

**Note:**

1. **ZTV:** Created using ESRI ArcGIS 10.6 software using the following data and parameters:

Blade tip height: 137m

DTM Data: OSNI 10m DTM

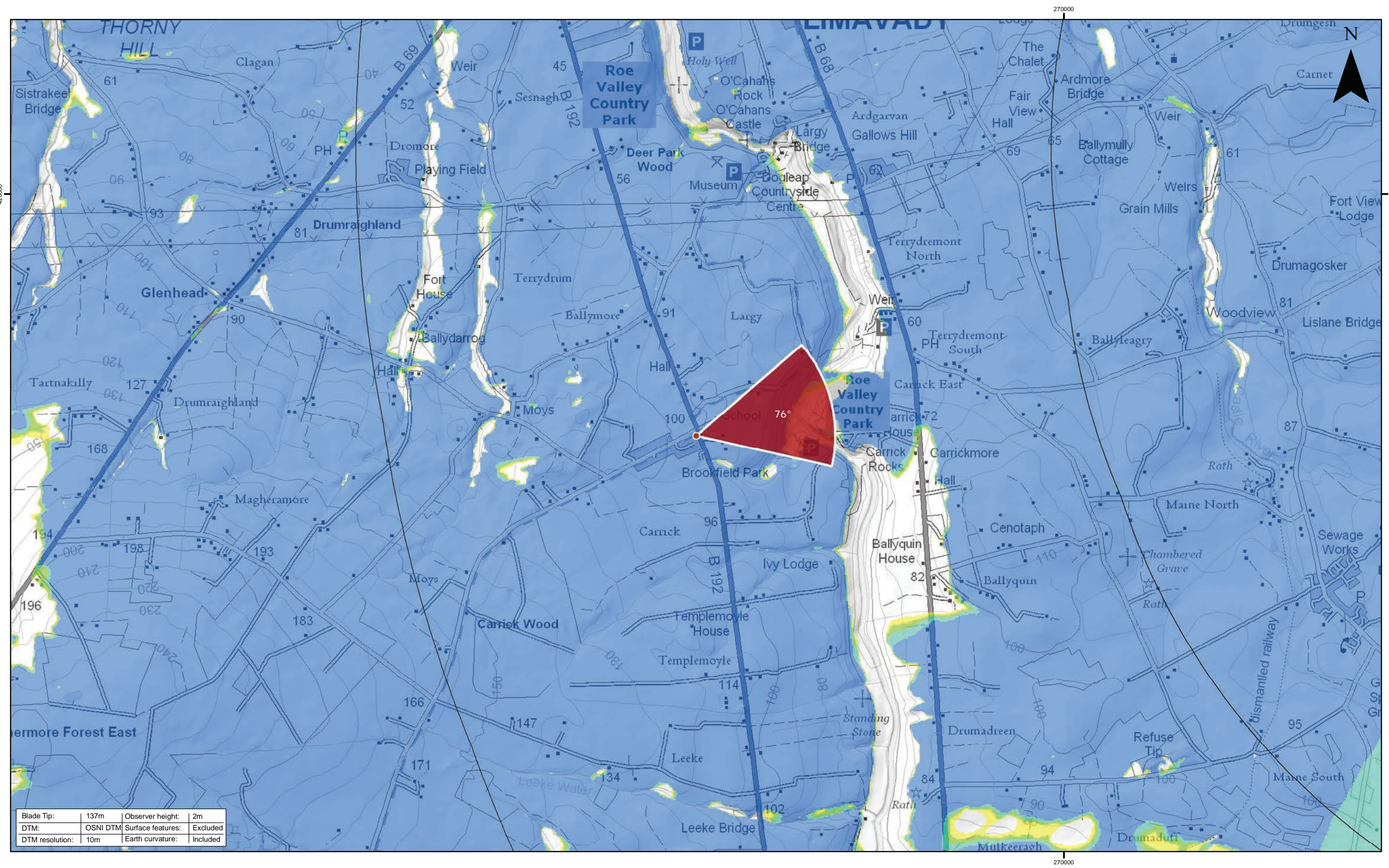
Observer height: 2m

No surface features, such as buildings or trees, were included in the analysis.

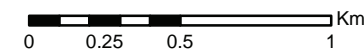
Earth curvature and light refraction have been included in calculations

2. **Cumulative Windforms:** Single turbines in close proximity to the Development have not been labelled. Full 20km Study Area is not being shown on this figure.

2. **Cumulative windfarm effects:** single turbines in close proximity to the Development have not been assessed for the full extent of 30km Study Area and assessed cumulative windfarm effects (Figure 6.13).



1	19/06/2019	JM	Second Issue.
0	25/03/2019	JM	First Issue.
<b>Rev</b>	<b>Date</b>	<b>By</b>	<b>Comment</b>



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**Rigged Hill Windfarm Repowering**  
Figure 6.38 - Viewpoint 11  
Polly's Brae Road junction with B192

**Drawing Number:**  
2607-LVIA-040

Datum  
TM65

Drawing produced by  
Optimised Environments Ltd.

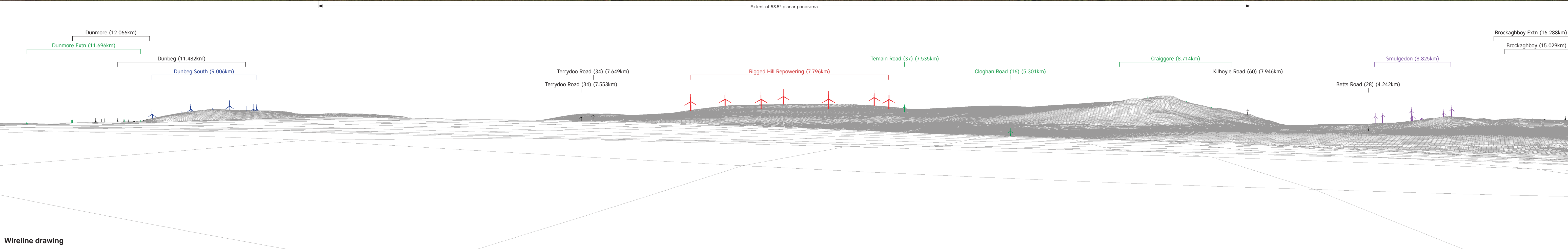
KPS-FGE-GIS0009 REV 001





Baseline photograph

This image provides landscape and visual context only



Wireline drawing

OS reference:	267353 E 418263 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	98.48 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	76°			Camera height:	1.5 m AGL
Nearest turbine:	7.796 km			Date and time:	20/06/17, 16:24

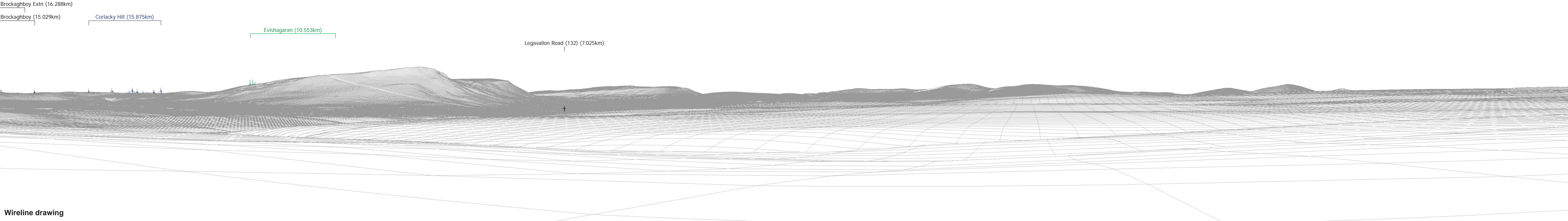
Figure: 6.38b  
Viewpoint 11: Polly's Brae Road junction with B192





