

# LLANBRYNMAIR WIND FARM Supplementary Environmental Information August 2013

Volume III – Supporting Figures

### VOLUME III - SUPPORTING FIGURES

Drawing / Figure Number	Drawing / Figure Name
Red Line Boundary Drawings	
Drawing 1-A	Site Boundary
Drawing 1-B	Site Boundary
Drawing 1-1A	Site Boundary
Drawing 1-1B	Site Boundary
Drawing 1-1C	Site Boundary
Drawing 1-1D	Site Boundary
Drawing 1-1E	Site Boundary
Drawing 1-1F	Site Boundary
Drawing 1-1G	Site Boundary
Drawing 1-1H	Site Boundary
Drawing 1-11	Site Boundary
Drawing 1-1J	Site Boundary
Drawing 1-1K	Site Boundary
Drawing 1-2A	Site Boundary
Drawing 1-2B	Site Boundary
Drawing 1-2C	Site Boundary
Drawing 1-2D	Site Boundary
Drawing 1-2E	Site Boundary
Drawing 1-2F	Site Boundary
Drawing 1-2G	Site Boundary
Drawing 1-3A	Site Boundary
Drawing 1-3B	Site Boundary
Drawing 1-3C	Site Boundary
Drawing 1-3D	Site Boundary
Drawing 1-3E	Site Boundary
Chapter 1 - Introduction	
Figure 1.1	Indicative Site Location
Chapter 2 - Renewable Energy and Planning Policy	No Figures



Drawing / Figure Number	Drawing / Figure Name
Chapter 3 - Description of Project	
Figure 3.1	Regional Constraints
Figure 3.2	Strategic Search Area B and Site Boundary
Figure 3.3	Combined Constraints
Figure 3.4	Original Turbine Layout
Figure 3.5	Current Turbine Layout
Figure 3.6	Infrastructure Layout
Figure 3.7	Adjustments to Turbine Layout and Infrastructure
Figure 3.8	Typical Front and Side Elevations of a Wind Turbine
Figure 3.9	Typical Access Track Design
Figure 3.10	Typical Watercourse Crossing
Figure 3.11	Crane Hardstanding General Arrangement
Figure 3.12	Wind Turbine Foundation
Figure 3.13	Typical Temporary and Permanent Anemometer Masts
Figure 3.14	Primary Control Building and Substation Plan
Figure 3.15	Primary Control Building and Substation Elevation
Figure 3.16	Operations Welfare Building Layout and Elevation
Figure 3.17	Typical Construction Compound
Figure 3.18	Typical Site Drainage Plan
Figure 3.19	Typical Borrow Pit Profile and Layout Plan
Figure 3.20	Indicative Steep-Sided Water Crossing Detail
Figure 3.21	Typical Batching Plant Layout
Figure 3.22	MV Cable Layout
Figure 3.23	Cable Trench Detail
Figure 3.24	Proposed Access Route
Figure 3.25a & b	Layout and Micrositing Areas
Figure 3.26	Substation Ground Modelling Plan
Chapter 4 - Landscape and Visual Appraisal	
Figure 4.1	Site Layout
Figure 4.2	Site Location and Study Area
Figure 4.3	Landscape Character Map of Wales



Drawing / Figure Number	Drawing / Figure Name
Figure 4.4	Powys Landscape Character Assessment
Figure 4.5	LANDMAP Geological Landscape
Figure 4.6	LANDMAP Landscape Habitats
Figure 4.7	LANDMAP Cultural Landscape
Figure 4.8	LANDMAP Historic Landscape
Figure 4.9	LANDMAP Visual and Sensory
Figure 4.10	Designated Landscapes
Figure 4.11	Tip Height ZTV (126.5M)
Figure 4.11a	Enlargement A
Figure 4.11b	Enlargement B
Figure 4.11c	Enlargement C
Figure 4.11d	Enlargement D
Figure 4.11e	Enlargement E
Figure 4.11f	Enlargement F
Figure 4.12	Hub Height ZTV (80M)
Figure 4.12a	Enlargement A
Figure 4.12b	Enlargement B
Figure 4.12c	Enlargement C
Figure 4.12d	Enlargement D
Figure 4.12e	Enlargement E
Figure 4.12f	Enlargement F
Figure 4.13	Viewpoint 1: Glyndŵr's Way above Cwmderwen (plus photomontages)
Figure 4.14	Viewpoint 2: Cwmderwen (plus photomontages)
Figure 4.15	Viewpoint 3: Minor Road above Ffridd Fawr (plus photomontages)
Figure 4.16	Viewpoint 4: Glyndŵr's Way, Cefnllys-uchaf (plus photomontages)
Figure 4.17	Viewpoint 5: Glyndŵr's Way, minor road east of Neinthirion (plus photomontages)
Figure 4.18	Viewpoint 6: Glyndŵr's Way, Moel Ddolwen (plus photomontages)
Figure 4.19	Viewpoint 7: Dolfach (plus photomontages)
Figure 4.20	Viewpoint 8: Llanbrynmair Village (plus photomontages)
Figure 4.21	Viewpoint 9: Talerddig (plus photomontages)
Figure 4.22	Viewpoint 10: Glyndŵr's Way, Brynaere (plus photomontages)



ure 4.23 ure 4.24 ure 4.25 ure 4.25 ure 4.26 ure 4.27 ure 4.28 ure 4.29 ure 4.30 ure 4.31 ure 4.32 ure 4.33 ure 4.34 ure 4.35 ure 4.36 ure 4.37 ure 4.38a ure 4.29	Viewpoint 11: Llan Village (plus photomontages)Viewpoint 12: A470, north of Carno (plus photomontages)Viewpoint 13: Glyndŵr's Way, Pennyfford (plus photomontages)Viewpoint 14: Bryn y Gadair (plus photomontages)	
ure 4.25 ure 4.26 ure 4.27 ure 4.28 ure 4.28 ure 4.29 ure 4.30 ure 4.30 ure 4.31 ure 4.32 ure 4.33 ure 4.34 ure 4.35 ure 4.36 ure 4.37 ure 4.38a	Viewpoint 13: Glyndŵr's Way, Pennyfford (plus photomontages) Viewpoint 14: Bryn y Gadair (plus photomontages)	
ure 4.26 ure 4.27 ure 4.28 ure 4.29 ure 4.30 ure 4.31 ure 4.32 ure 4.33 ure 4.34 ure 4.35 ure 4.35 ure 4.36 ure 4.37 ure 4.38a	Viewpoint 14: Bryn y Gadair (plus photomontages)	
ure 4.27 ure 4.28 ure 4.29 ure 4.30 ure 4.31 ure 4.32 ure 4.33 ure 4.34 ure 4.35 ure 4.36 ure 4.37 ure 4.38a		
ure 4.28 ure 4.29 ure 4.30 ure 4.31 ure 4.32 ure 4.33 ure 4.34 ure 4.35 ure 4.36 ure 4.37 ure 4.38a		
ure 4.29 ure 4.30 ure 4.31 ure 4.32 ure 4.33 ure 4.34 ure 4.35 ure 4.36 ure 4.37 ure 4.38a	Viewpoint 15: Wynford Vaughan Thomas Memorial (plus photomontages)	
ure 4.30 ure 4.31 ure 4.32 ure 4.33 ure 4.34 ure 4.35 ure 4.36 ure 4.37 ure 4.38a	Viewpoint 16: Foel Dinas in Snowdonia National Park (plus photomontages)	
ure 4.31 ure 4.32 ure 4.33 ure 4.34 ure 4.35 ure 4.36 ure 4.37 ure 4.38a	Viewpoint 17: Minor road near Llanfihangel-yng Ngwynfa (plus photomontages)	
ure 4.32 ure 4.33 ure 4.34 ure 4.35 ure 4.36 ure 4.37 ure 4.38a	Viewpoint 18: Bwlch y Groes, Snowdonia National Park (plus photomontages)	
ure 4.33 ure 4.34 ure 4.35 ure 4.36 ure 4.37 ure 4.38a	Viewpoint 19: Aran Fawddwy in Snowdonia National Park (plus photomontages)	
ure 4.34 ure 4.35 ure 4.36 ure 4.37 ure 4.38a	Viewpoint 20: Plynlimon (plus photomontages)	
ure 4.35 ure 4.36 ure 4.37 ure 4.38a	Viewpoint 21: Cardair Idris, Snowdonia National Park (plus photomontages)	
ure 4.36 ure 4.37 ure 4.38a	Viewpoint 22: Kerry Ridgeway, Two Tumps (plus photomontages)	
ure 4.37 ure 4.38a	Viewpoint 23: Minor road within Nant yr Eira (plus photomontages)	
ure 4.38a	Viewpoint 24: Glyndŵr's Way crossing Pen Coed (plus photomontages)	
	Cumulative Base Plan	
	Cumulative ZTV - Scenario A	
ure 4.38b	Cumulative ZTV - Scenario A within 15km	
ure 4.39a	Cumulative ZTV - Scenario B	
ure 4.39b	Cumulative ZTV - Scenario B within 15km	
ure 4.40	Landscape Character Areas	
Chapter 5 - Ecological Assessment		
ure 5.1a	National Vegetation Classification Regions - A	
ure 5.1b	National Vegetation Classification Regions - B	
ure 5.1c	National Vegetation Classification Regions - C	
ure 5.2	Mammal Survey Area and Results	
ure 5.3	Habitat Management Plan	
apter 6 - Ornithological Assessment		
ure 6.1	Study Areas	
ure 6.2	ZTV Showing Visibility from Selected Vantage Points	
ure 6.3a	Curlew 2005 & 2006	
ure 6.3b		

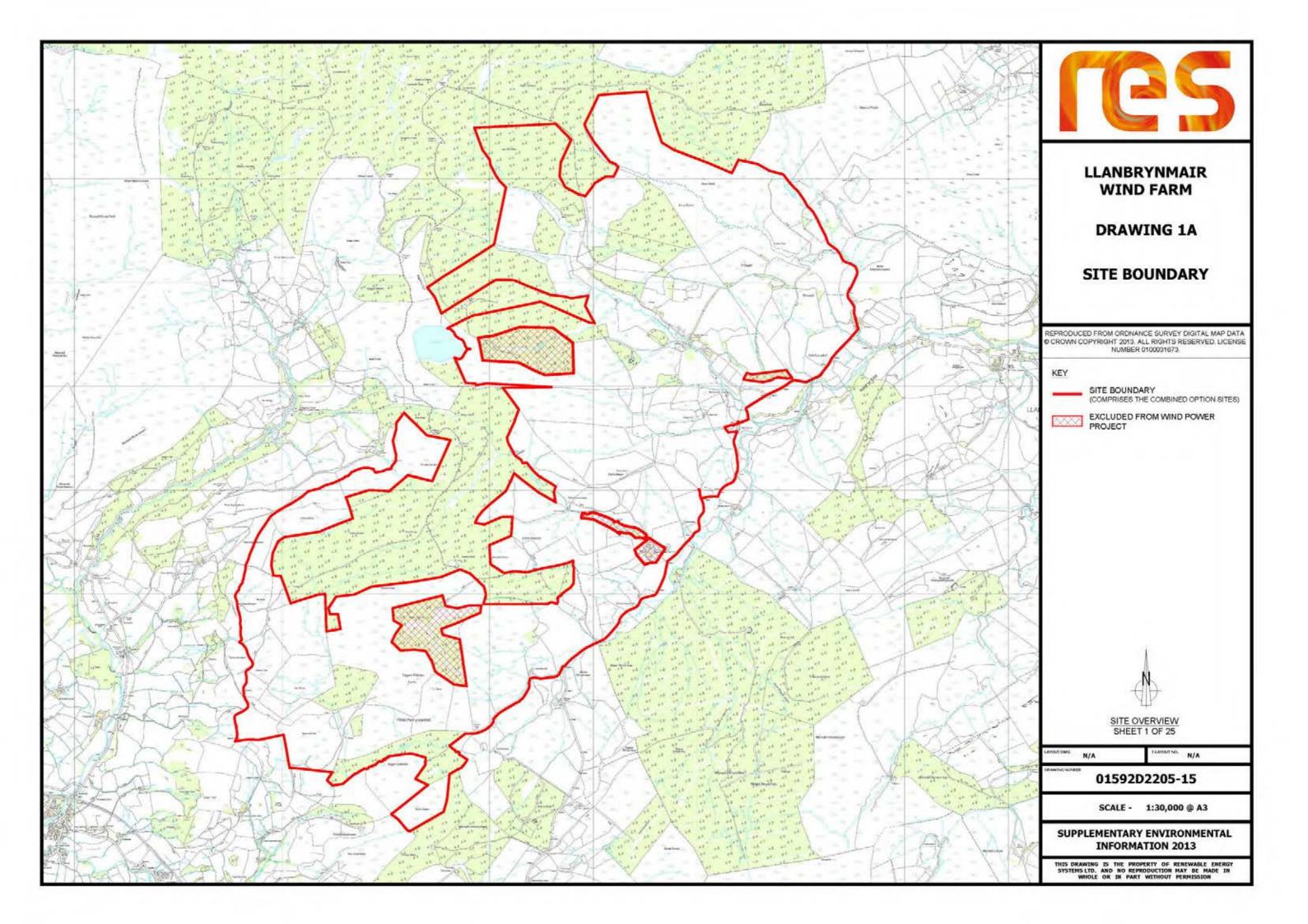


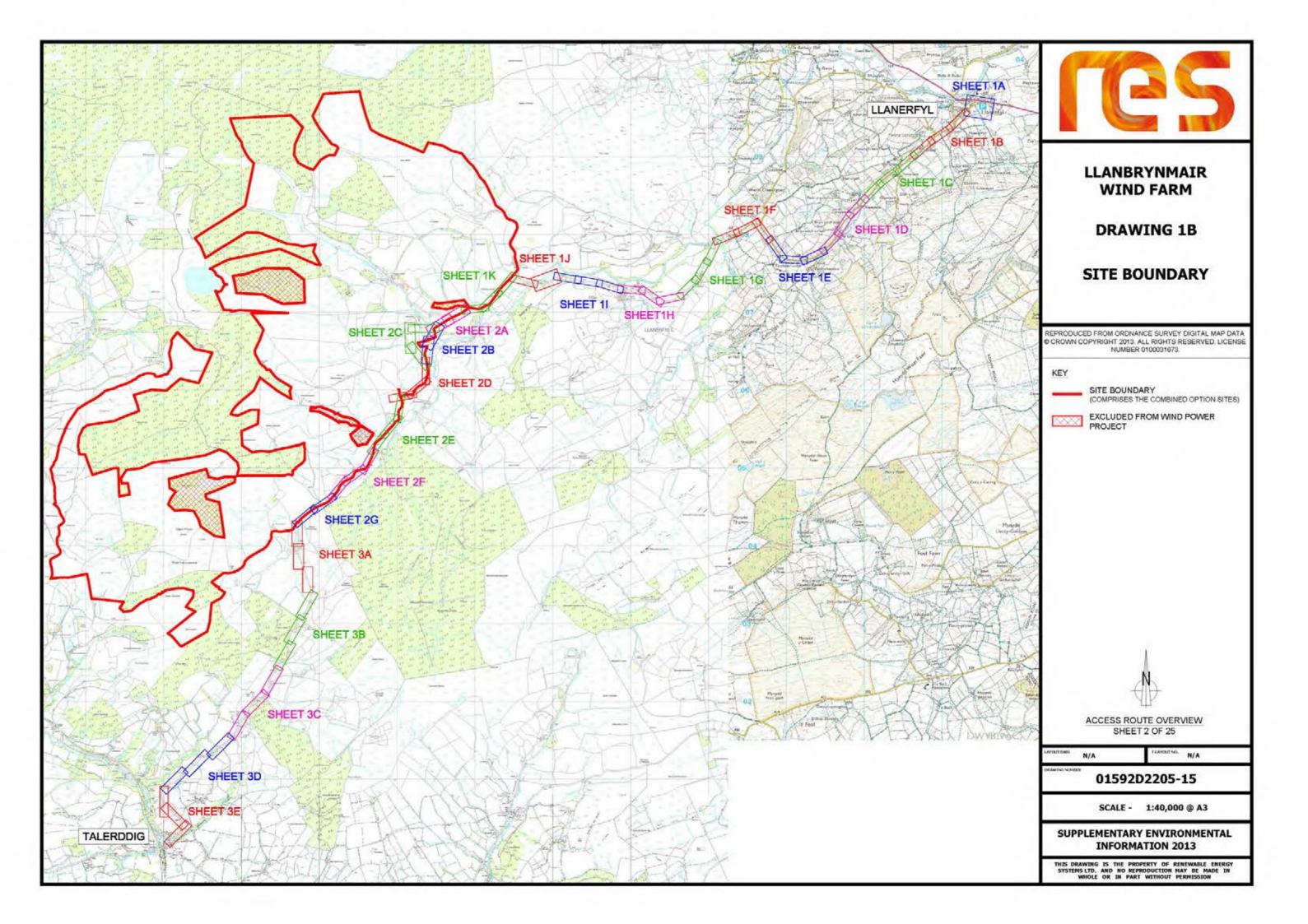
Drawing / Figure Number	Drawing / Figure Name	
Figure 6.3c	Curlew 2012	
Figure 6.3d	Curlew 2013	
Figure 6.4	Black Grouse	
Figure 6.5	Golden Plover	
Figure 6.6	Crossbill	
Figure 6.7	Skylark	
Figure 6.8	Dunnock	
Figure 6.9a	Other Species 2005	
Figure 6.9b	Other Species 2006	
Chapter 7 - Cultural Heritage Assessment		
Figure 7.1	Historic Assets within Site Boundary	
Figure 7.2	Designated Historic Assets within 5km of a Wind Turbine	
Figure 7.3	Selected Designated Historic Assets within 5 - 10km of a Wind Turbine	
Figure 7.4	Historic Assets within Site Boundary in Relation to the Proposed Layout	
Figure 7.5	Designated Historic Assets up to 5km in Relation to their ZTV	
Figure 7.6	Selected Designated Historic Assets 5 - 10km in Relation to their ZTV	
Figure 7.7a	Heritage Assets in Relation to Offsite Highway Works North (Llanerfyl)	
Figure 7.7b	Heritage Assets in Relation to Offsite Highway Works South (Talerddig)	
Chapter 8 - Geology, Hydrology and Hydrogeology		
Figure 8.1	Water Features Map	
Figure 8.2 - A	Maximum Peat Depth Contour Plan	
Figure 8.2 - B	Maximum Peat Depth Contour Plan	
Figure 8.2 - C	Maximum Peat Depth Contour Plan	
Figure 8.3	Interpreted Ground Water Level	
Figure 8.4	Cross Section of Soligenous Fen	
Chapter 9 - Acoustic Assessment	See Appendix 9.1	
Chapter 10 - Transportation and Access	See Appendix 10.1 - A	
Chapter 11 - Other Issues	No Figures	
Chapter 12 - Socio-Economic Assessment		
Figure 12.1	Rights of Way Improvements	
Chapter 13 - Mitigation Summary	No Figures	

