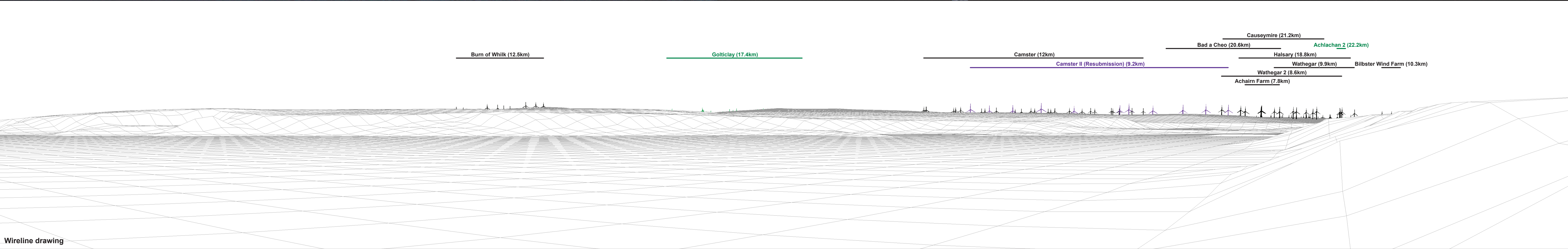
Photomontage: Proposed Development.

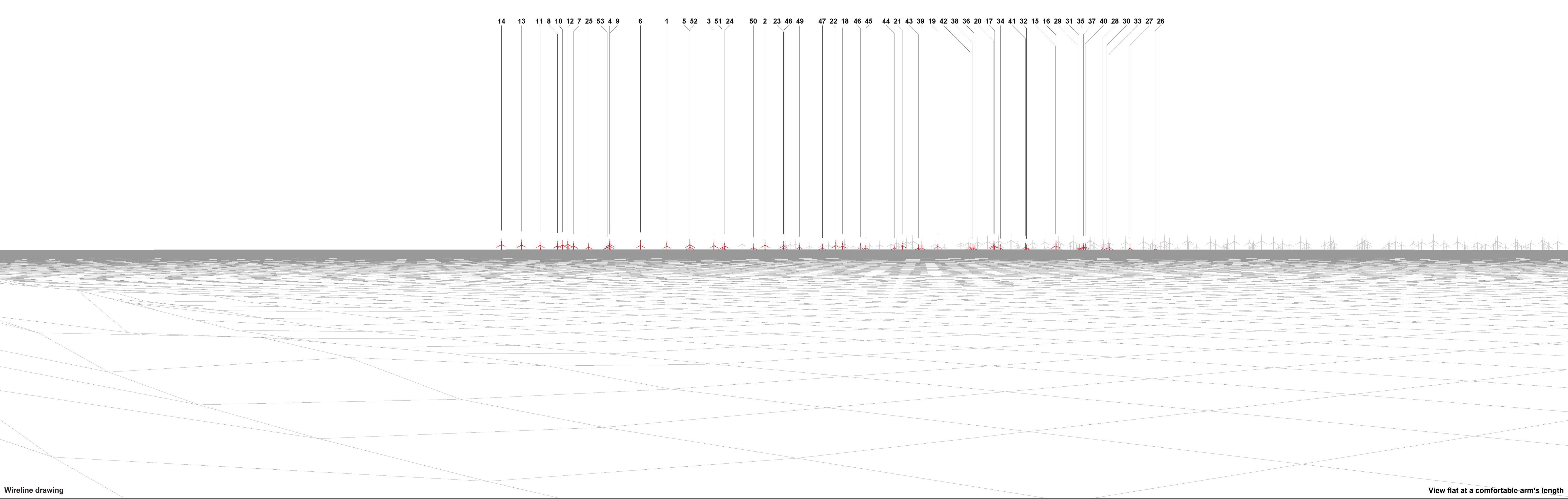
View flat at a comfortable arm's length

OS reference:	337892 E 950958 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II	Operational and Under Construction offshore wind farms have been photomontaged in this view.	Figure: 12.5f Viewpoint 5: Wick (path south of South View) Caledonia South
Eye level:	12.1 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4		
Direction of view:	130°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m		
Nearest turbine:	42.77 km	Correct printed image size:	820 x 260 mm	Date and time:	16.10.2023 14:52		