Baseline photograph

This image provides landscape and visual context only

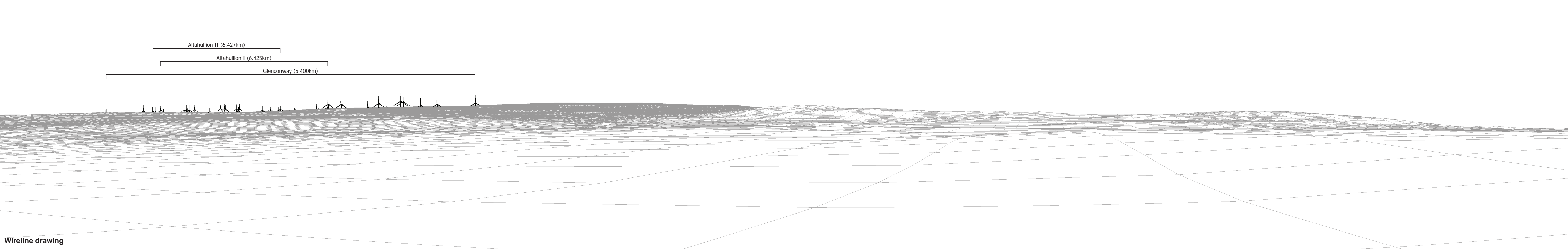


Wireline drawing

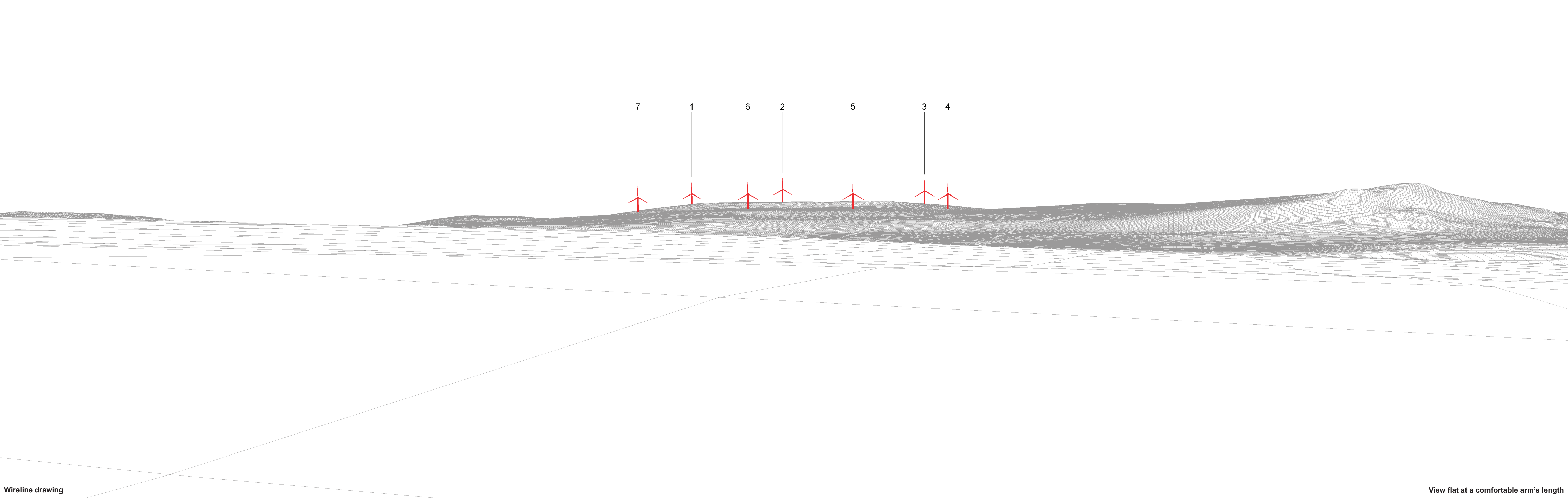
OS reference:	267353 E 418263 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	98.48 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	166°			Camera height:	1.5 m AGL
Nearest turbine:	7.796 km			Date and time:	20/06/17, 16:24

Figure: 6.38c  
Viewpoint 11: Polly's Brae Road junction with B192









Wireline drawing

View flat at a comfortable arm's length

OS reference:	267353 E 418263 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 6D
Eye level:	98.48 m AOD	Principal distance:	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	76°	Paper size:	841 x 297 mm	Camera height:	1.5 m AGL
Nearest turbine:	7.796 km	Correct printed image size:	820 x 260 mm	Date and time:	20/06/17, 16:24

Figure: 6.38e  
Viewpoint 11: Polly's Brae Road junction with B192





Photomontage

View flat at a comfortable arm's length

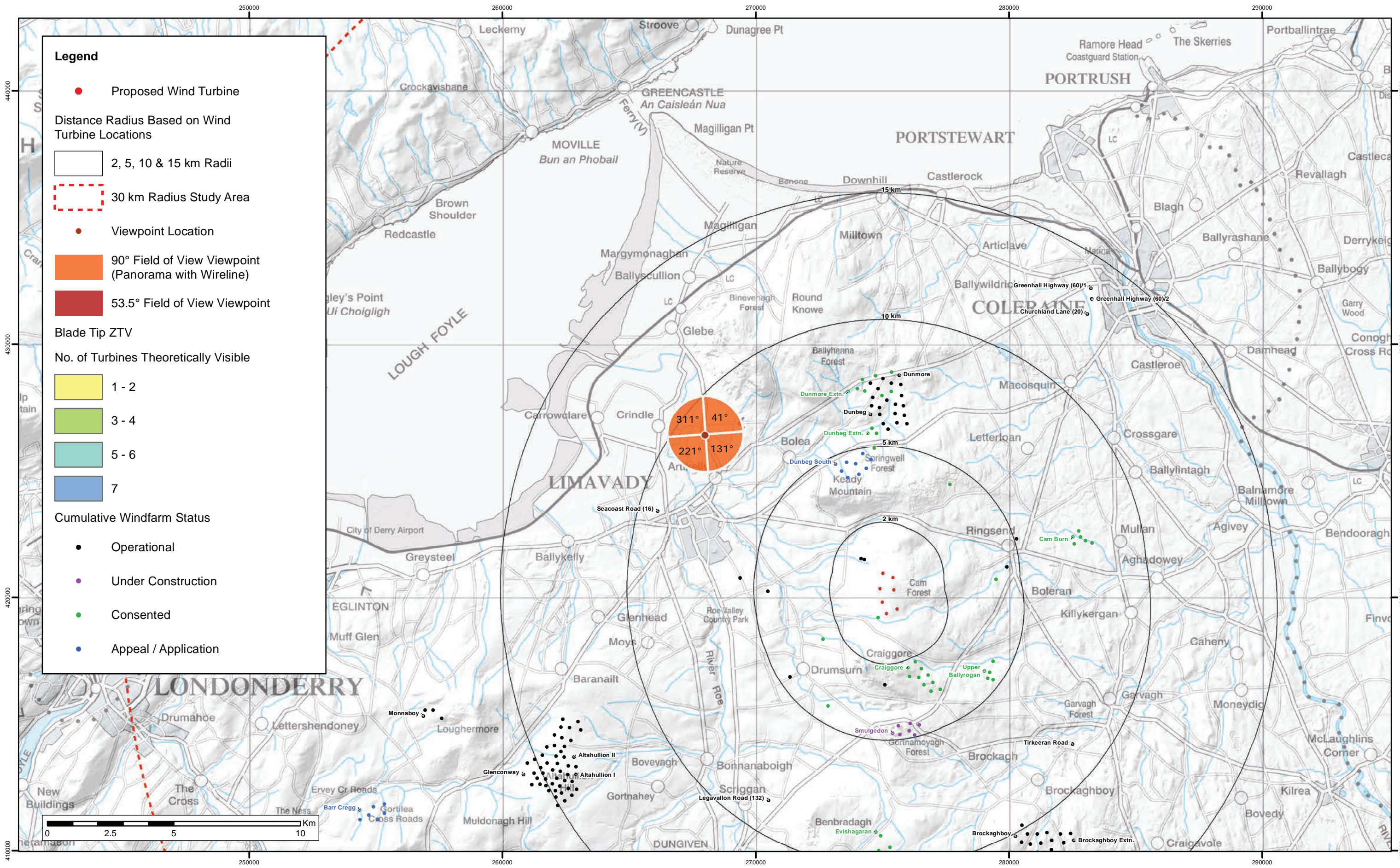
OS reference: 267353 E 418263 N  
Eye level: 98.48 m AOD  
Direction of view: 76°  
Nearest turbine: 7.796 km

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

Camera: Canon EOS 6D  
Lens: 50mm (Canon EF 50mm f/1.4)  
Camera height: 1.5 m AGL  
Date and time: 20/06/17, 16:24