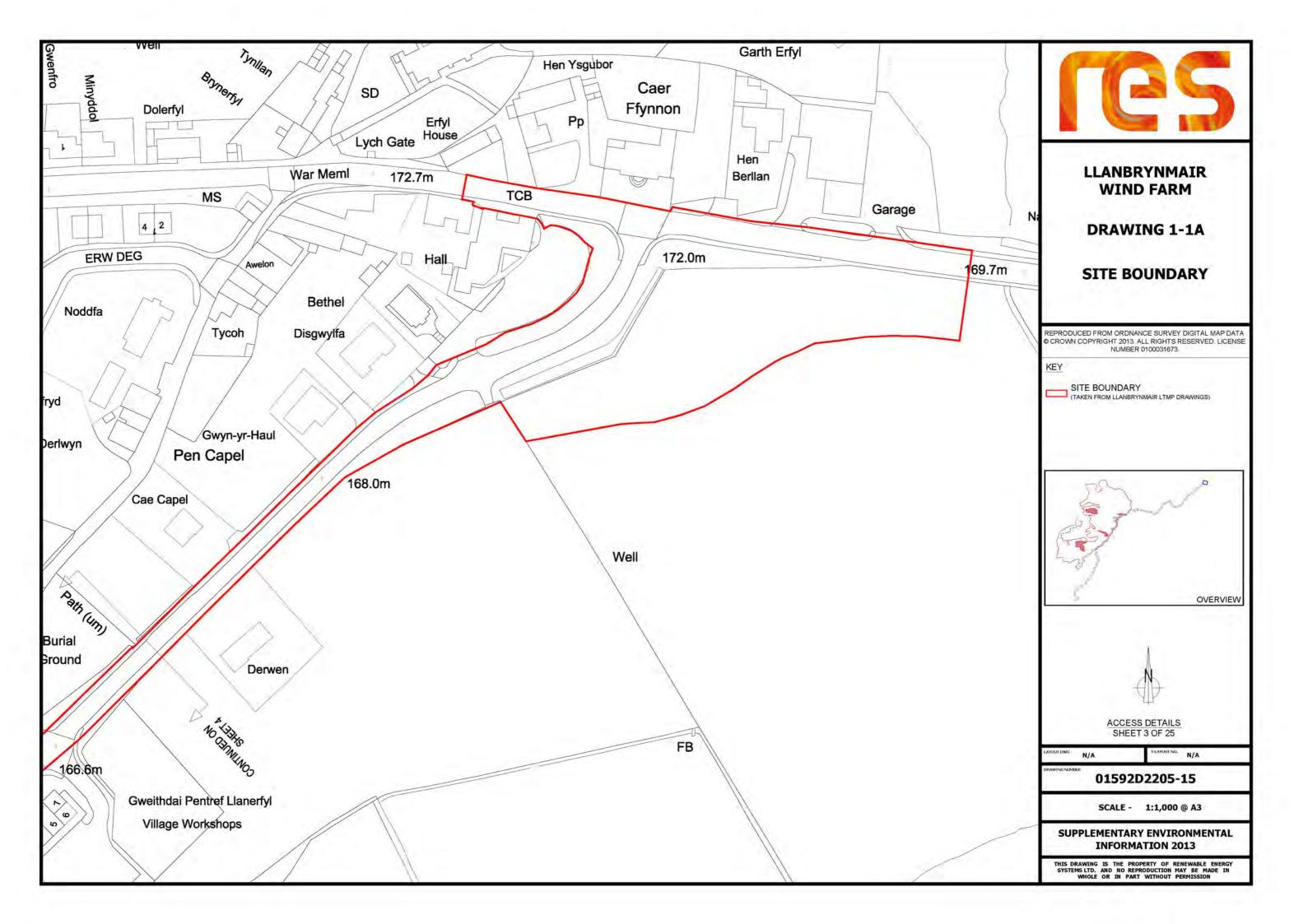


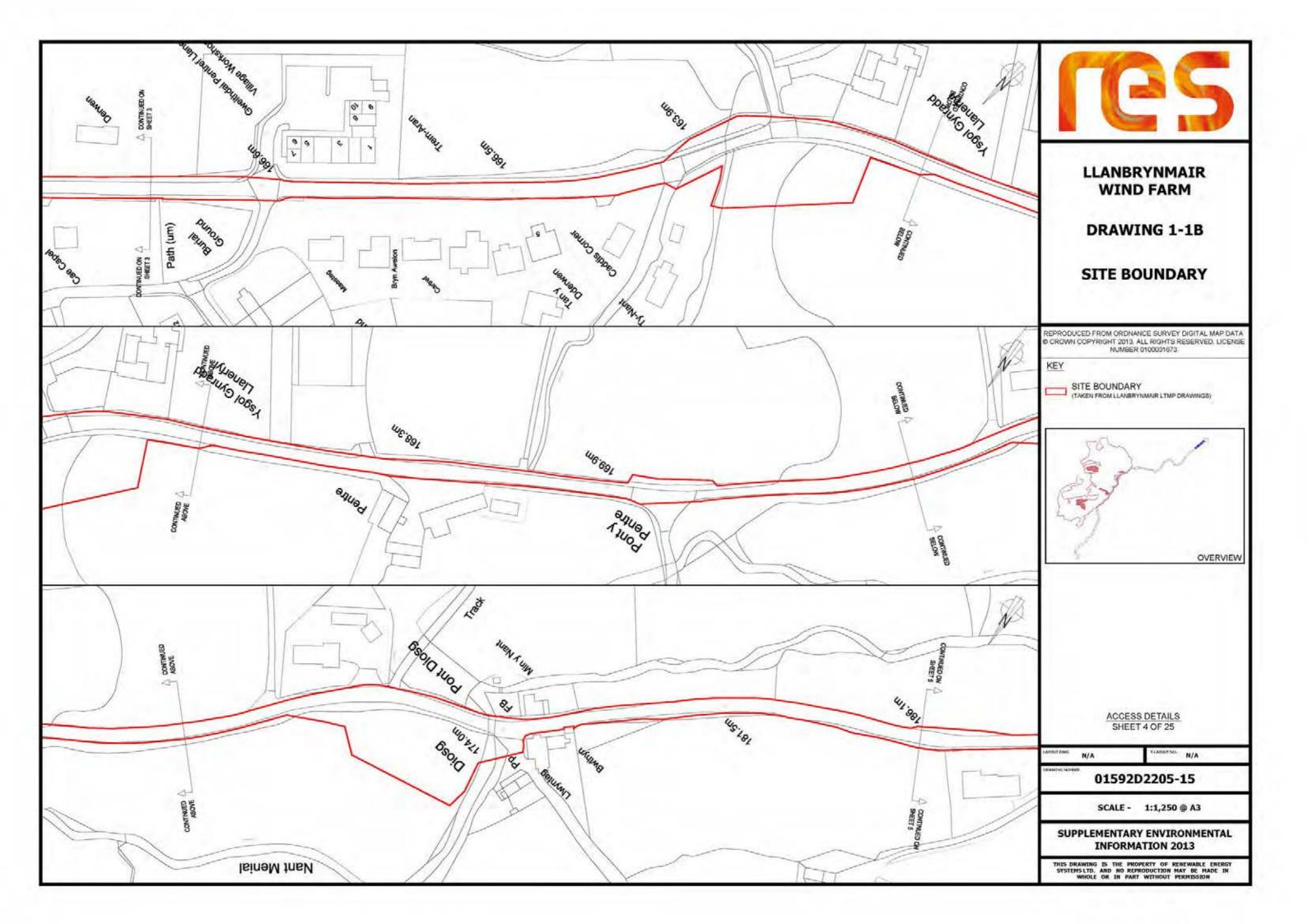
**RED LINE BOUNDARY DRAWINGS** 

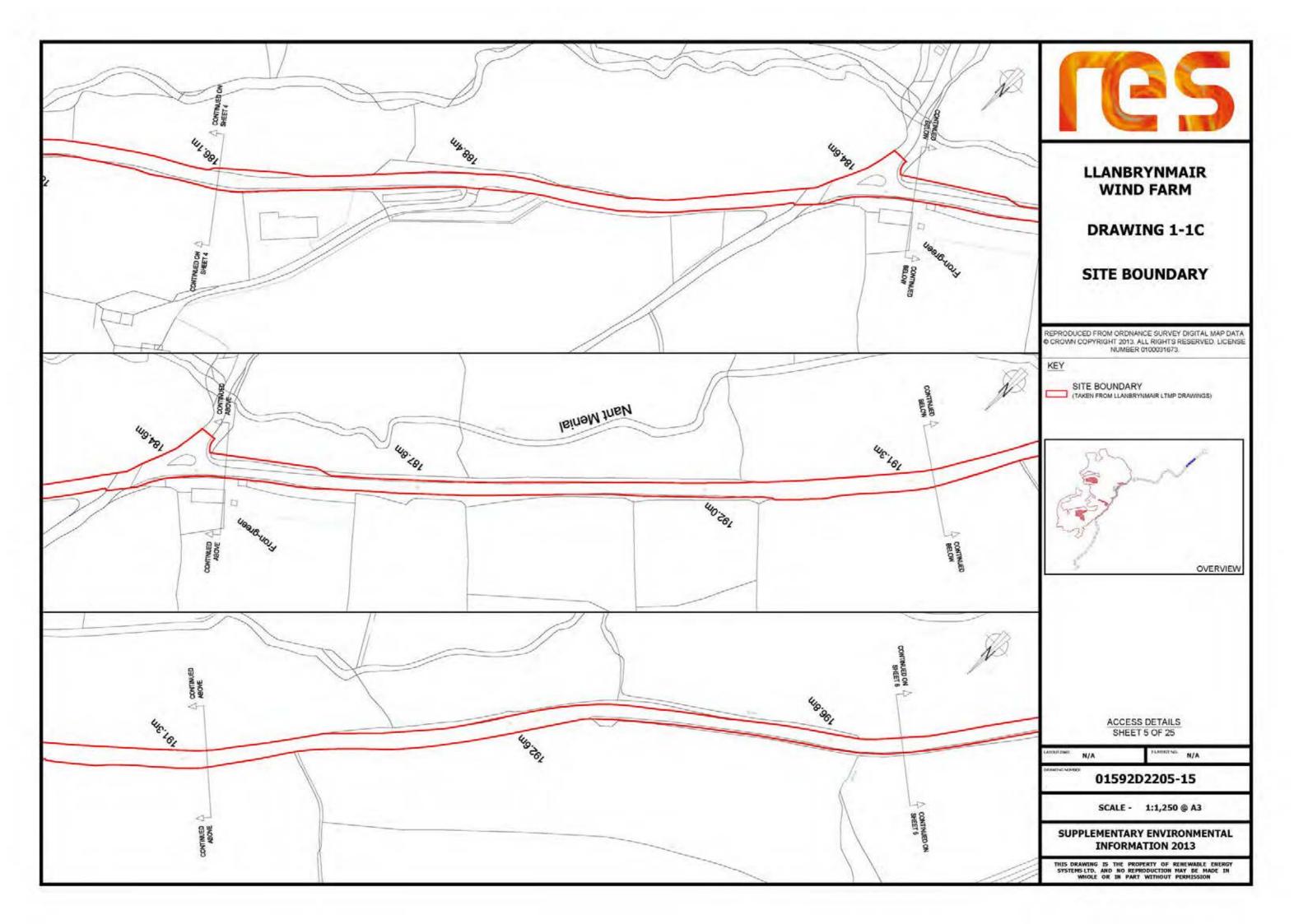


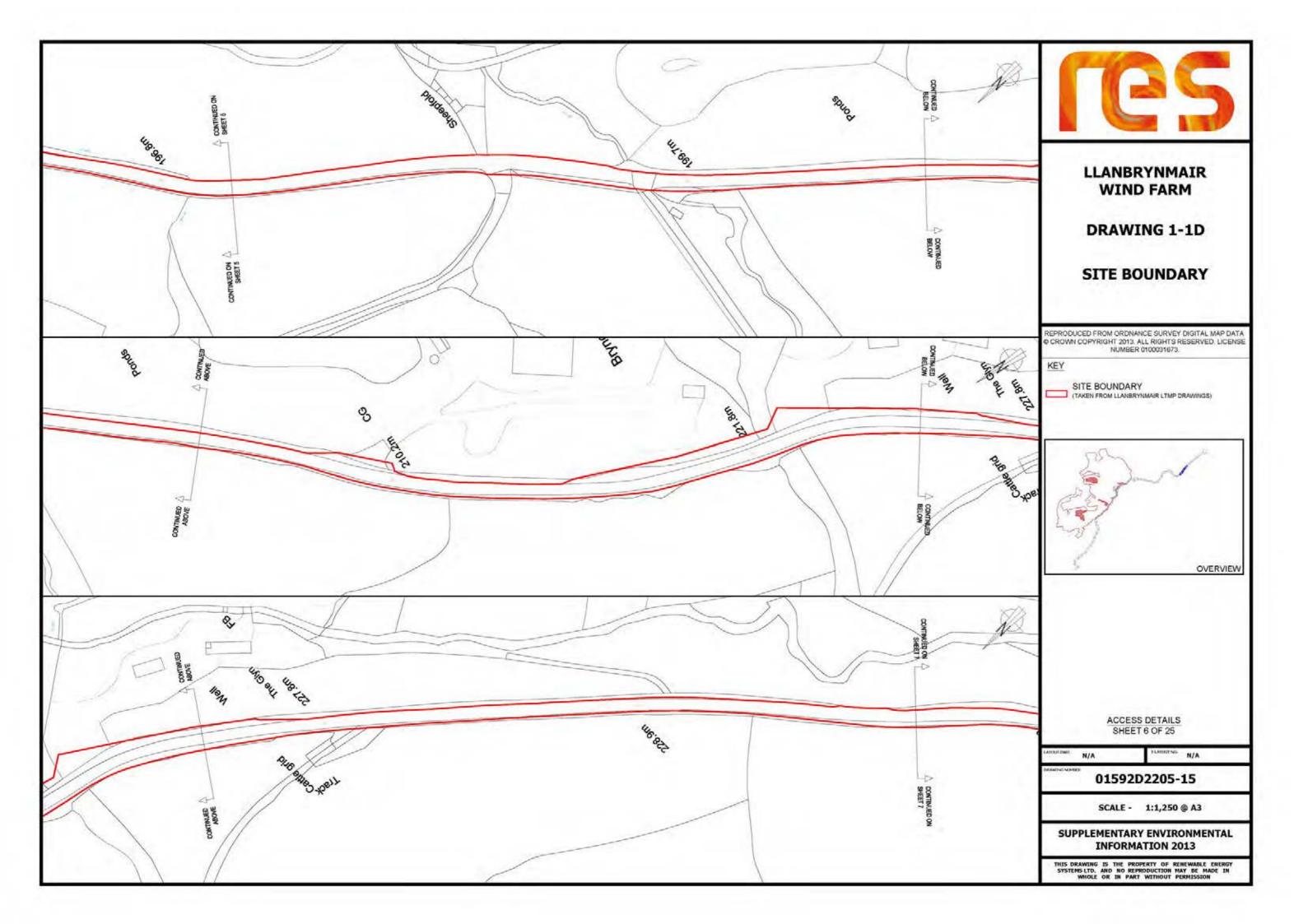


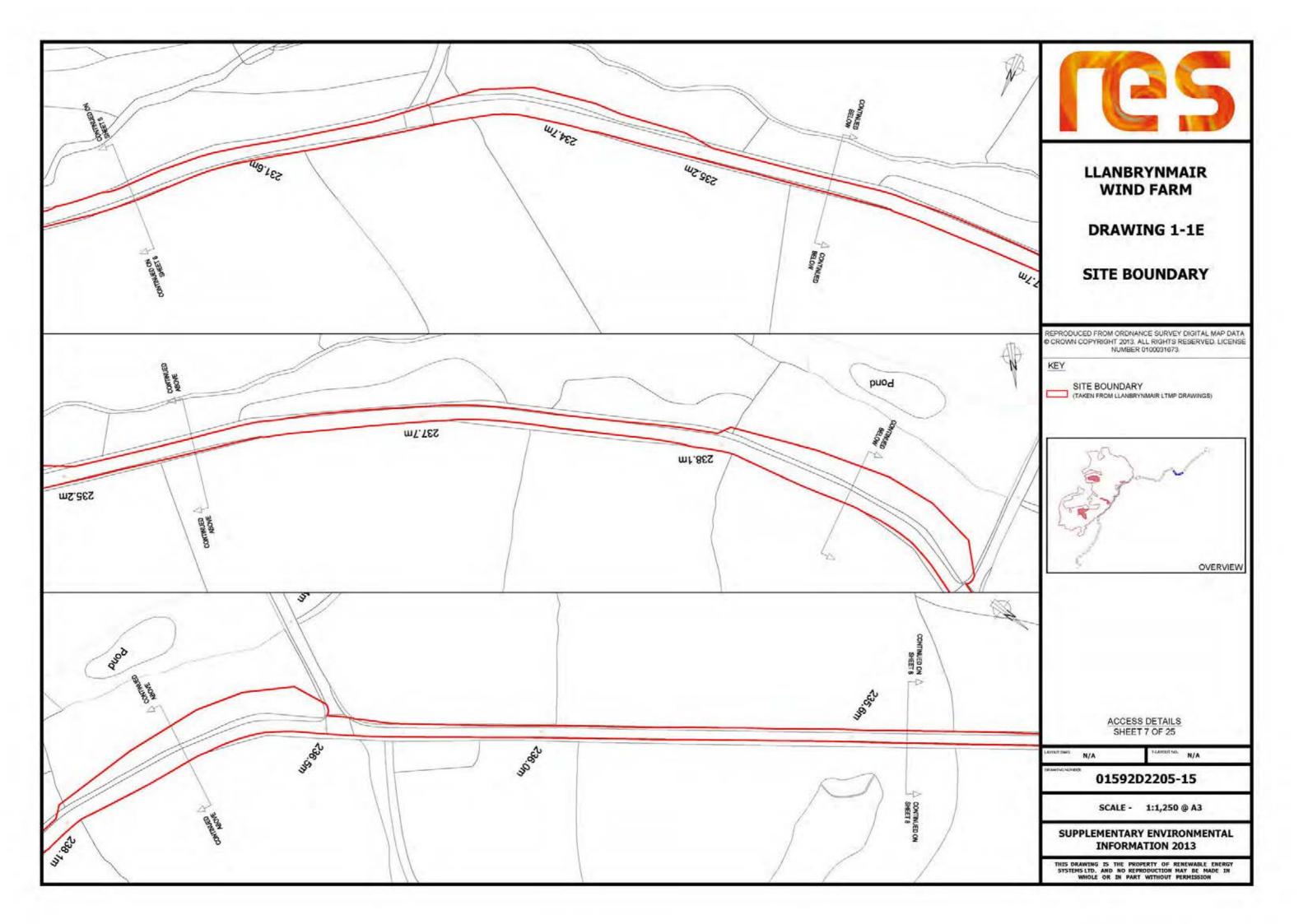


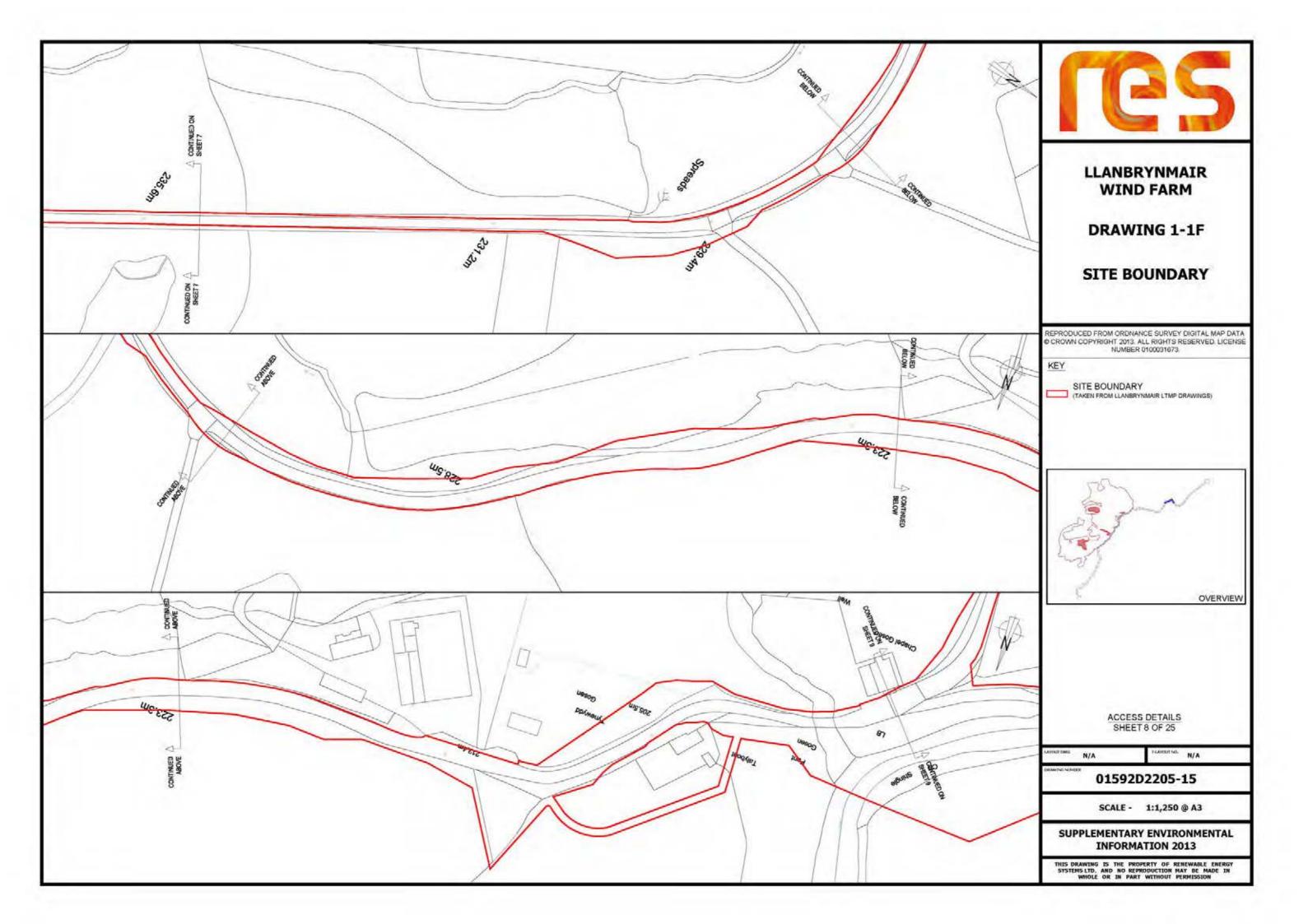


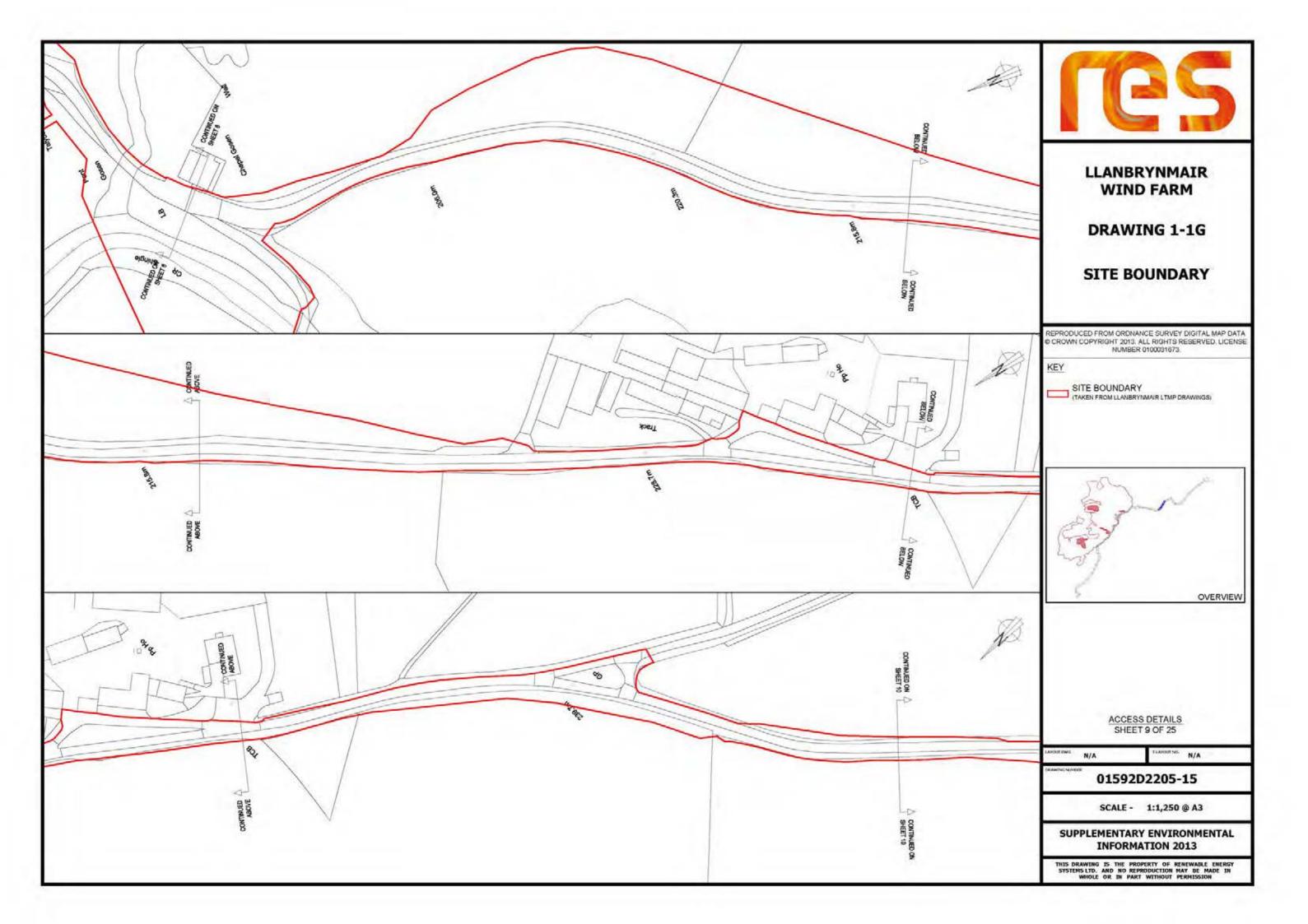


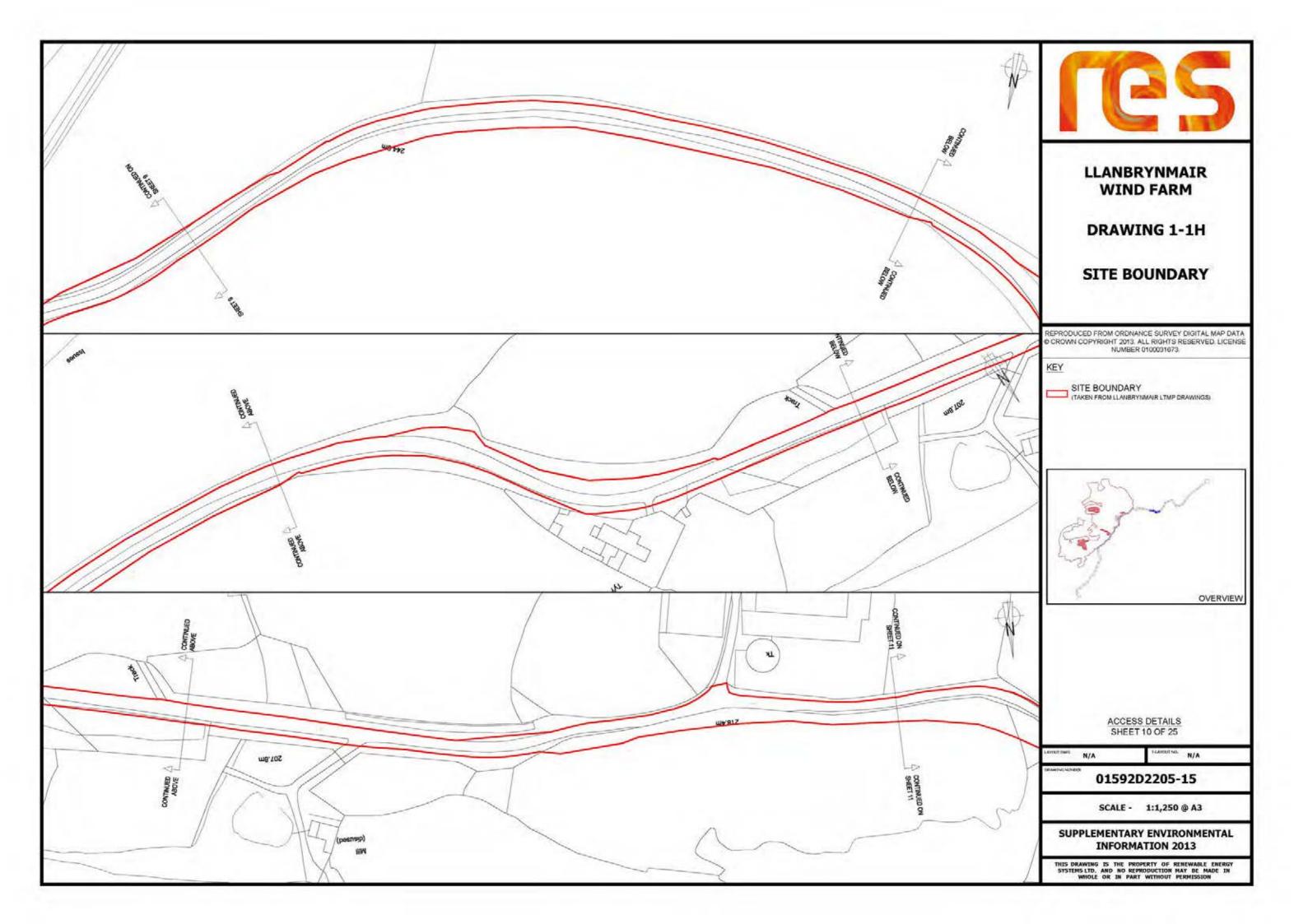


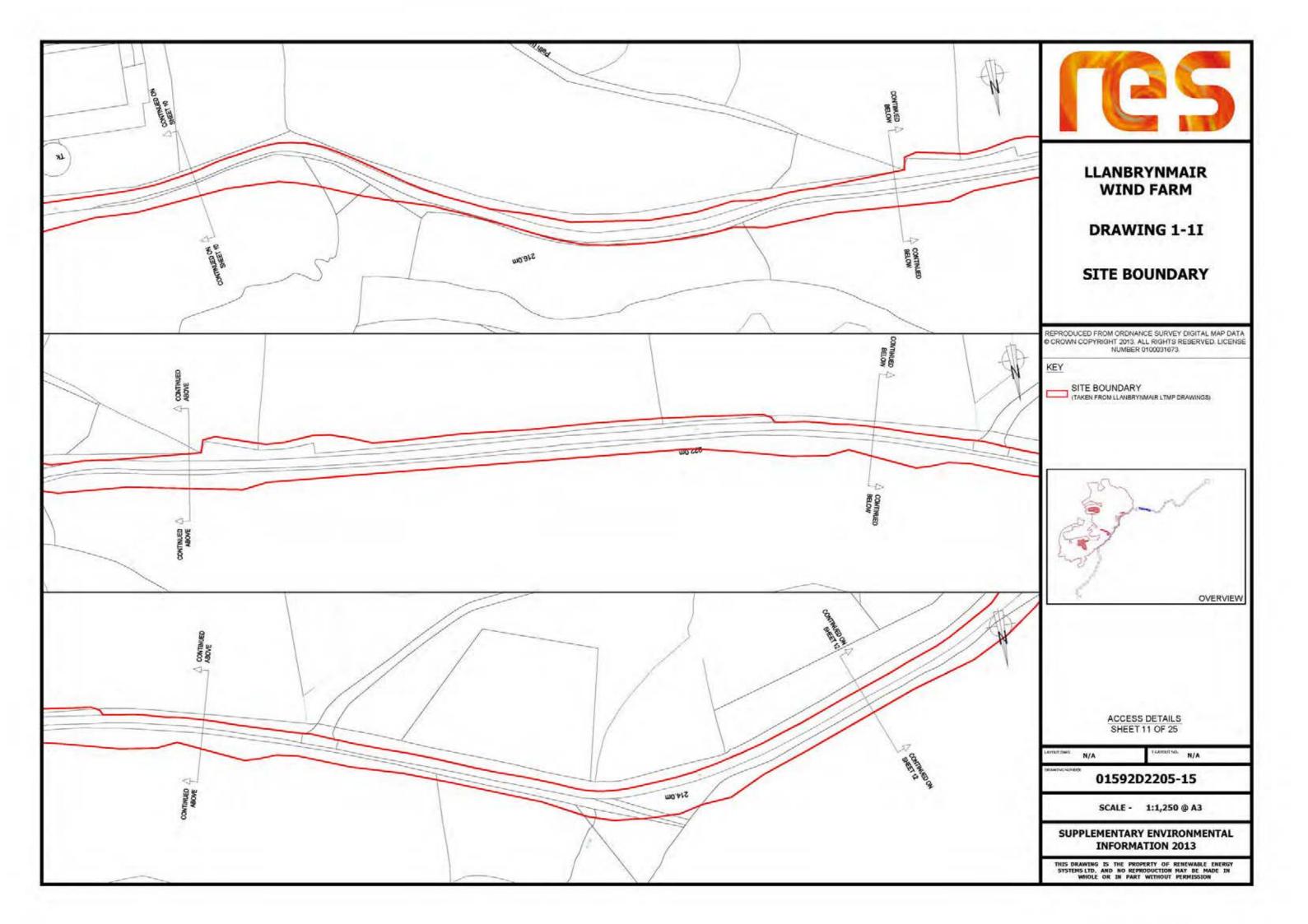


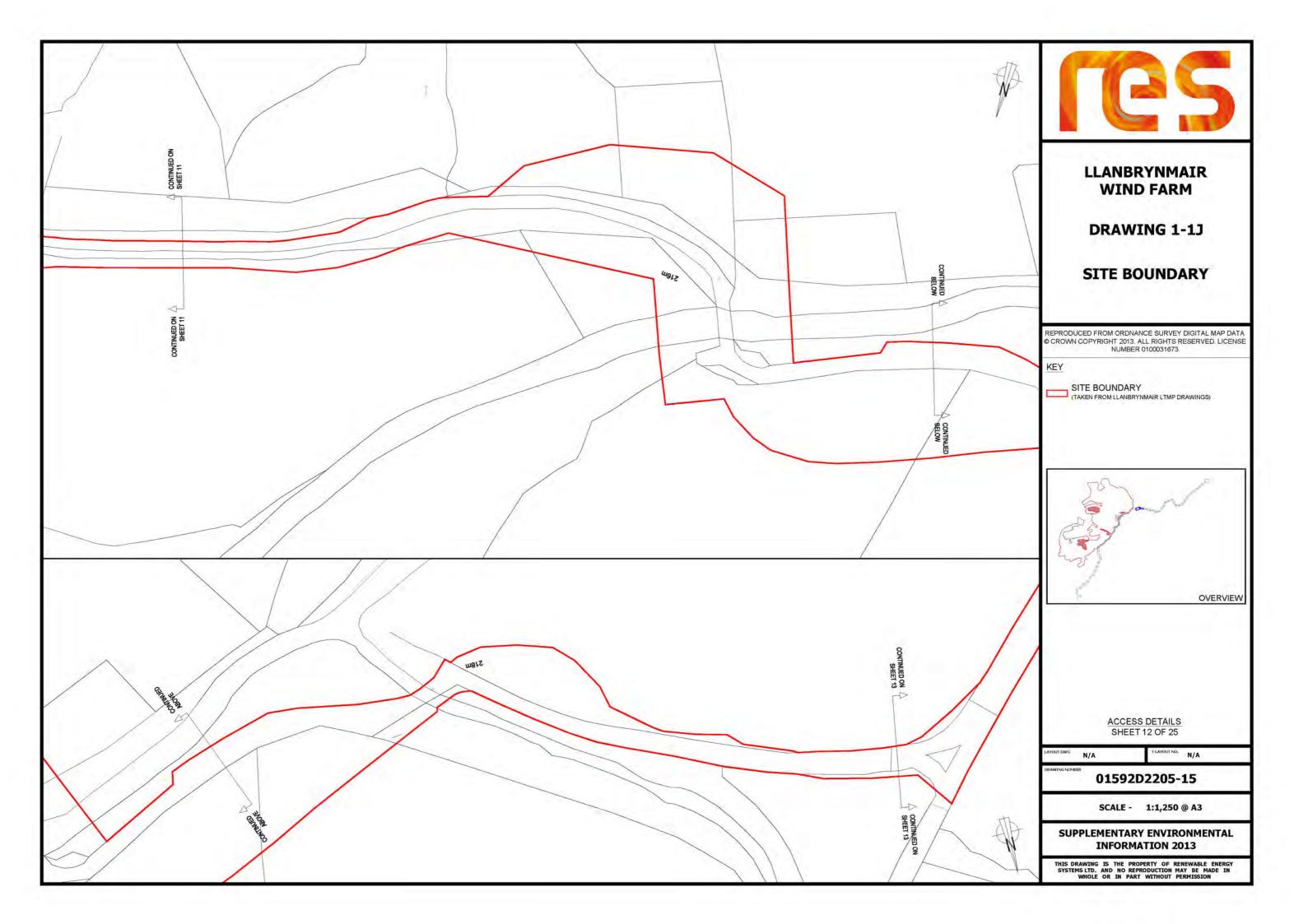


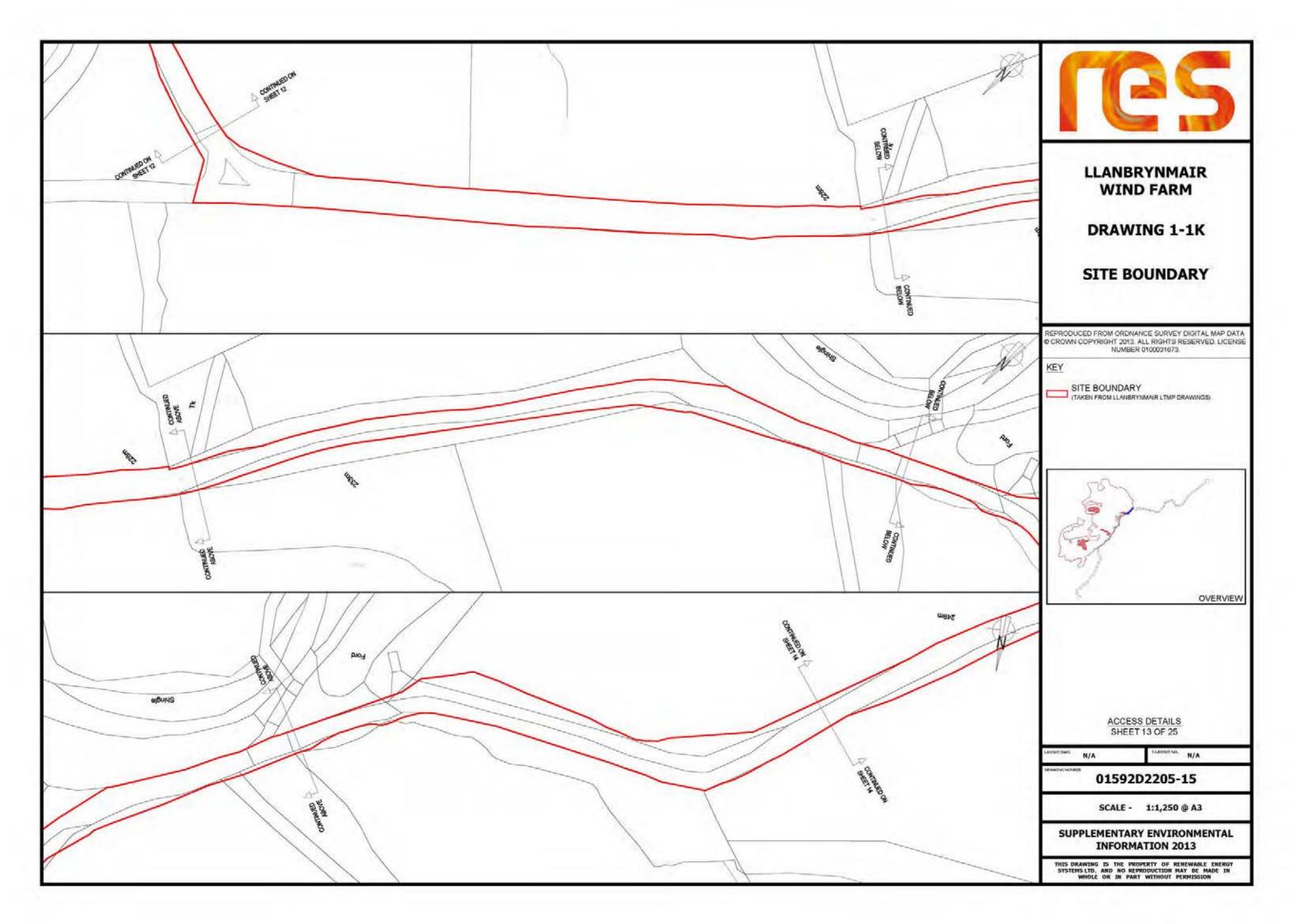


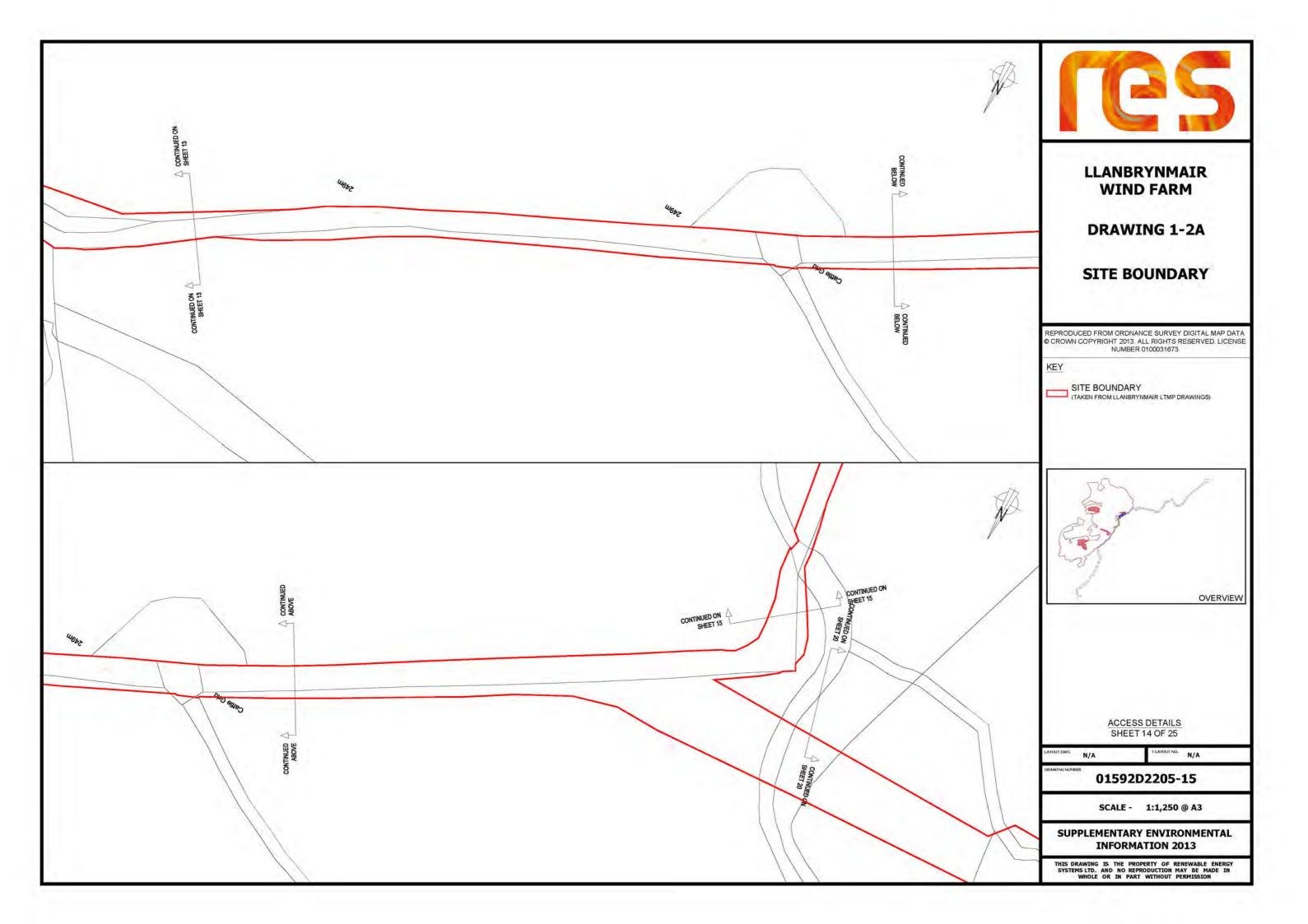


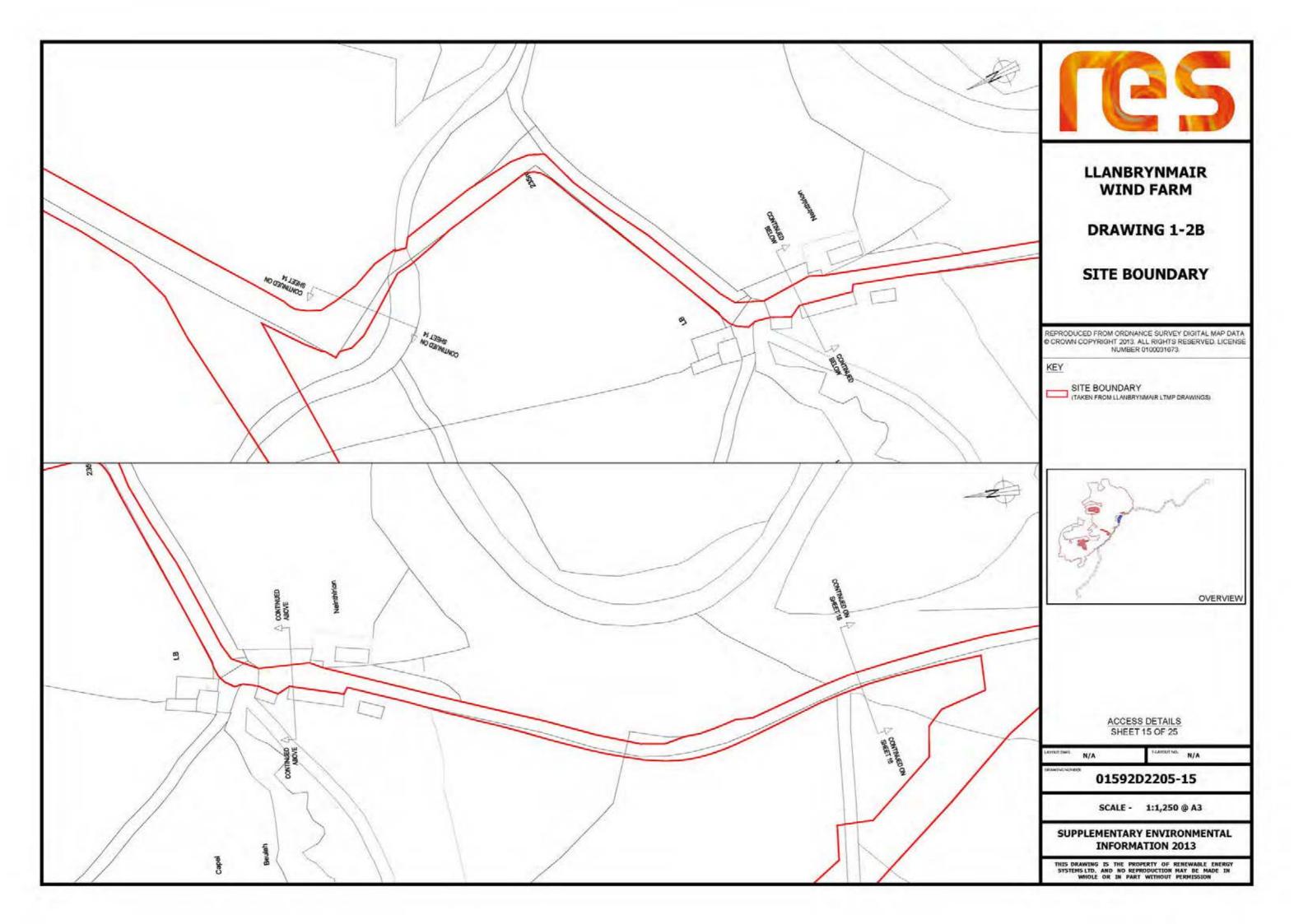


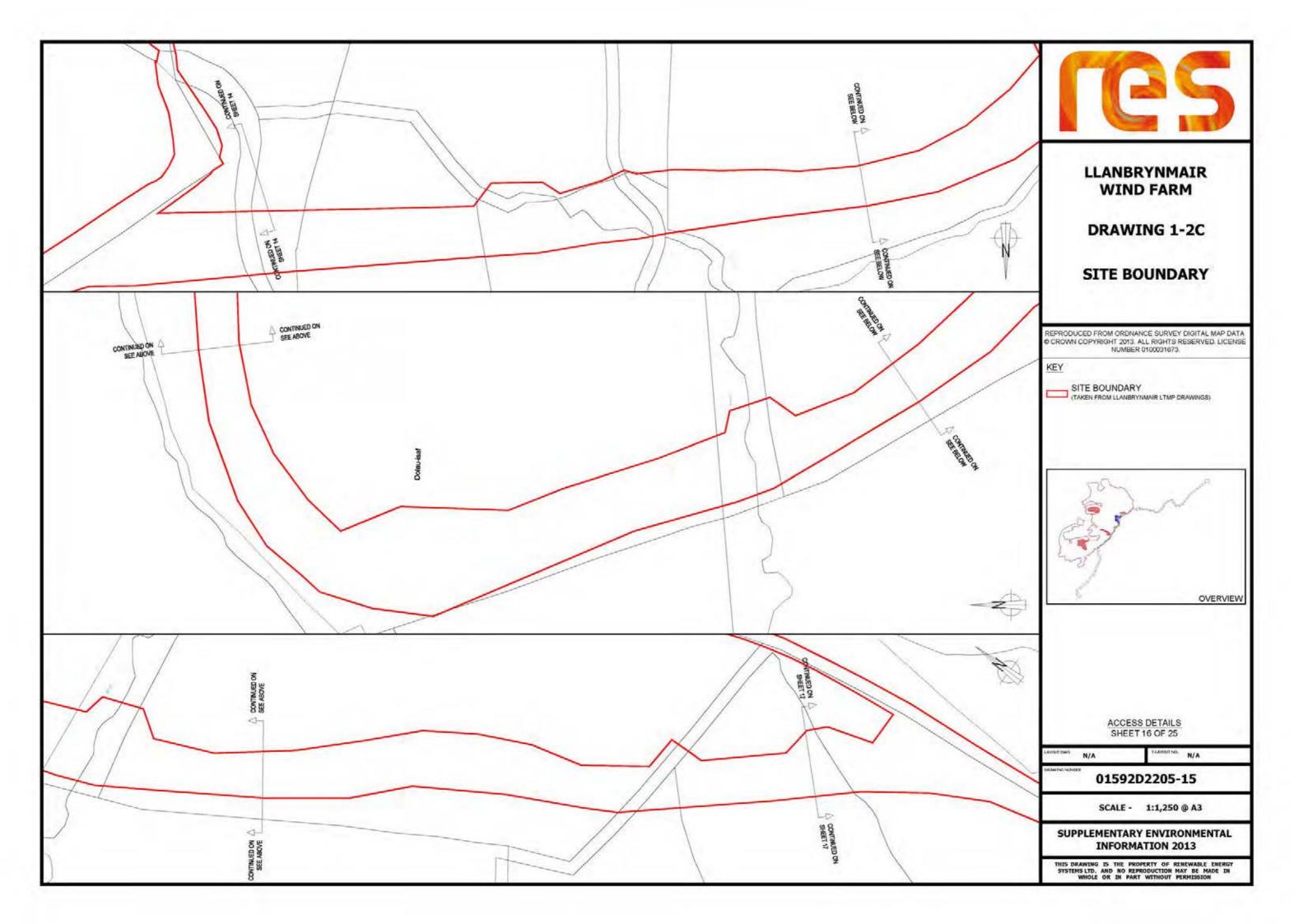


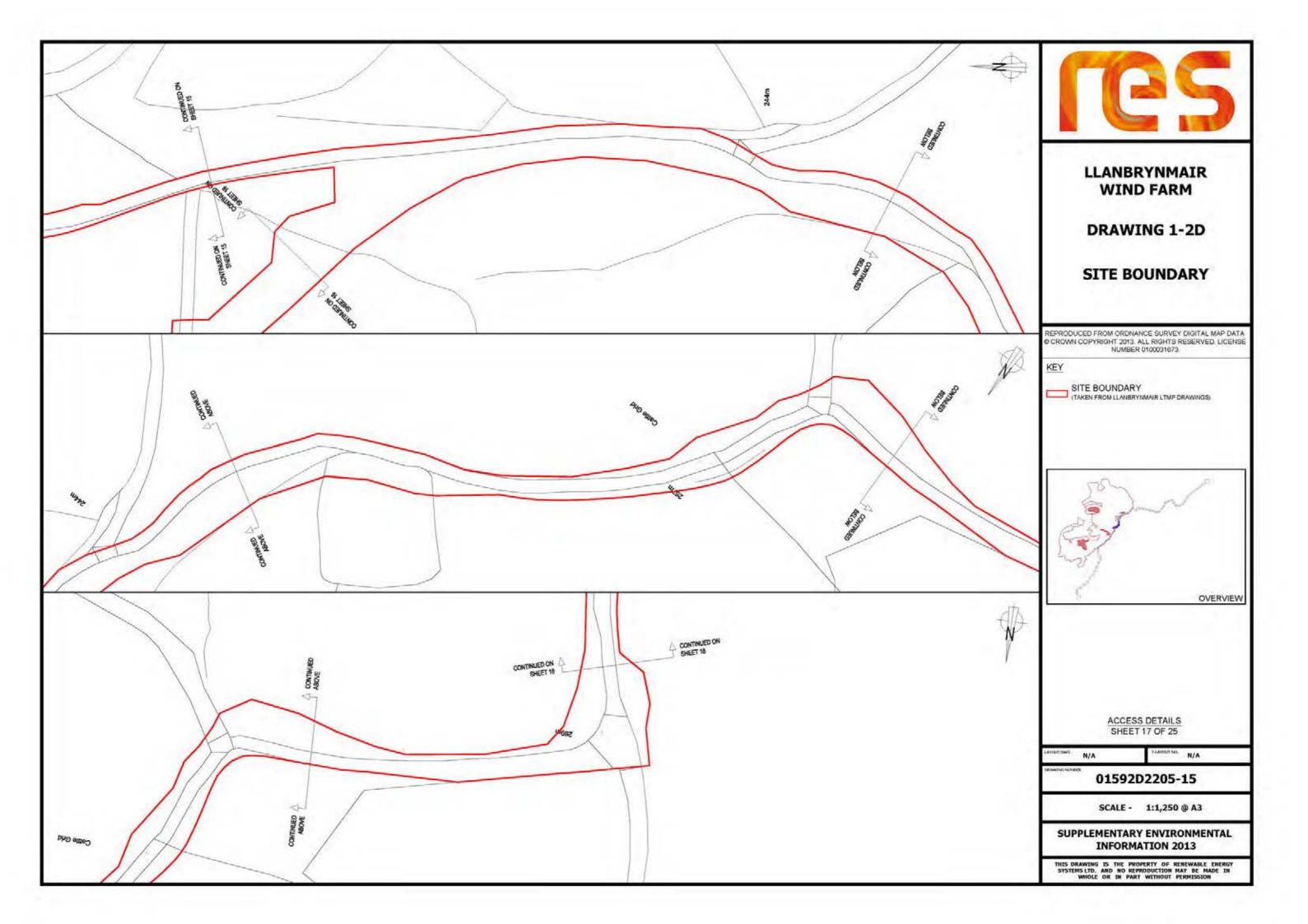


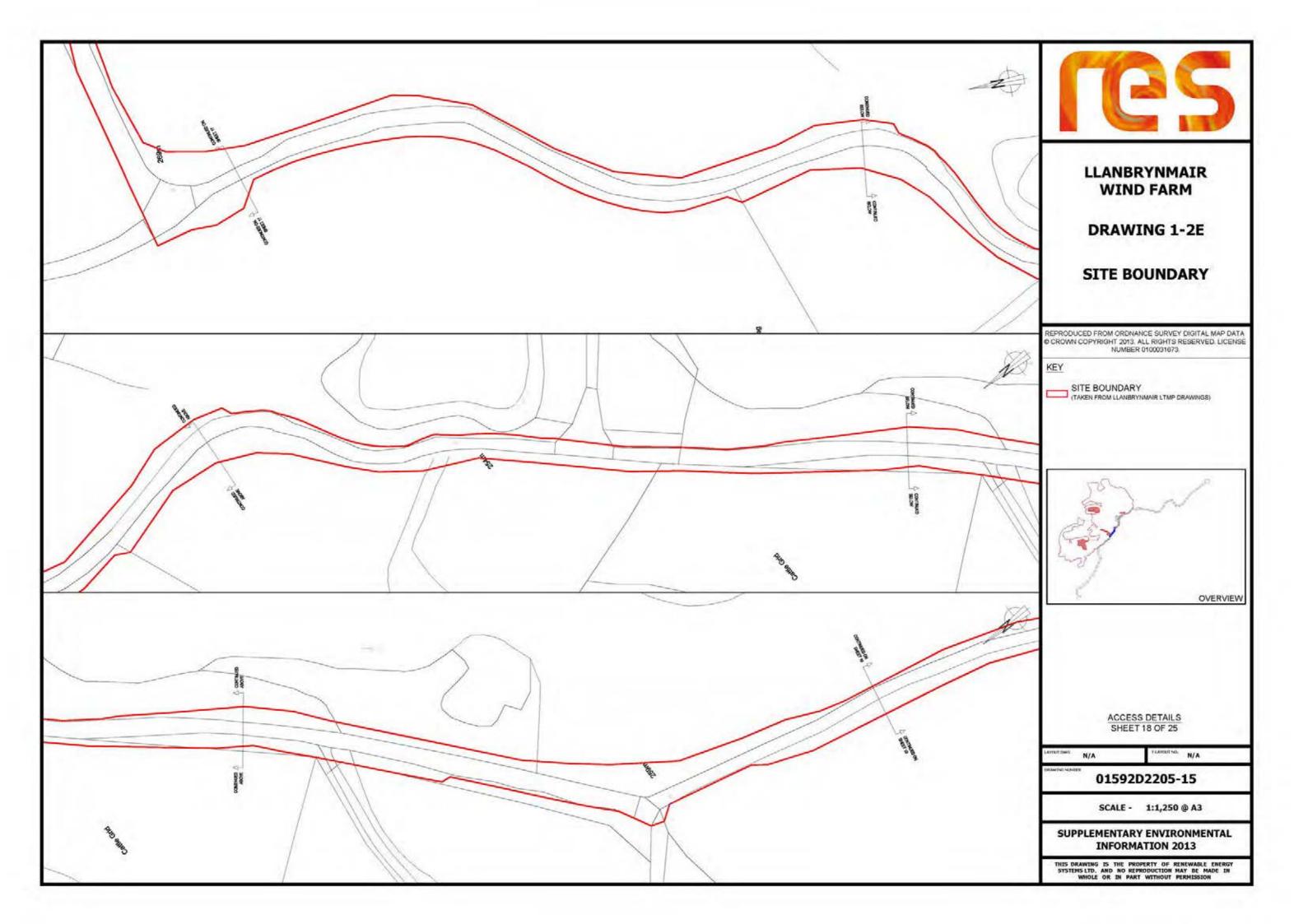


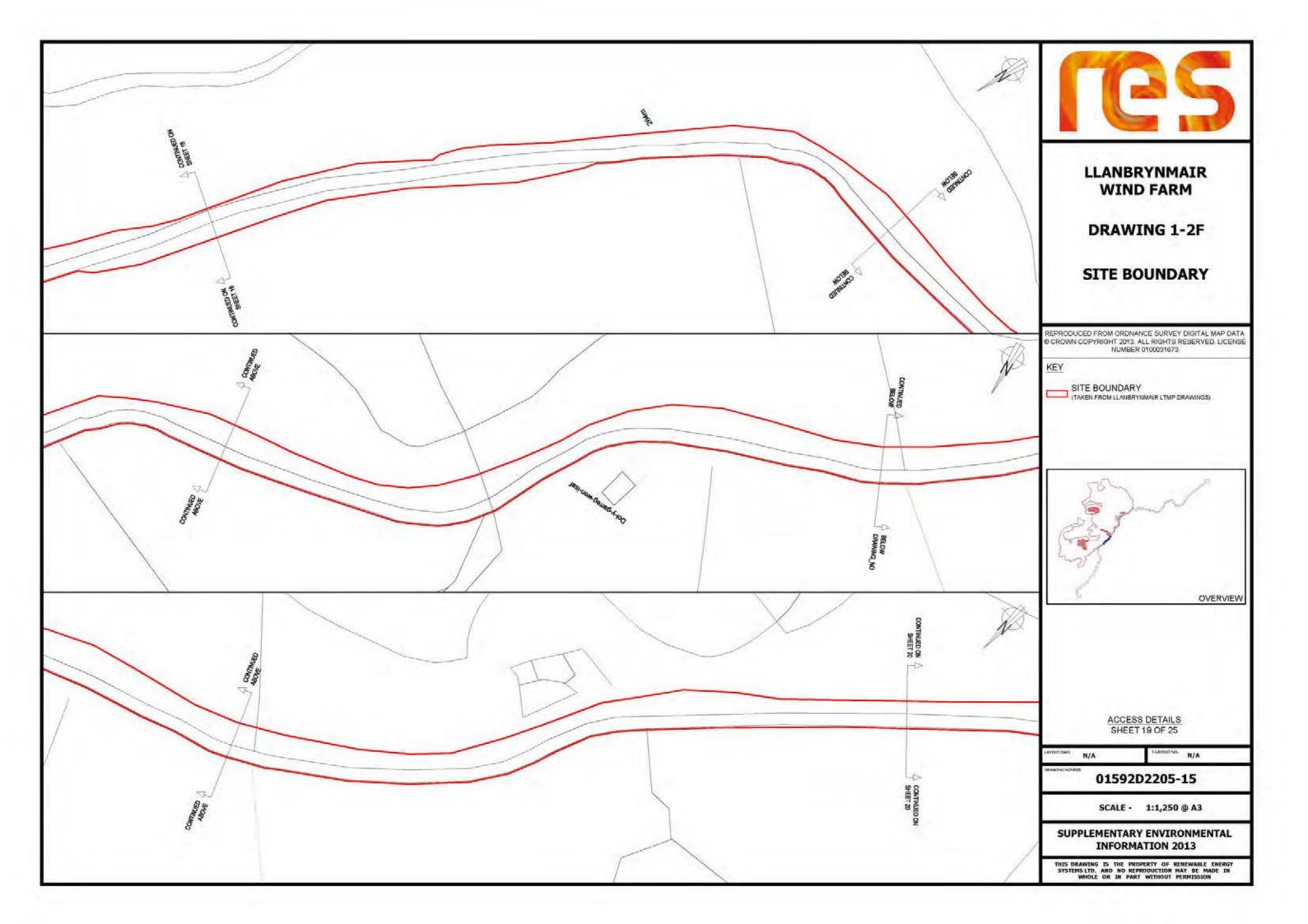


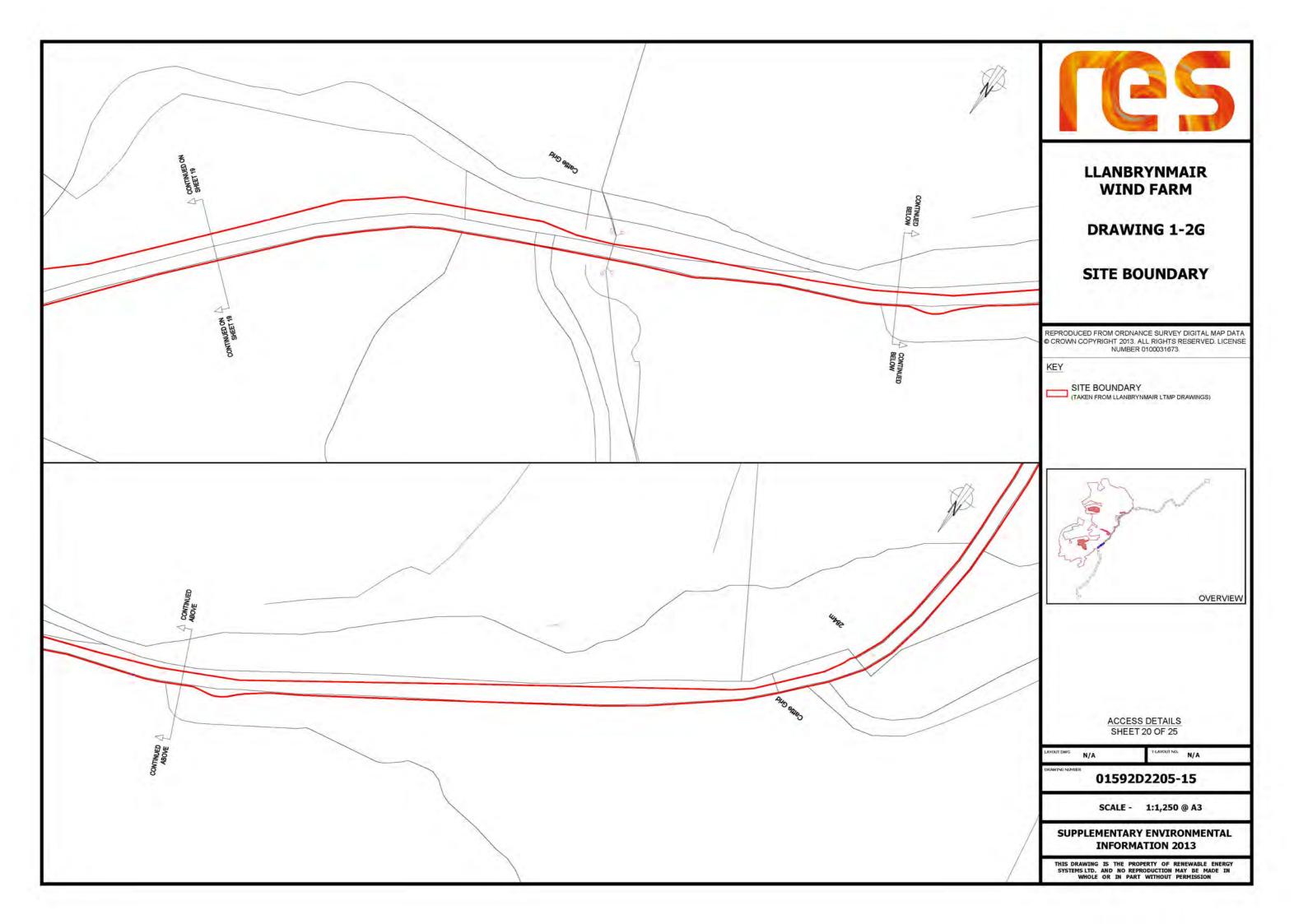


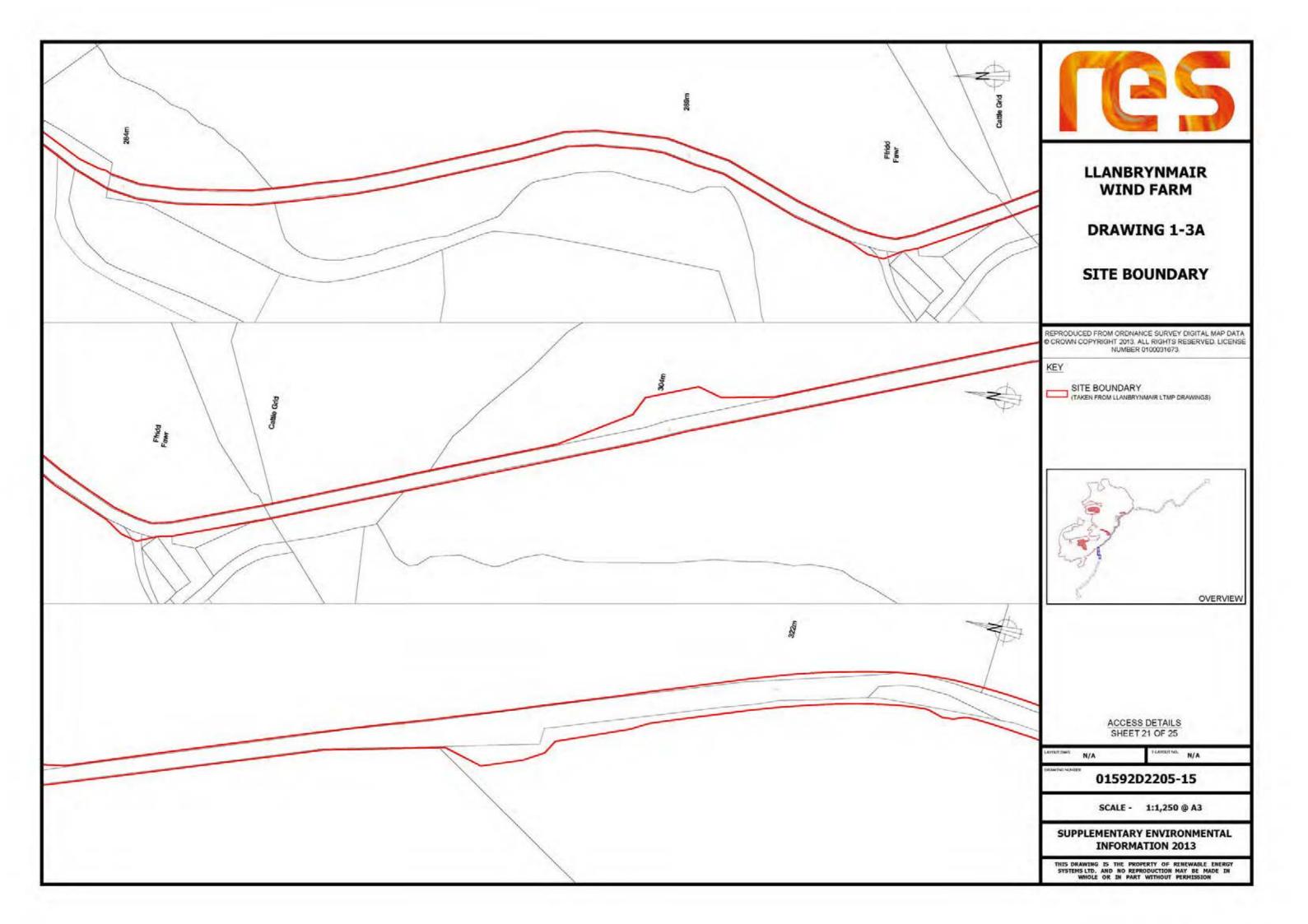


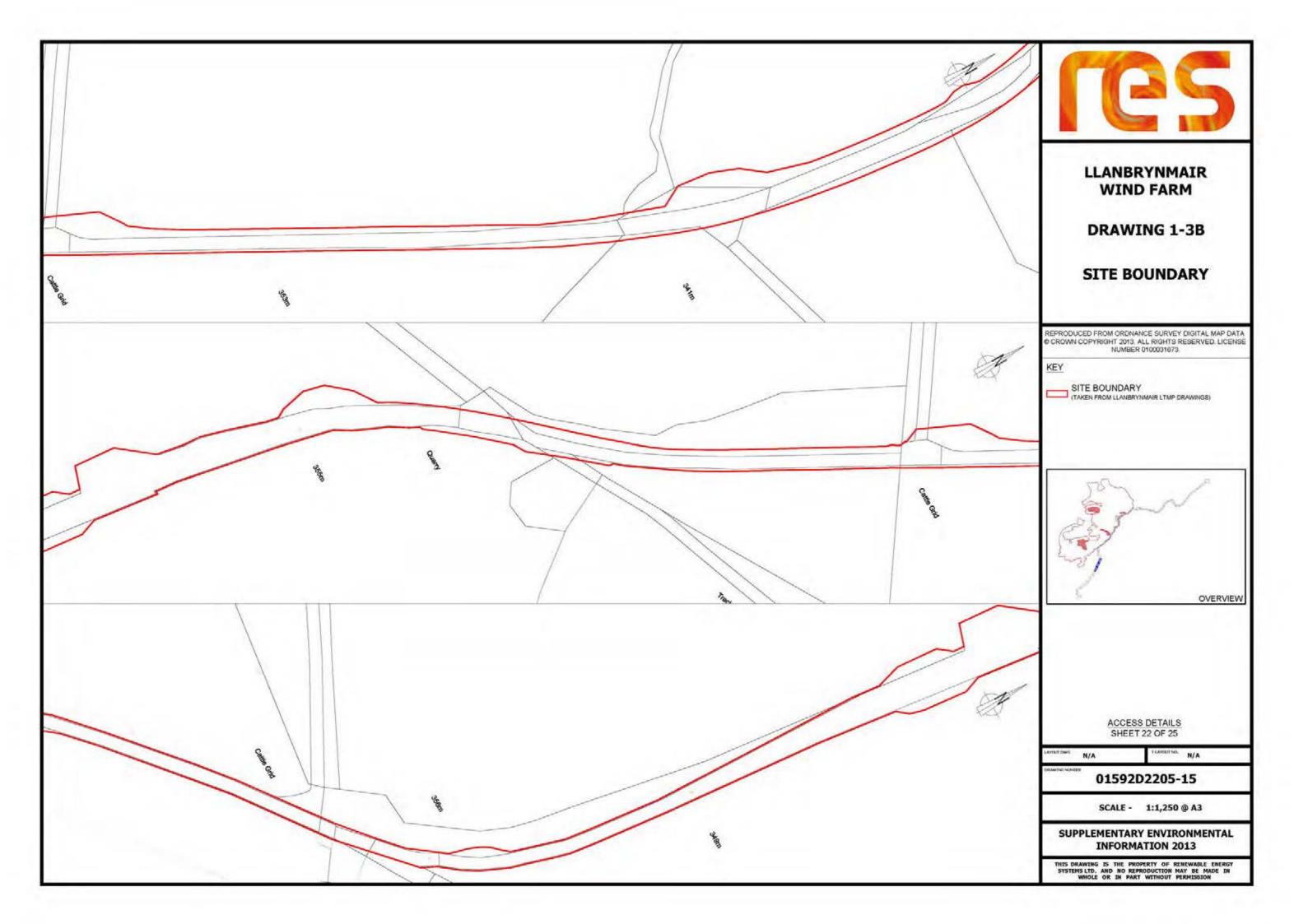


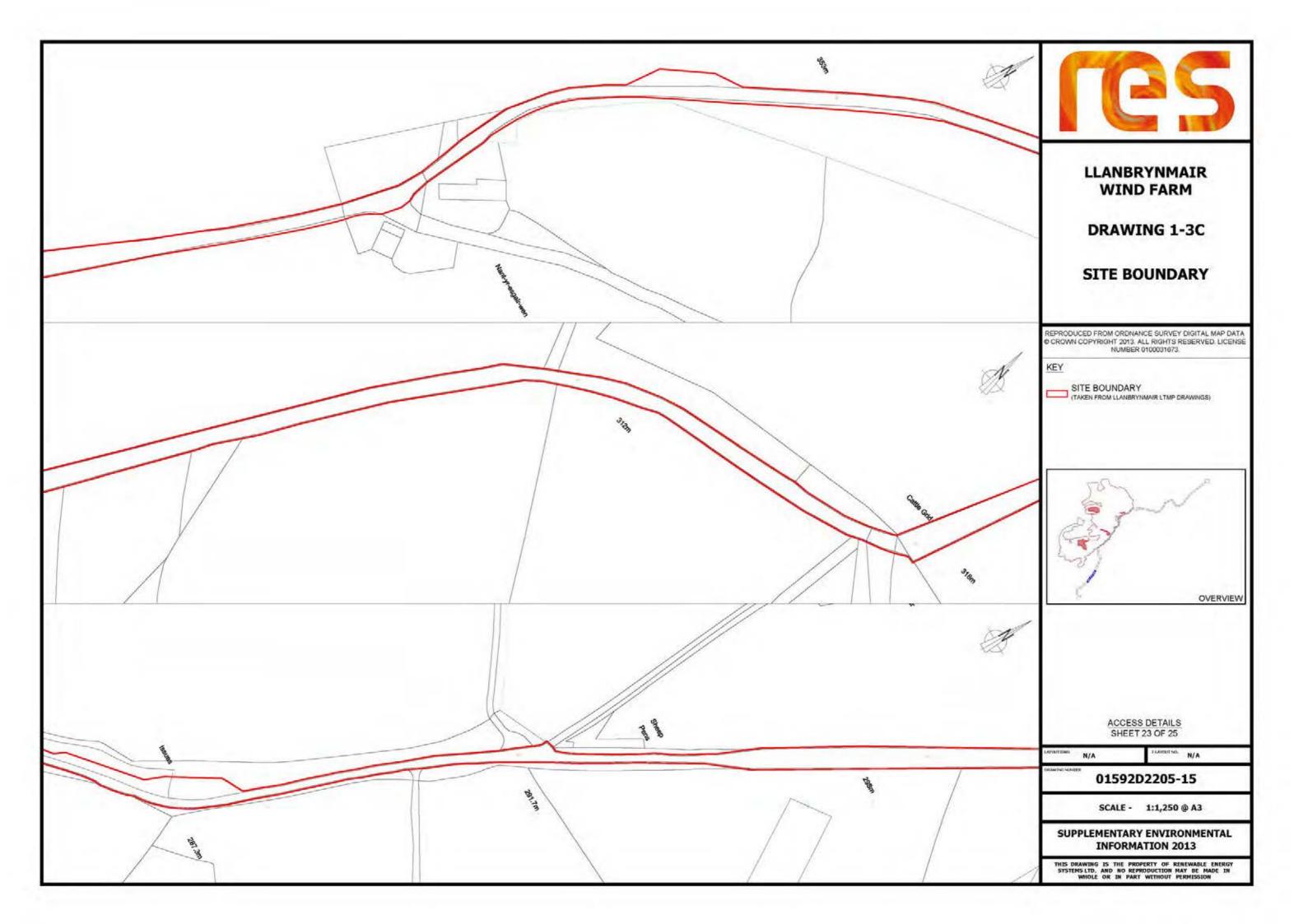


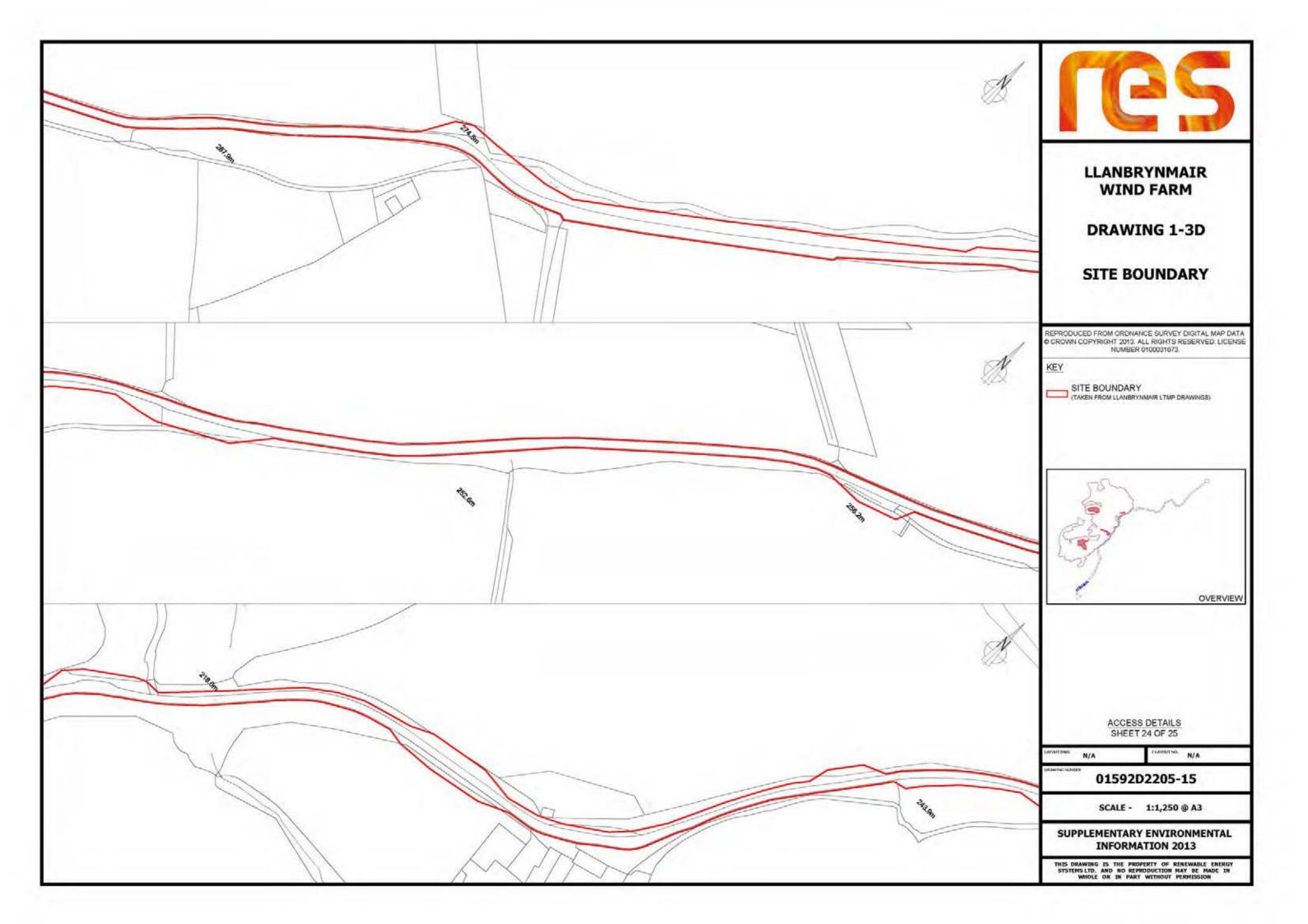


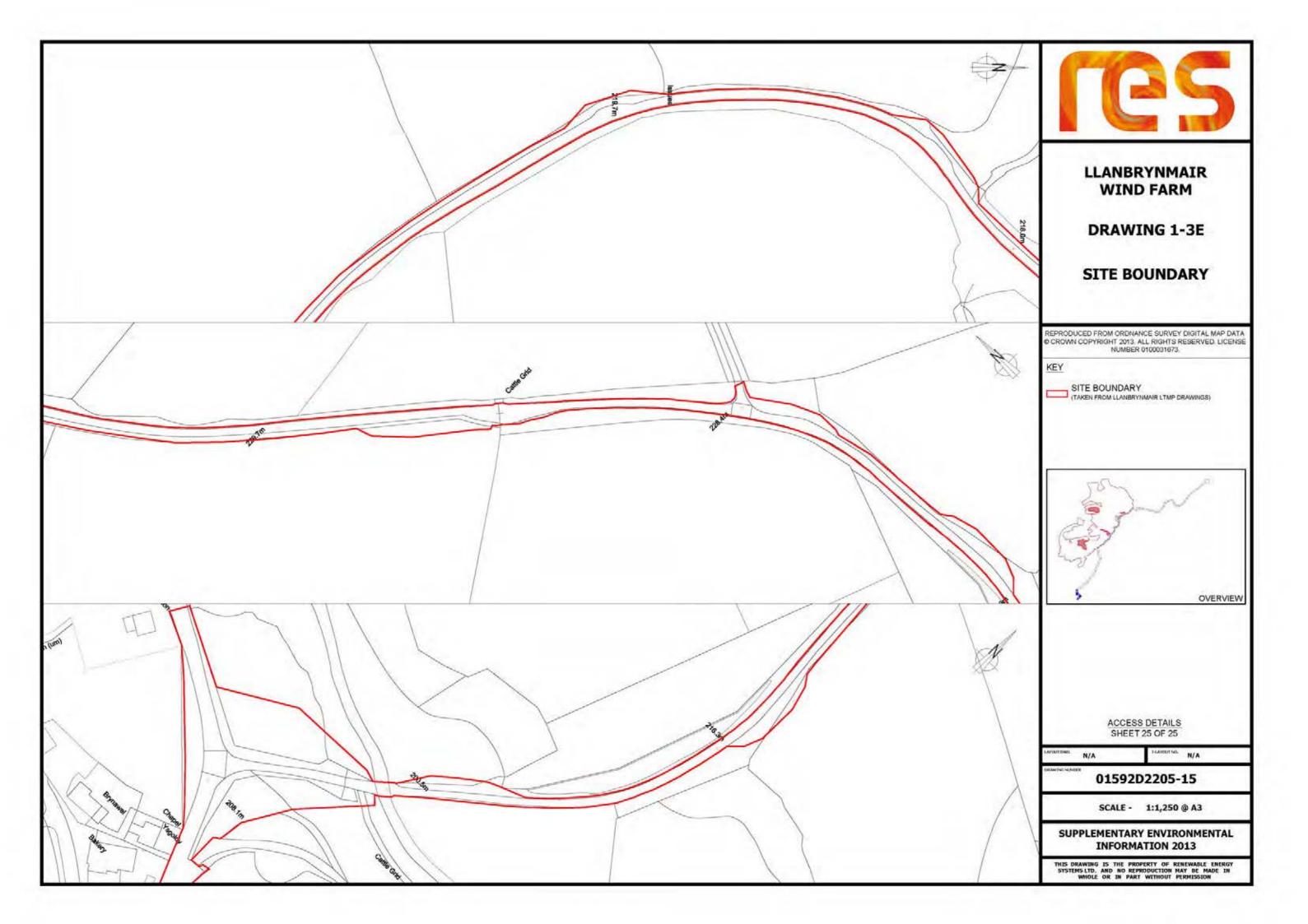






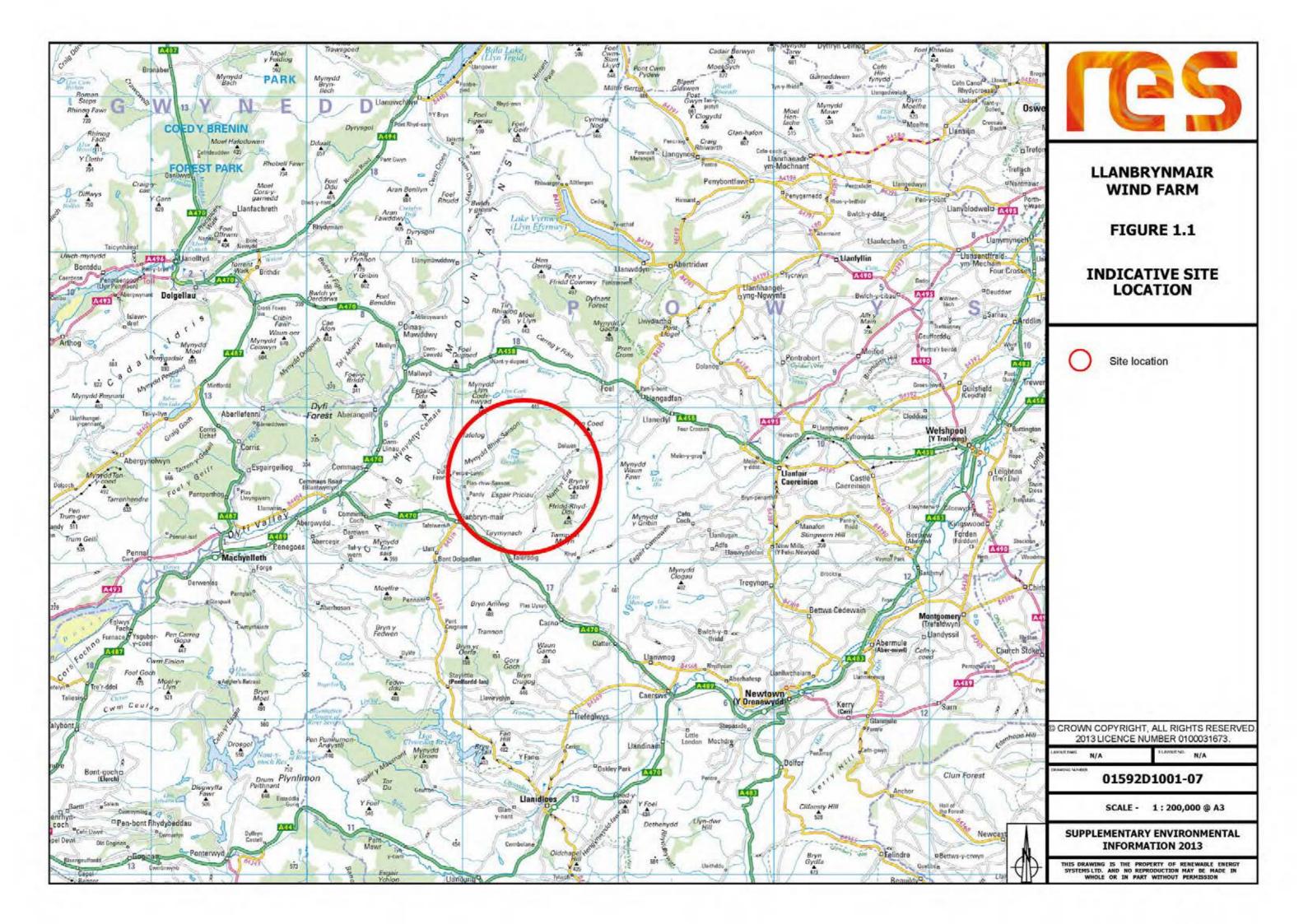






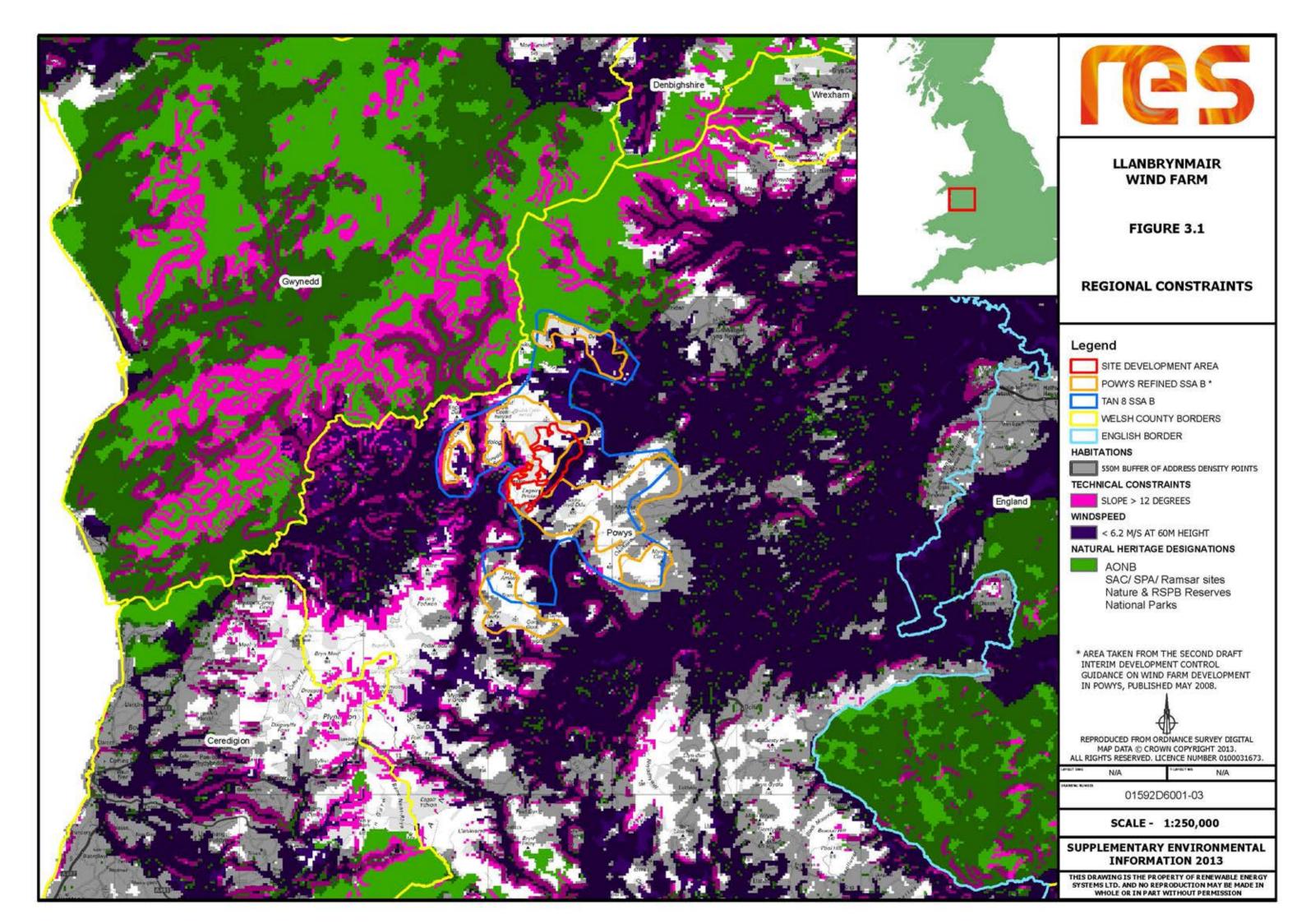
CHAPTER 1: INTRODUCTION FIGURES

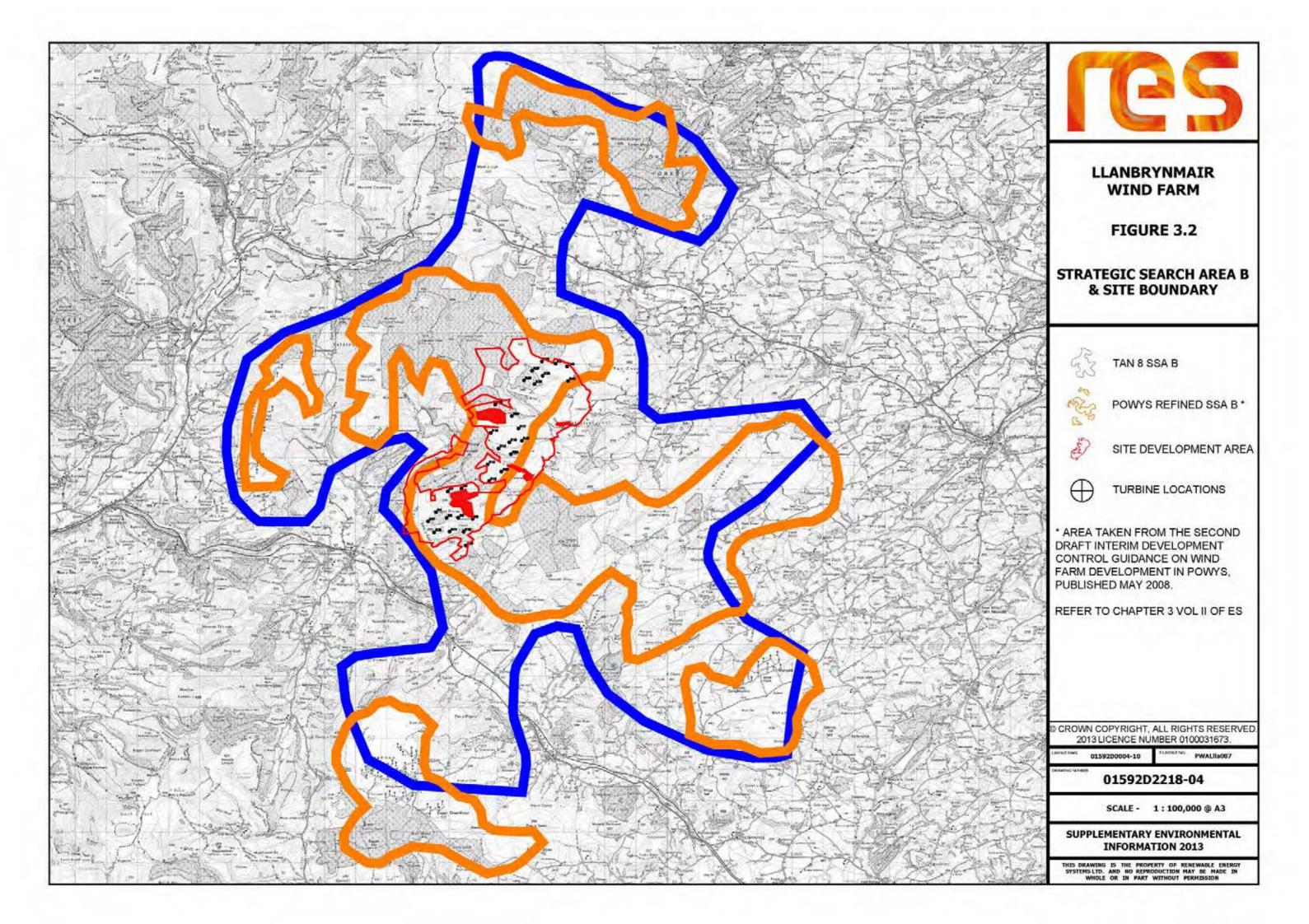


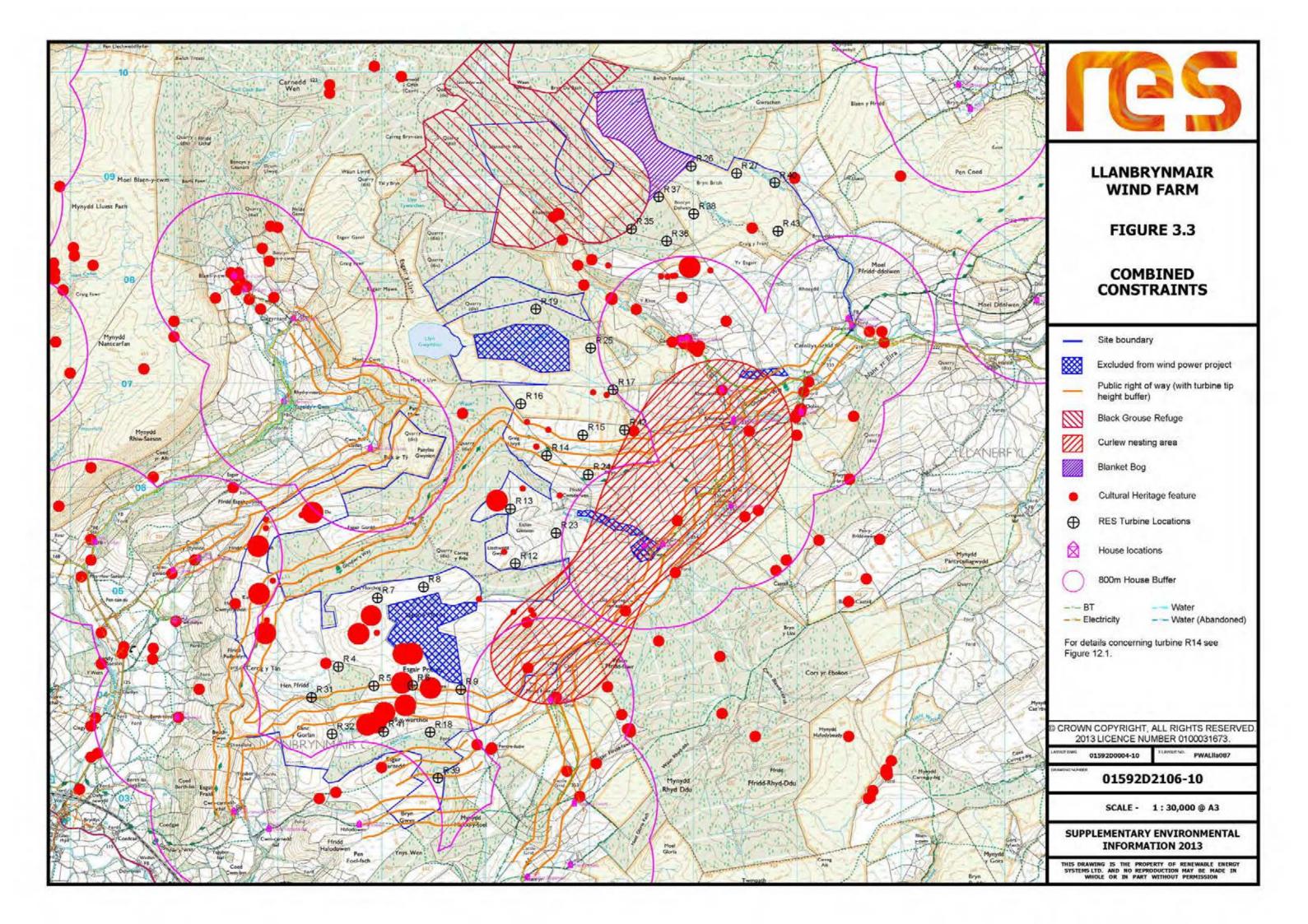


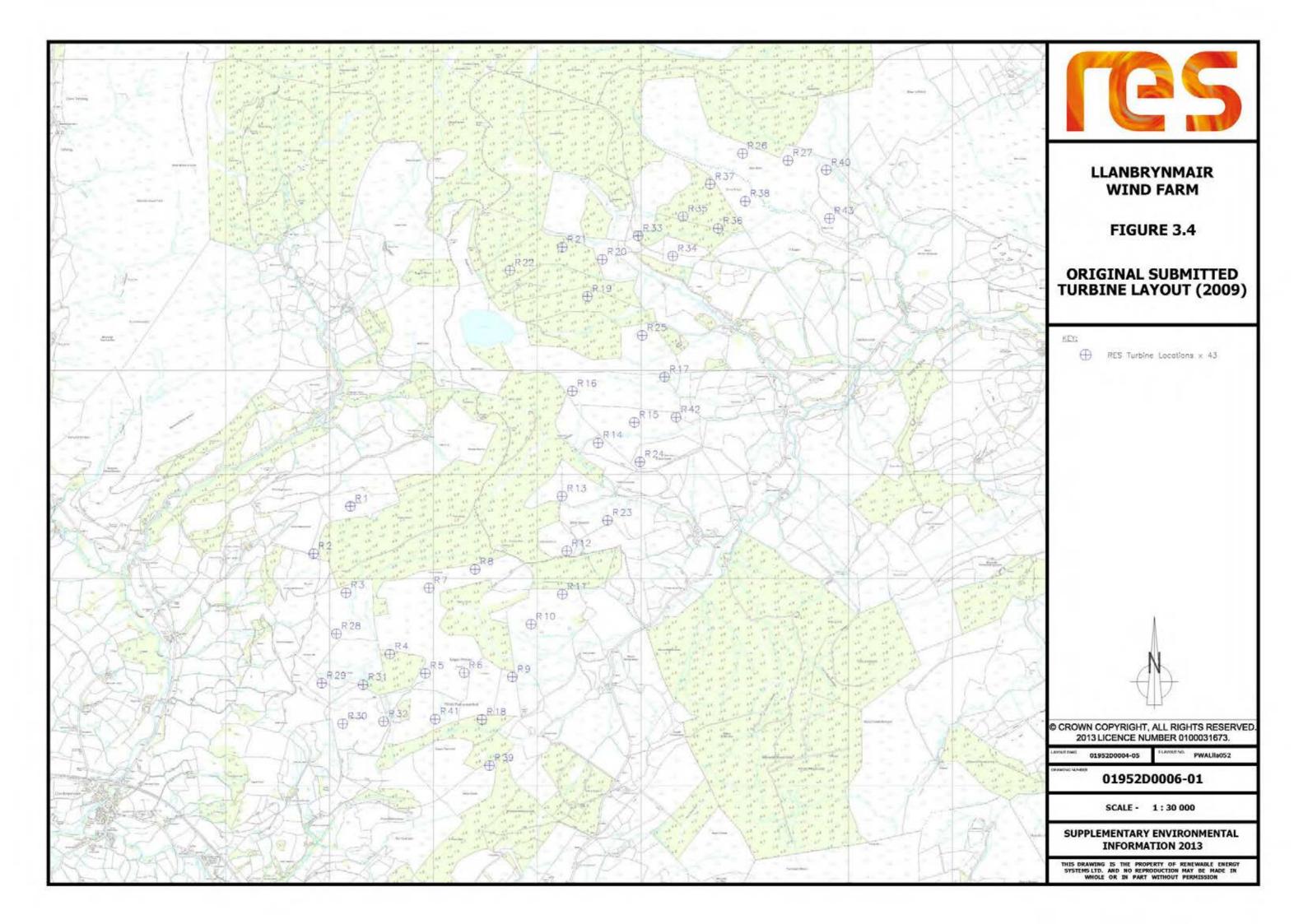
CHAPTER 3: DESCRIPTION OF THE PROJECT FIGURES

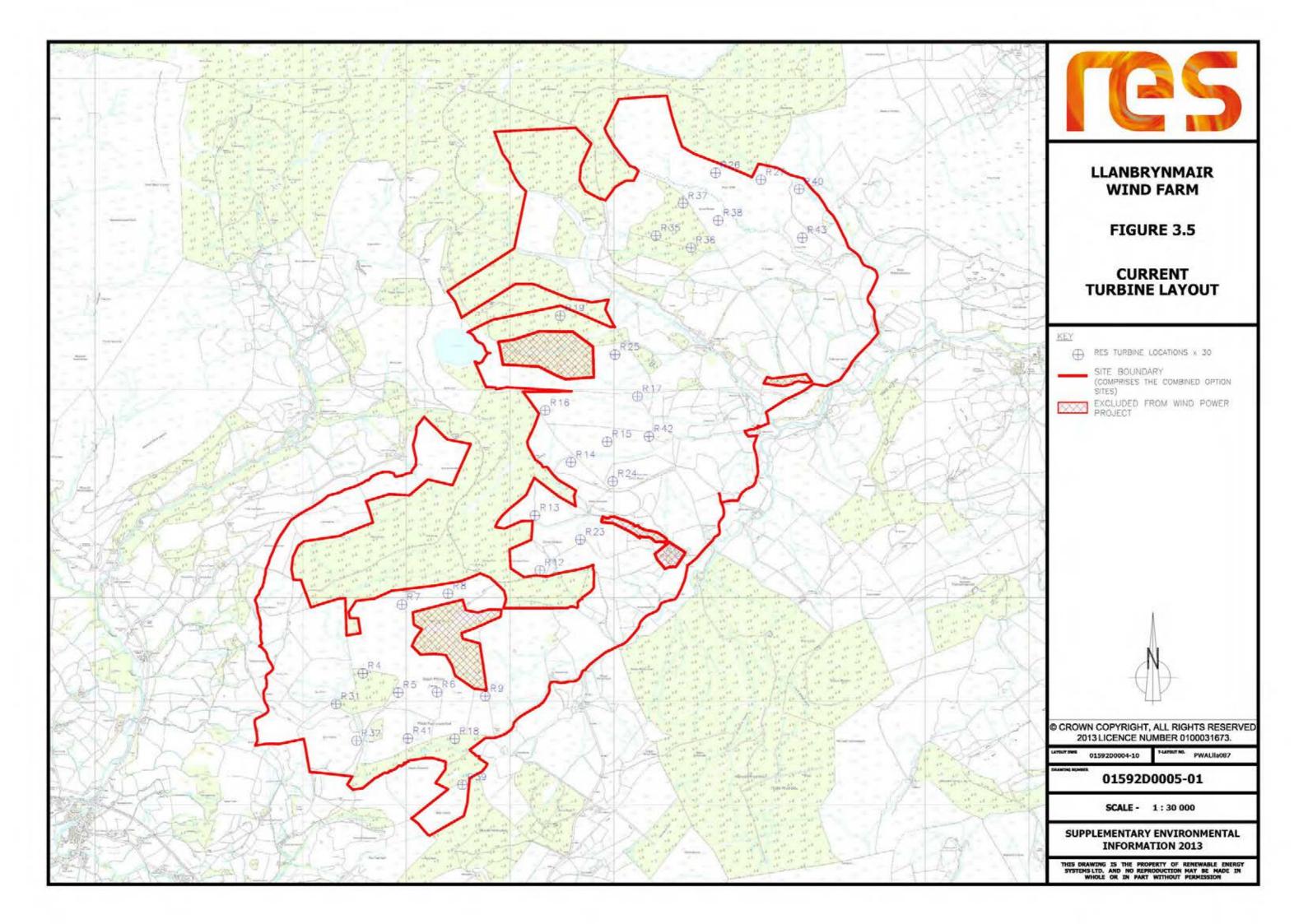