OS reference: 337892 E 950958 N	Horizontal field of view: 90° (cylindrical projection)	Camera: Canon EOS 5D Mark II	Figure: 12.5g Viewpoint 5: Wick (path south of South View) Caledonia South <small>© Crown copyright, All rights reserved (2023). Licence number 0100031673</small>
Eye level: 12.1 mAOD	Principal distance: 522 mm	Lens: Canon EF 50mm f/1.4	
Direction of view: 149°	Paper size: 841 x 297 mm (half A1)	Camera height: 1.5 m	
Nearest turbine: 42.77 km	Correct printed image size: 820 x 130 mm	Date and time: 16.10.2023 18:55	





Wireline drawing

View flat at a comfortable arm's length



Baseline photograph.

View flat at a comfortable arm's length

OS reference:	337892 E 950958 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	12.1 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4
Direction of view:	130°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	42.77 km	Correct printed image size:	820 x 260 mm	Date and time:	16.10.2023 18:55

Operational and Under Construction offshore wind farms have been photomontaged in this view.

Figure: 12.5j
Viewpoint 5: Wick (path south of South View)
Caledonia South

© Crown copyright, All rights reserved (2023). Licence number 0100031673



Photomontage: Proposed Development.

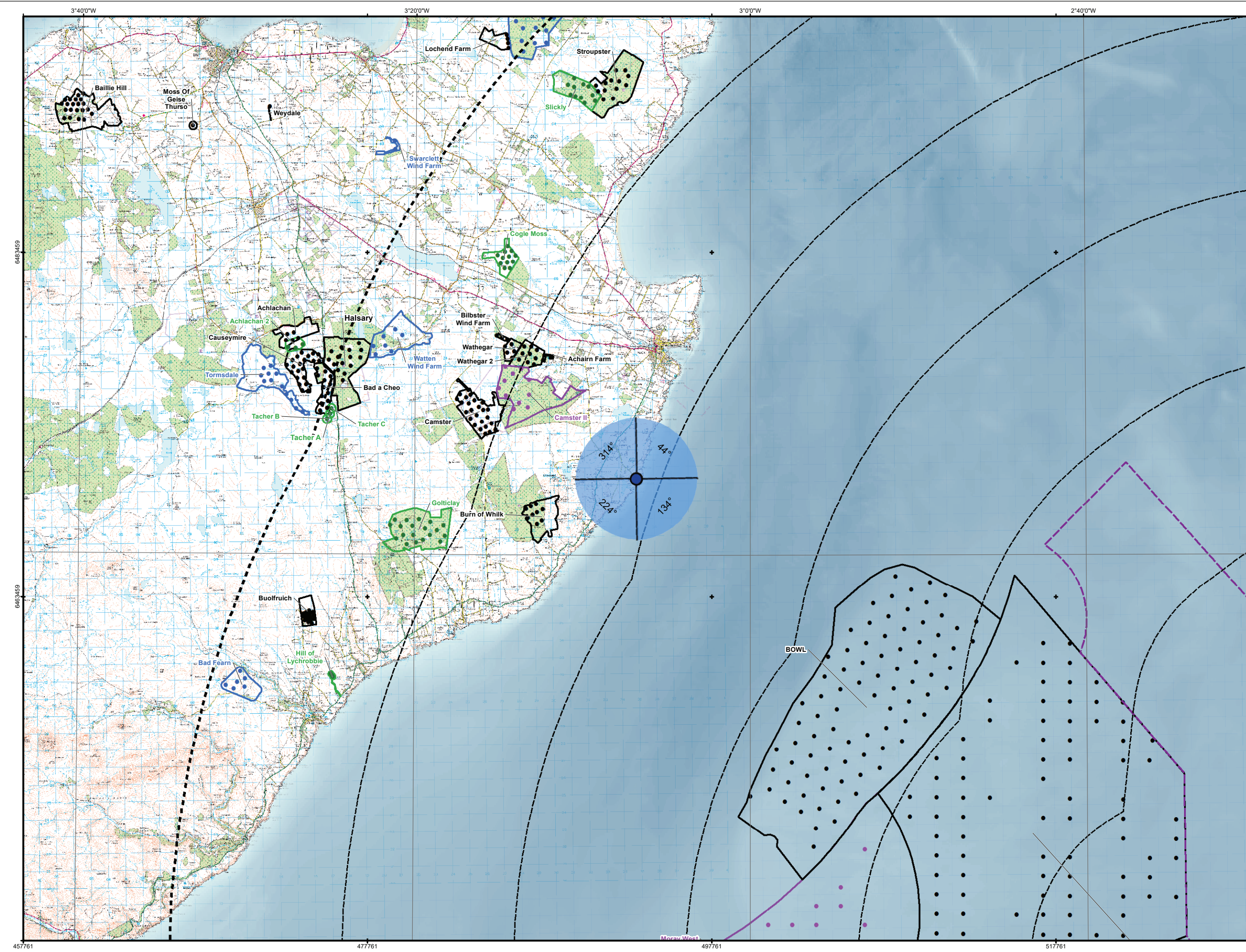
View flat at a comfortable arm's length

OS reference:	337892 E 950958 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	12.1 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4
Direction of view:	130°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	42.77 km	Correct printed image size:	820 x 260 mm	Date and time:	16.10.2023 18:55

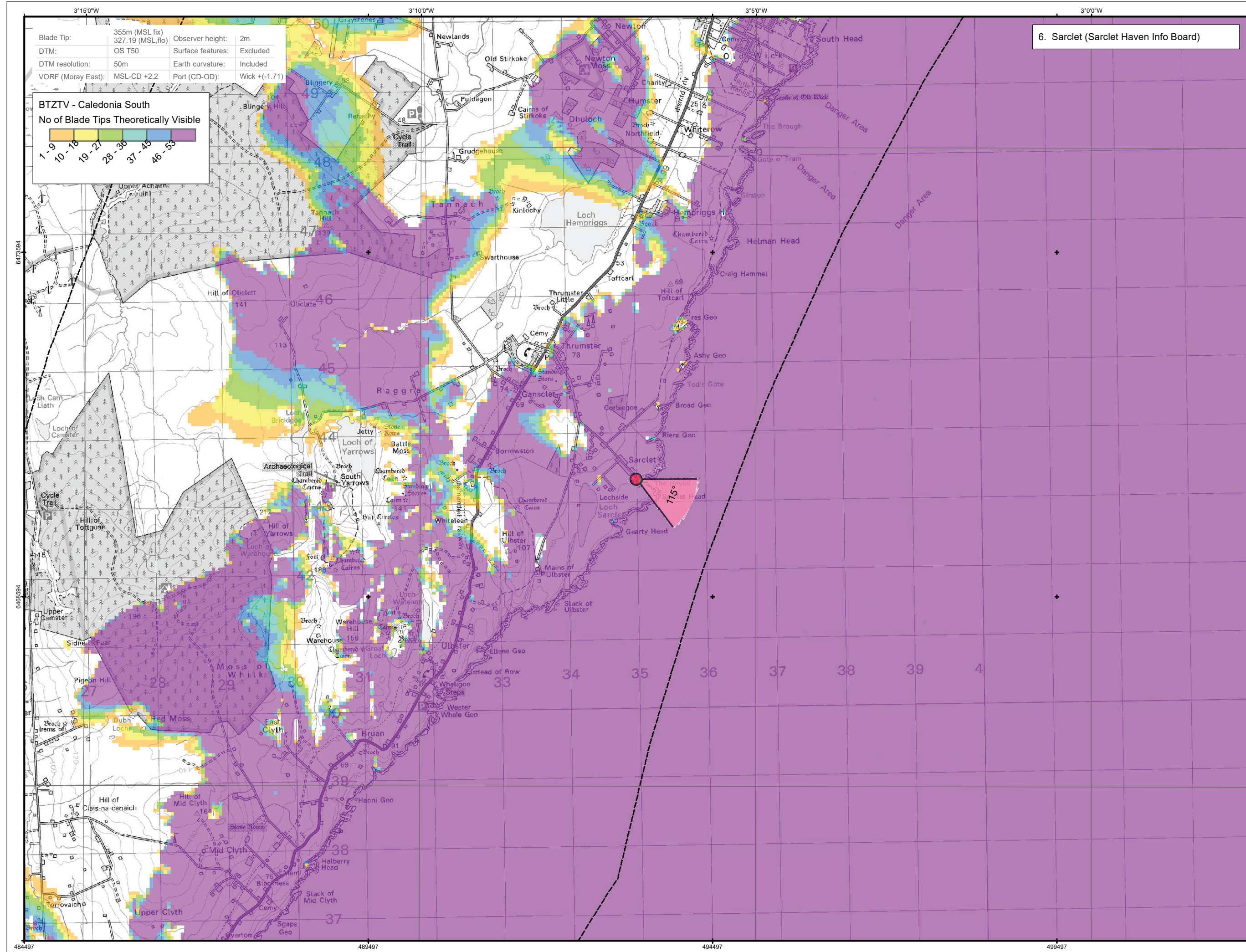
Operational and Under Construction offshore wind farms
have been photomontaged in this view.