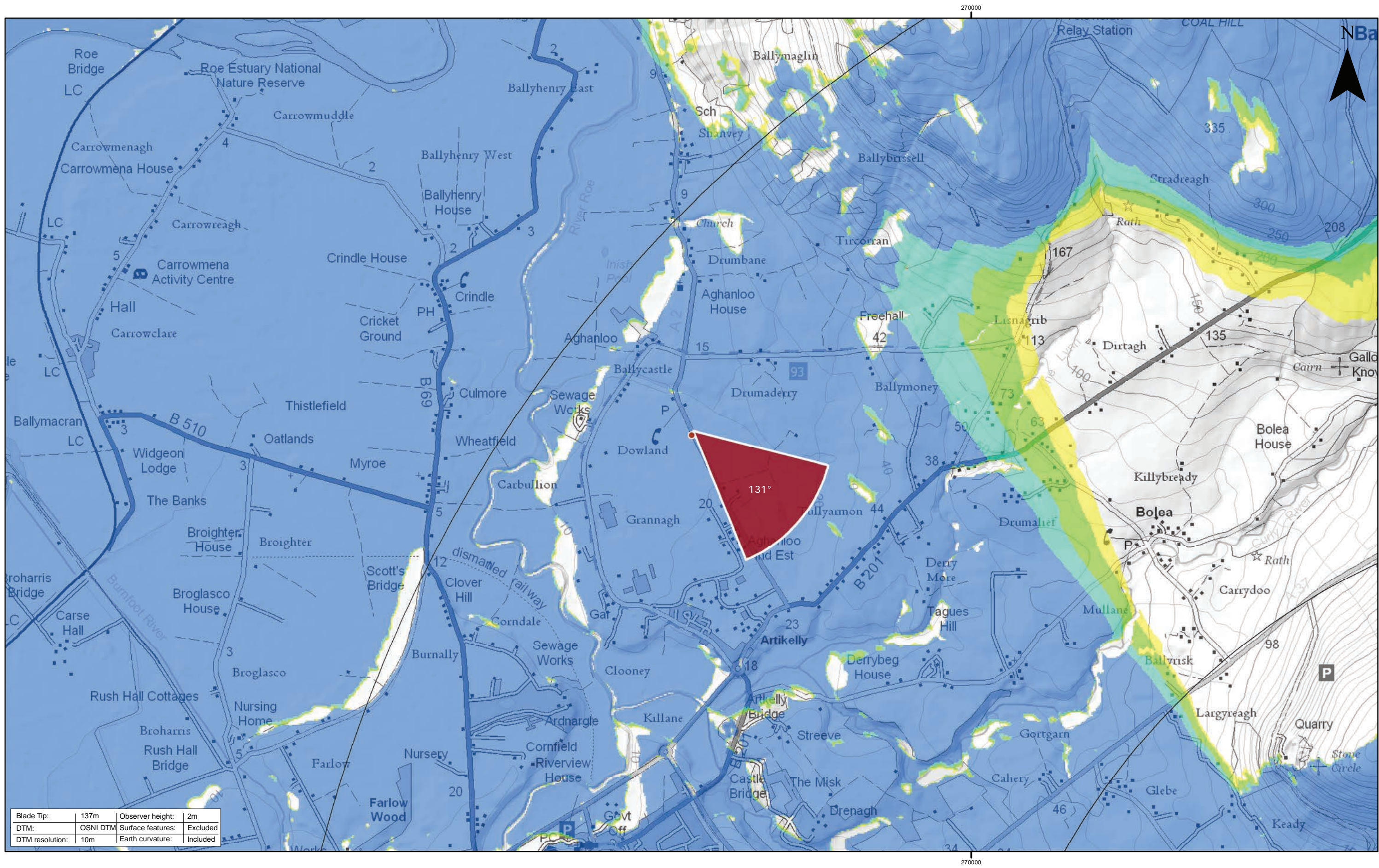
Figure: 6.38f  
Viewpoint 11: Polly's Brae Road junction with B192






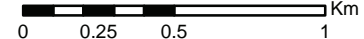
**Note:**

1. **ZTV:** Created using ESRI ArcGIS 10.6 software using the following data and parameters:  
Blade tip height: 137m  
DTM Data: OSNI 10m DTM  
Observer height: 2m  
No surface features, such as buildings or trees, were included in the analysis.  
Earth curvature and light refraction have been included in calculations.
2. **Cumulative Windfarms:** Single turbines in close proximity to the Development have not been labelled. Full 30km Study Area is not being shown on this figure. For full extent of 30km Study Area and assessed cumulative windfarms see Figure 6.12.





Rev	Date	By	Comment
1	19/06/2019	JM	Second Issue.
0	25/03/2019	JM	First Issue.

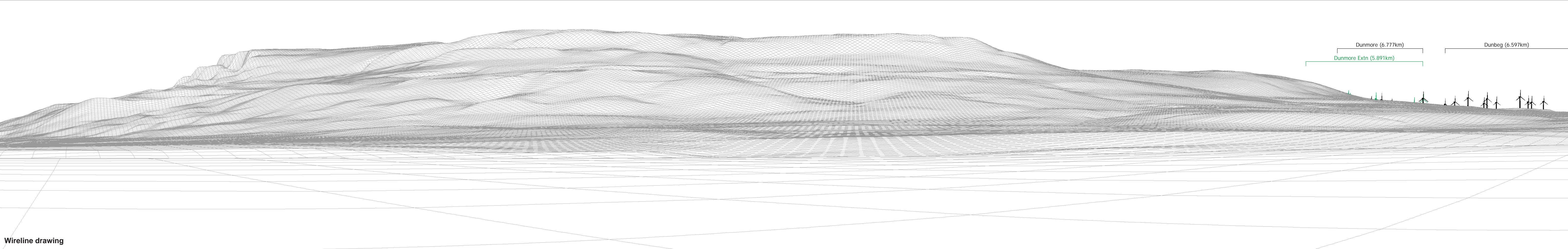


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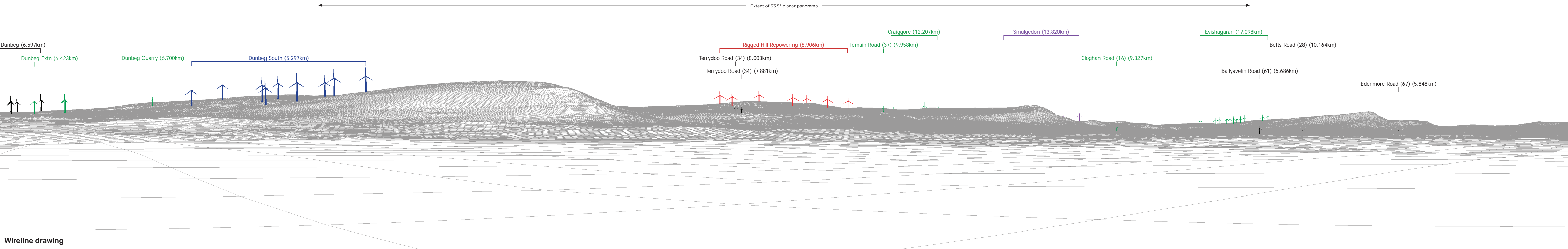
**Rigged Hill Windfarm Repowering**  
Figure 6.39 - Viewpoint 12  
A2, north of Limavady

<b>Drawing Number:</b> 2607-LVIA-041	<b>Datum</b> TM65	<b>Projection</b> TM
<b>Scale @ A3</b> 1:25,000		
<b>Drawing produced by</b> Optimised Environments Ltd.		









<b>OS reference:</b> 268001 E 426443 N	<b>Horizontal field of view:</b> 90° (cylindrical projection)	<b>Camera:</b> Canon EOS 6D
<b>Eye level:</b> 19.14 m AOD	<b>Principal distance:</b> 522 mm	<b>Lens:</b> 50mm (Canon EF 50mm f/1.4)
<b>Direction of view:</b> 131°		<b>Camera height:</b> 1.5 m AGL
<b>Nearest turbine:</b> 8.906 km		<b>Date and time:</b> 30/04/18, 15:43