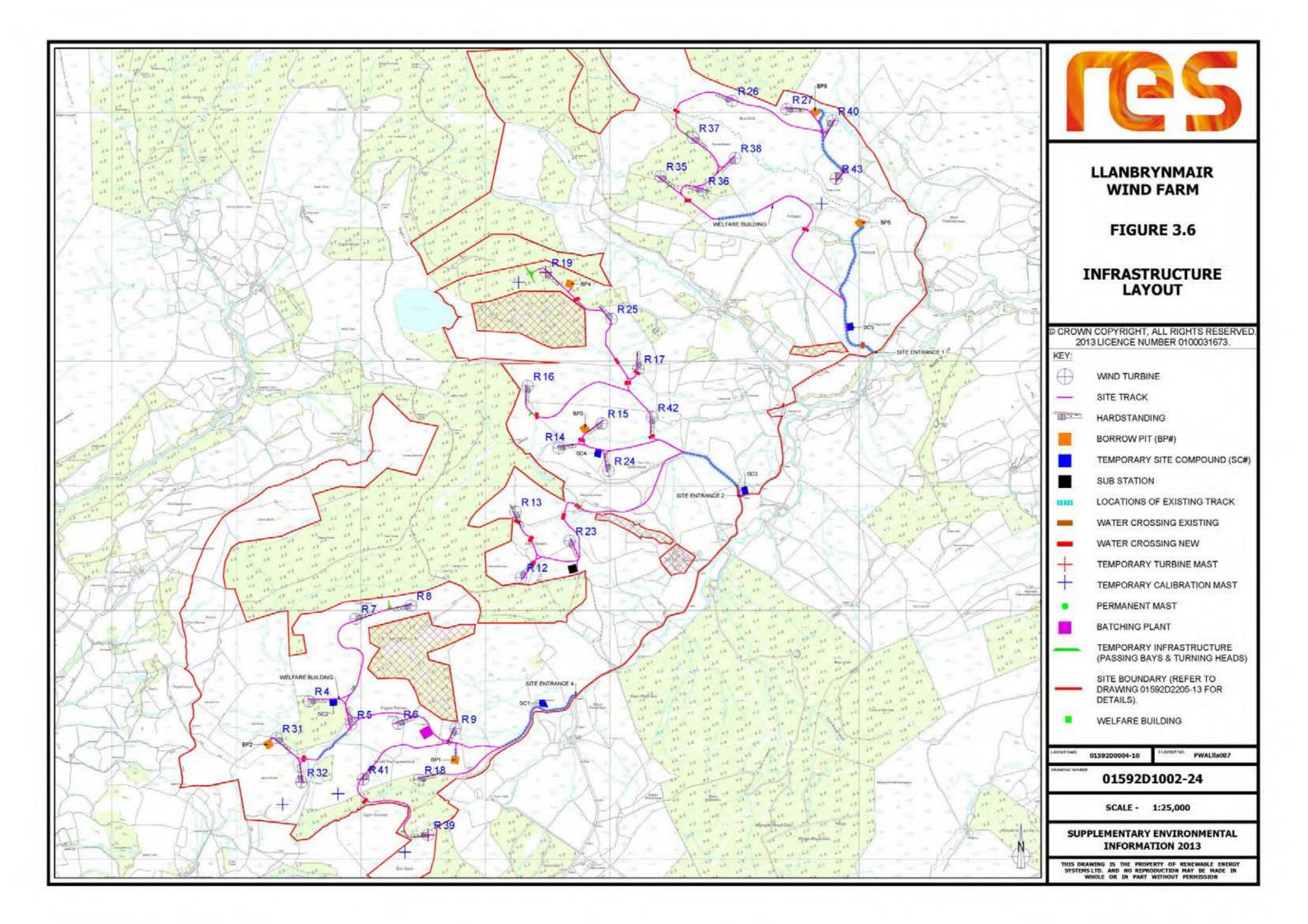


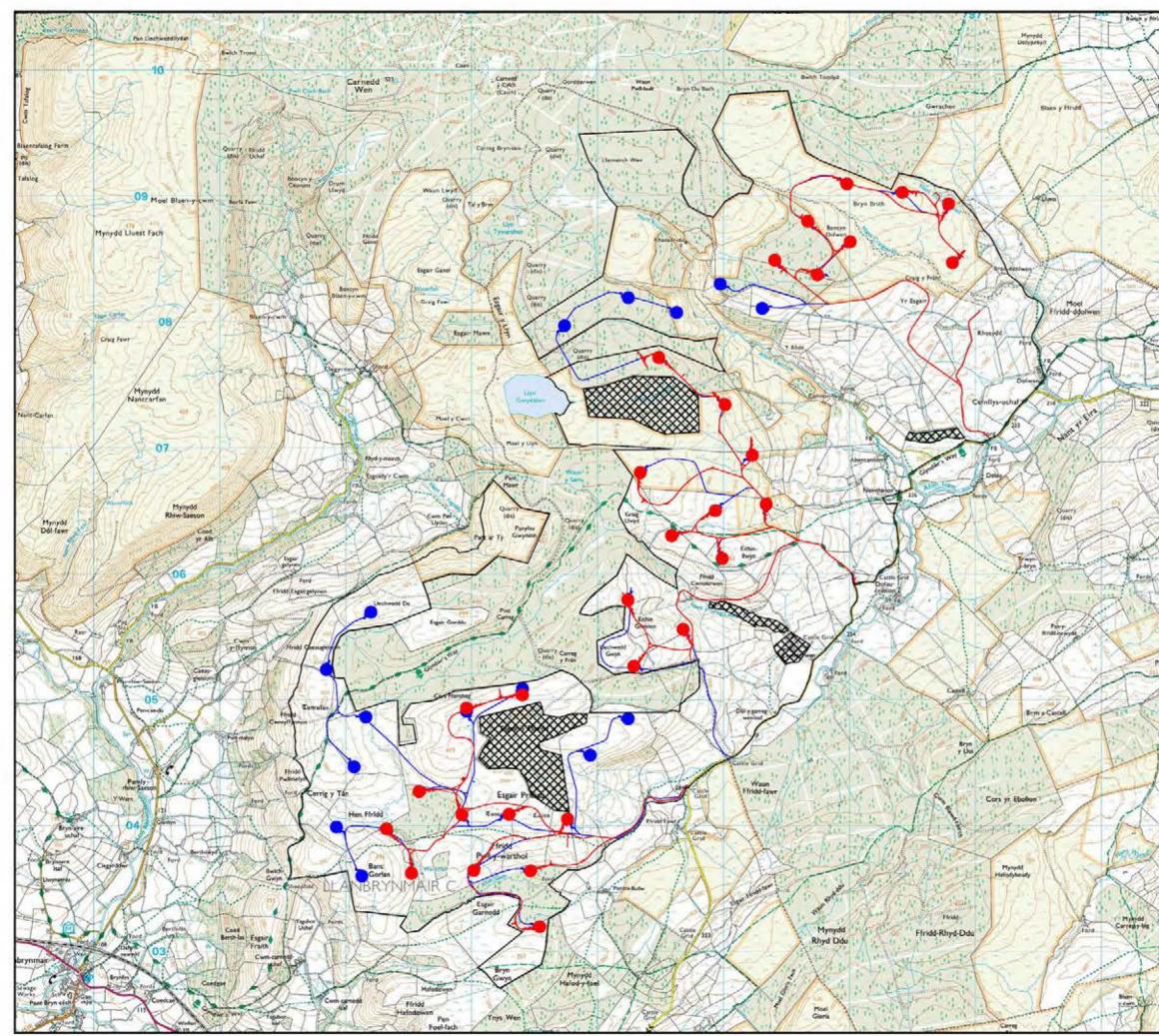




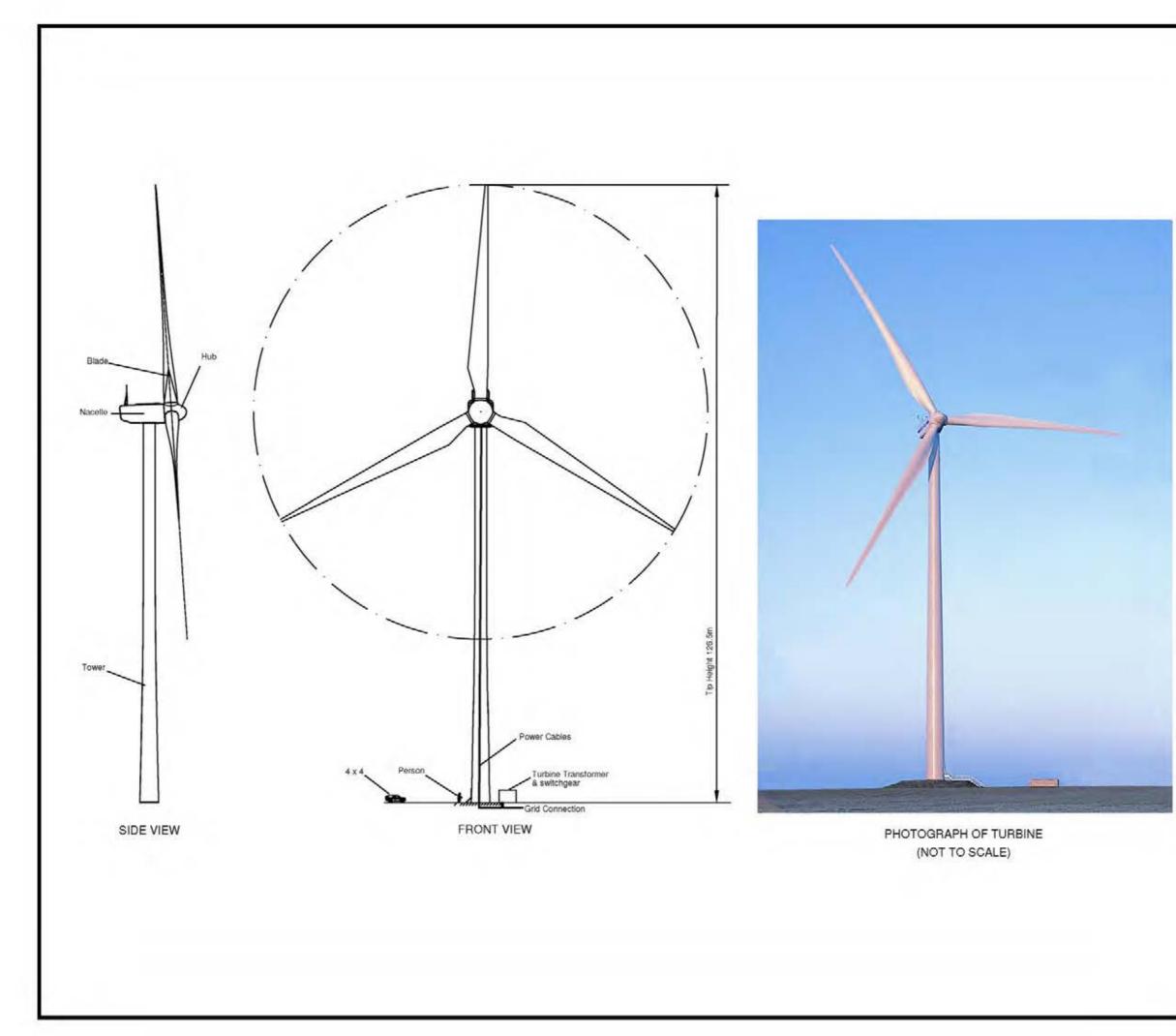




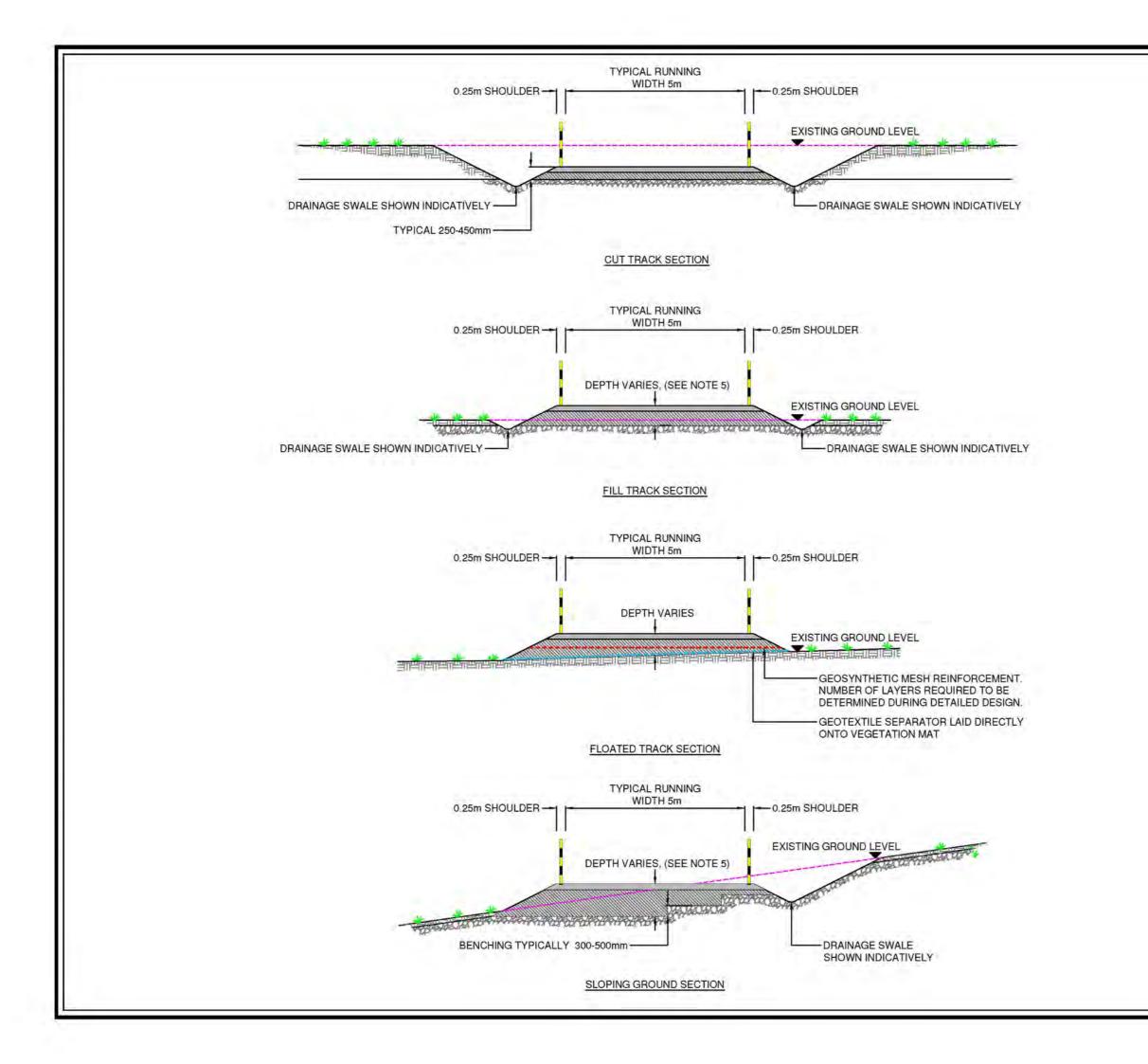




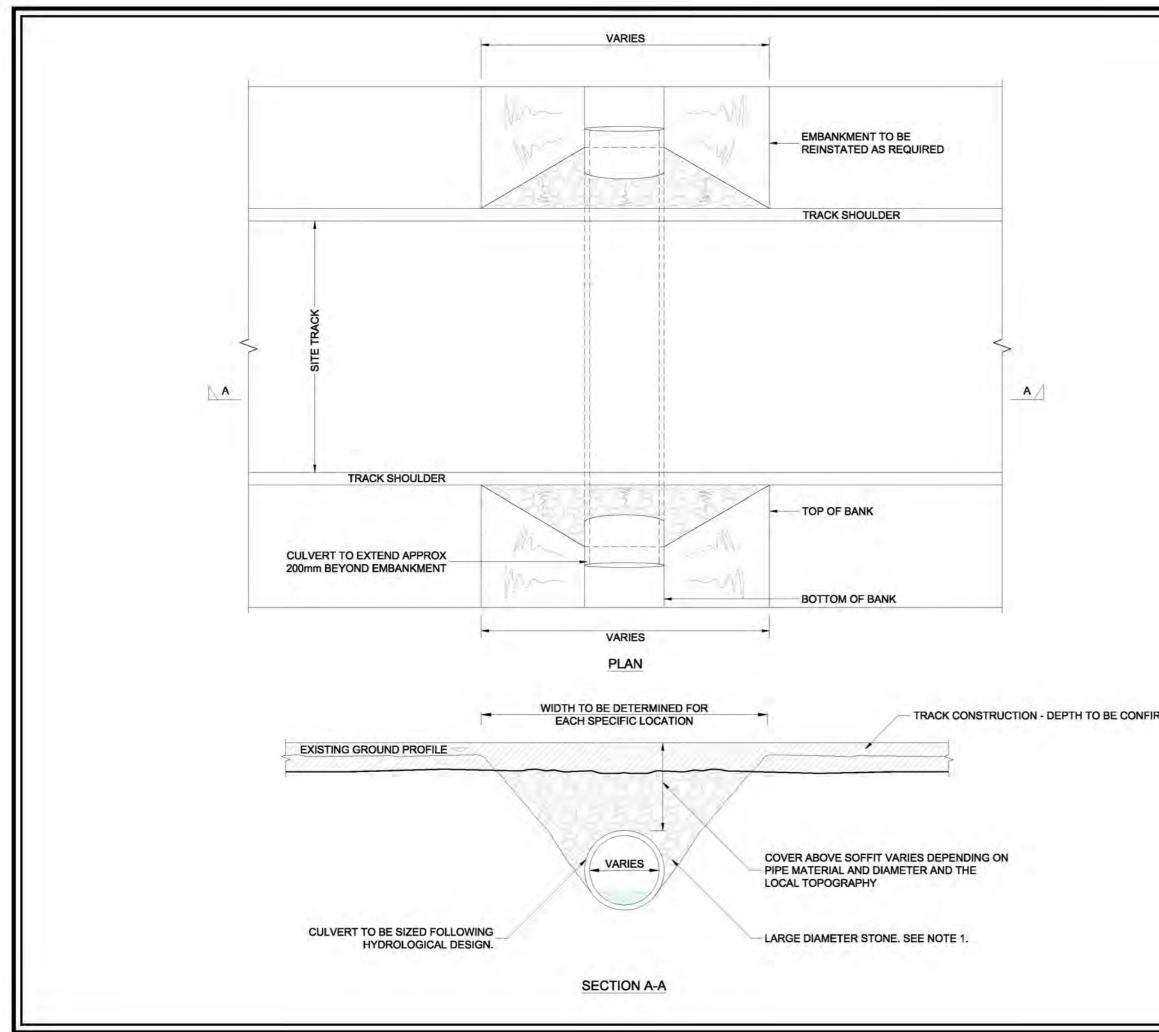
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Rybapattere	<b>M</b> AC
Pen Cood	LLANBRYNMAIR WIND FARM
	FIGURE 3.7
Moei De	ADJUSTMENTS TO TURBINE LAYOUT AND INFRASTRUCTURE
Moel Da	Turbine layout and
No an	infrastructure December 2008
AT	Revised final turbine layout and infrastructure July 2013
TOP-	Site boundary
ALCANE A	
Mynydd gycelligwydd Owers Ford	
And A	
B	CROWN COPYRIGHT, ALL RIGHTS RESERVED 2013 LICENCE NUMBER 0100031673.
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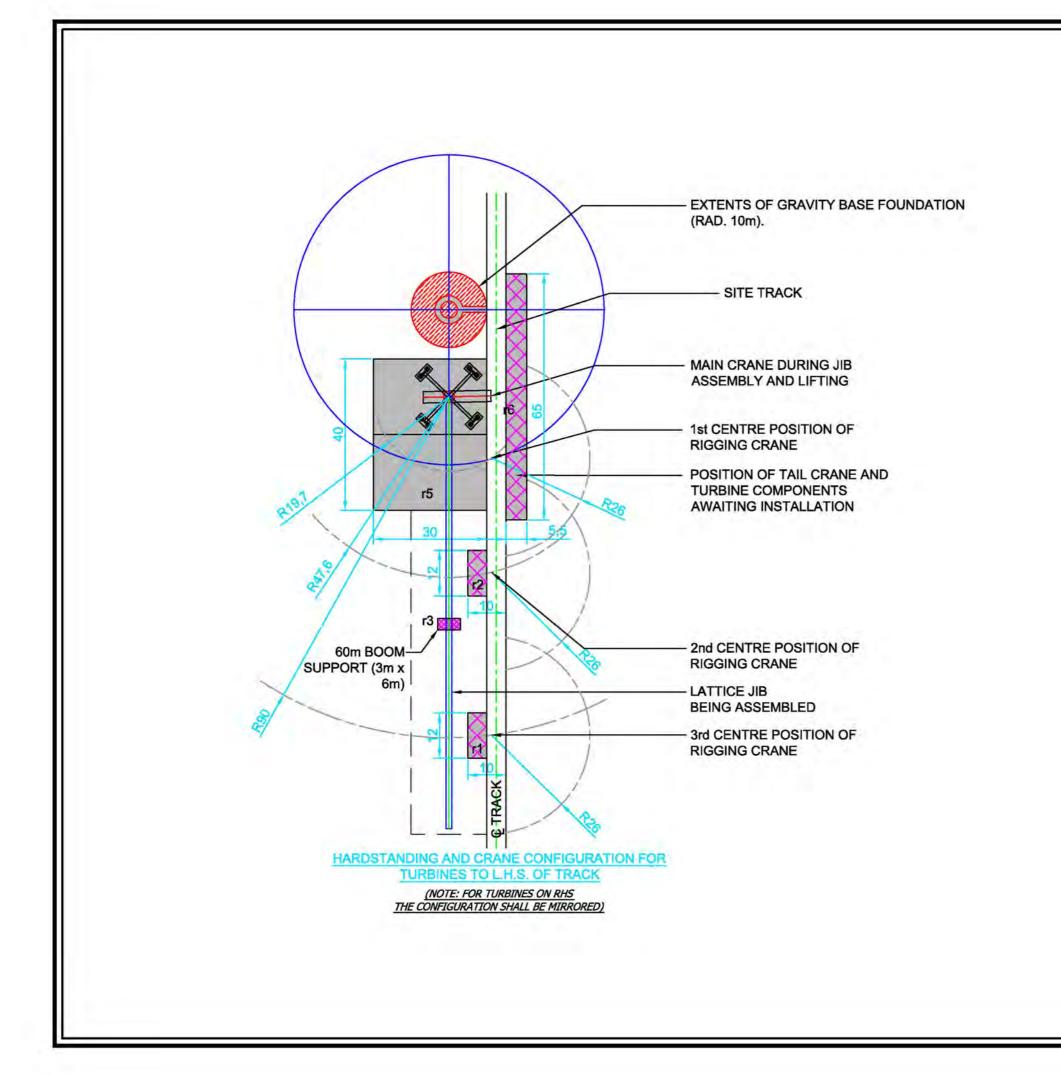
res
LLANBRYNMAIR WIND FARM
FIGURE 3.8
TYPICAL FRONT AND SIDE ELEVATIONS OF A WIND TURBINE
LAYOUT DAVE
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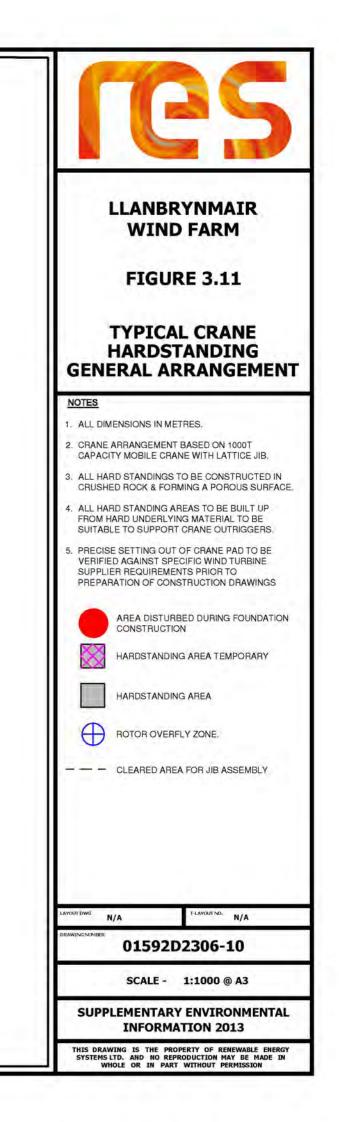


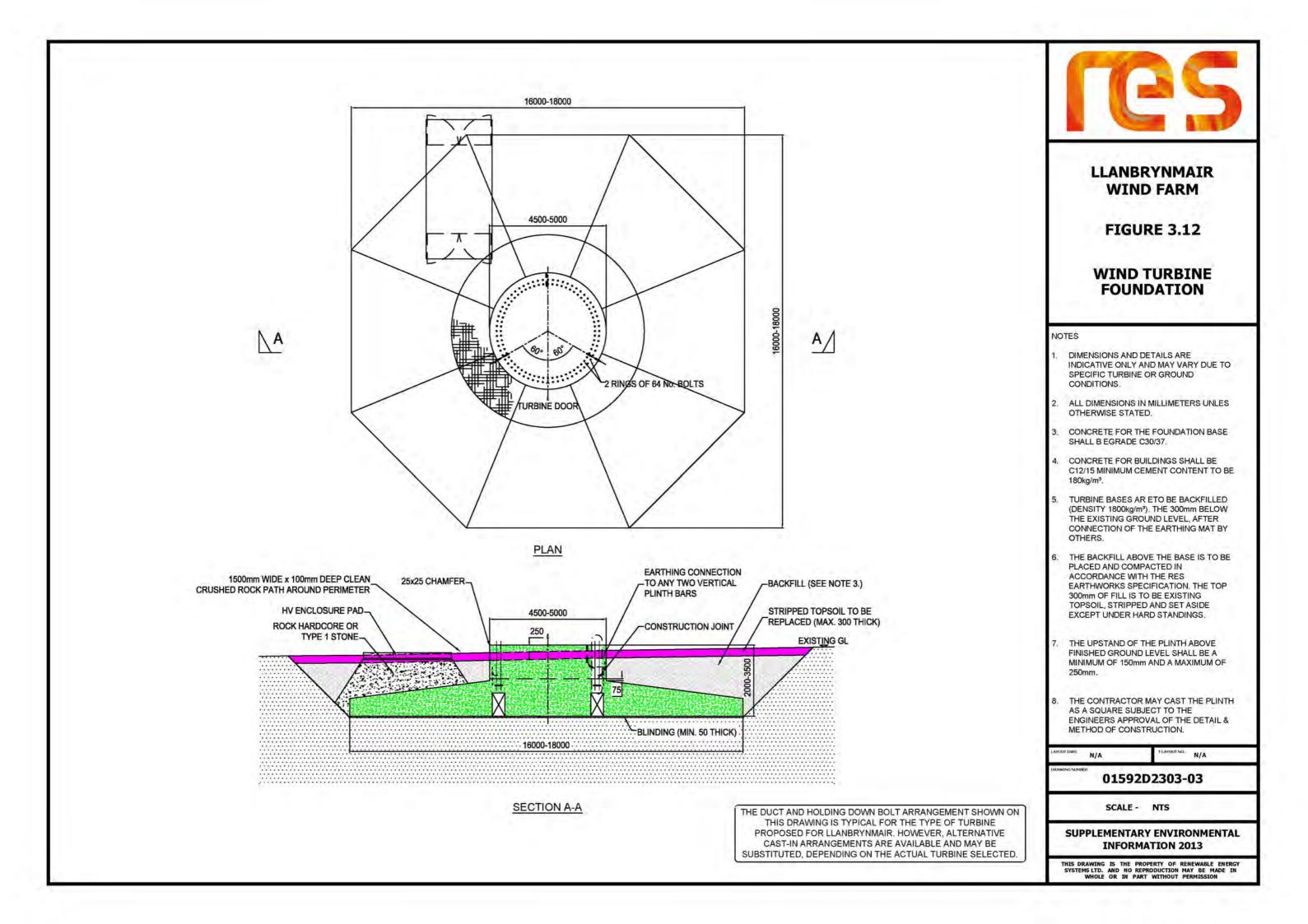
	LLANBRYNMAIR WIND FARM FIGURE 3.9
	TYPICAL ACCESS TRACK DESIGN
KE	RUNNING SURFACE CAPPING LAYER / ENGINEERED FILL TOPSOIL/PEAT LAYER
199	IN-SITU TESTING IN-SITU TESTING SNOW POLES TO DELINEATE SITE TRACKS AT NOMINAL 50m INTERVALS
NO	TES
1.	EFFECTIVE WIDTH OF TRACK TO BE 5m ON STRAIGHT SECTIONS WITH WIDENING ON BENDS AND PASSING PLACES.