Figure: 12.5k
Viewpoint 5: Wick (path south of South View)
Caledonia South

© Crown copyright, All rights reserved (2023). Licence number 0100031673



Viewpoint Location Plan Baseline Panorama (90° View)
Scale: 1:200,000



Viewpoint Location Plan (53.5° View)
Scale: 1:50,000

90°Field of View

53.5°Field of View

Caledonia South Fixed/Floating

Fixed (24 x 25MW)

Floating (29 x 20MW)

OSP

Caledonia South

Caledonia North

Offshore and Onshore Export Cable Corridor

10km Radii

60km Study Area

Cumulative Windfarms Status:

Operational

Under Construction

Consented

Appeal / Application

Operational

Under Construction

Consented

Appeal / Application

SEMODnet Bathymetry Consortium (2022). EMODnet Digital Bathymetry (DTM).
© Crown copyright and database rights (2024) Ordnance Survey 0100031673.
Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA
Sources: Esri, GEBCO, NOAA, National Geographic, Garmin, HERE, Geonames.org, and other contributors
© Caledonia Offshore Wind Farm Ltd © 2024 This document is the property of contractors and sub-contractors and shall not be reproduced or transmitted without prior written approval.

Sinclair's Bay

Wick

East Caithness City Marine Protected Area

Seatrice Wind Farm

0 2 4 6 8 10

0 0.5 1 1.5 2

km

km

03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT
REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP

CALEDONIA

Offshore Wind Farm

open

optimised environments

PART OF SLR

CONTRACTOR DRAWING NO
UKCAL1_OPN_WNF_ENV_SLV_MAP_00138

CONTRACTOR REV
03

GEODETIC PARAMETERS
WGS 1984 UTM Zone 30N (EPSG:32630)

DRAWING TITLE
Figure 12-6a - Viewpoint Plan
6. Sarclet (Sarclet Haven Info Board)