**Figure: 6.39c**  
**Viewpoint 12: A2, north of Limavady**





Baseline photograph

This image provides landscape and visual context only

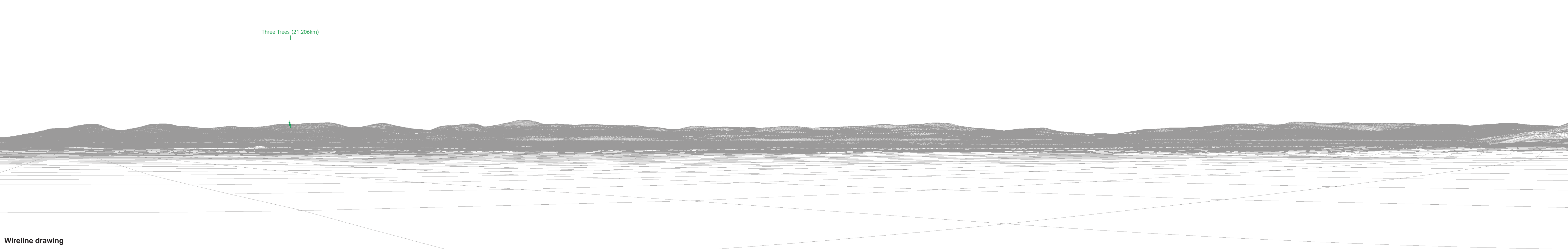


Wireline drawing

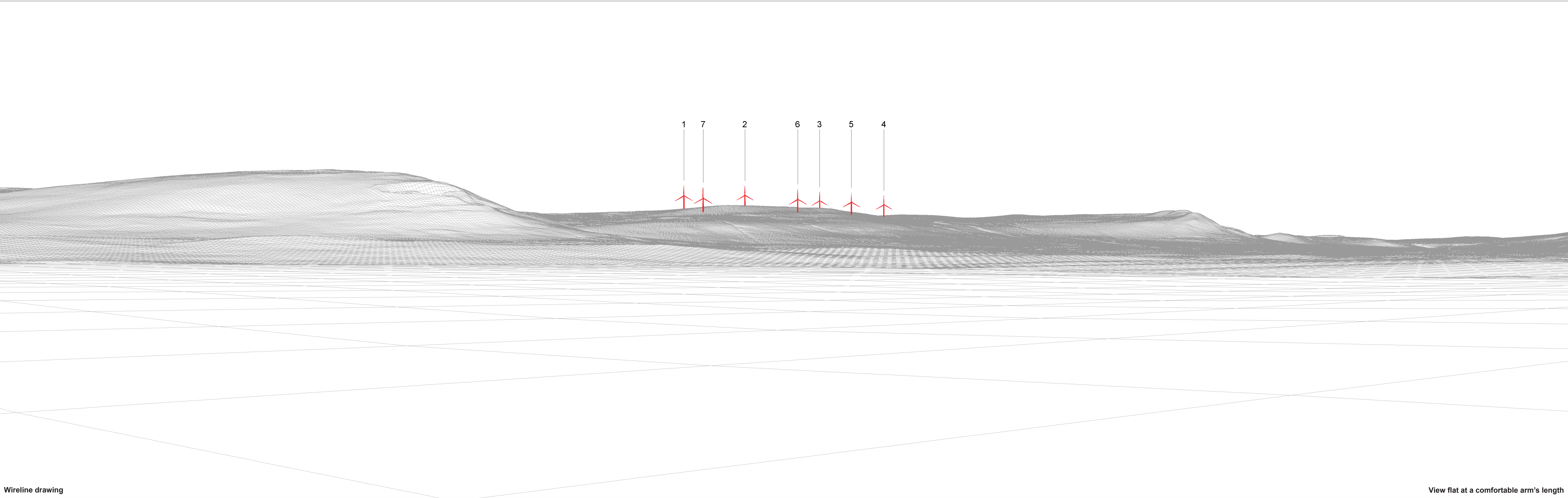
OS reference:	268001 E 426443 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	19.14 m AOD	Principal distance	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	221°			Camera height:	1.5 m AGL
Nearest turbine:	8.906 km			Date and time:	30/04/18, 15:43

Figure: 6.39d  
Viewpoint 12: A2, north of Limavady









Wireline drawing

View flat at a comfortable arm's length

<b>OS reference:</b> 268001 E 426443 N		<b>Horizontal field of view:</b> 53.5° (planar projection)		<b>Camera:</b> Canon EOS 6D	
<b>Eye level:</b> 19.14 m AOD		<b>Principal distance:</b> 812.5 mm		<b>Lens:</b> 50mm (Canon EF 50mm f/1.4)	
<b>Direction of view:</b> 131°		<b>Paper size:</b> 841 x 297 mm		<b>Camera height:</b> 1.5 m AGL	
<b>Nearest turbine:</b> 8.906 km		<b>Correct printed image size:</b> 820 x 260 mm		<b>Date and time:</b> 30/04/18, 15:43	

**Figure: 6.39f**  
**Viewpoint 12: A2, north of Limavady**





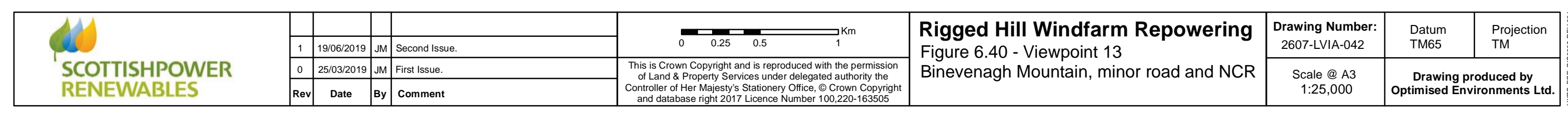
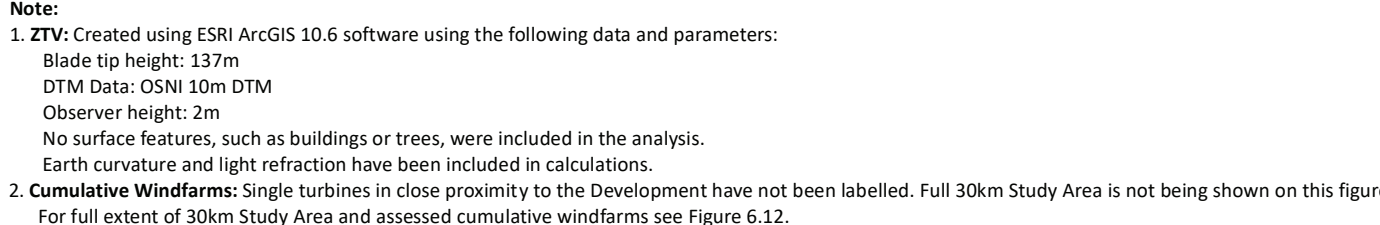
Photomontage

View flat at a comfortable arm's length

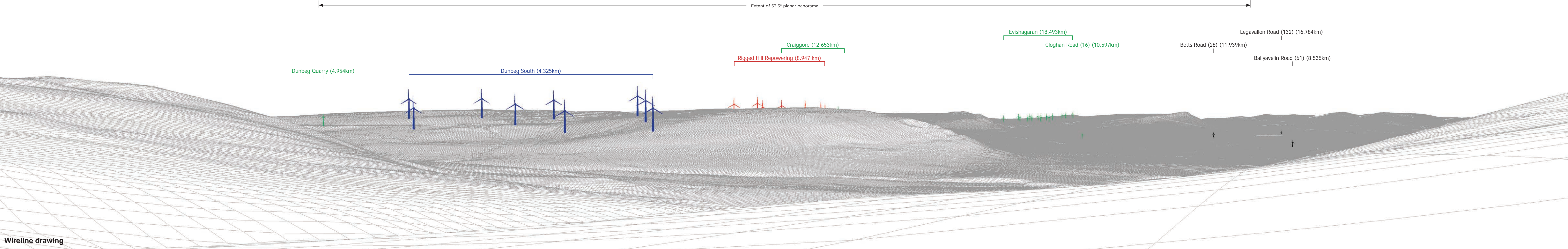
OS reference:	268001 E 426443 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 6D
Eye level:	19.14 m AOD	Principal distance	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	131°	Paper size:	841 x 297 mm	Camera height:	1.5 m AGL
Nearest turbine:	8.906 km	Correct printed image size:	820 x 260 mm	Date and time:	30/04/18, 15:43