2.	ALL EMBANKMENT SLOPES TO BE PROVIDED AT A STABLE ANGLE BASED ON THE PROPERTIES OF TH MATERIAL ENCOUNTERED ON SITE.
3.	MATERIALS ARISING FROM TRACK CONSTRUCTION TO BE SEGREGATED AND PLACED IN AGREED LOCATIONS ADJACENT TO THE WORKING AREA. REINSTATEMENT AND/OR SPOIL MANAGEMENT PLANS WILL BE DEVELOPED DURING THE DETAILEE DESIGN OF SITE INFRASTRUCTURE AND WILL IDENTIFY AREAS OF RE-USE AND PERMANENT STORAGE OF EXCAVATED MATERIALS IN LINE WITH CURRENT BEST PRACTICE.
4.	RUNNING SURFACE, CAPPING LAYER AND ENGINEERED FILL TO BE FORMED FROM SUITABLE MATERIALS COMPACTED IN LAYERS.
5.	GEOSYNTHETIC REINFORCEMENT MAY BE USED TO REDUCE THE DEPTH OF TRACK CONSTRUCTION. REQUIREMENT TO BE DETERMINED DURING DETAILED DESIGN.
6.	A GEOTEXTILE SEPARATION MAY BE INSTALLED BENEATH THE CAPPING / ENGINEERED FILL LAYER FOR ALL TRACK CONSTRUCTION TYPES DEPENDING ON GROUND CONDITIONS ENCOUNTERED ON SITE.
	TENNOTING N/A
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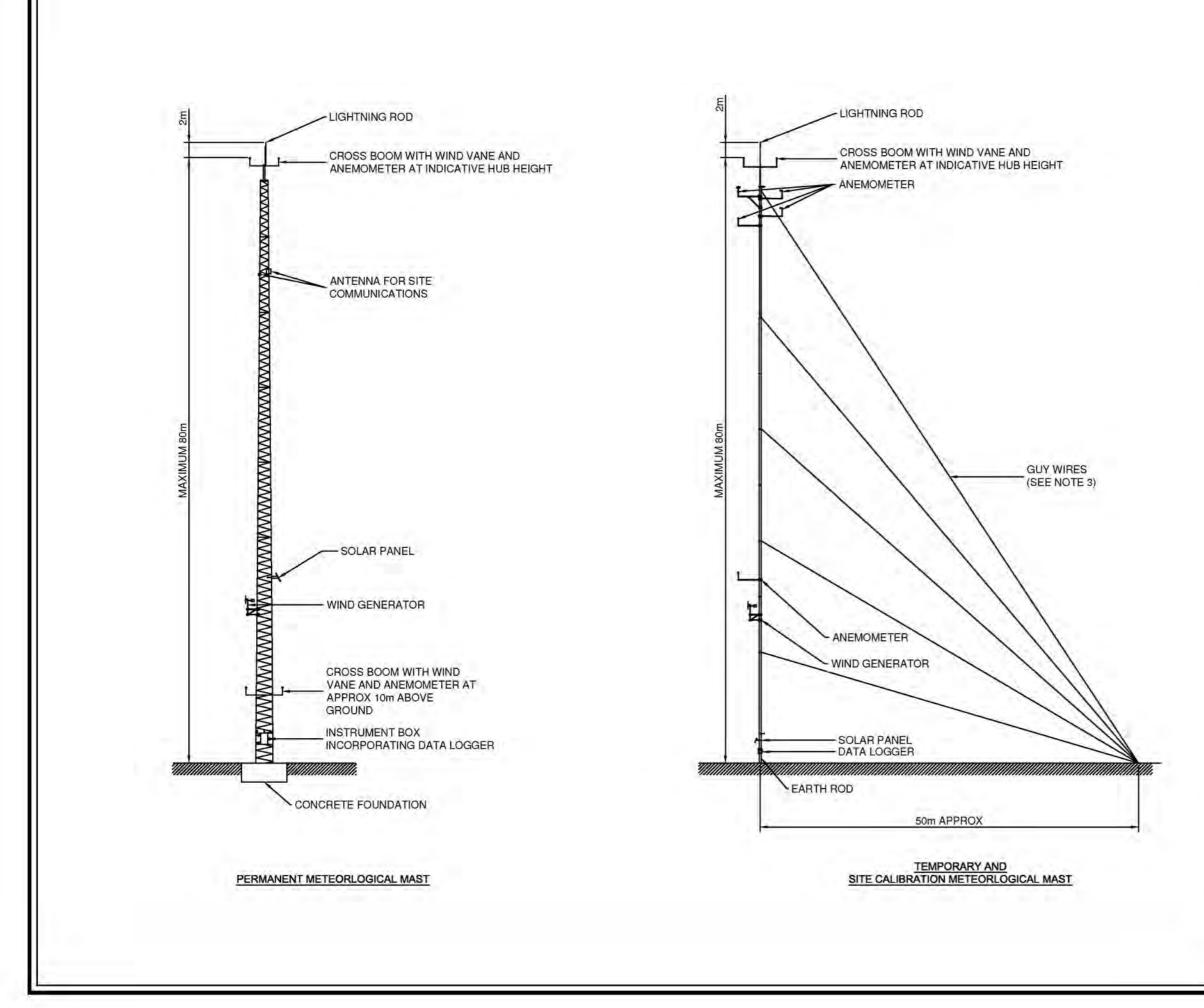


TYDICAL WATERCOUR	
TYPICAL WATERCOUR CROSSING	۶SI
NOTES	
<ol> <li>FINAL SPECIFICATION AND INSTALL METHOD TO BE CONFIRMED FOLLO DETAILED DESIGN SPECIFIC TO EAC WATERCROSSING.</li> </ol>	MN
2. CULVERT TYPE AND SIZING TO BE DEFINED DURING DESIGN OF ON-SI DRAINAGE SYSTEMS.	ITE
3. INFILL MATERIAL TO BE CLEAN CRU ROCK.	JSHE
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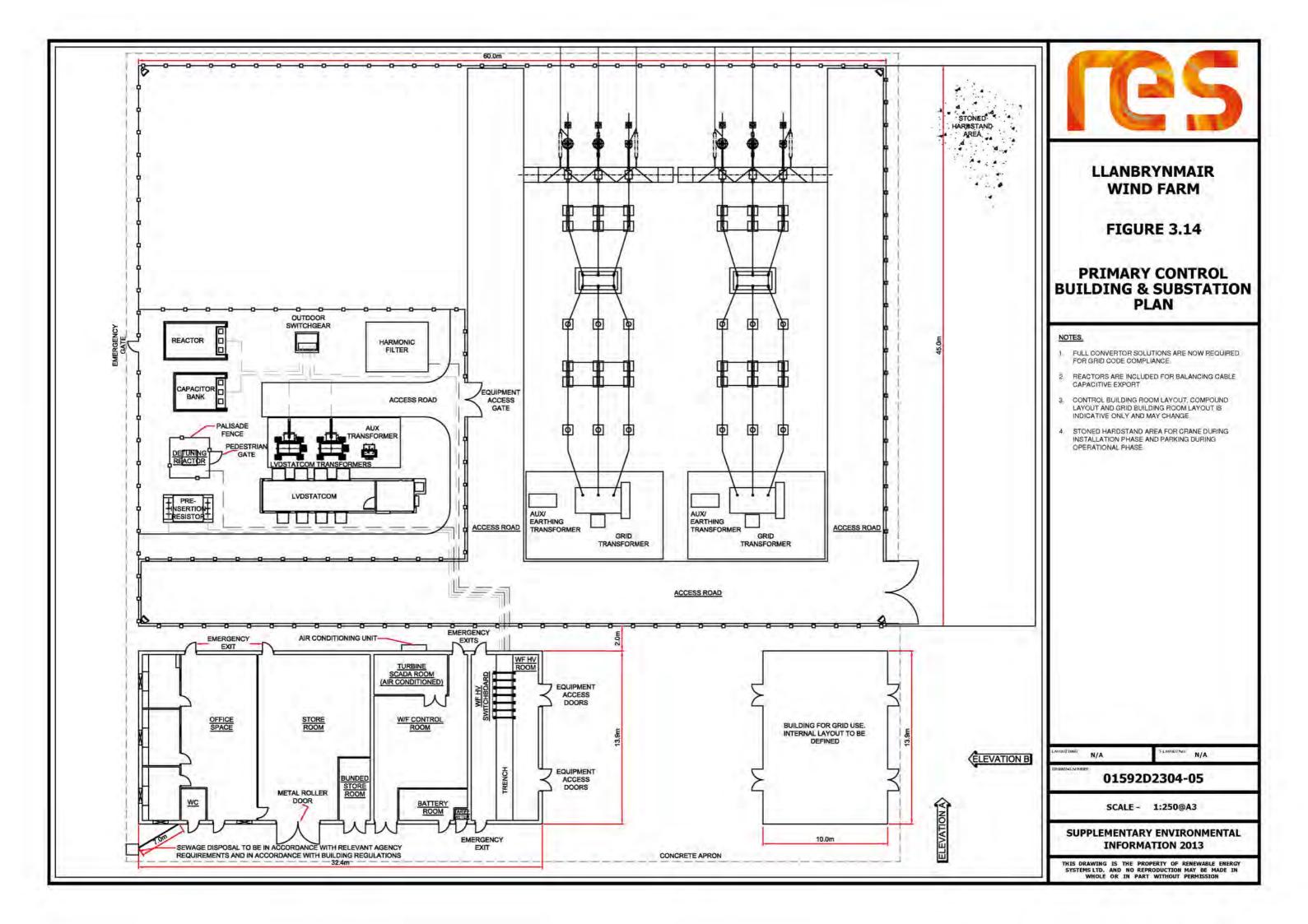