Caledonia South

STATUS
Approved

DRAWING NUMBER
N/A

SCALE
1:200,000
1:50,000

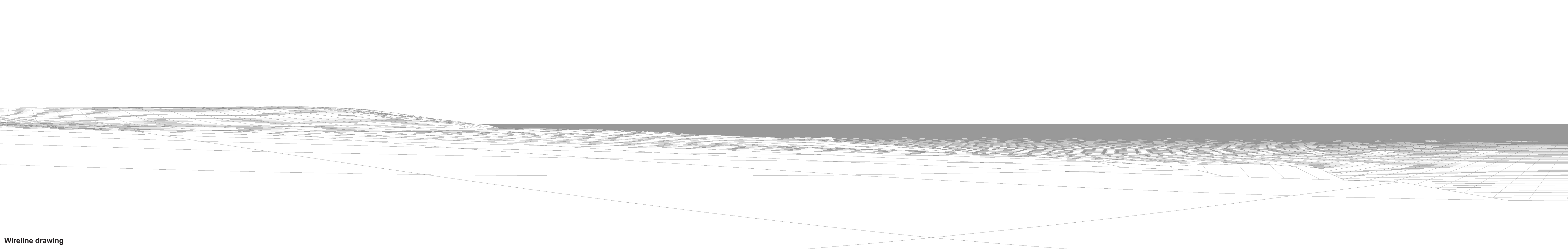
SHEET NO
06 of 22

REV
N/A



Baseline photograph

This image provides landscape and visual context only



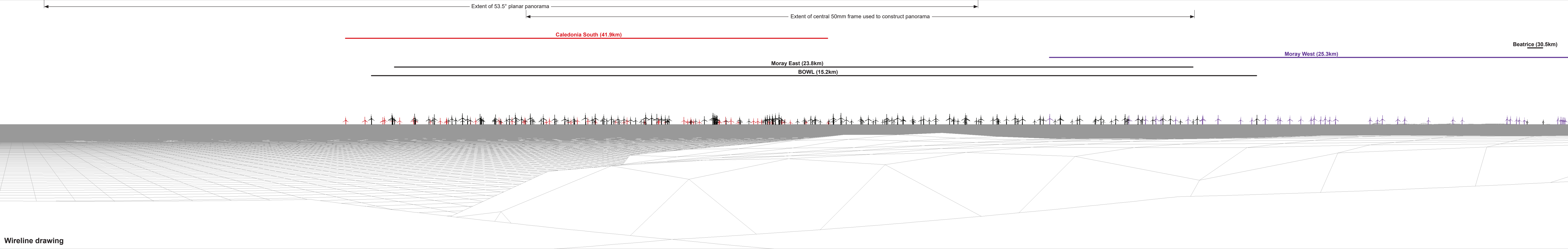
Wireline drawing

OS reference:	334987 E 943330 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.6b
Eye level:	40.9 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	Viewpoint 6: Sarclet (Sarclet Haven Info Board)
Direction of view:	44°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	Caledonia South
Nearest turbine:	41.95 km	Correct printed image size:	820 x 130 mm	Date and time:	16.10.2023 12:39	<small>© Crown copyright, All rights reserved (2023). Licence number 0100031673</small>