Figure: 6.39g  
Viewpoint 12: A2, north of Limavady





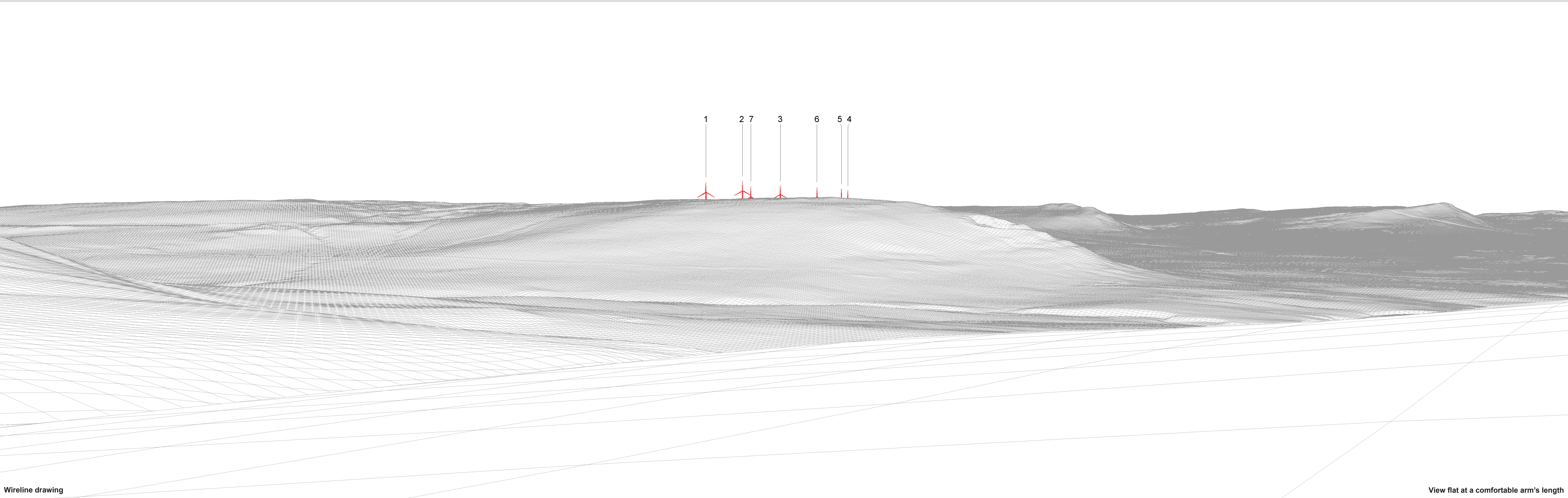




<b>OS reference:</b>	270648 E 428765 N	<b>Horizontal field of view:</b>	90° (cylindrical projection)	<b>Camera:</b>	Canon EOS 6D
<b>Eye level:</b>	256.24 m AOD	<b>Principal distance</b>	522 mm	<b>Lens:</b>	50mm (Canon EF 50mm f/1.4)
<b>Direction of view:</b>	152°			<b>Camera height:</b>	1.5 m AGL
<b>Nearest turbine:</b>	8.947 km			<b>Date and time:</b>	30/04/18, 14:46

**Figure: 6.40b**  
**Viewpoint 13: Binevenagh Mountain, minor road and NCR**





Wireline drawing

View flat at a comfortable arm's length





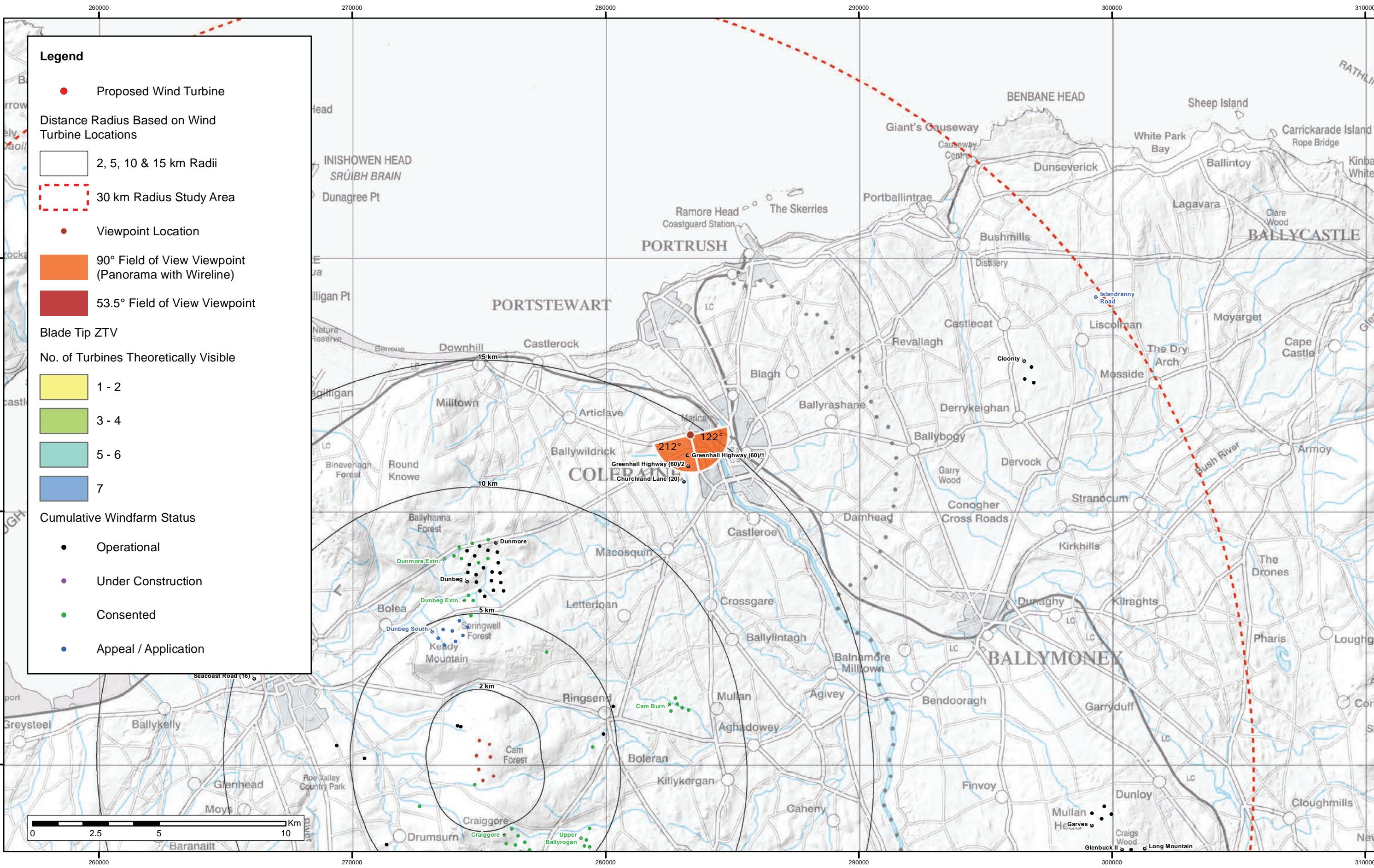
Photomontage

View flat at a comfortable arm's length

OS reference:	270648 E 428765 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 6D
Eye level:	256.24 m AOD	Principal distance	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	152°	Paper size:	841 x 297 mm	Camera height:	1.5 m AGL
Nearest turbine:	8.947 km	Correct printed image size:	820 x 260 mm	Date and time:	30/04/18, 14:46