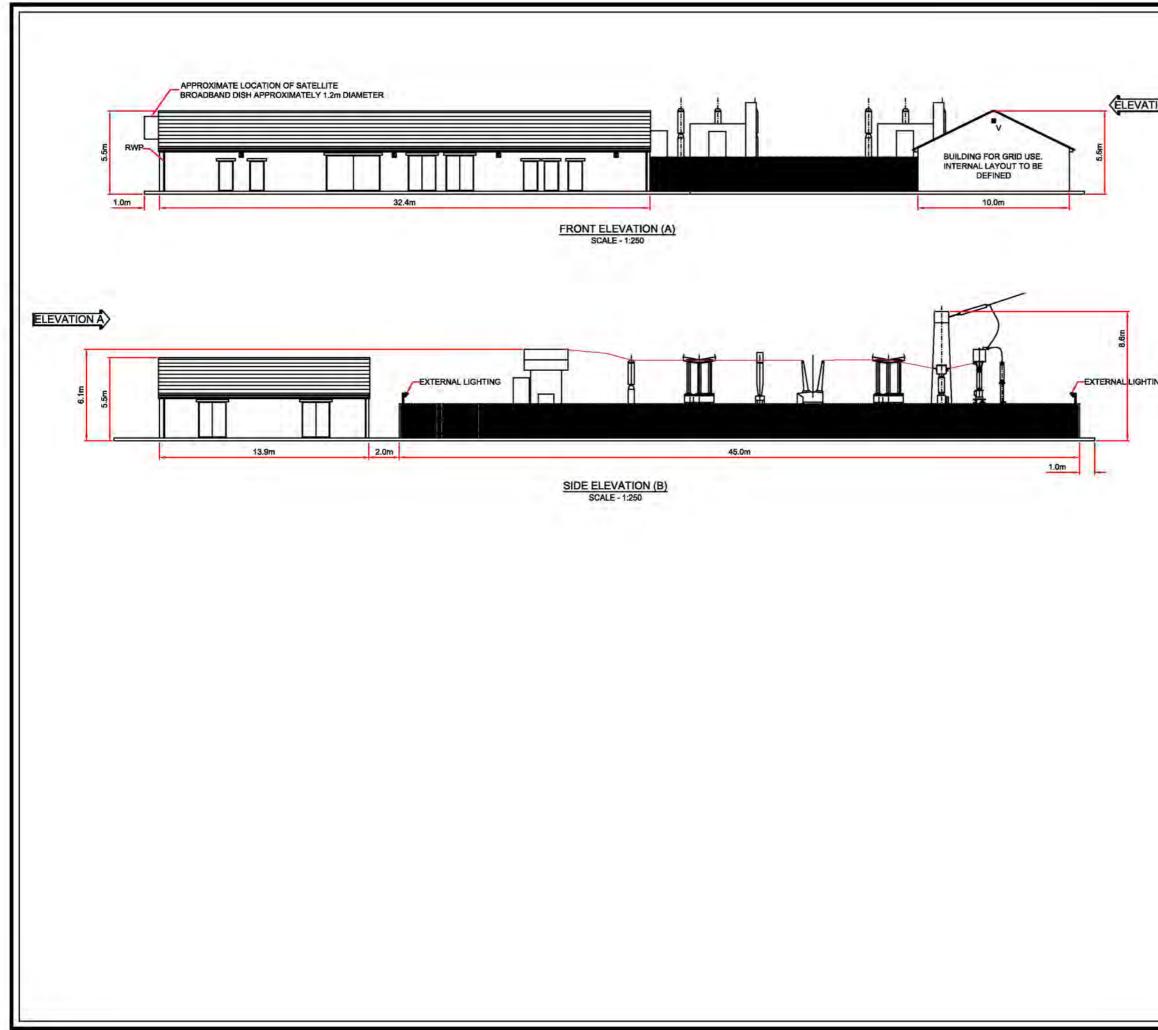




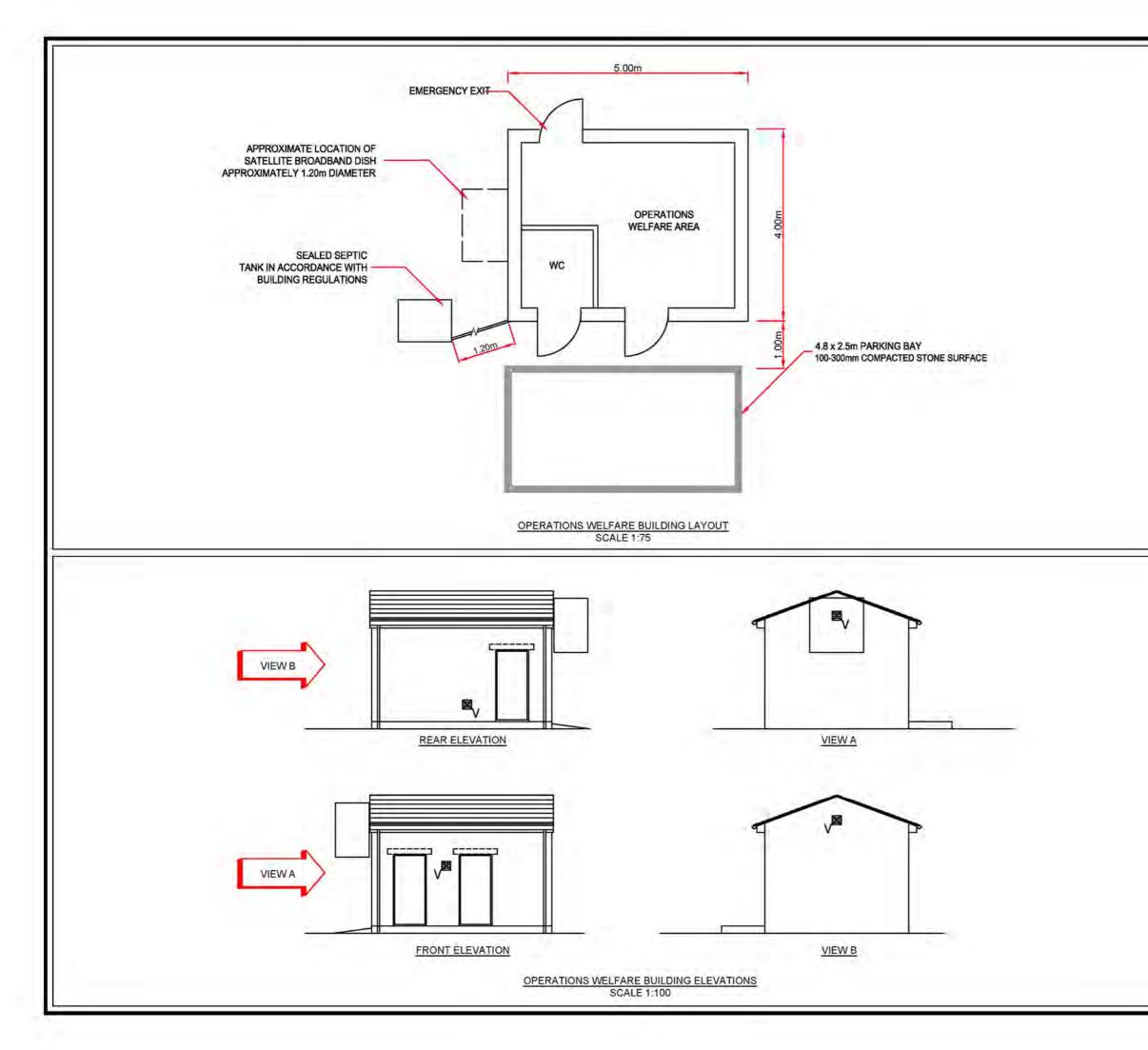


W	NBRYNMAIR /IND FARM
FI	GURE 3.13
PI	L TEMPORARY & ERMANENT OMETER MASTS
NOTES	
2. ALL INSTRUM INDICATION OF REQUIRED. ACT	E FROM THIS DRAWING. ENTATION SHOWN TO PROVIE TYPES AND NUMBERS UAL REQUIREMENTS TO BE IRING DEVELOPMENT OF GN.
and a second s	LOCATION OF GUY WIRES AR Y, ALL REQUIRED WIRES NOT ARITY.
	ES TO EXTEND TO AND BE GROUND LEVEL.
LAVCUT TING N/A	THAYOUT NO. N/A
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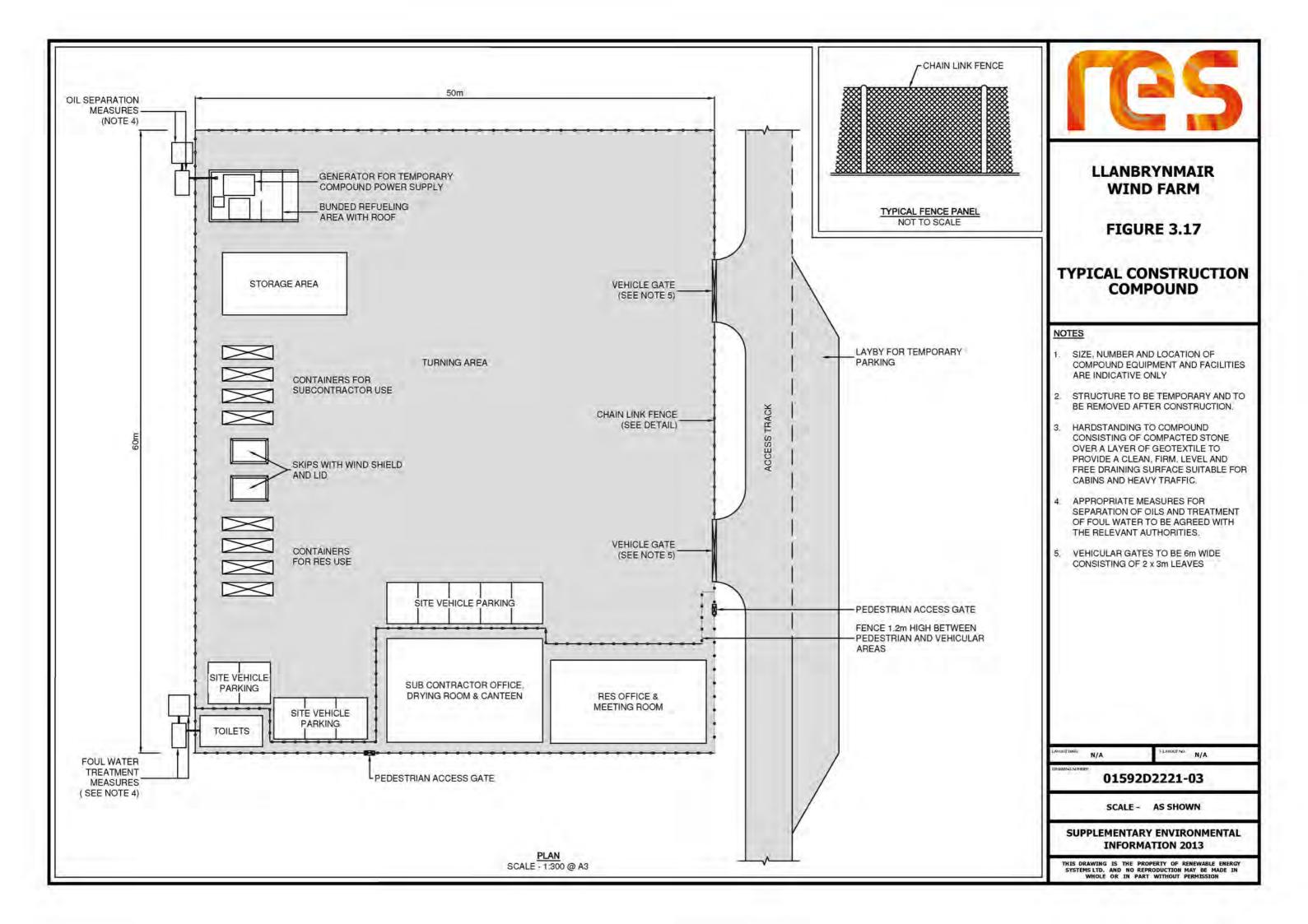


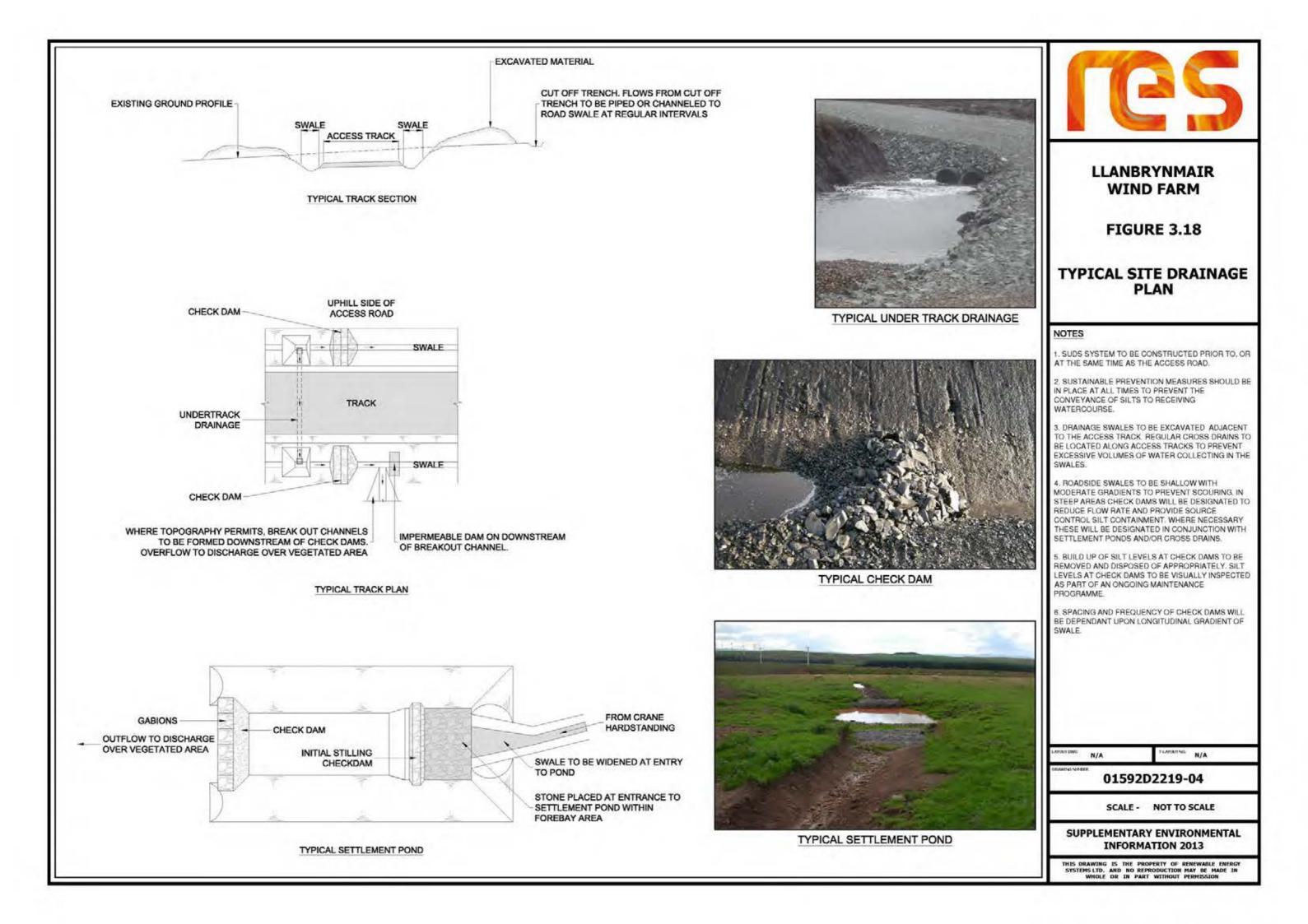


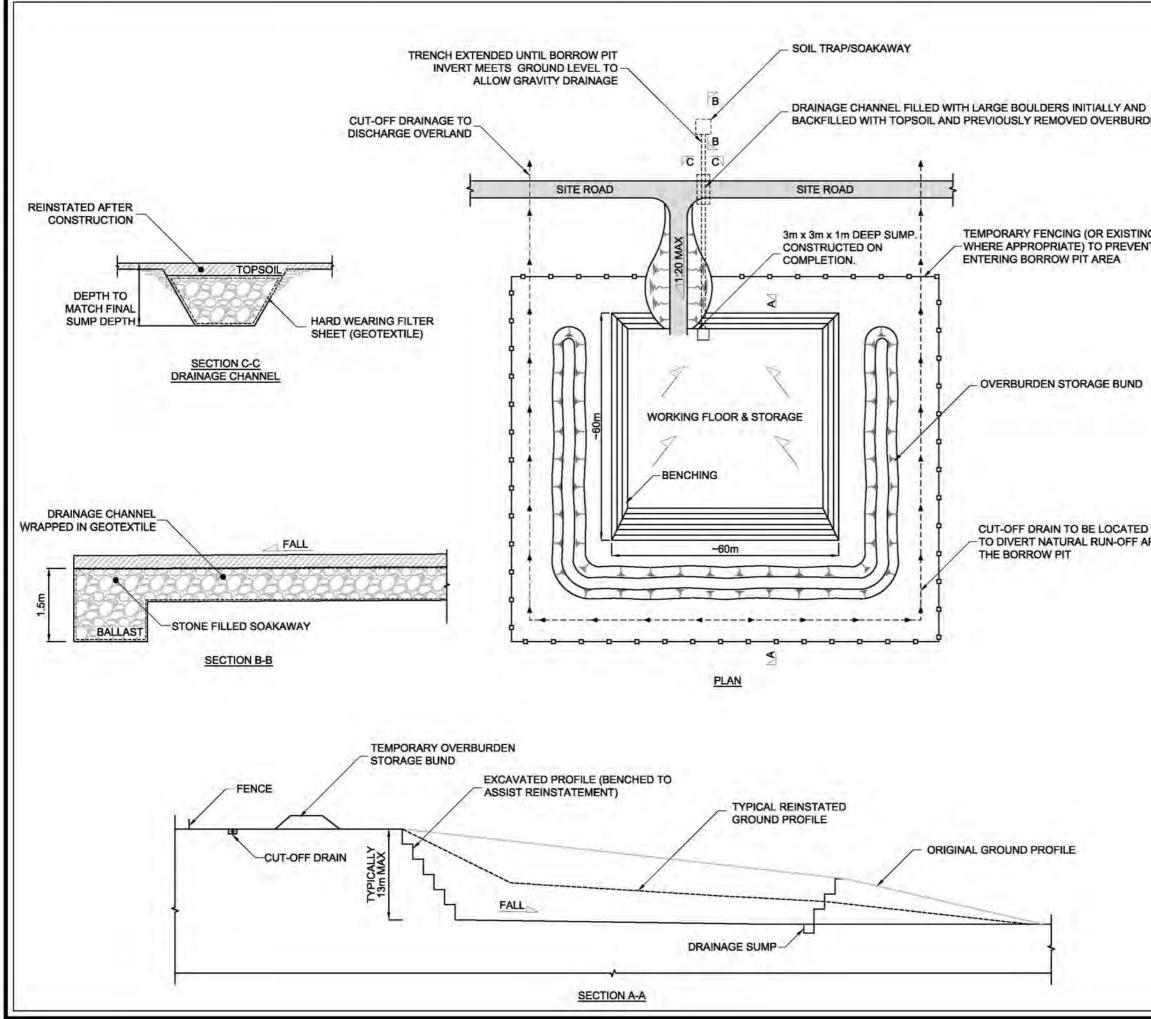
	LLANBRYNMAIR
	WIND FARM
	FIGURE 3.15
1.1	PRIMARY CONTROL BUILDING & SSTATION ELEVATION
KEY:	
	ENT - RAINWATER PIPE
the second se	PIR LIGHTING ABOVE DOORS
Except DWG.	N/A TLAYQUTAS N/A
LAV(3) FONT: DRAWING NEWS	N/A N/A
	R <sup>A</sup> N/A



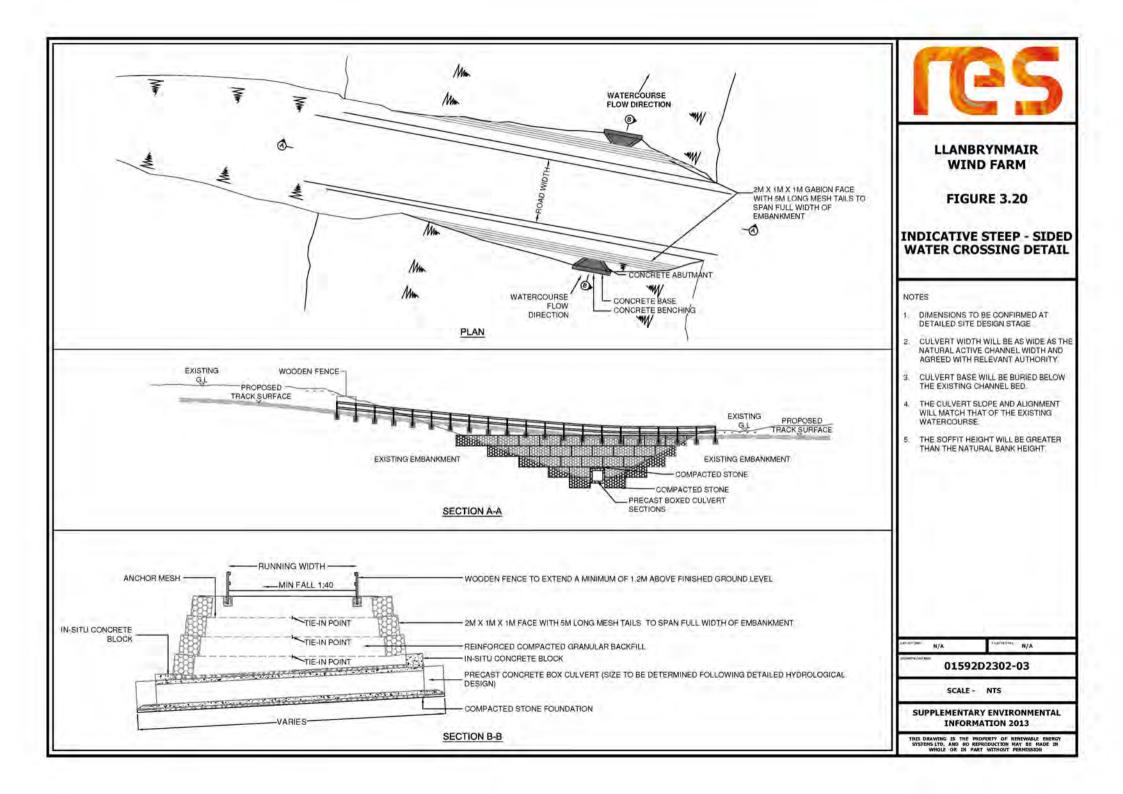
res
LLANBRYNMAIR WIND FARM FIGURE 3.16 OPERATIONS WELFARE BUILDING LAYOUT AND ELEVATIONS
OF DOORS, GATES, INTERNAL WALLS AND EXTERNAL EQUIPMENT ARE INDICATIVE ONLY AND ARE SUBJECT TO REQUIREMENTS OF THE WIND FARM OPERATOR AND GRID COMPANY.
N/A N/A N/A DRWWW/GHUMBER 01592D2312-02
SCALE - AS SHOWN @ A3
INFORMATION 2013

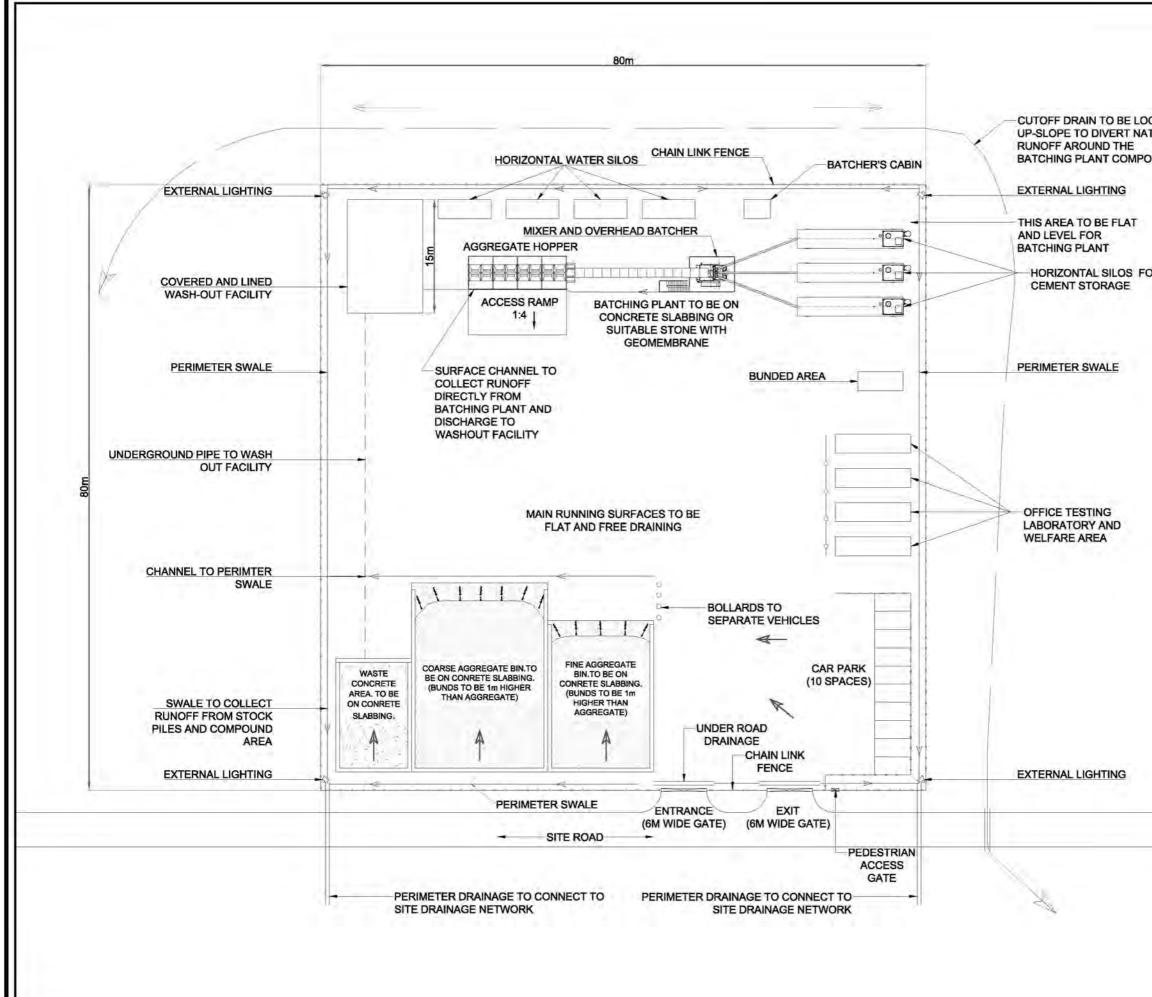




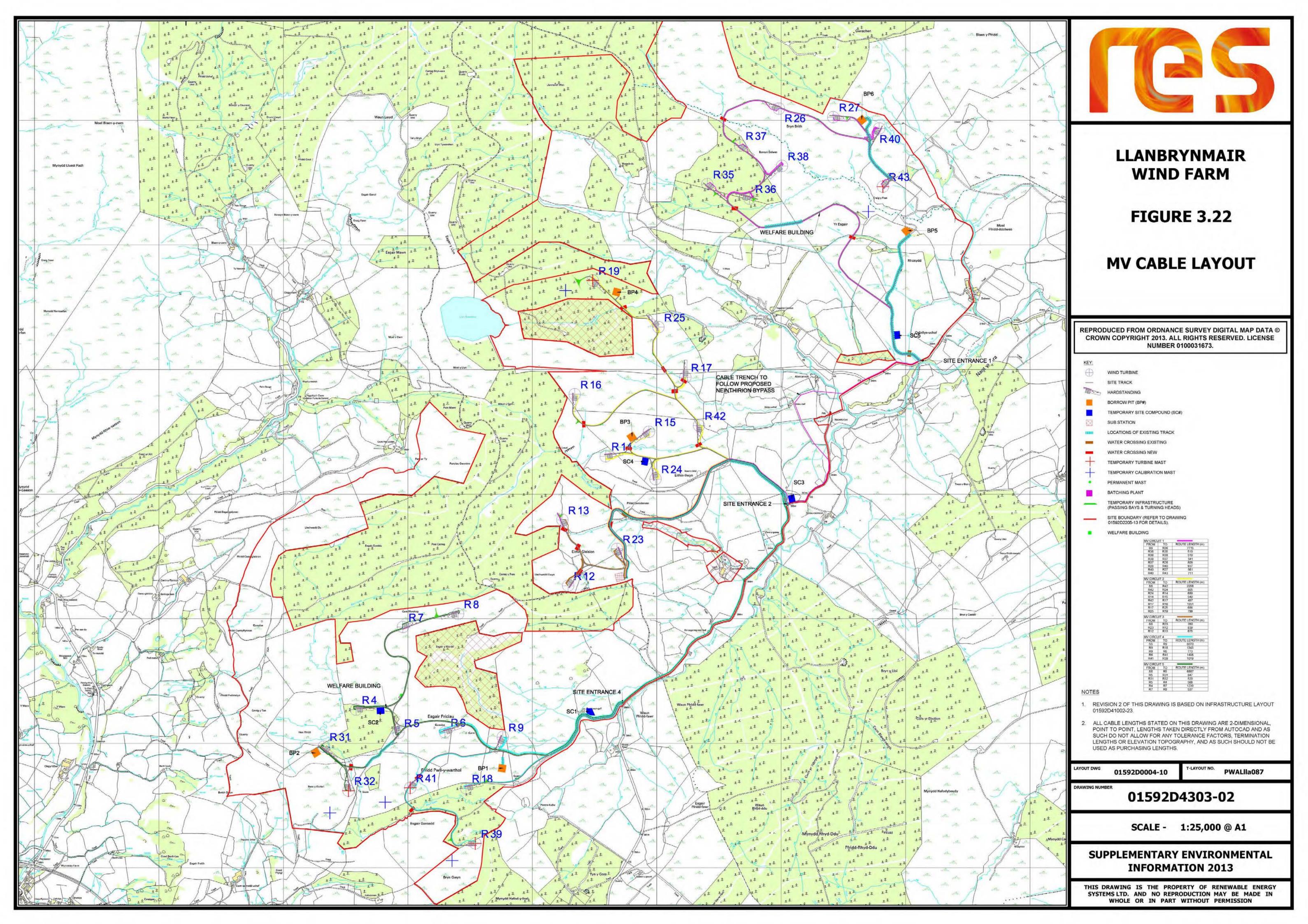


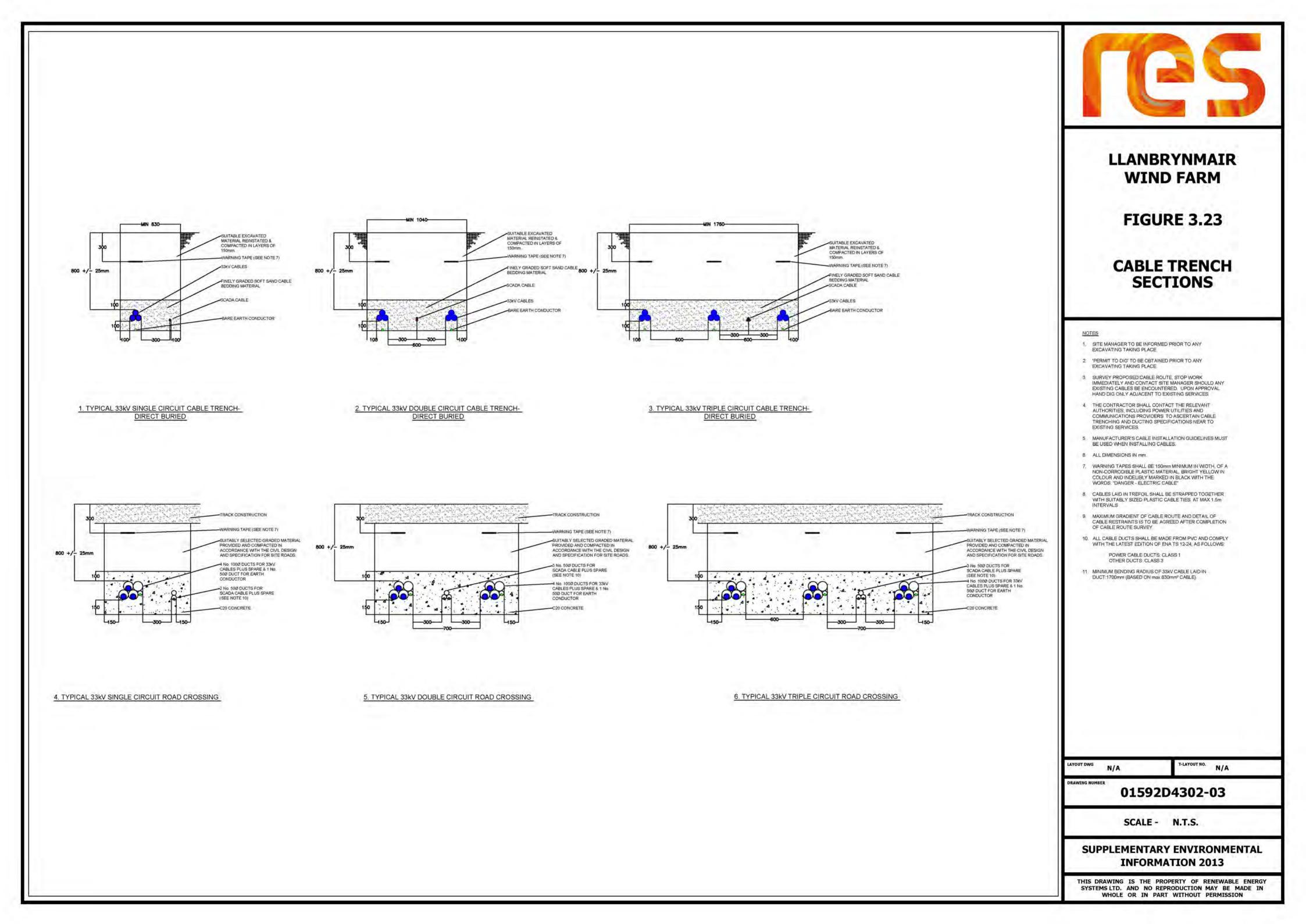
	LLANBRYNMAIR WIND FARM FIGURE 3.19
PI	TYPICAL BORROW PIT ROFILE AND LAYOUT PL
NC	DTES
1.	LAYOUT SHOWN IS INDICATIVE ONLY EXACT DIMENSIONS TO BE CONFIRMED ON SITE FOLLOWING DETAILED SITE INVESTIGATIONS AND DESIGN.
2.	REFER TO SITE INFRASTRUCTURE LAYOUT FOR PROPOSED BORROW PIT LOCATIONS.
3.	OVERBURDEN, SPOIL AND PEAT MANAGEMENT AND REINSTATEMENT ARRANGEMENT TO BE CONFIRMED.
4.	DRAINAGE DETAILS ARE INDICATIVE ONLY AND SUBJECT TO FULL SUDS DESIGN.
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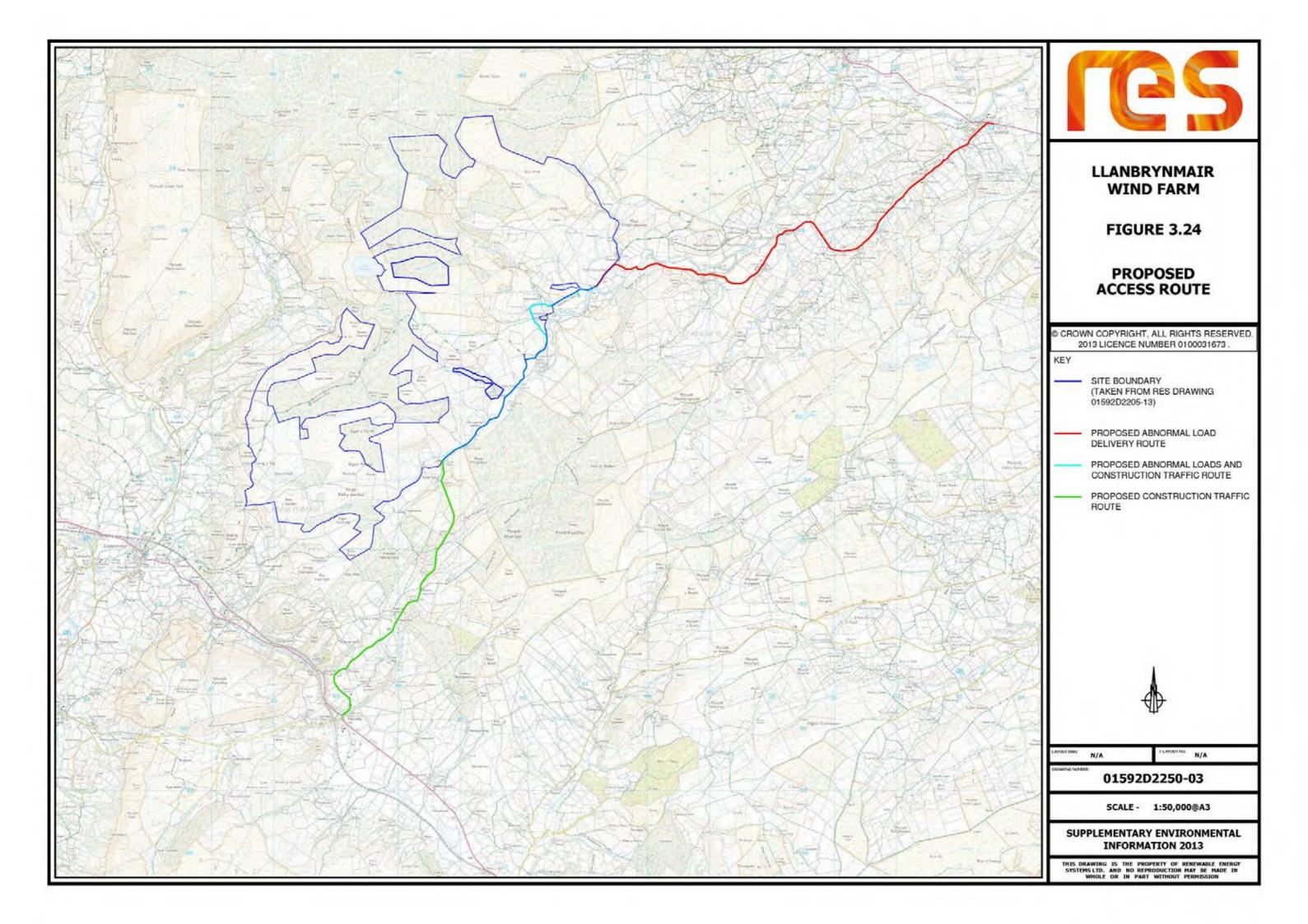


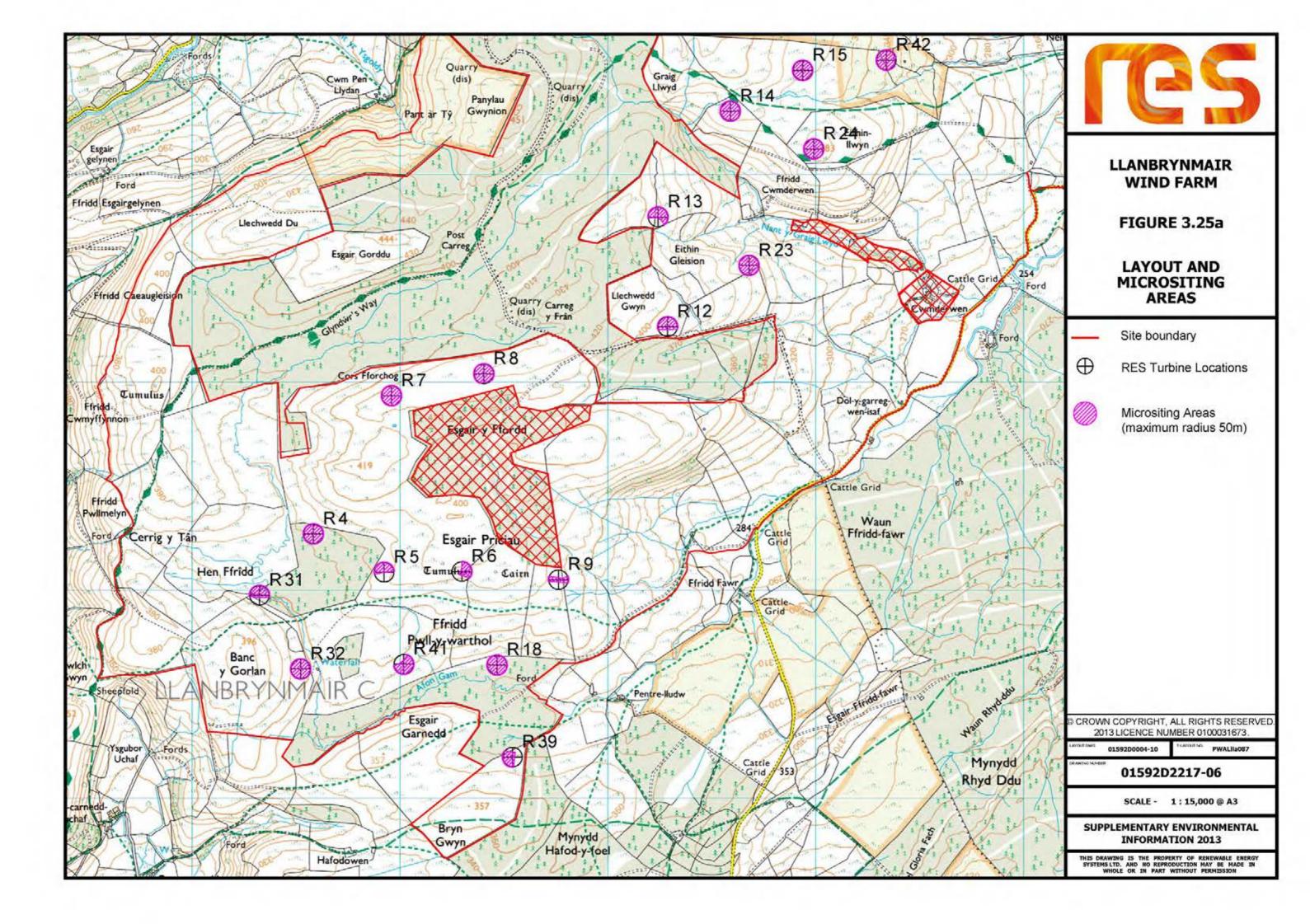


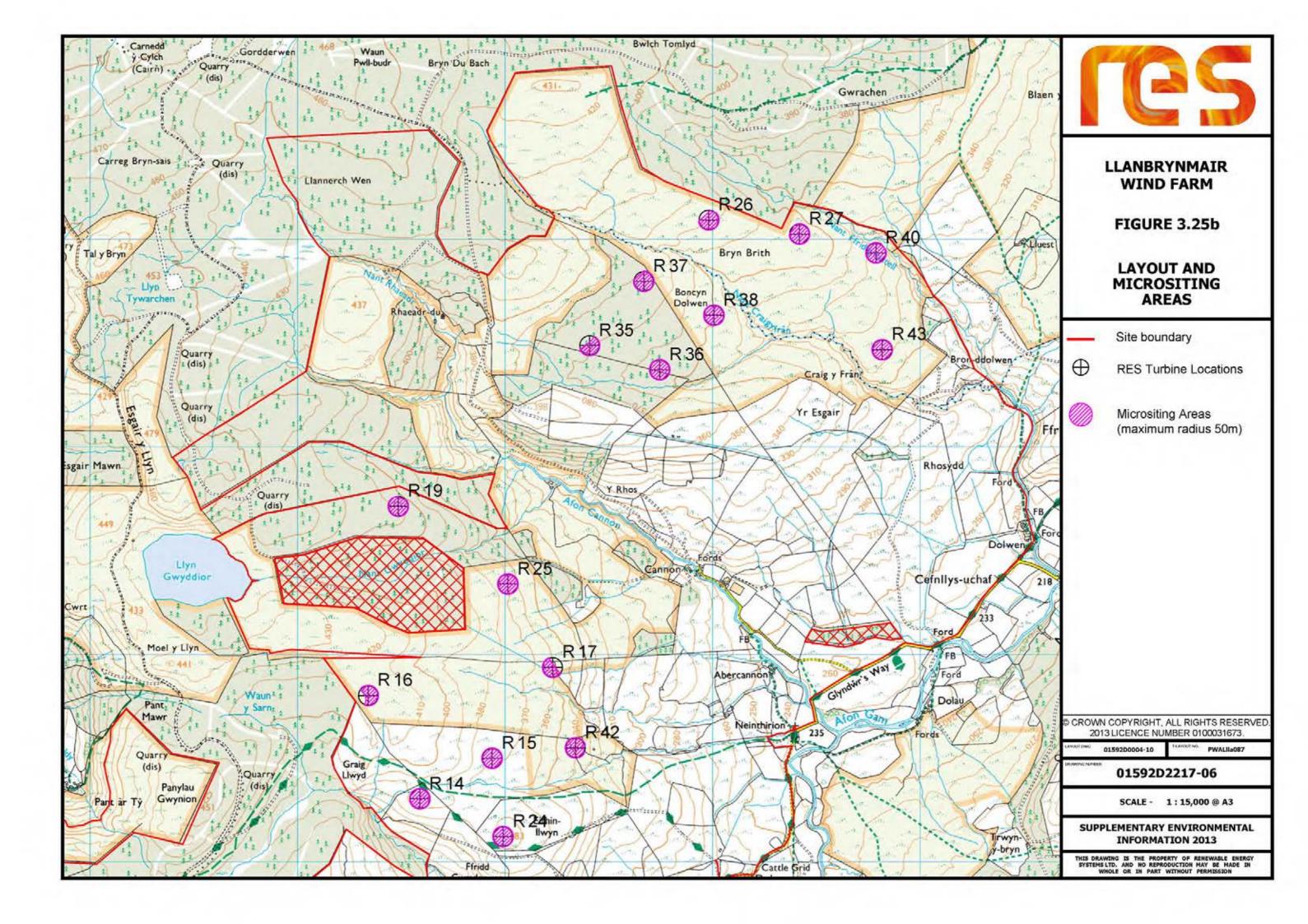
	LLANBRYNMAIR WIND FARM FIGURE 3.21
	TYPICAL BATCHING PLANT LAYOUT
	DTES
1.	ALL DIMENSIONS IN METRES UNLESS NOTED OTHERWISE. SIZE, NUMBER AND LOCATION OF
2.	EQUIPMENT AND FACILITIES ARE INDICATIVE ONLY.
3.	STRUCTURE TO BE TEMPORARY AND T BE REMOVED AFTER CONSTRUCTION.
4.	REFER TO DRAWING 01592D1002-22 FO BATCHING PLANT LOCATION
AYOUT	WC N/A TLAYOUTAD N/A