Baseline photograph

This image provides landscape and visual context only

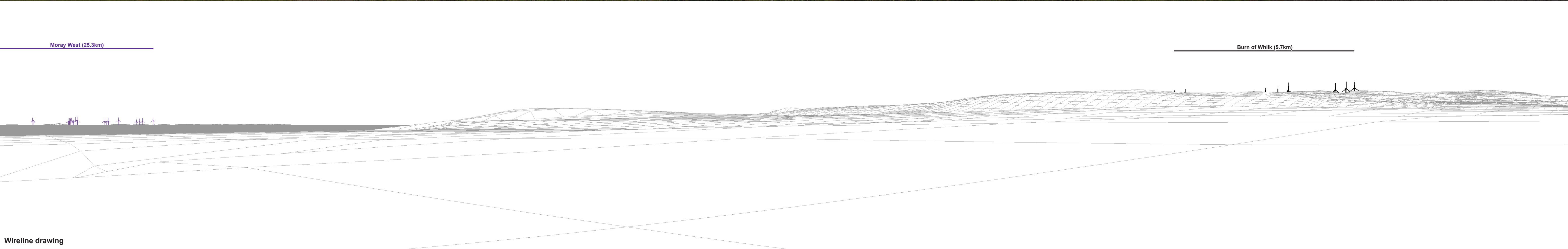


Wireline drawing



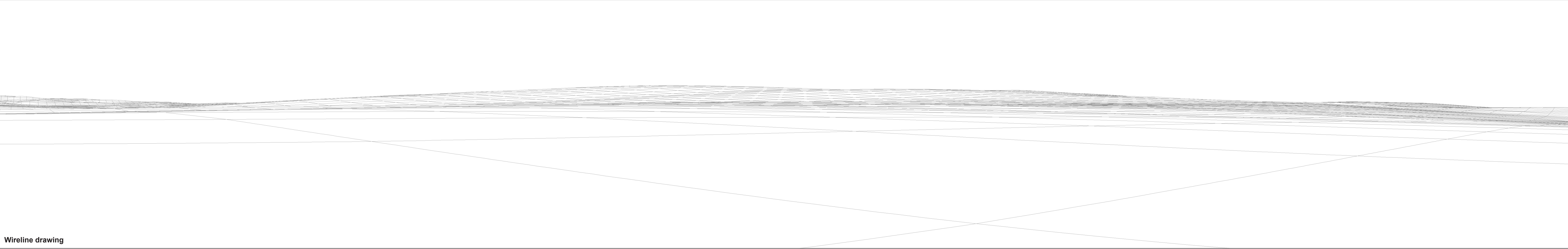
Baseline photograph

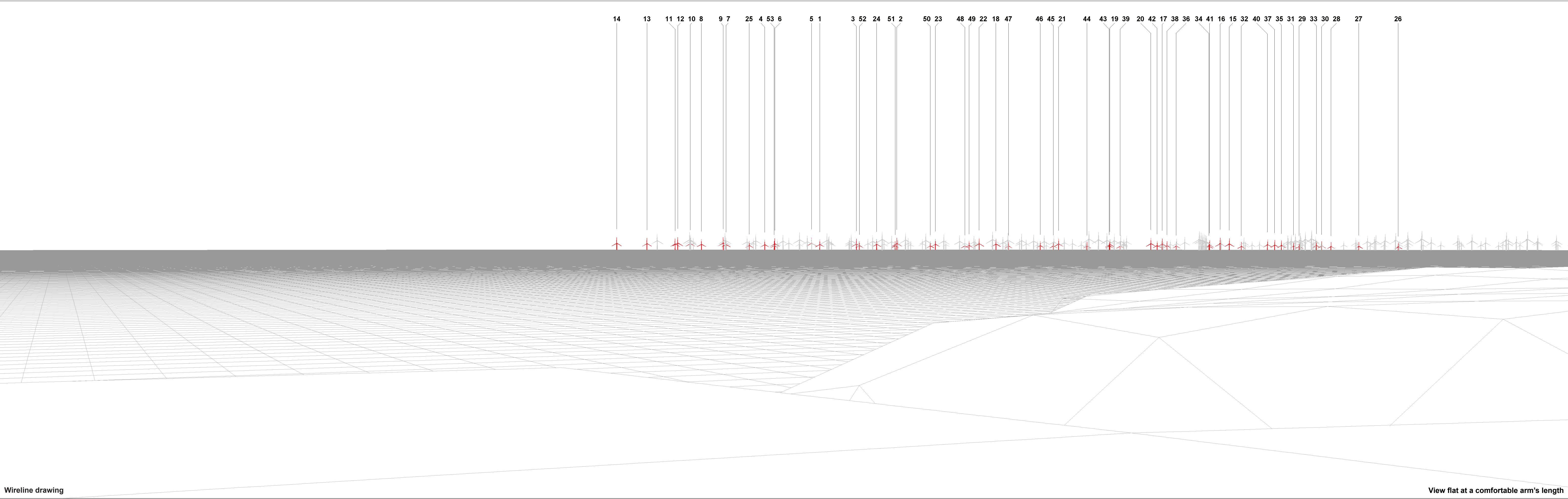
This image provides landscape and visual context only



Wireline drawing

OS reference:	334987 E 943330 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 5D Mark II	Figure: 12.6d Viewpoint 6: Sarclet (Sarclet Haven Info Board) Caledonia South <small>© Crown copyright. All rights reserved (2023). Licence number: 0100031673</small>
Eye level:	40.9 mAOD	Principal distance:	522 mm	Lens:	Canon EF 50mm f/1.4	
Direction of view:	224°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m	
Nearest turbine:	41.95 km	Correct printed image size:	820 x 130 mm	Date and time:	16.10.2023 12:39	







Baseline photograph.

View flat at a comfortable arm's length

OS reference:	334987 E 943330 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II
Eye level:	40.9 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4
Direction of view:	115°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m
Nearest turbine:	41.95 km	Correct printed image size:	820 x 260 mm	Date and time:	16.10.2023 12:39

Operational and Under Construction offshore wind farms
have been photomontaged in this view.

Figure: 12.6g
Viewpoint 6: Sarclet (Sarclet Haven Info Board)
Caledonia South



Photomontage: Proposed Development.

View flat at a comfortable arm's length

OS reference:	334987 E 943330 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 5D Mark II	Operational and Under Construction offshore wind farms have been photomontaged in this view.	Figure: 12.6h Viewpoint 6: Sarclet (Sarclet Haven Info Board) Caledonia South
Eye level:	40.9 mAOD	Principal distance:	812.5 mm	Lens:	Canon EF 50mm f/1.4		
Direction of view:	115°	Paper size:	841 x 297 mm (half A1)	Camera height:	1.5 m		
Nearest turbine:	41.95 km	Correct printed image size:	820 x 260 mm	Date and time:	16.10.2023 12:39		

© Crown copyright. All rights reserved (2023). Licence number: 0100031673

Caledonia Offshore Wind Farm
5th Floor, Atria One
144 Morrison Street
Edinburgh
EH3 8EX

www.caledoniaoffshorewind.com