**Figure: 6.40d**  
**Viewpoint 13: Binevenagh Mountain, minor road and NCR**

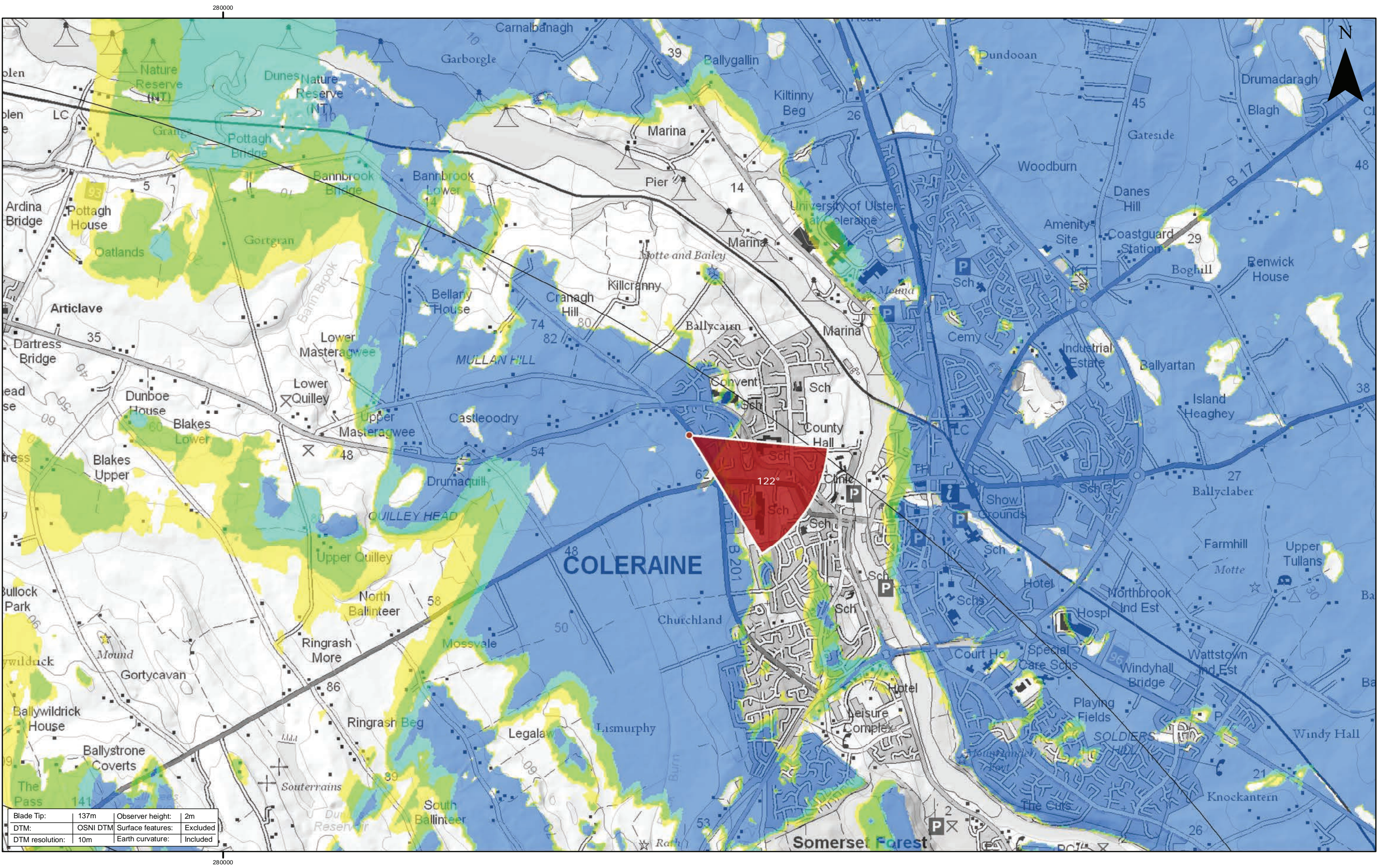





**Note:**

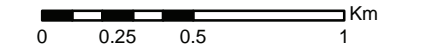
1. **ZTV:** Created using ESRI ArcGIS 10.6 software using the following data and parameters:  
Blade tip height: 137m  
DTM Data: OSNI 10m DTM  
Observer height: 2m  
No surface features, such as buildings or trees, were included in the analysis.  
Earth curvature and light refraction have been included in calculations.

2. **Cumulative Windfarms:** Single turbines in close proximity to the Development have not been labelled. Full 30km Study Area is not being shown on this figure. For full extent of 30km Study Area and assessed cumulative windfarms see Figure 6.12.





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**Rigged Hill Windfarm Repowering**  
Figure 6.41 - Viewpoint 14  
Wheatshaf Road, Coleraine

**Drawing Number:**  
2607-LVIA-043

**Datum**  
TM65

**Projection**  
TM

**Scale @ A3**  
1:25,000

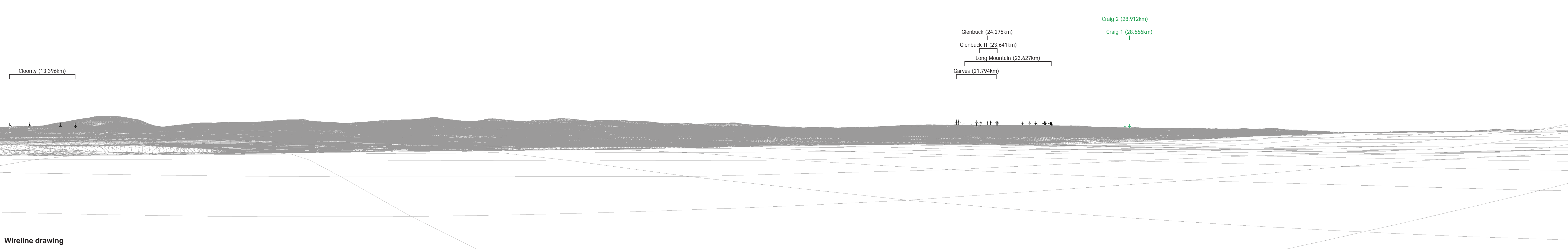
**Drawing produced by**  
**Optimised Environments Ltd.**





Baseline photograph

This image provides landscape and visual context only

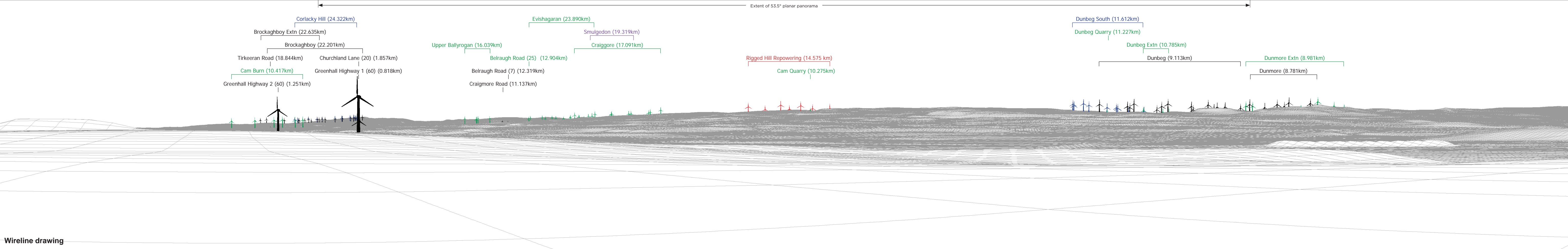


Wireline drawing

OS reference:	283344 E 433021 N	Horizontal field of view:	90° (cylindrical projection)	Camera:	Canon EOS 6D
Eye level:	68.05 m AOD	Principal distance:	522 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	122°			Camera height:	1.5 m AGL
Nearest turbine:	14.575 km			Date and time:	30/04/18, 14:15

Figure: 6.41b  
Viewpoint 14: Wheatsheaf Road, Coleraine

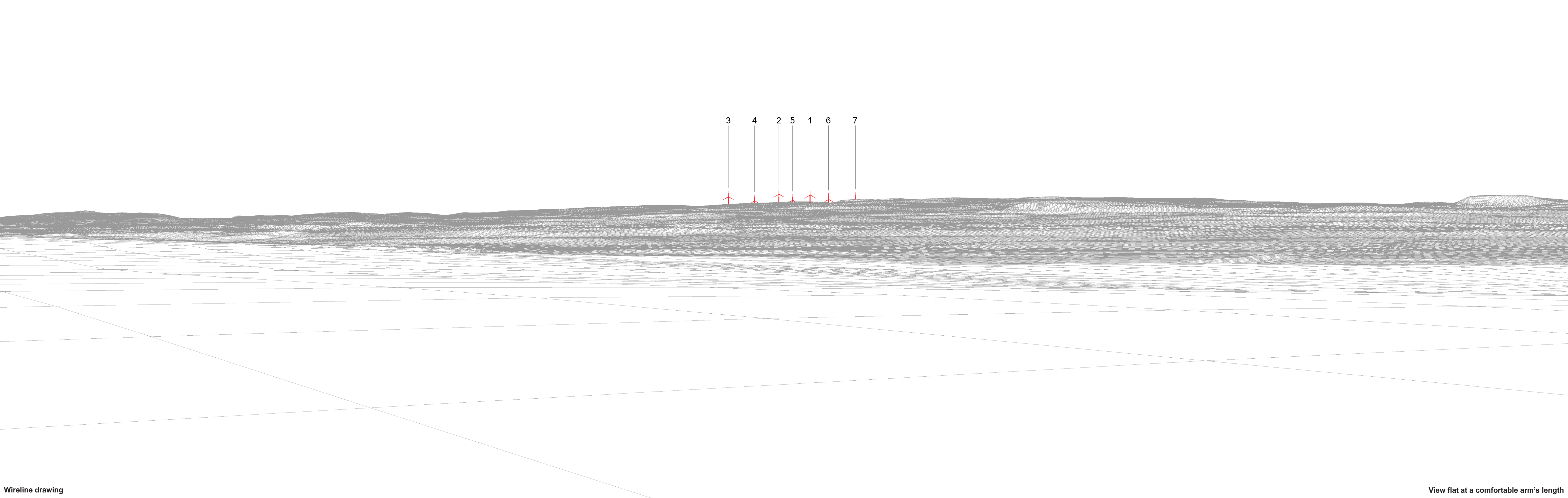




<b>OS reference:</b>	283344 E 433021 N	<b>Horizontal field of view:</b>	90° (cylindrical projection)	<b>Camera:</b>	Canon EOS 6D
<b>Eye level:</b>	68.05 m AOD	<b>Principal distance</b>	522 mm	<b>Lens:</b>	50mm (Canon EF 50mm f/1.4)
<b>Direction of view:</b>	212°			<b>Camera height:</b>	1.5 m AGL
<b>Nearest turbine:</b>	14.575 km			<b>Date and time:</b>	30/04/18, 14:15