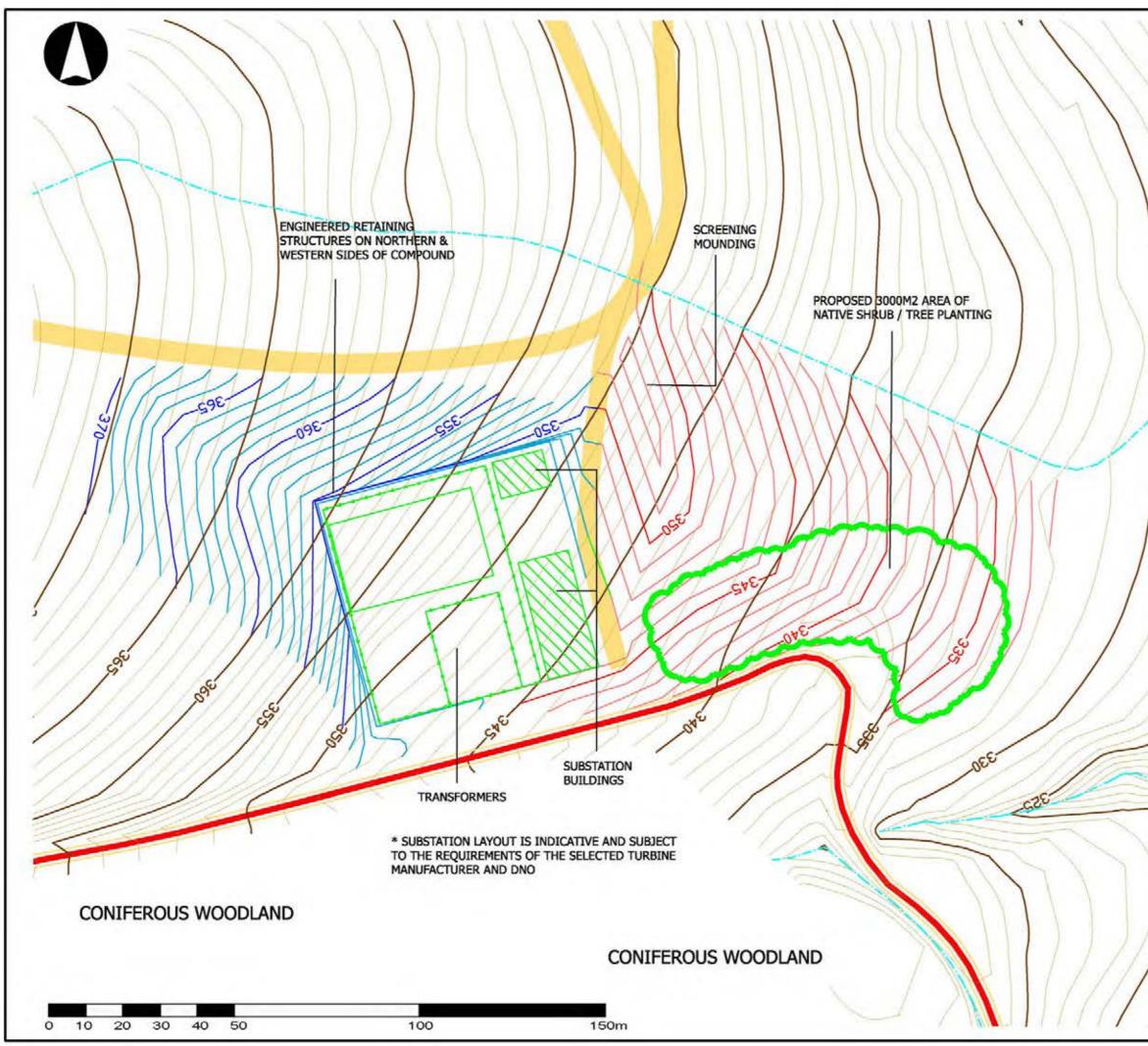








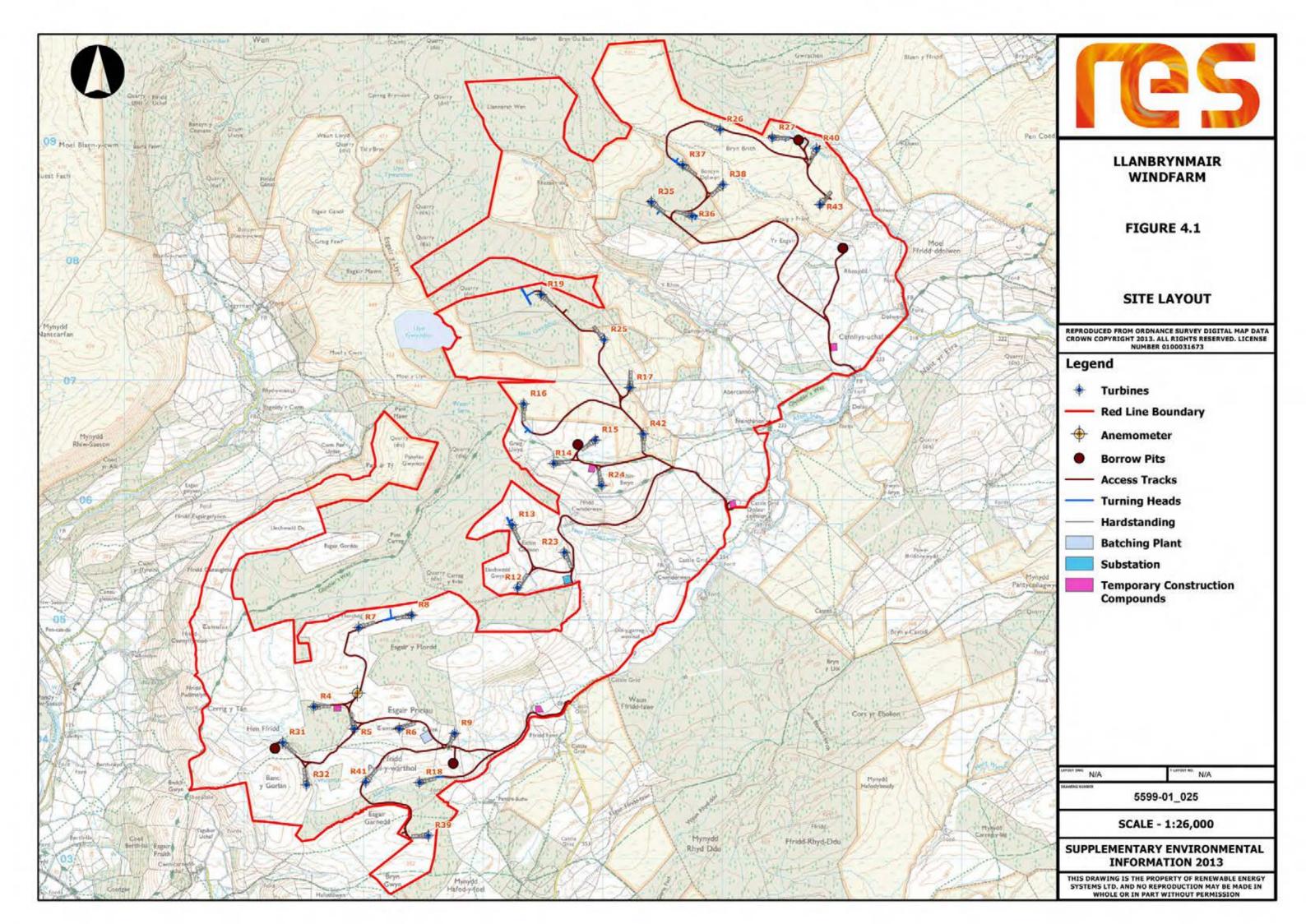


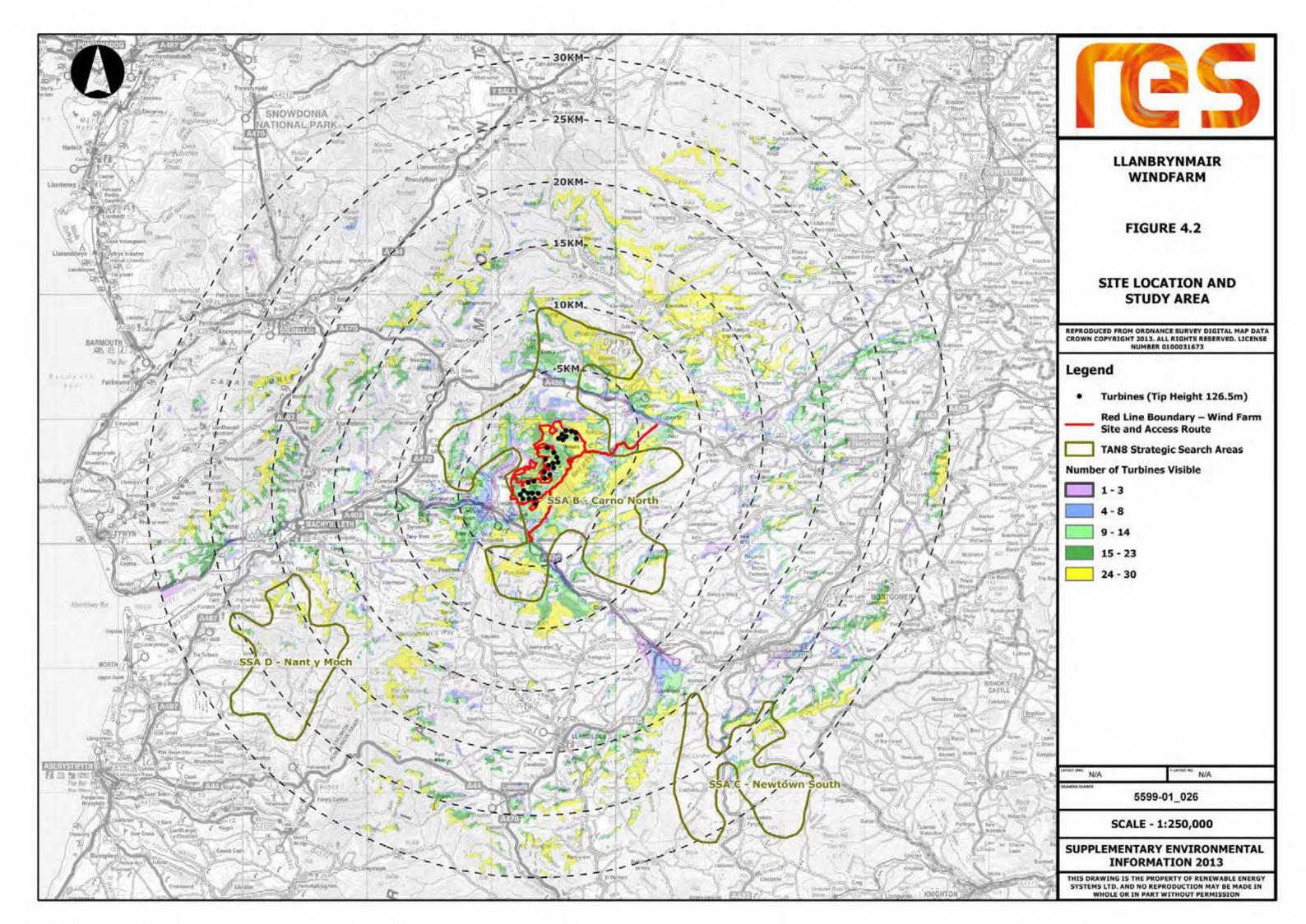


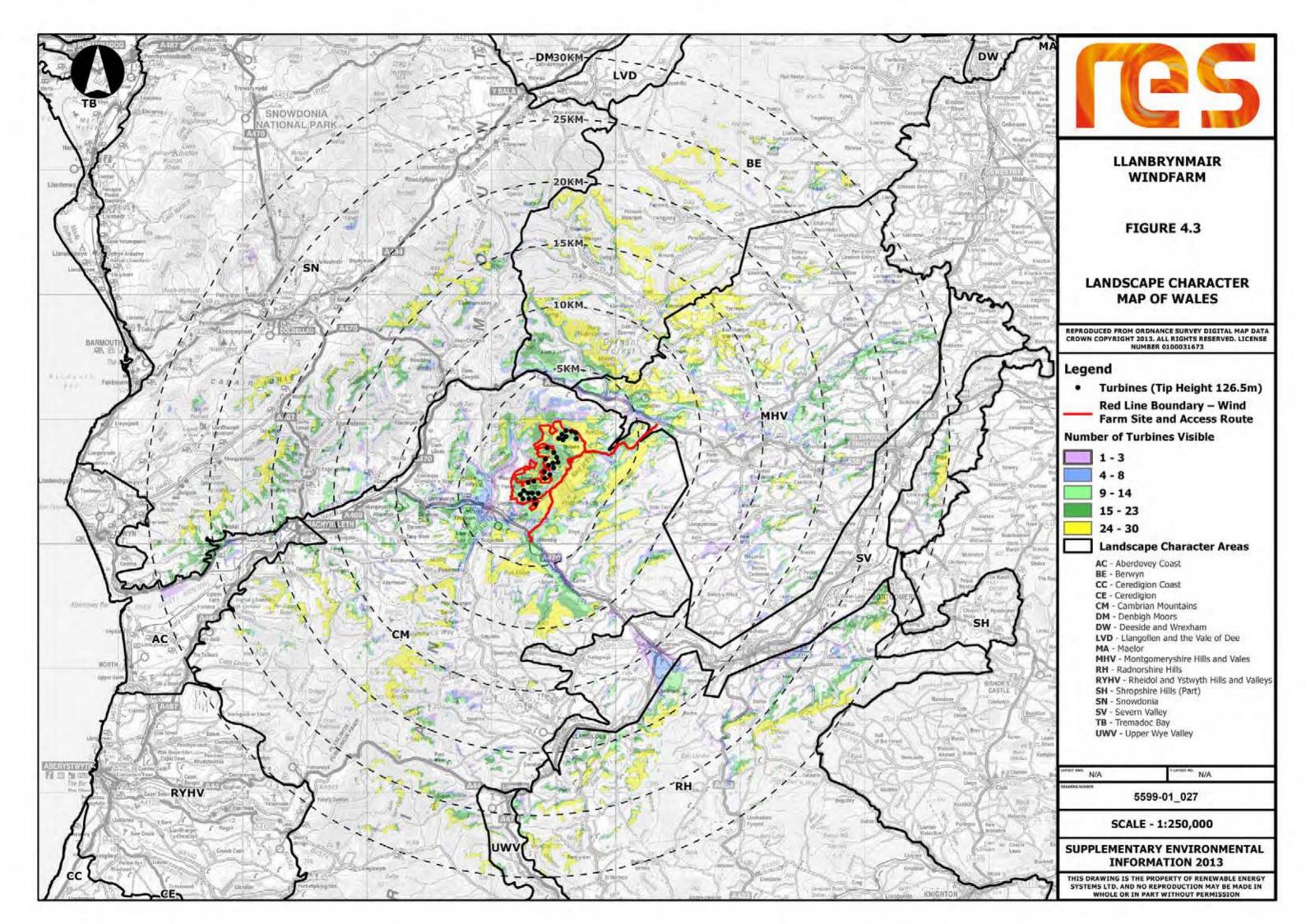
11	res
1	LLANBRYNMAIR WINDFARM
1	
	FIGURE 3.26
	PRIMARY CONTROL BUILDING & SUBSTATION PLAN: PROPOSED GROUND MODELLING & PLANTING
	REPRODUCED FROM ORDNANCE SURVEY DIGITAL MAP DATA CROWN COPYRIGHT 2013. ALL RIGHTS RESERVED. LICENSE NUMBER 0100031673
1	
/	APPLICATION BOUNDARY
	EXISTING TRACK
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1	PROP ACCESS TRACK
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/	* PROPOSED GROUND LEVELS ARE INDICATIVE ONLY AND SUBJECT TO FURTHER DETAILED DESIGN
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/	N/A
11	SCALE - 1:1000
1	SUPPLEMENTARY ENVIRONMENTAL INFORMATION 2013
	THIS DRAWING IS THE PROPERTY OF RENEWABLE ENERGY SYSTEMS LTD. AND NO REPRODUCTION MAY BE MADE IN WHOLE OR IN PART WITHOUT PERMISSION

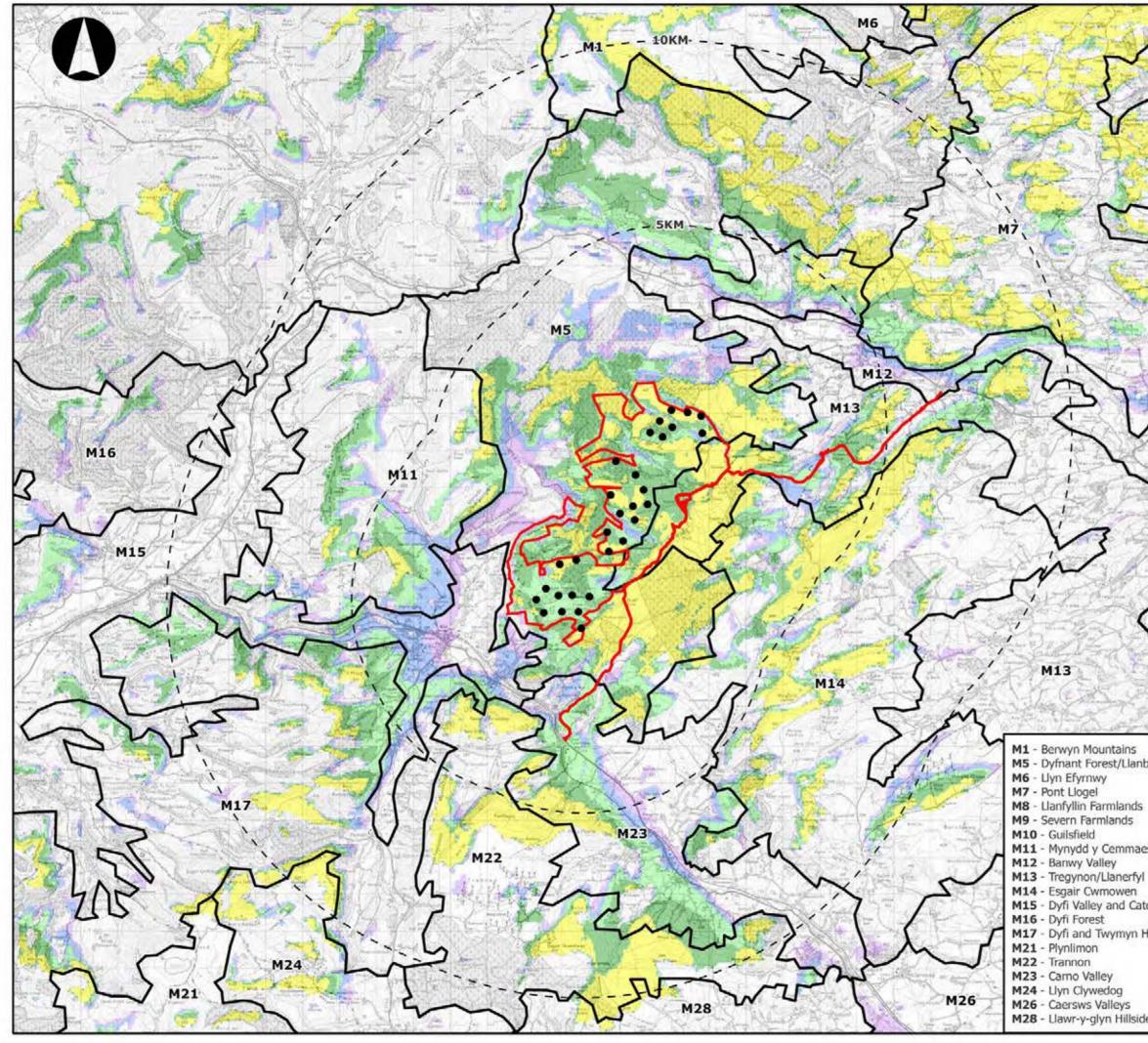
CHAPTER 4: LANDSCAPE AND VISUAL ASSESSMENT FIGURES



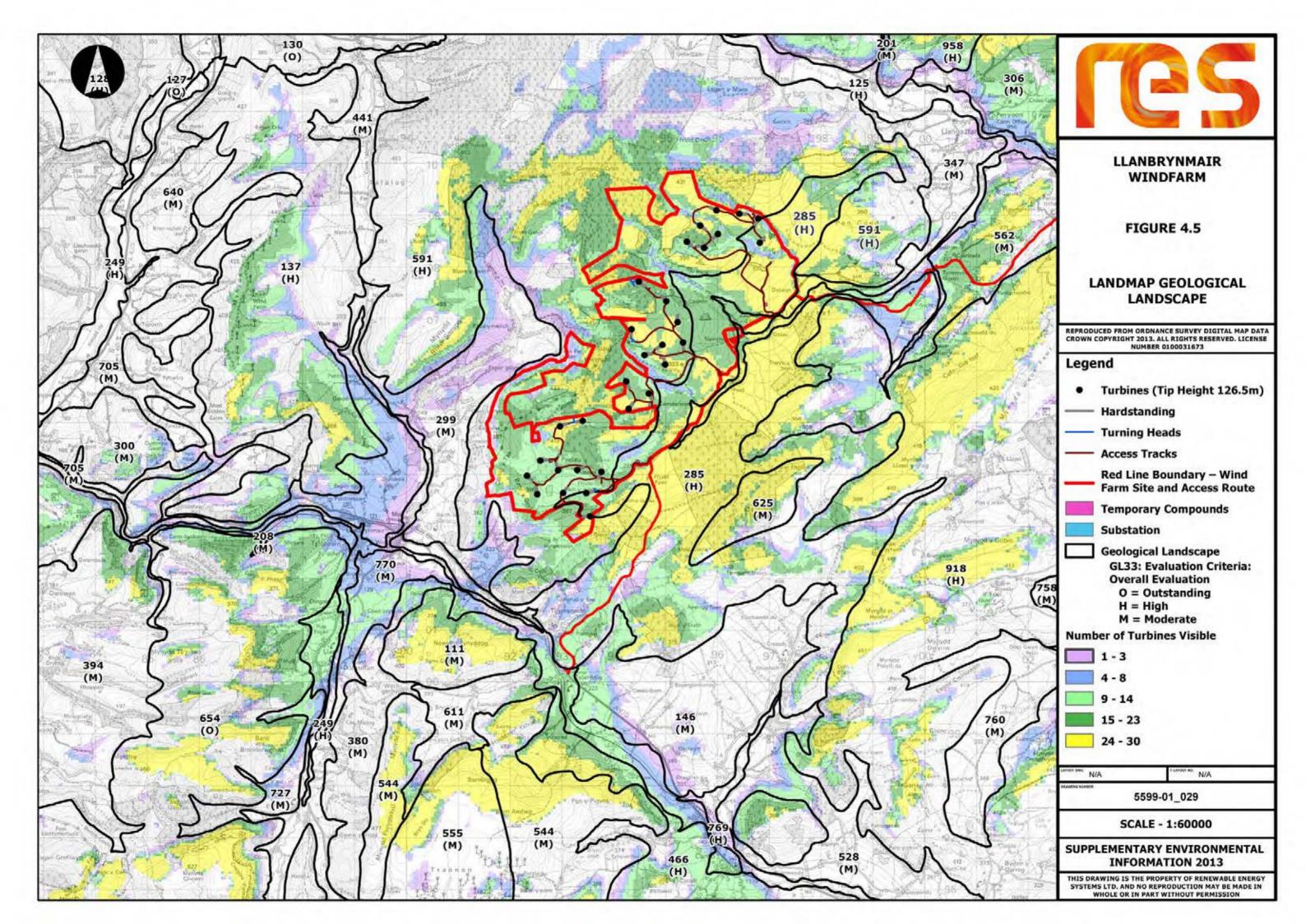


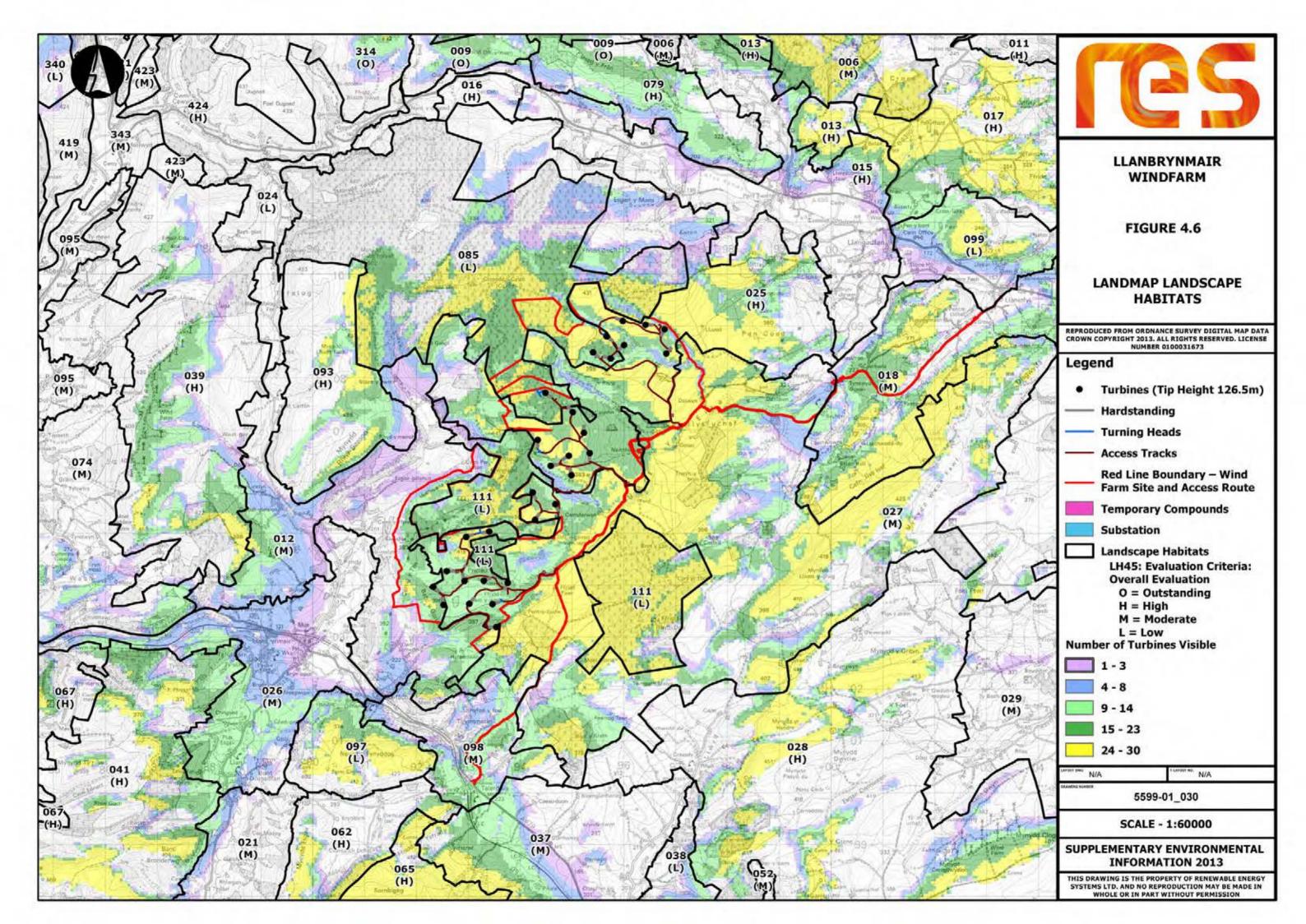






M8 (M9	G
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	LLANBRYNMAIR WINDFARM
	FIGURE 4.4
Ma	POWYS LANDSCAPE CHARACTER ASSESSMENT
and the	REPRODUCED FROM ORDNANCE SURVEY DIGITAL MAP DATA CROWN COPYRIGHT 2013. ALL RIGHTS RESERVED. LICENSE NUMBER 0100031673
	Legend
2	<ul> <li>Turbines (Tip Height 126.5m)</li> <li>Red Line Boundary – Wind</li> </ul>
+ h	Farm Site and Access Route
12	Landscape Character Areas
$\sim$	Number of Turbines Visible
14 g \	4-8
	9 - 14
M10	15 - 23
Y-	24 - 30
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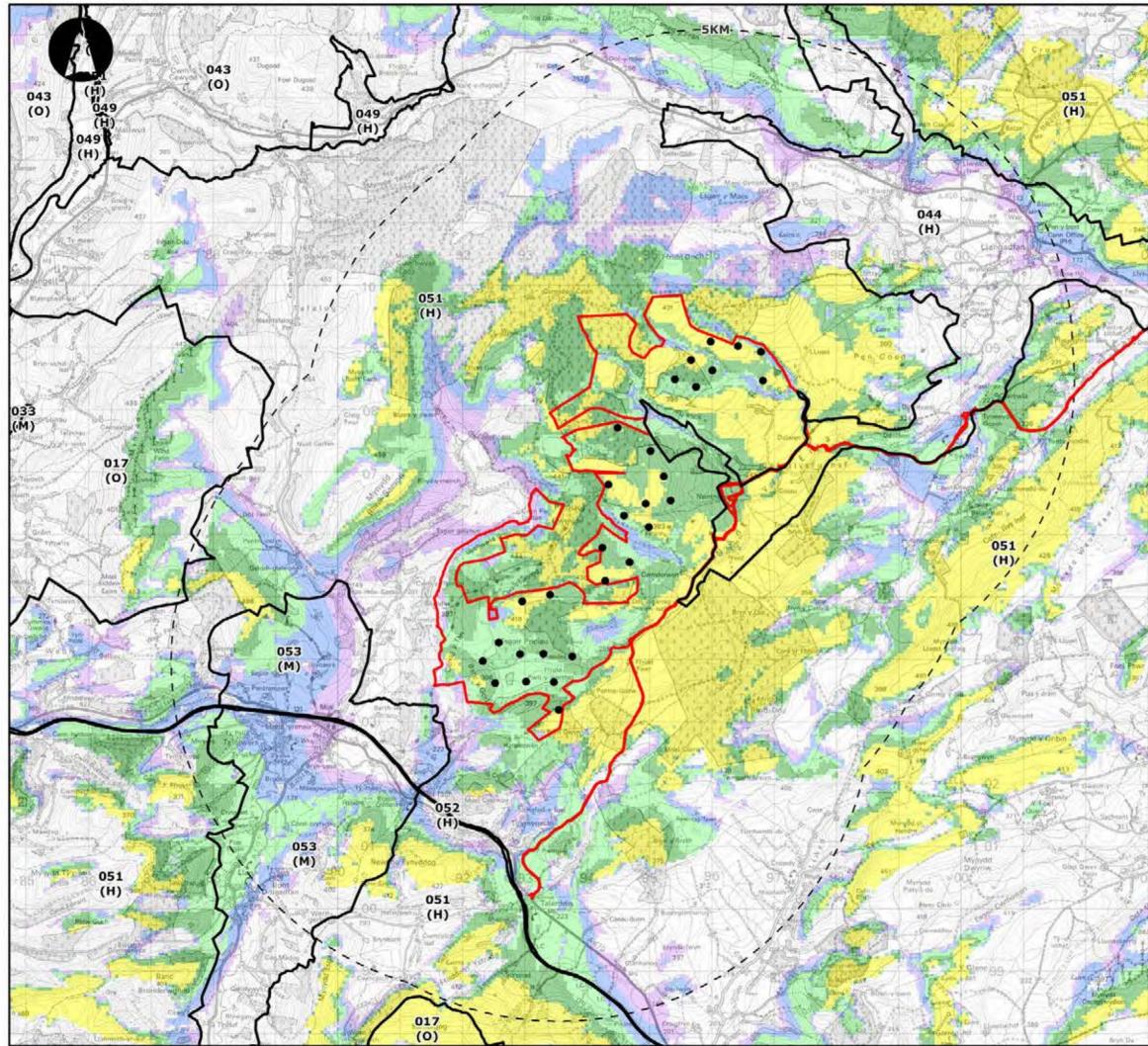
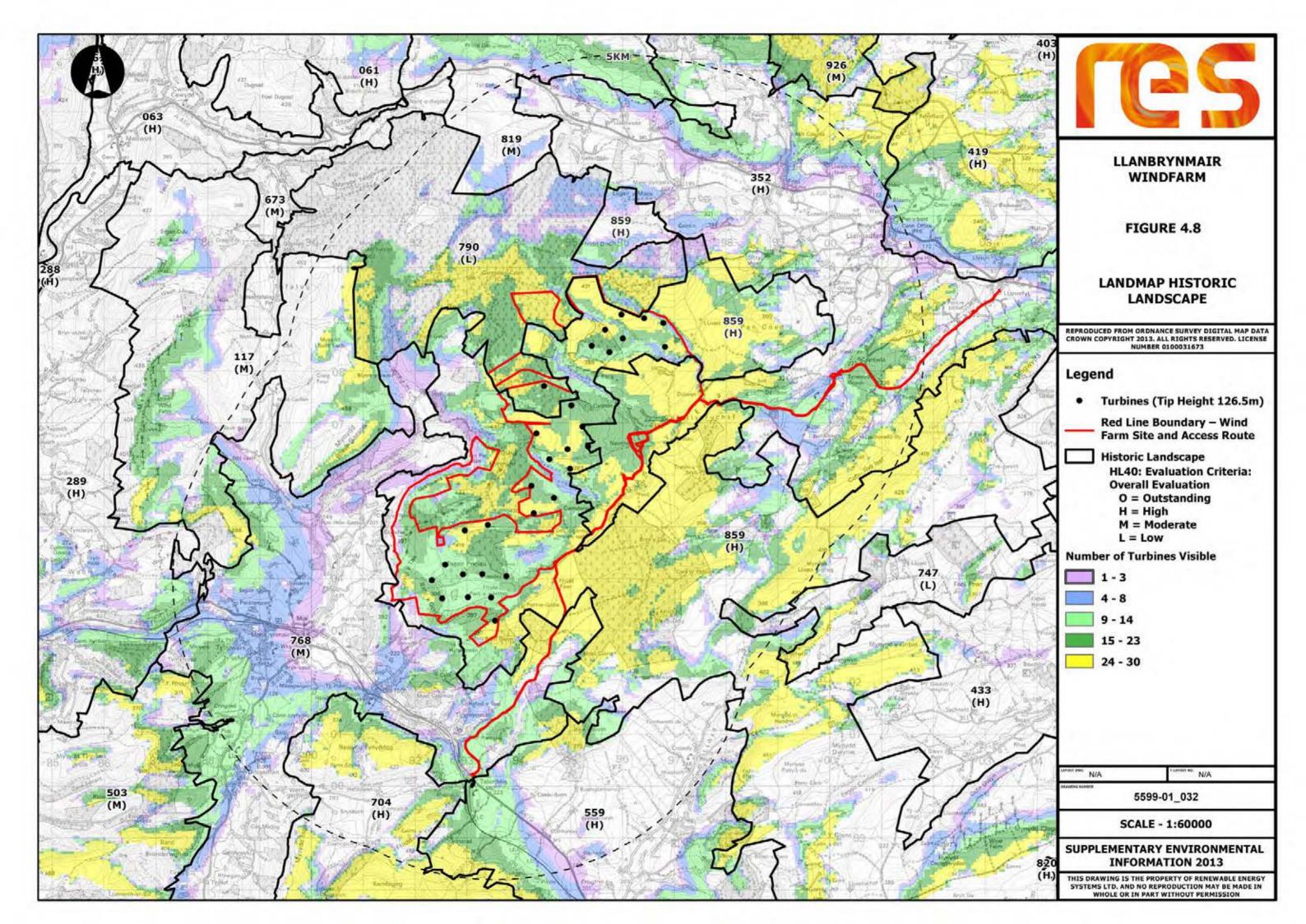
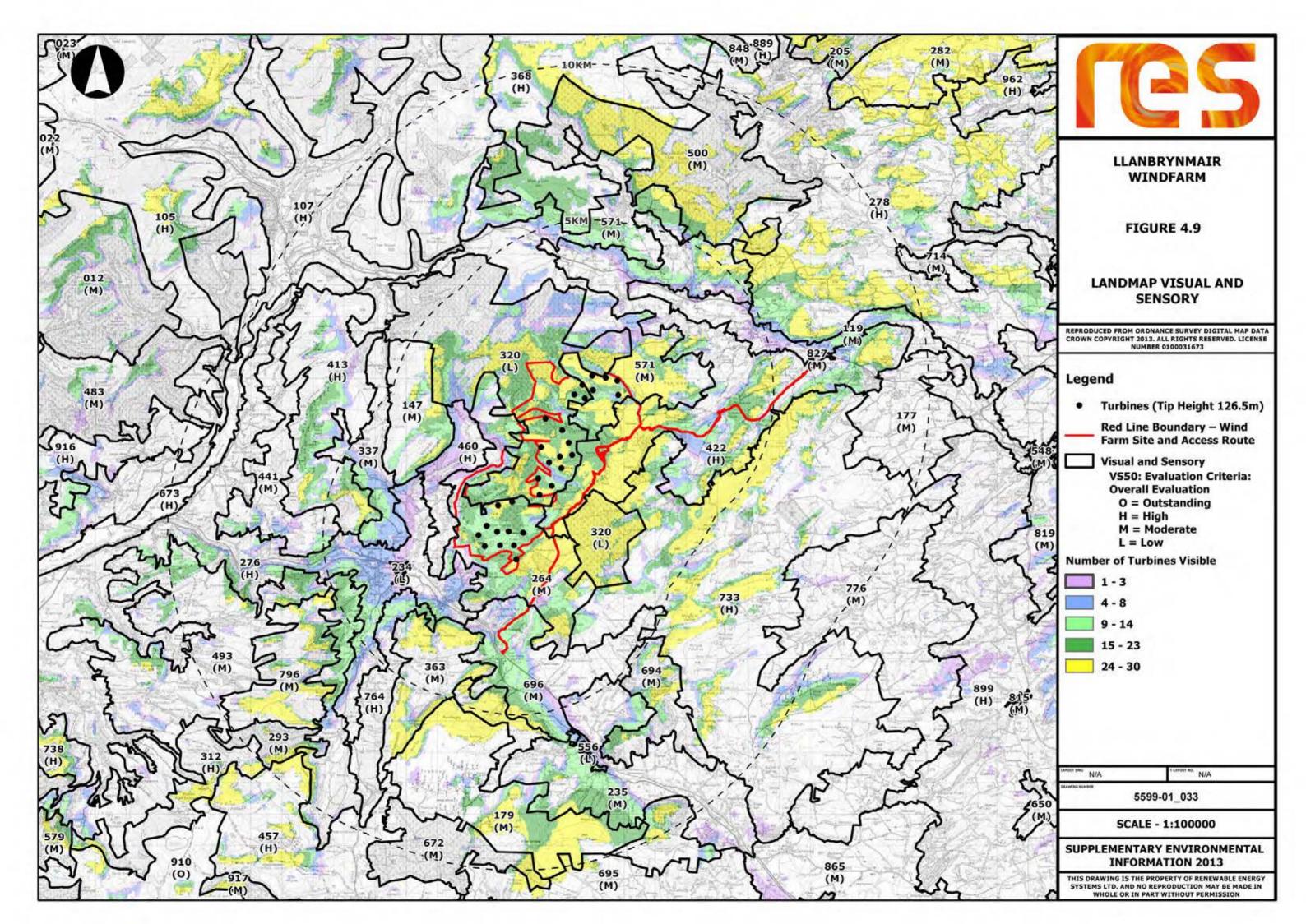
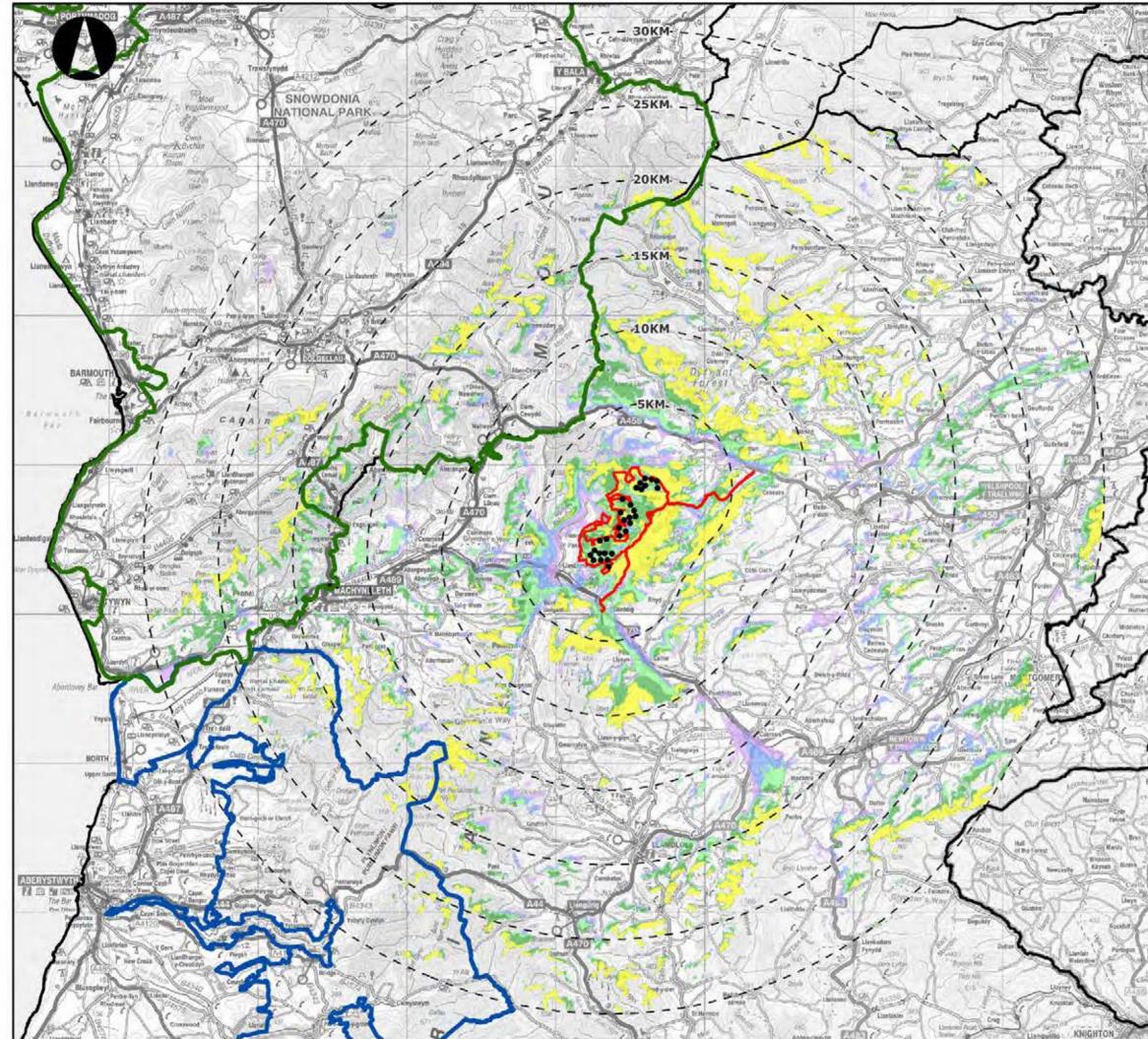


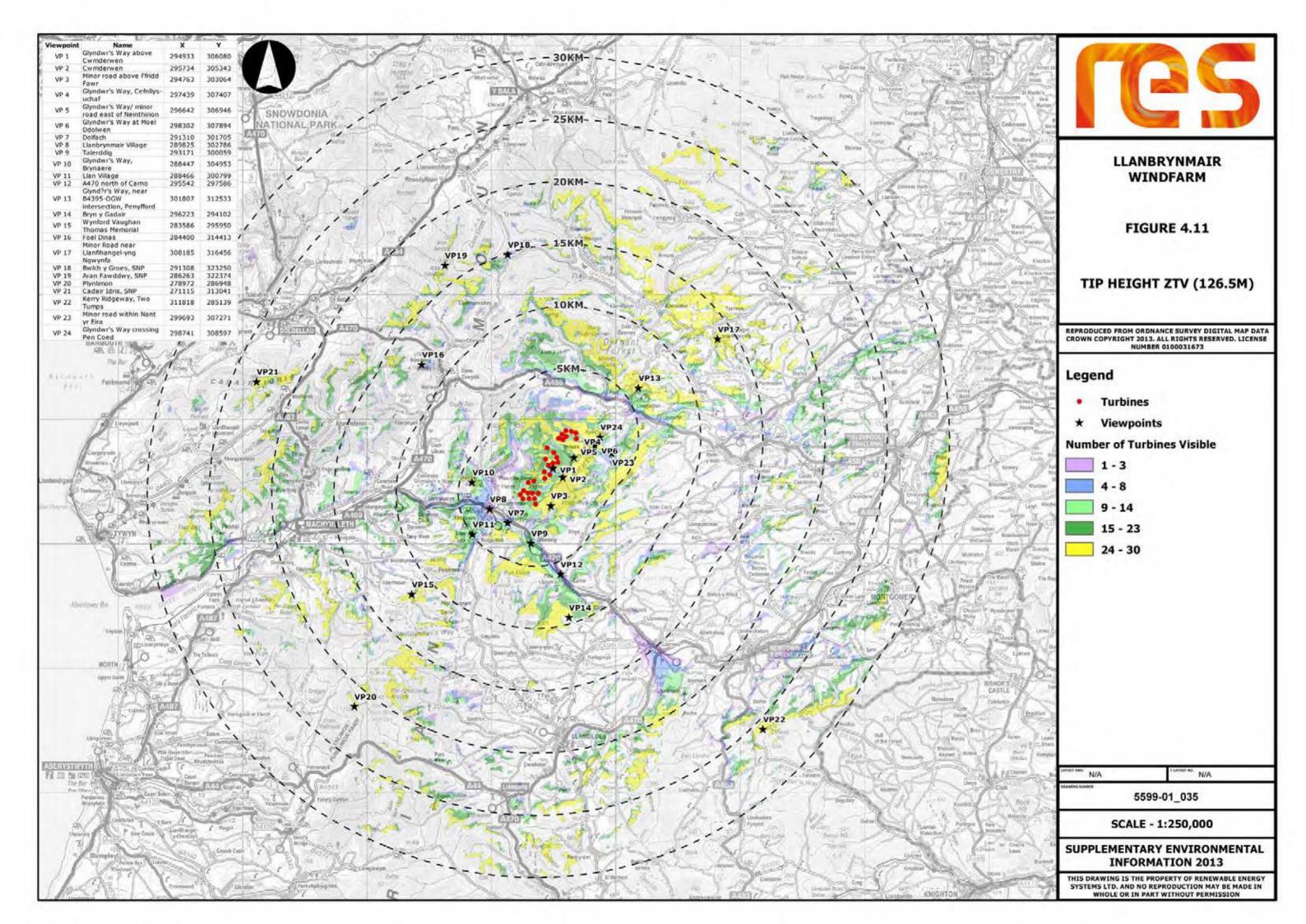
FIGURE 4.7
LANDMAP CULTURAL LANDSCAPE
REPRODUCED FROM ORDNANCE SURVEY DIGITAL MAP DATA CROWN COPYRIGHT 2013. ALL RIGHTS RESERVED. LICENSE NUMBER 0100031673
Legend  Turbines (Tip Height 126.5m) Red Line Boundary – Wind Farm Site and Access Route  Cultural Landscape CL40: Evaluation Criteria: Overall Evaluation 0 = Outstanding H = High M = Moderate  Number of Turbines Visible  1 - 3 1 - 3 4 - 8 9 - 14 15 - 23 24 - 30
N/A *CATOUT NO. N/A
5599-01_031
SCALE - 1:60000
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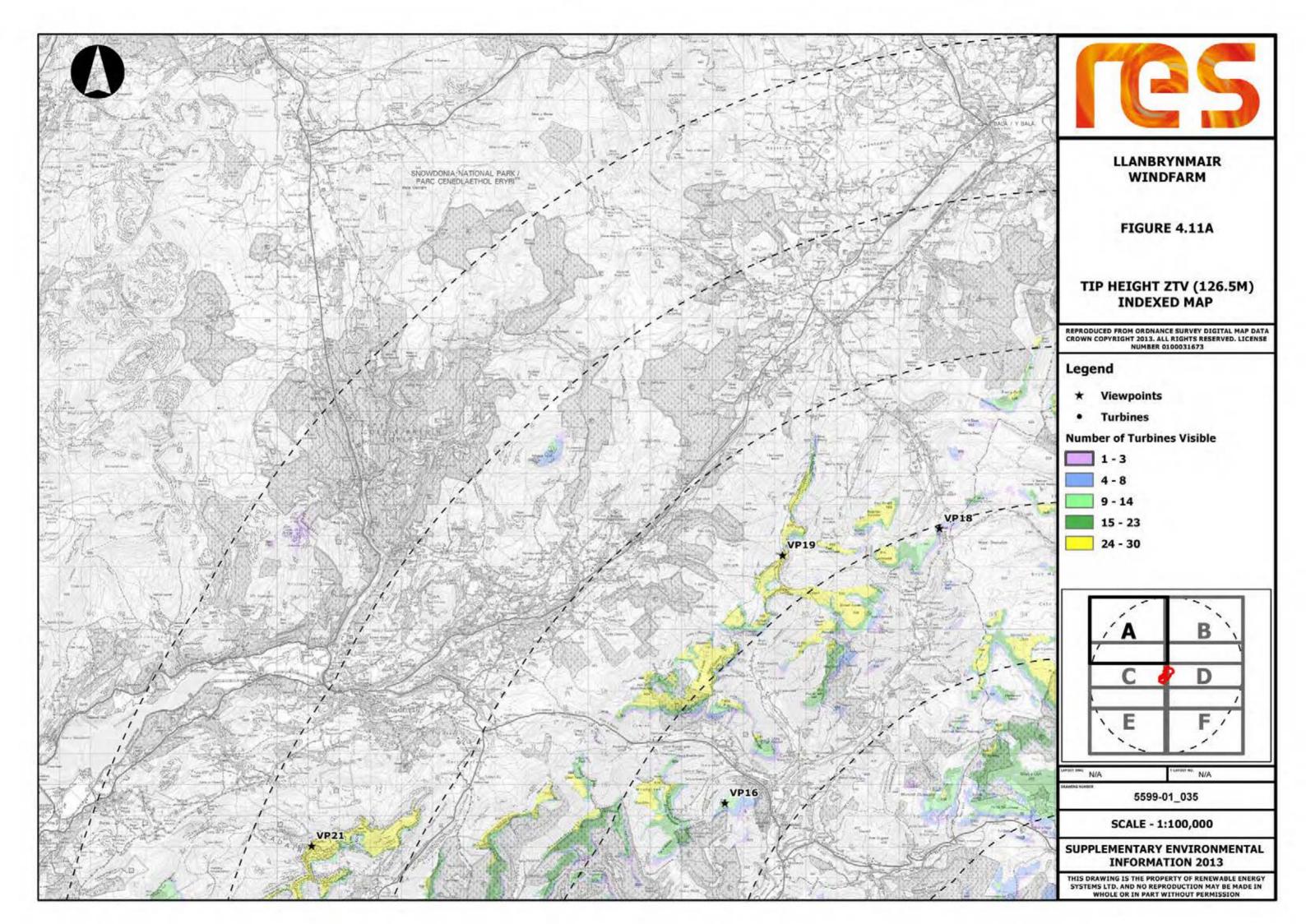


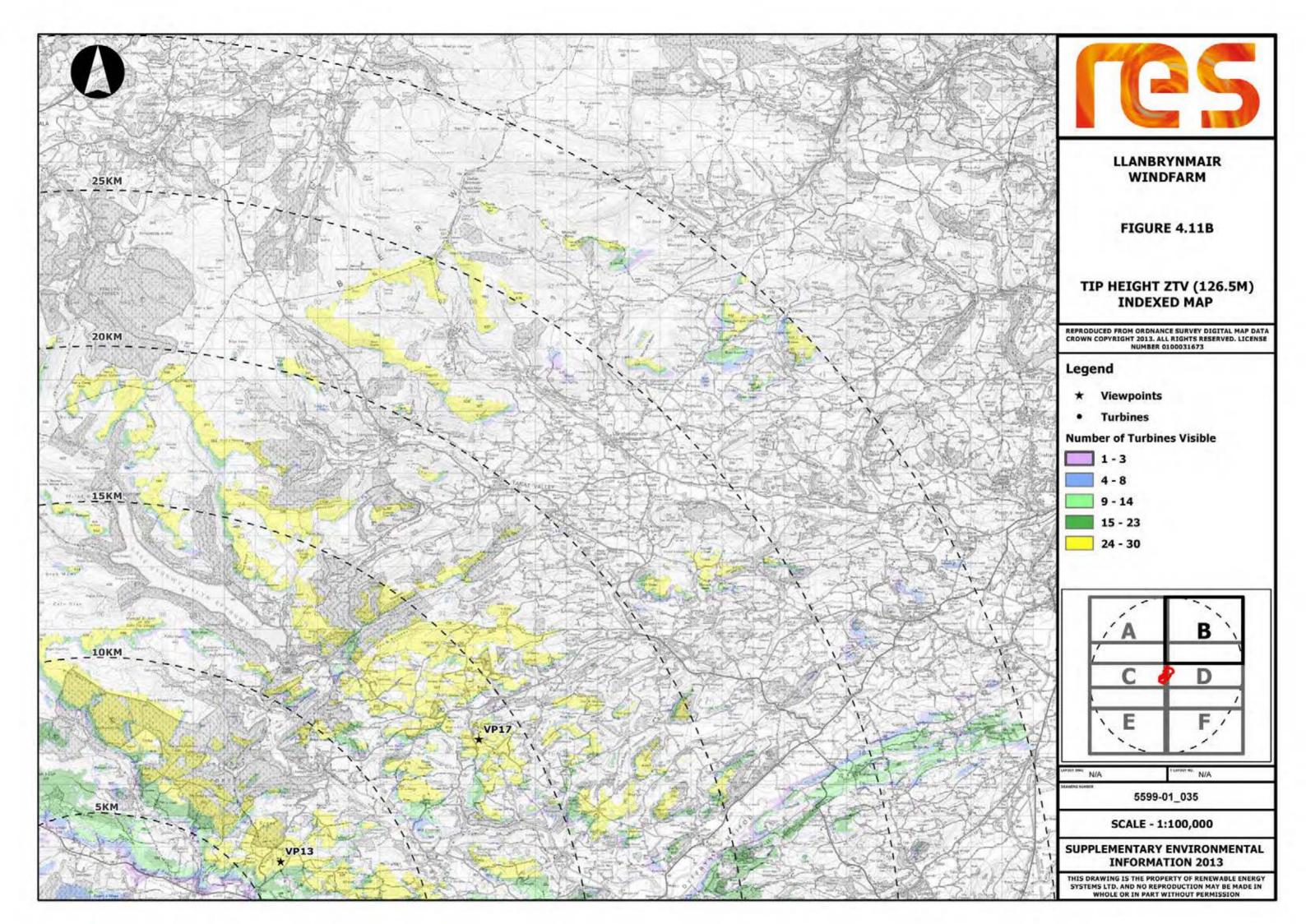


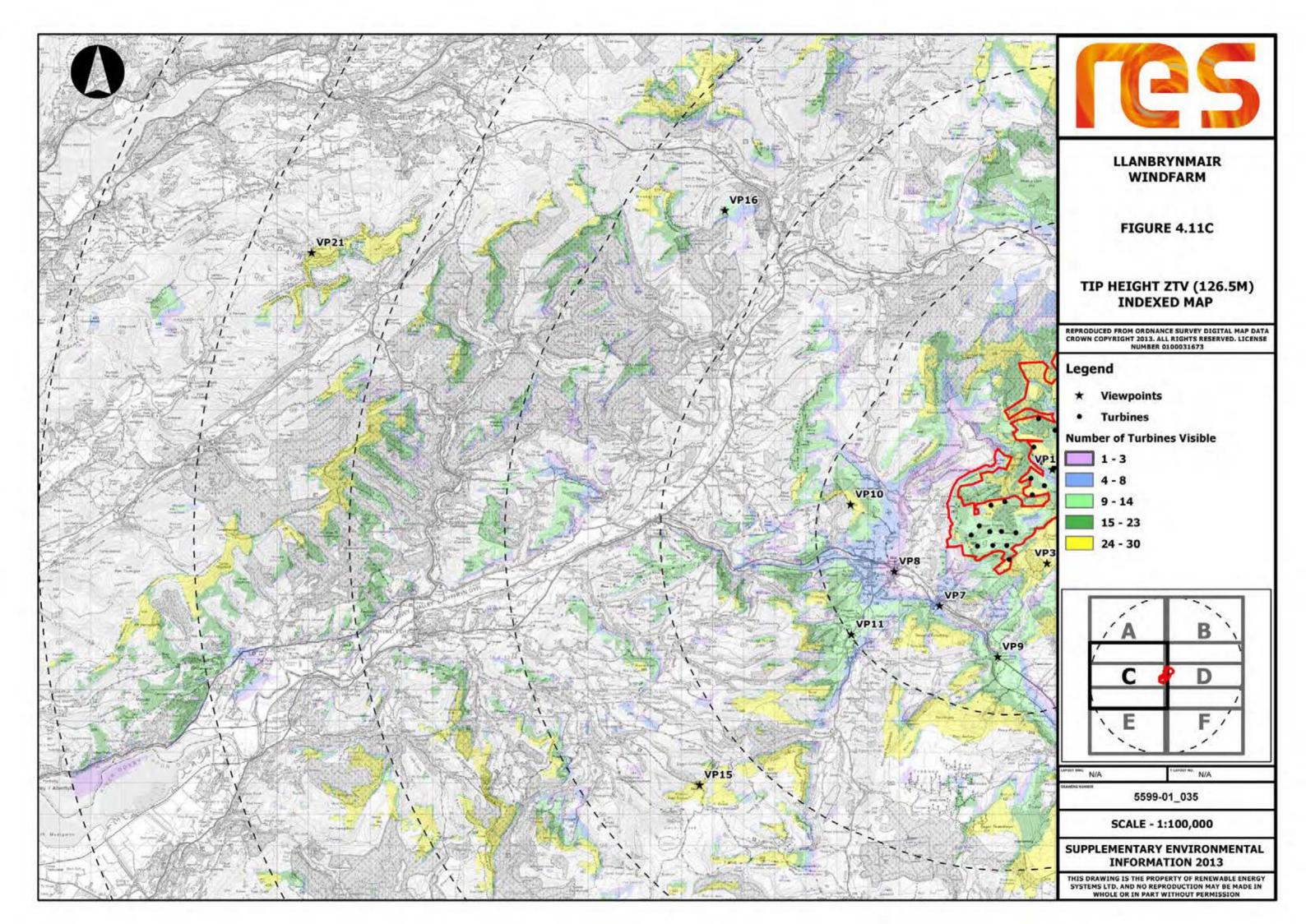


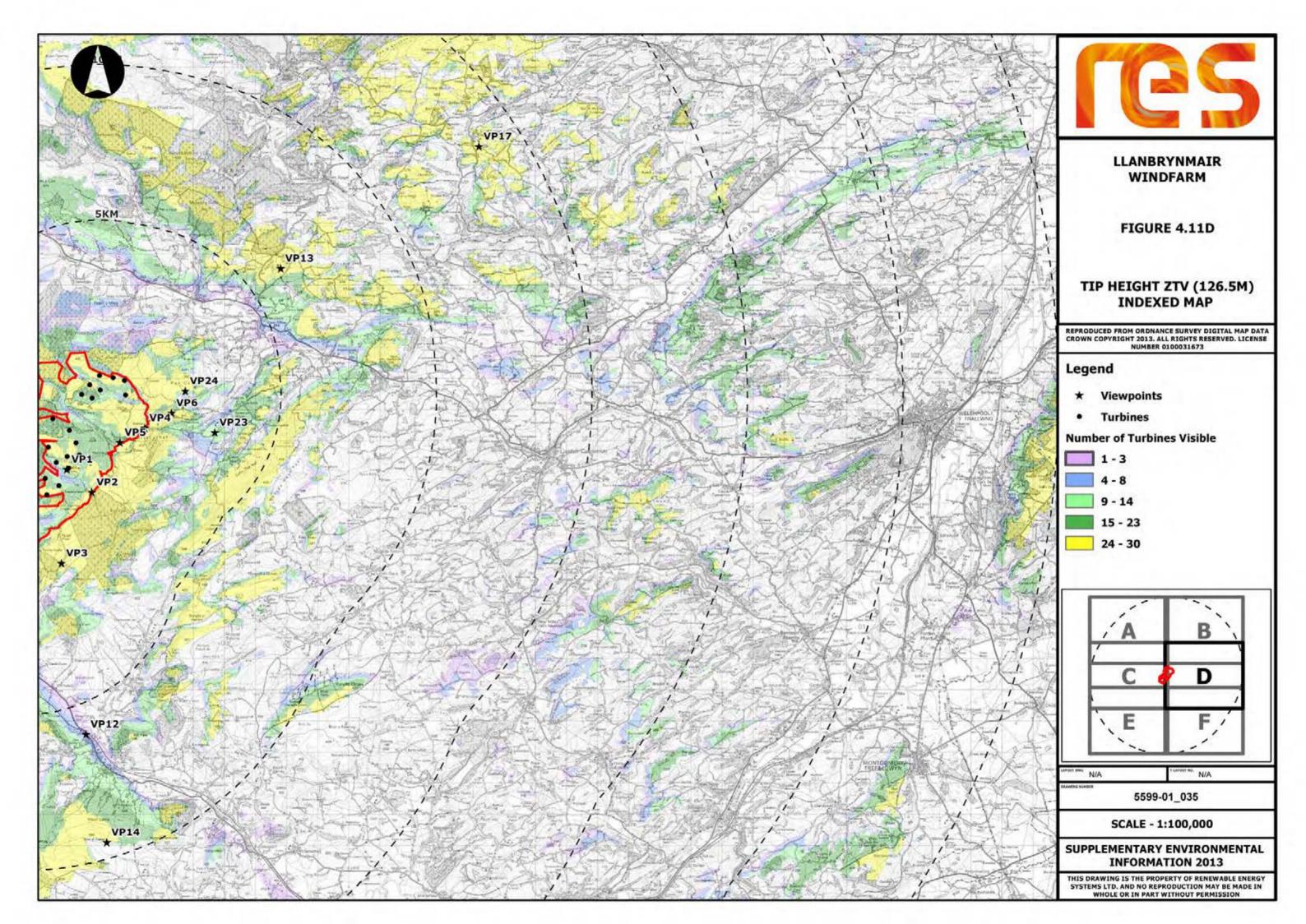
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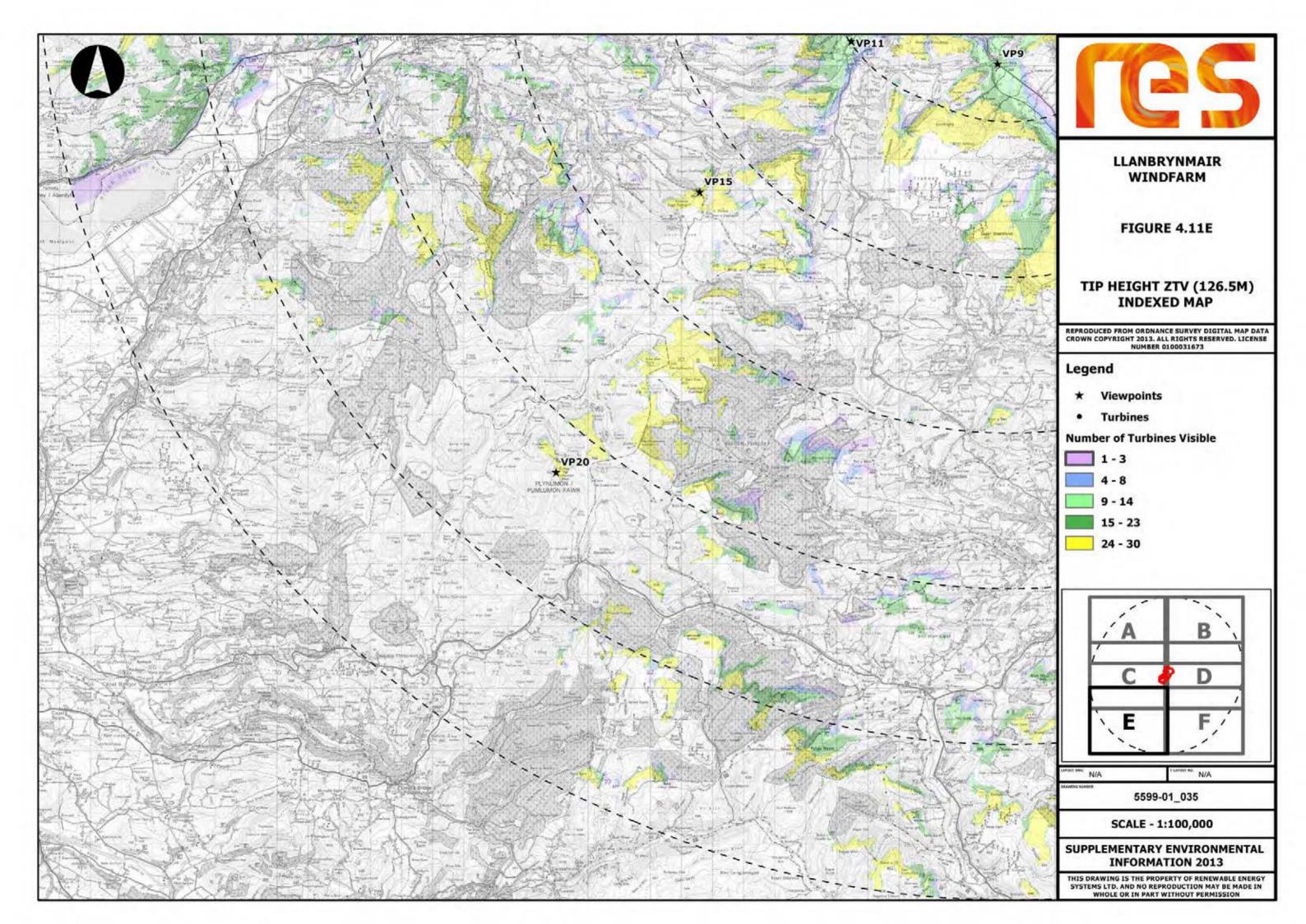