**Figure: 6.41c**  
**Viewpoint 14: Wheatsheaf Road, Coleraine**





Wireline drawing

View flat at a comfortable arm's length



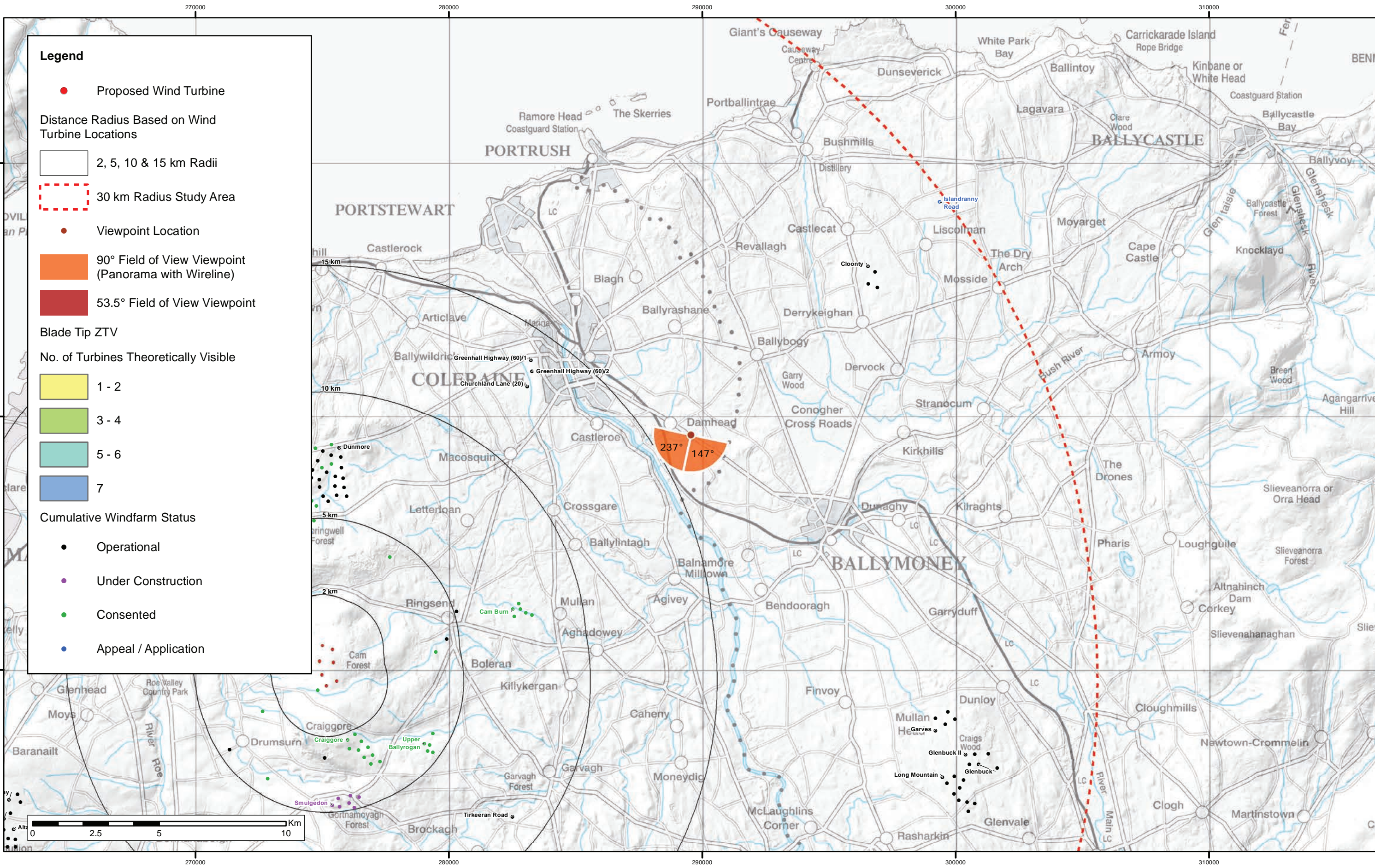


Photomontage

View flat at a comfortable arm's length

OS reference:	283344 E 433021 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 6D	Figure: 6.41e
Eye level:	68.05 m AOD	Principal distance	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)	Viewpoint 14: Wheatsheaf Road, Coleraine
Direction of view:	212°	Paper size:	841 x 297 mm	Camera height:	1.5 m AGL	
Nearest turbine:	14.575 km	Correct printed image size:	820 x 260 mm	Date and time:	30/04/18, 14:15	

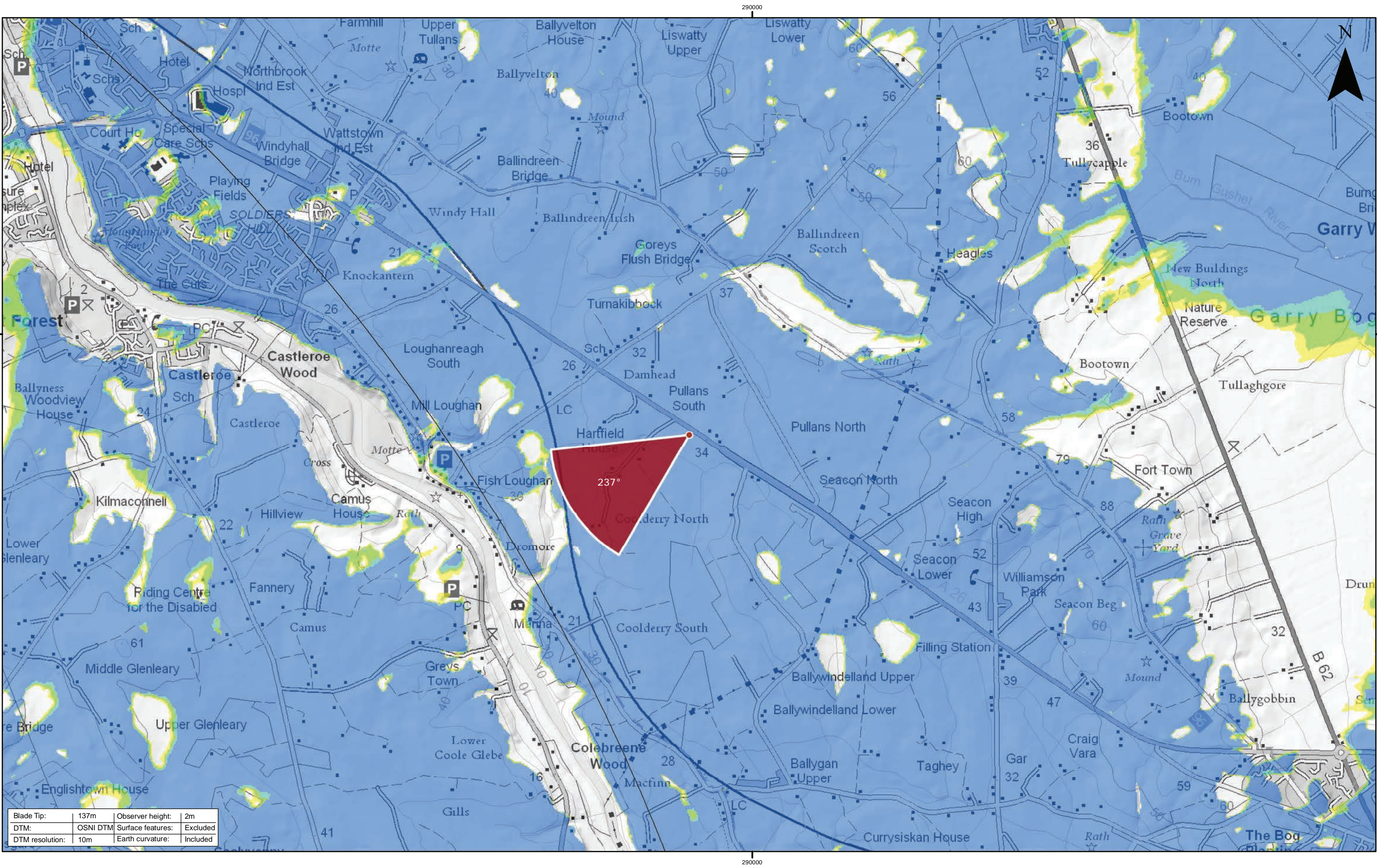





**Note:**

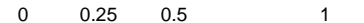
1. **ZTV:** Created using ESRI ArcGIS 10.6 software using the following data and parameters:  
Blade tip height: 137m  
DTM Data: OSNI 10m DTM  
Observer height: 2m  
No surface features, such as buildings or trees, were included in the analysis.  
Earth curvature and light refraction have been included in calculations.

2. **Cumulative Windfarms:** Single turbines in close proximity to the Development have not been labelled. Full 30km Study Area is not being shown on this figure. For full extent of 30km Study Area and assessed cumulative windfarms see Figure 6.12.





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**Rigged Hill Windfarm Repowering**  
Figure 6.42 - Viewpoint 15  
A26 near Season (Ballymoney)

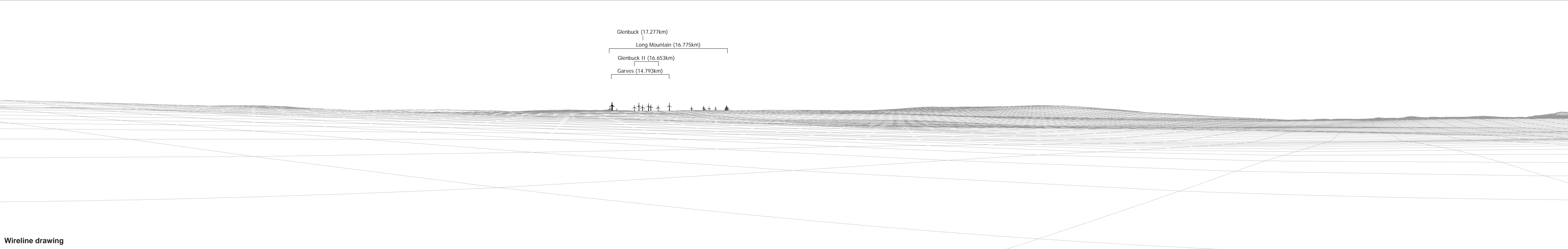
<b>Drawing Number:</b> 2607-LVIA-044	Datum TM65	Projection TM
Scale @ A3 1:25,000	Drawing produced by <b>Optimised Environments Ltd.</b>	





Baseline photograph

This image provides landscape and visual context only

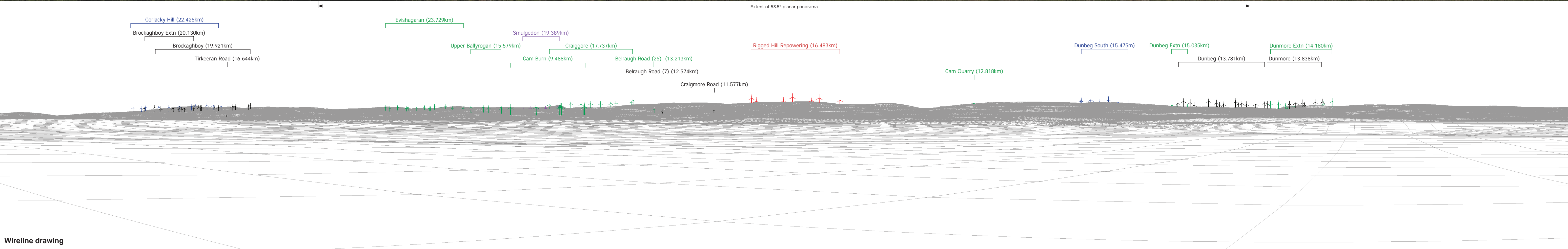


Wireline drawing

<b>OS reference:</b>	289546 E 429280 N	<b>Horizontal field of view:</b>	90° (cylindrical projection)	<b>Camera:</b>	Canon EOS 6D
<b>Eye level:</b>	33.38 m AOD	<b>Principal distance</b>	522 mm	<b>Lens:</b>	50mm (Canon EF 50mm f/1.4)
<b>Direction of view:</b>	147°			<b>Camera height:</b>	1.5 m AGL
<b>Nearest turbine:</b>	16.483 km			<b>Date and time:</b>	30/04/18, 13:49

**Figure: 6.42b**  
**Viewpoint 15: A26 near Seacon (Ballymoney)**

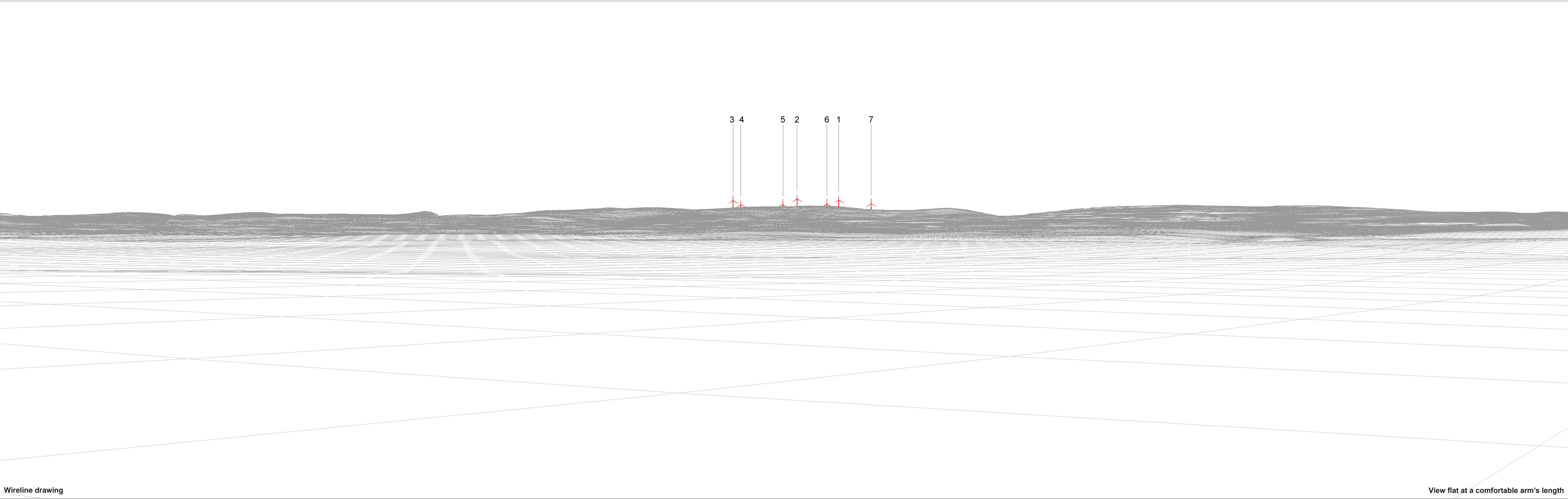




<b>OS reference:</b>	289546 E 429280 N	<b>Horizontal field of view:</b>	90° (cylindrical projection)	<b>Camera:</b>	Canon EOS 6D
<b>Eye level:</b>	33.38 m AOD	<b>Principal distance</b>	522 mm	<b>Lens:</b>	50mm (Canon EF 50mm f/1.4)
<b>Direction of view:</b>	237°			<b>Camera height:</b>	1.5 m AGL
<b>Nearest turbine:</b>	16.483 km			<b>Date and time:</b>	30/04/18, 13:49

**Figure: 6.42c**  
**Viewpoint 15: A26 near Seacon (Ballymoney)**





Wireline drawing

View flat at a comfortable arm's length

<b>OS reference:</b>	289546 E 429280 N	<b>Horizontal field of view:</b>	53.5° (planar projection)	<b>Camera:</b>	Canon EOS 6D	<b>Figure: 6.42d</b> <b>Viewpoint 15: A26 near Seacon (Ballymoney)</b>
<b>Eye level:</b>	33.38 m AOD	<b>Principal distance</b>	812.5 mm	<b>Lens:</b>	50mm (Canon EF 50mm f/1.4)	
<b>Direction of view:</b>	237°	<b>Paper size:</b>	841 x 297 mm	<b>Camera height:</b>	1.5 m AGL	
<b>Nearest turbine:</b>	16.483 km	<b>Correct printed image size:</b>	820 x 260 mm	<b>Date and time:</b>	30/04/18, 13:49	





Photomontage

View flat at a comfortable arm's length

OS reference:	289546 E 429280 N	Horizontal field of view:	53.5° (planar projection)	Camera:	Canon EOS 6D
Eye level:	33.38 m AOD	Principal distance	812.5 mm	Lens:	50mm (Canon EF 50mm f/1.4)
Direction of view:	237°	Paper size:	841 x 297 mm	Camera height:	1.5 m AGL
Nearest turbine:	16.483 km	Correct printed image size:	820 x 260 mm	Date and time:	30/04/18, 13:49

Figure: 6.42e  
Viewpoint 15: A26 near Seacon (Ballymoney)