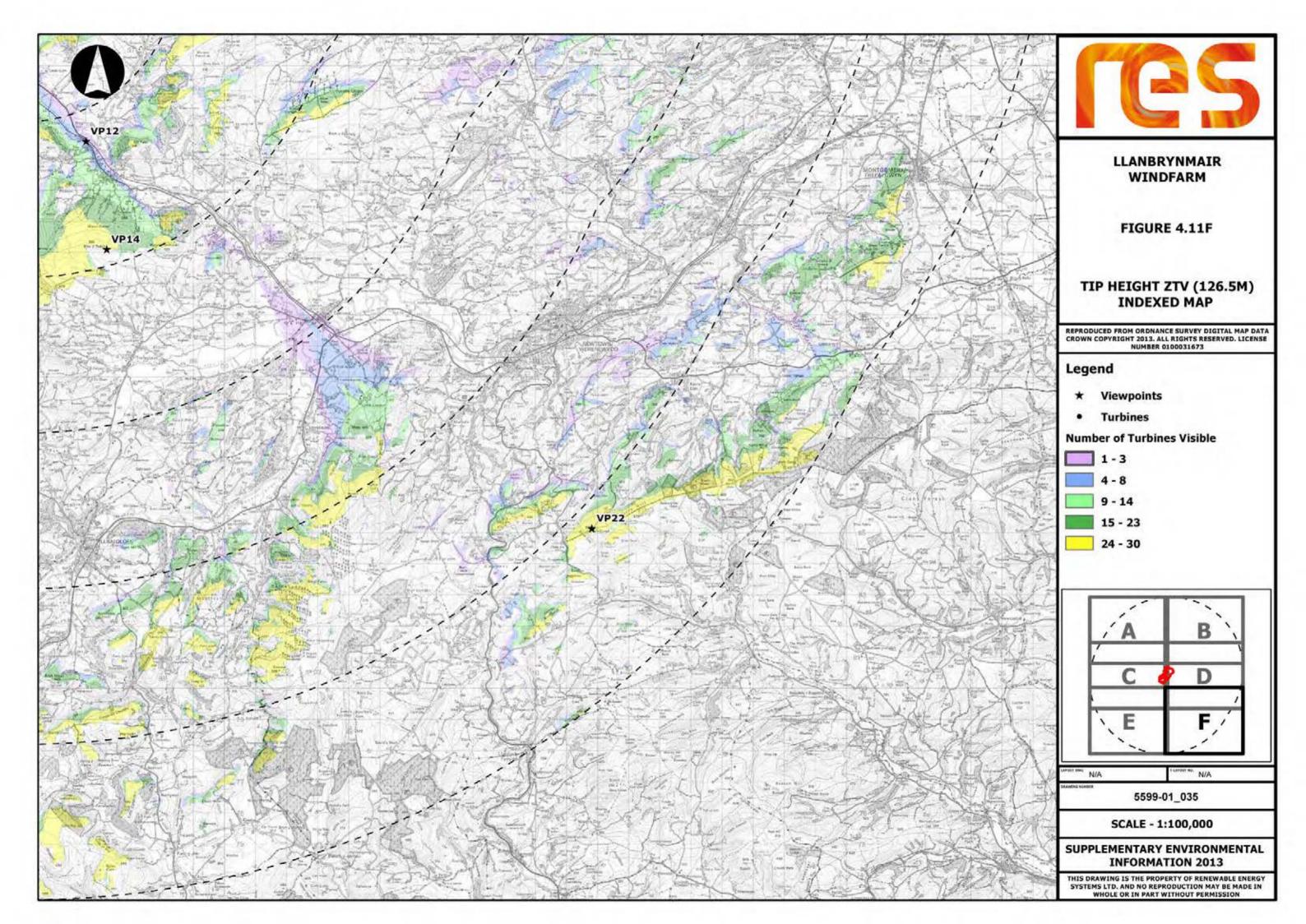


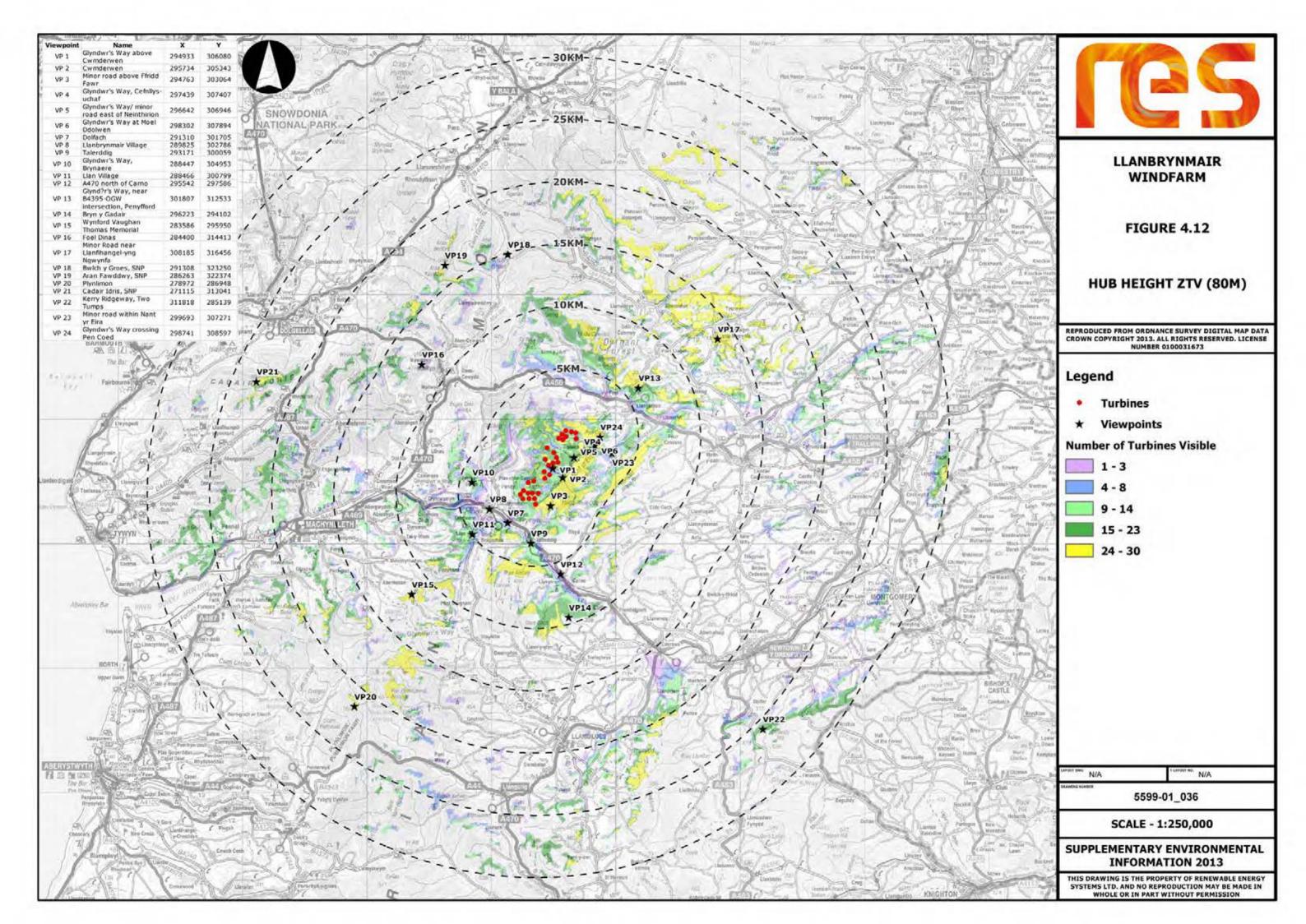


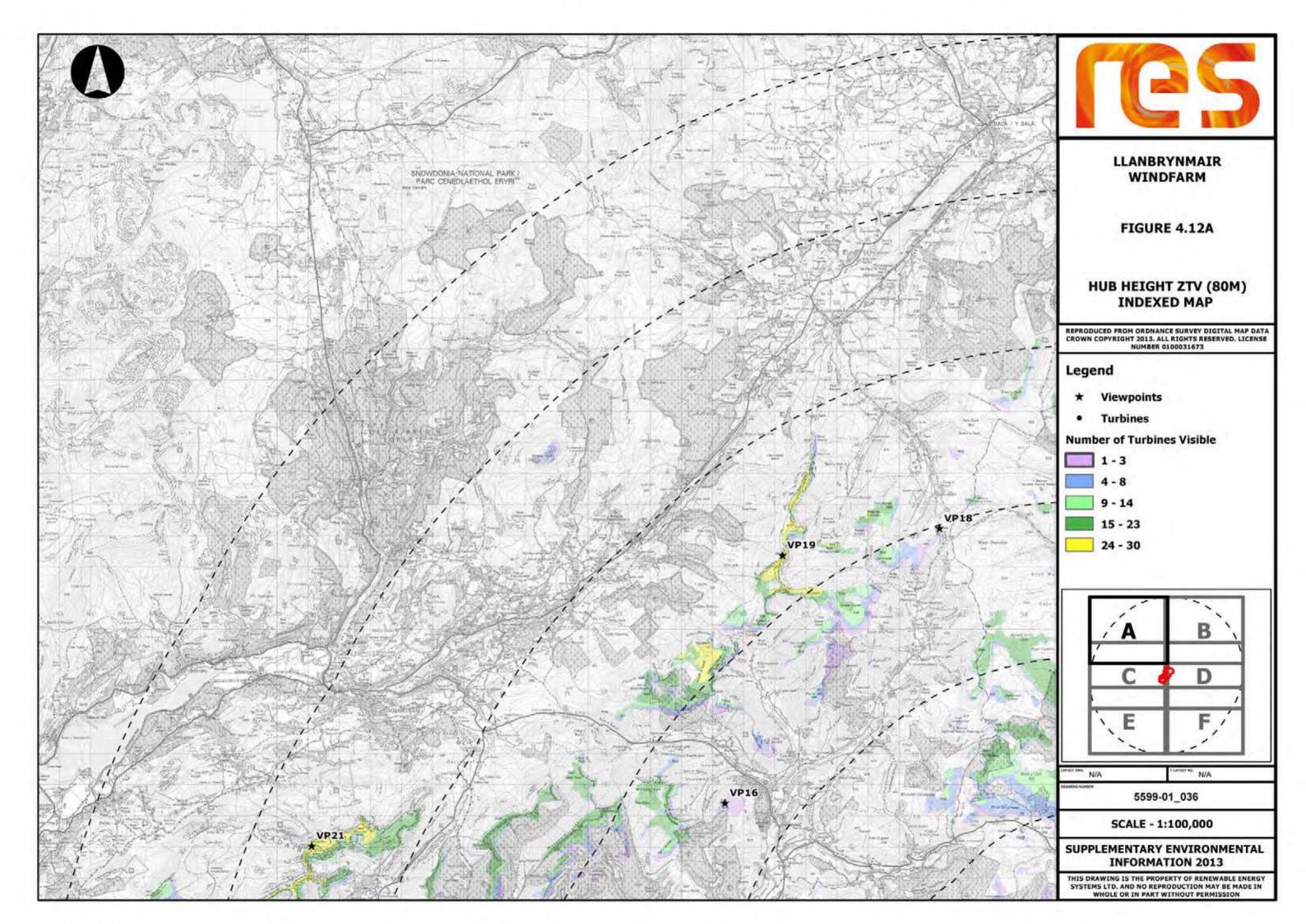


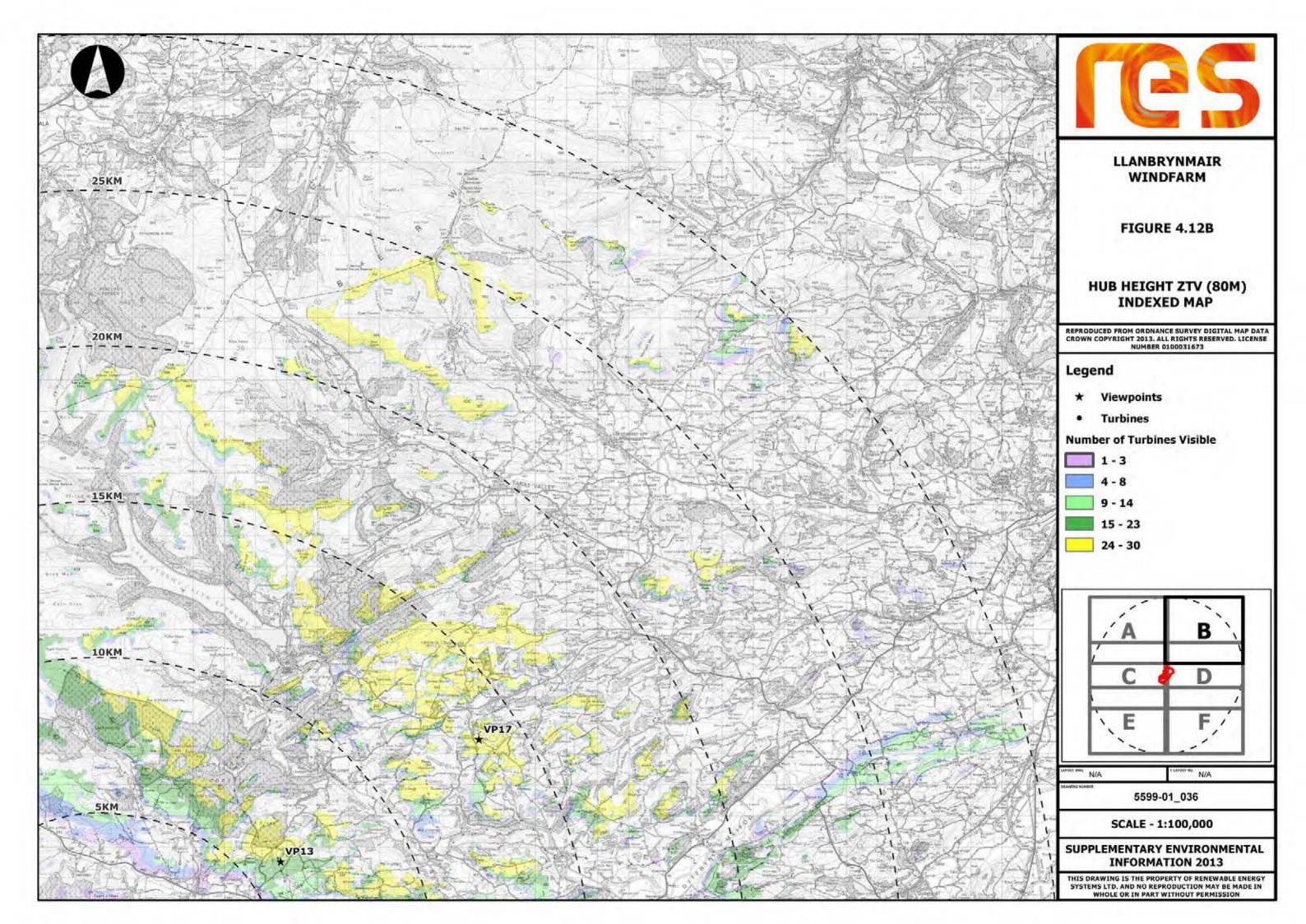


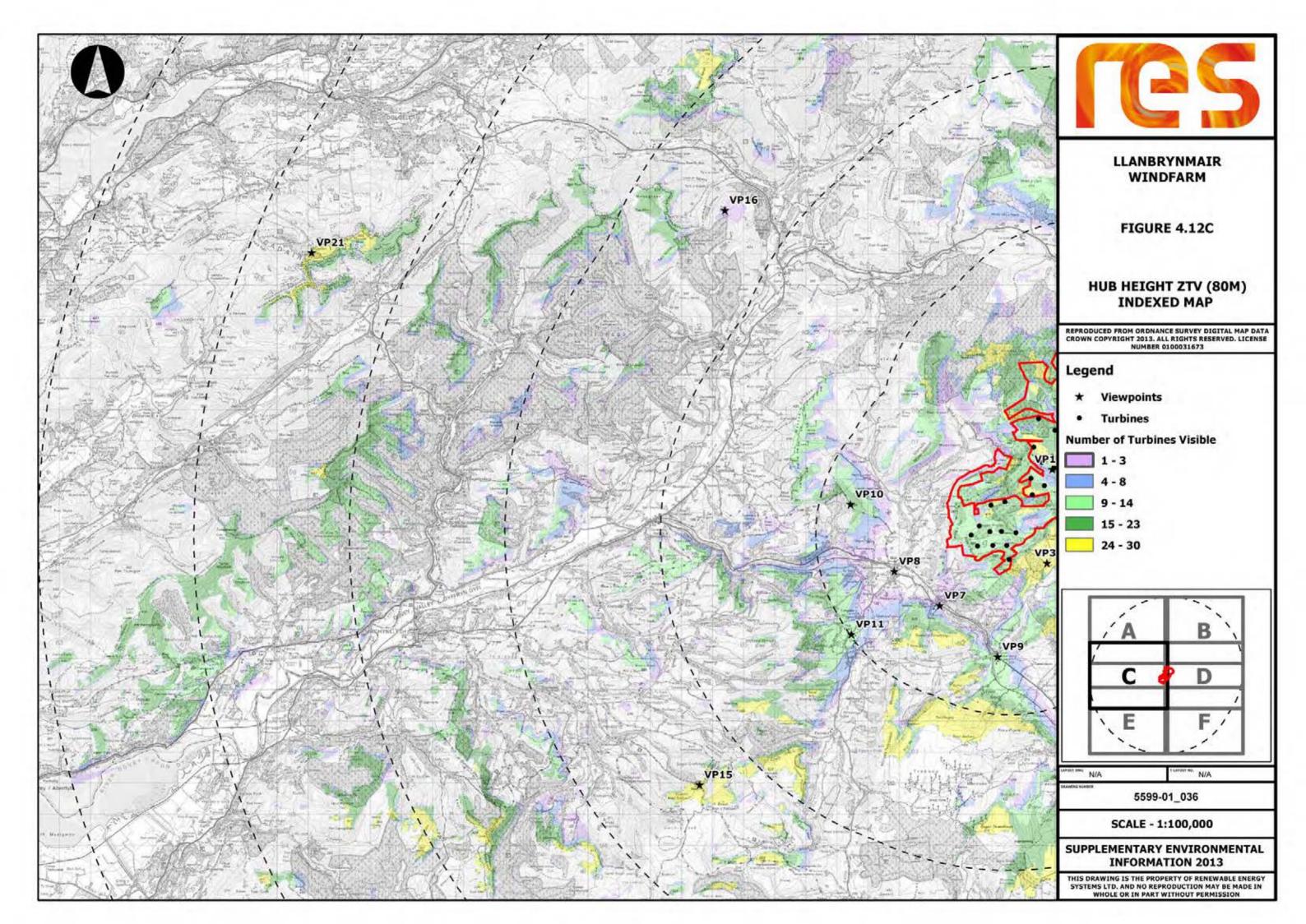


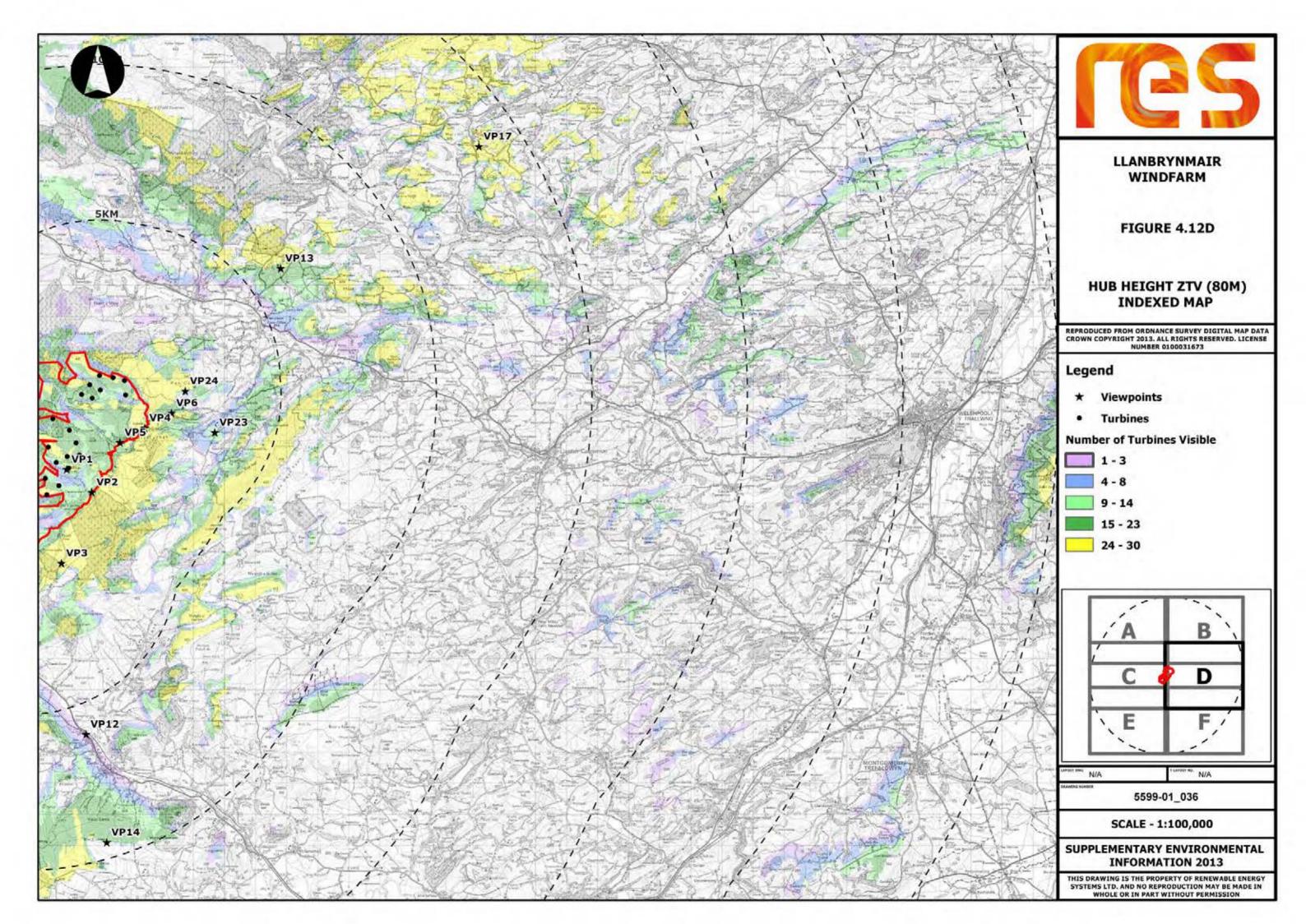


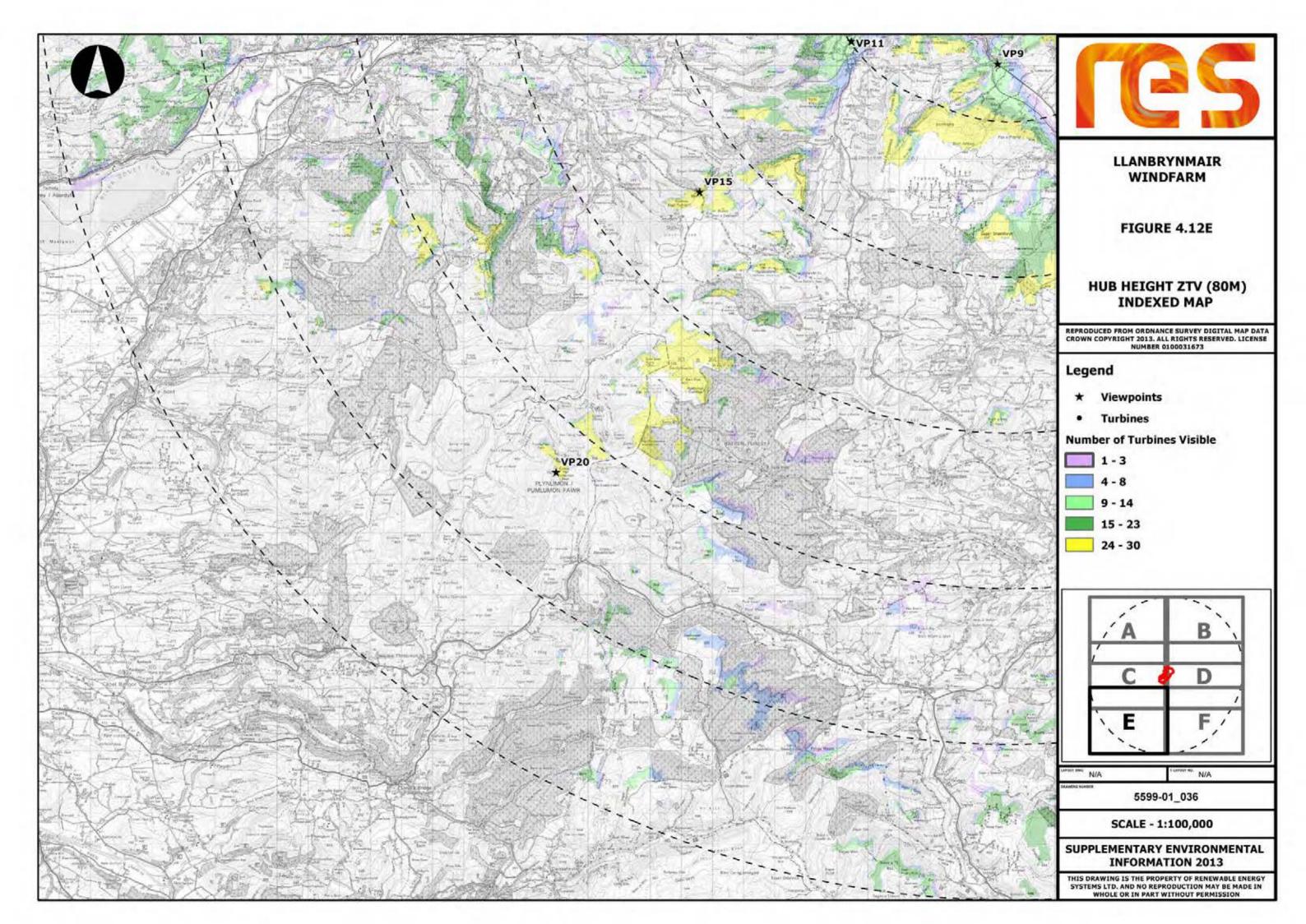


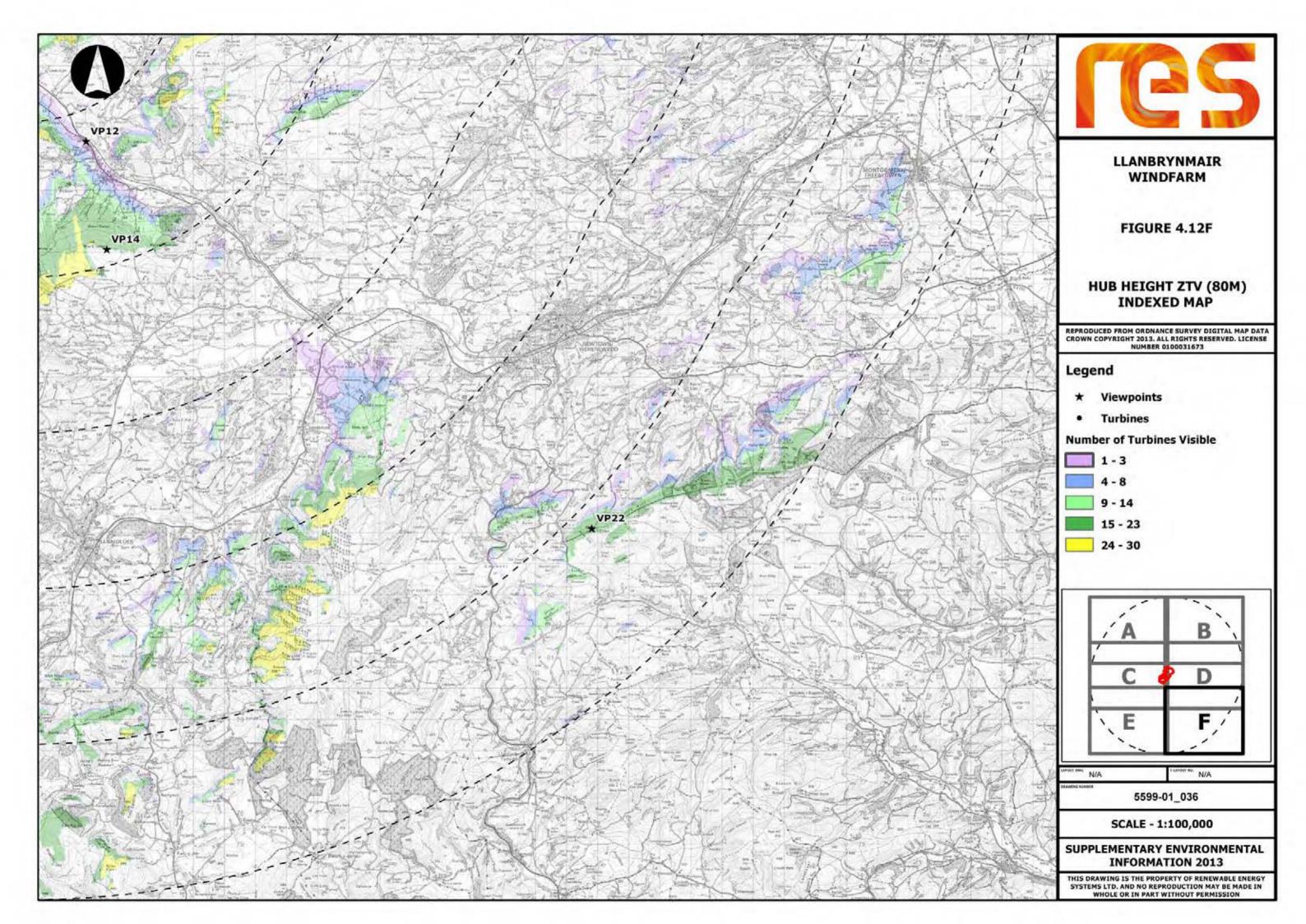


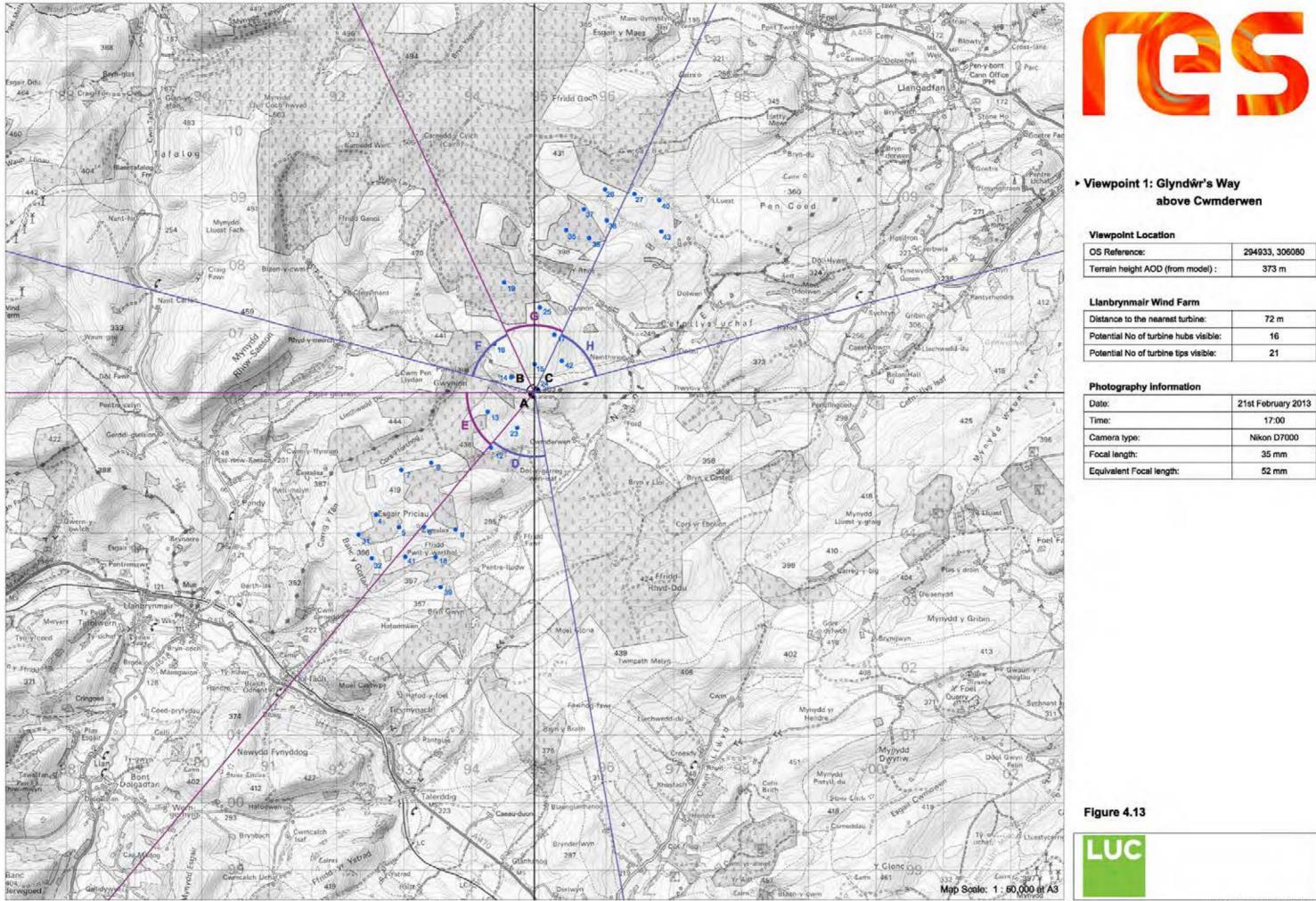












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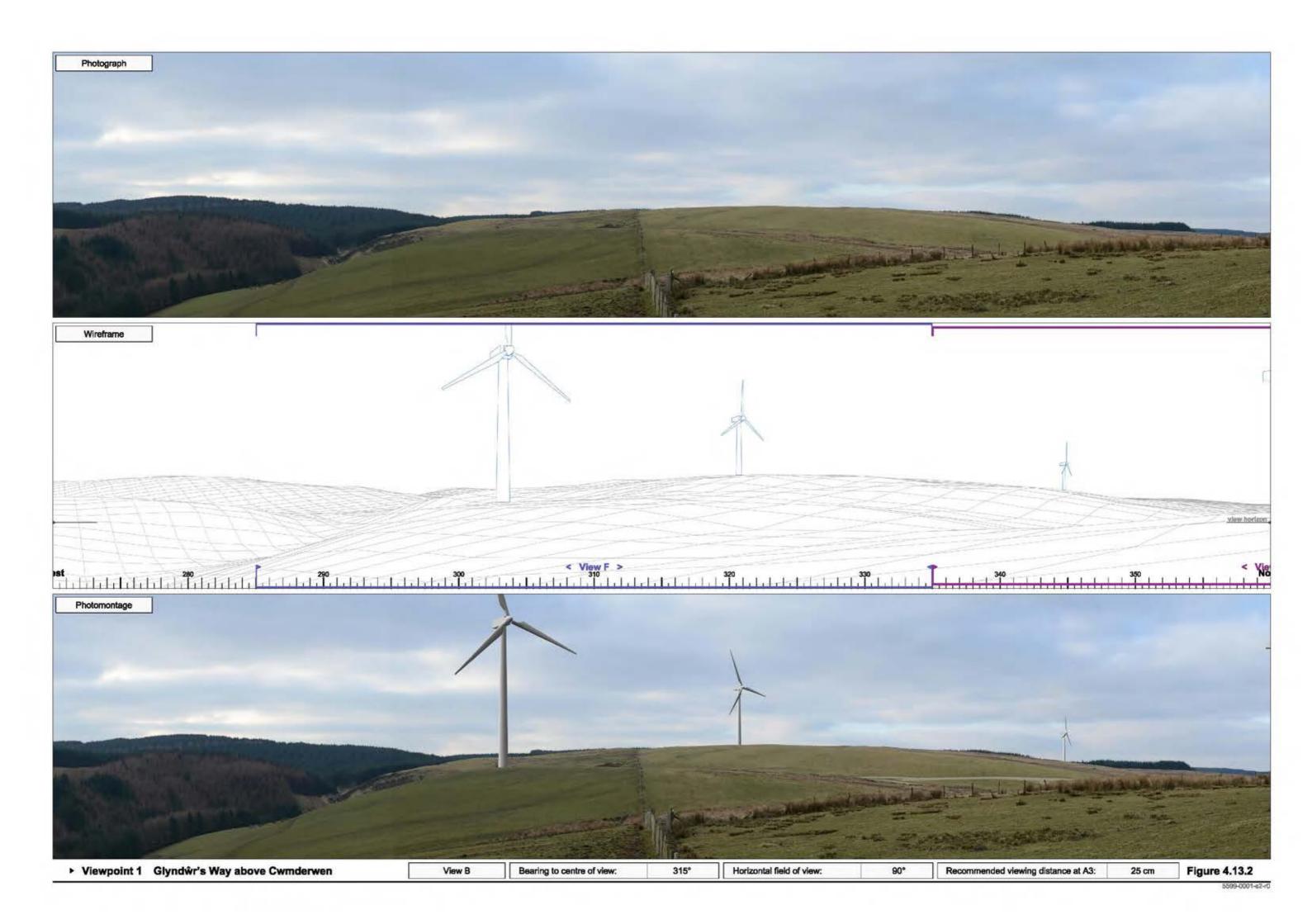
OS Reference:	294933, 306080
Terrain height AOD (from model) :	373 m

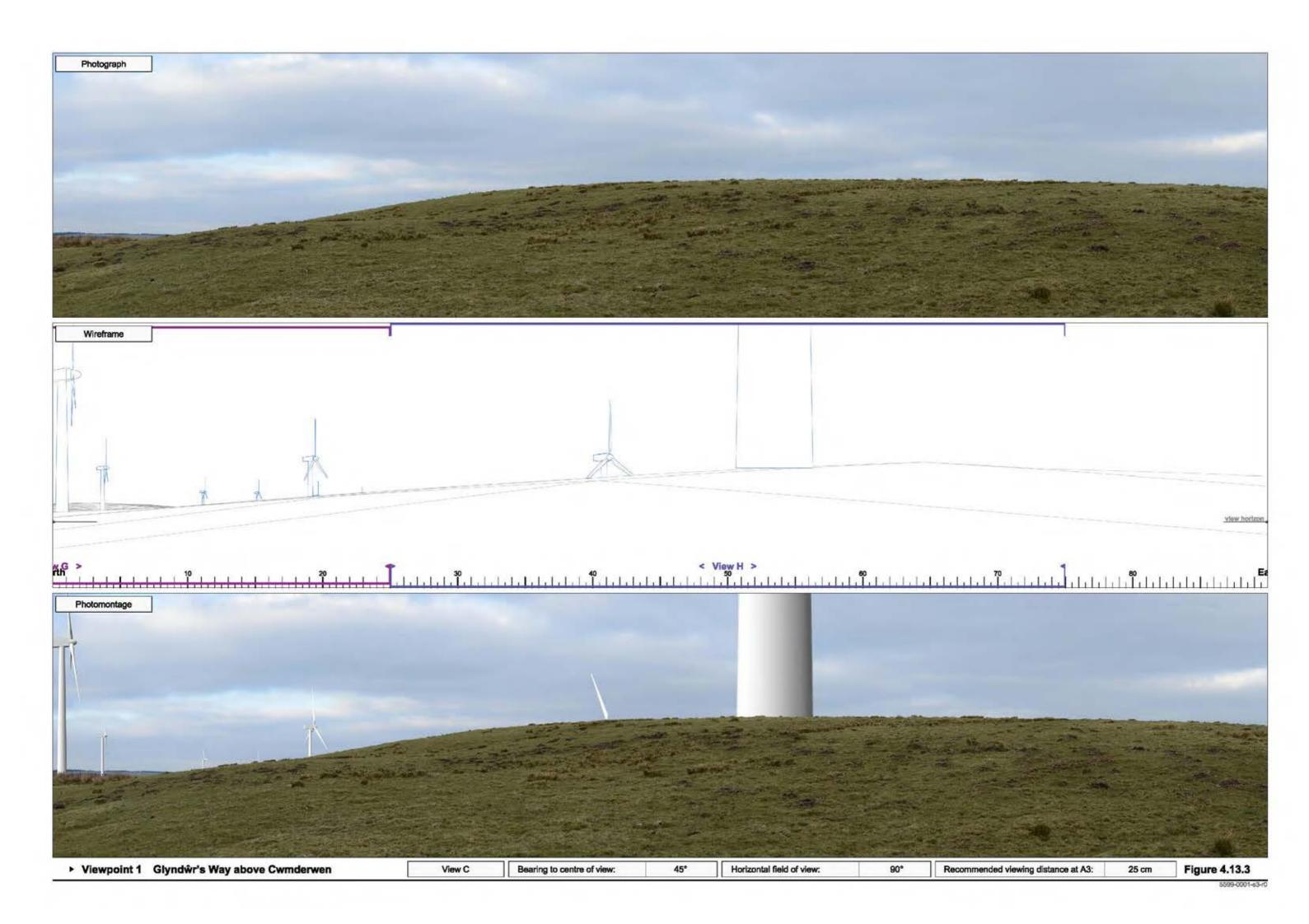
Distance to the nearest turbine:	72 m
Potential No of turbine hubs visible:	16
Potential No of turbine tips visible:	21

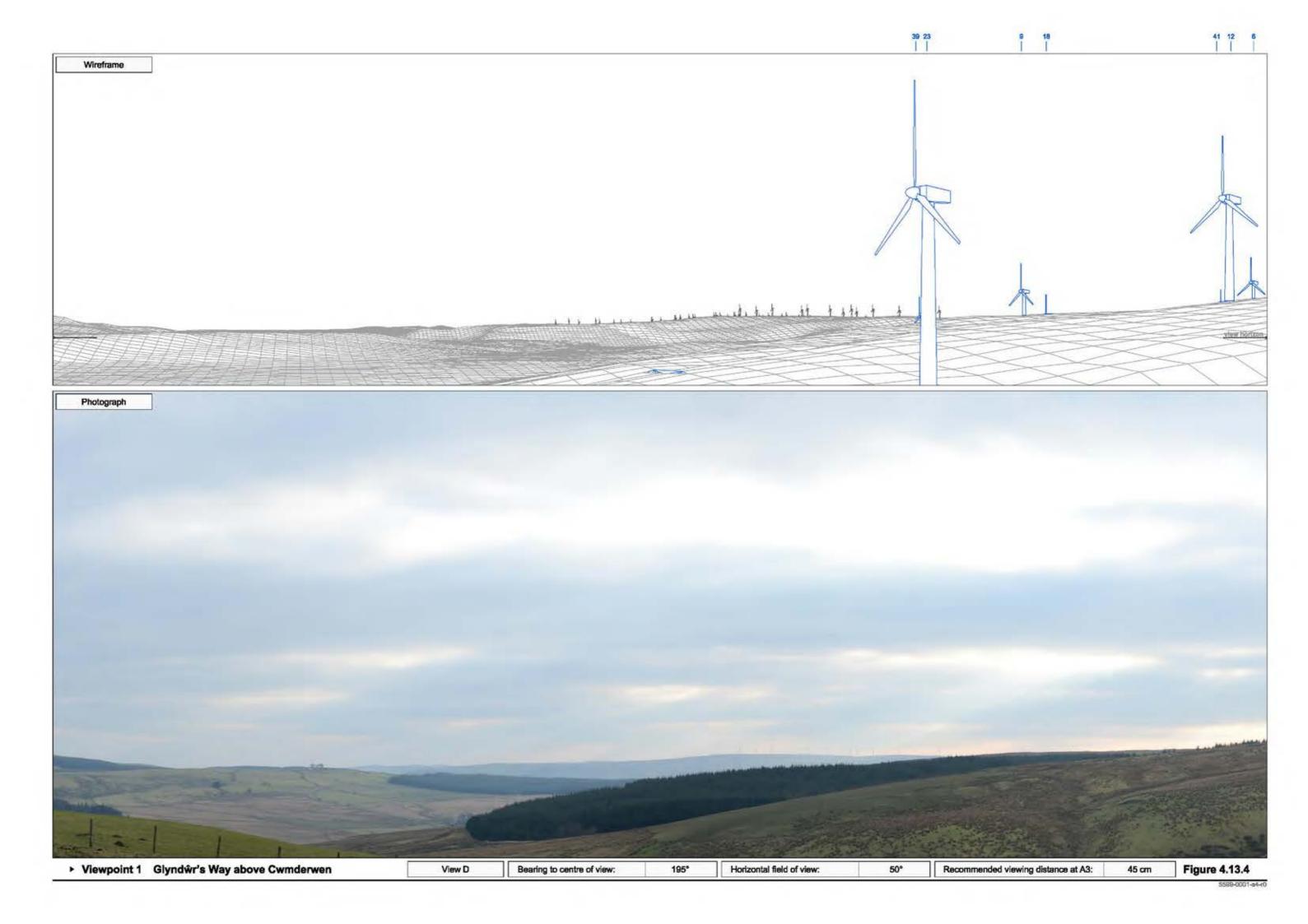
Date:	21st February 2013		
Time:	17:00		
Camera type:	Nikon D7000		
Focal length:	35 mm		
Equivalent Focal length:	52 mm		

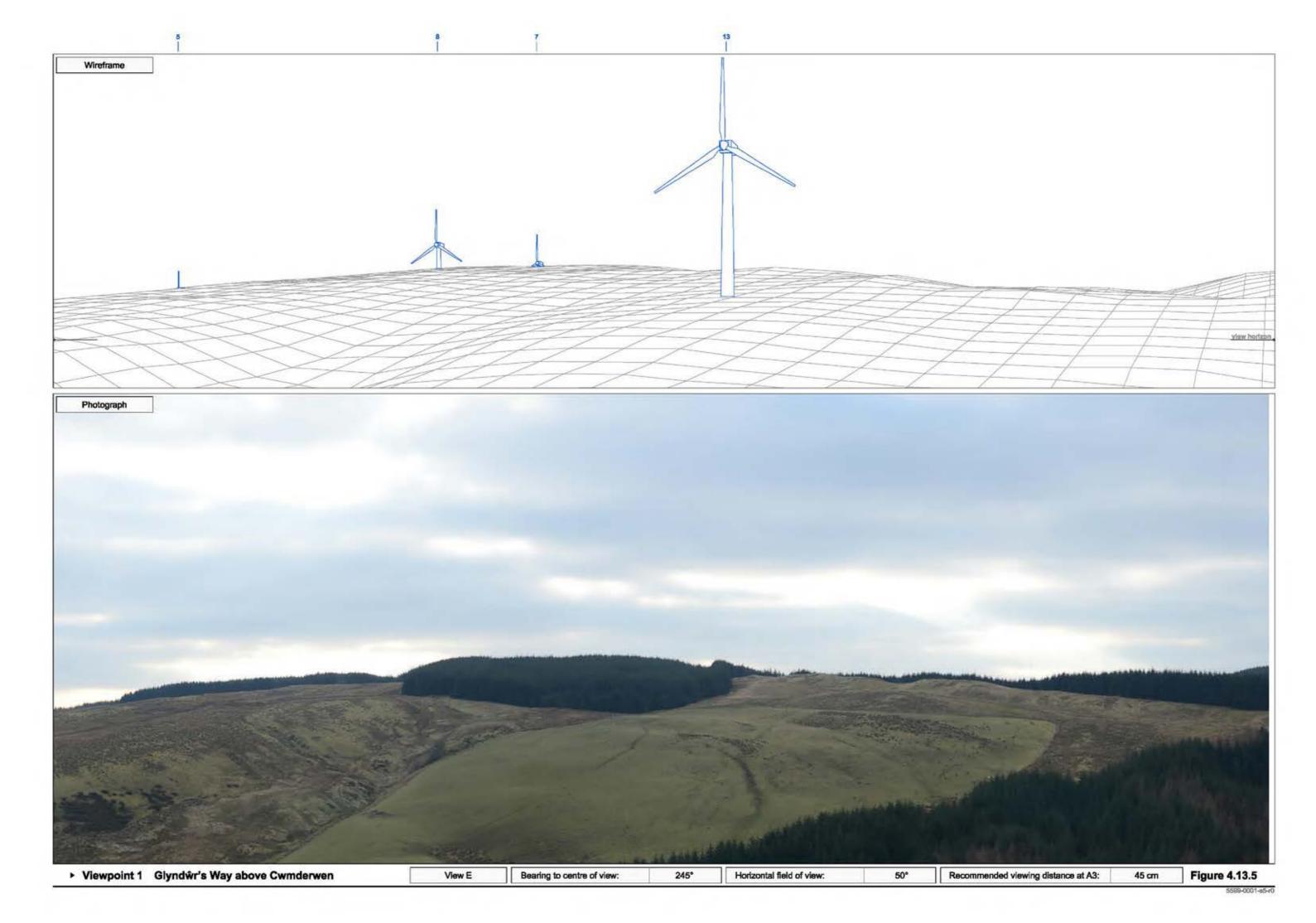


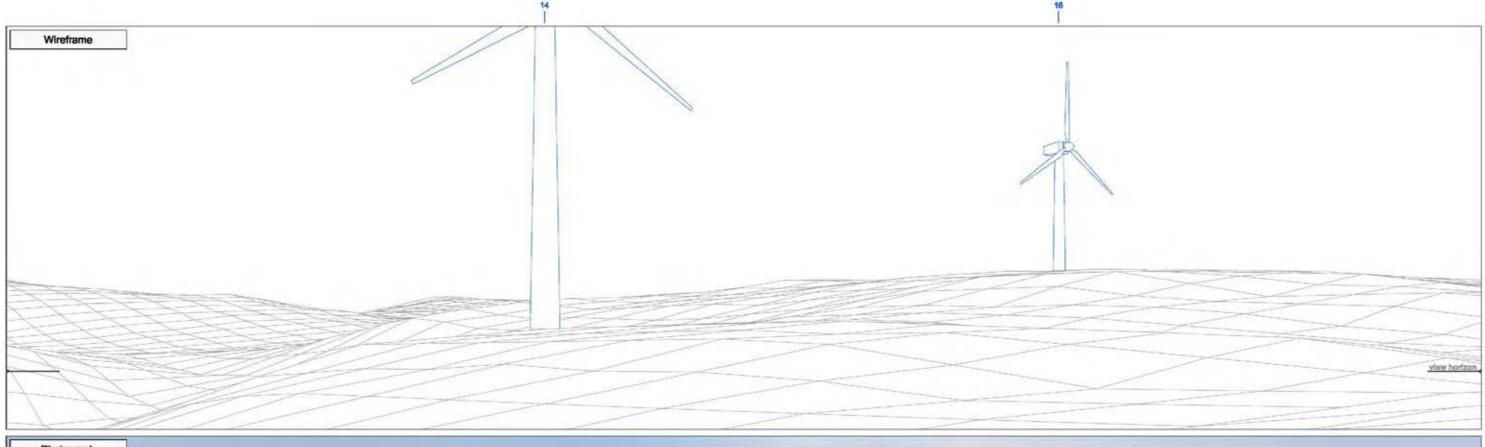












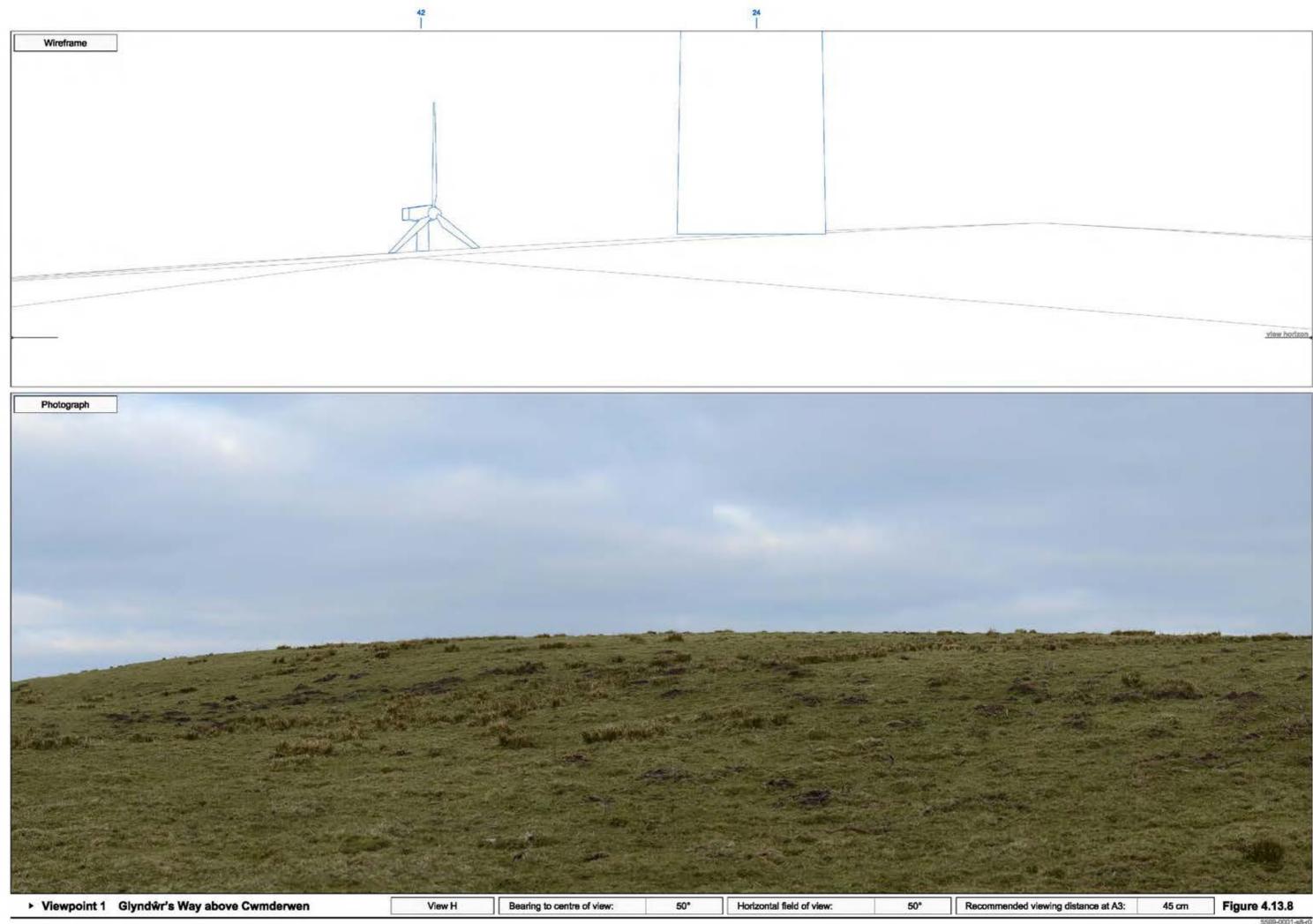
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5589-0001-s6-r0



Viewpoint 1 Glyndŵr's Way above Cwmderwen	View G	Bearing to centre of view:	0°	Horizontal field of view:	50°	Recommende







	·							- 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998
Viewpoint 1 Glyndŵr's Way above Cwmderwen	View D	Bearing to centre of view:	195°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.13.9
								5589-0001-69-0



1. (1995) ALCONTRACTOR TO ALCONTRACTOR (1995)		14 M 20		57.87		
Viewpoint 1 Glyndŵr's Way above Cwmderwen	View E	Bearing to centre of view:	245°	Horizontal field of view:	50°	Recommende

nded viewing distance at A3:	45 cm	Figure 4.13.10
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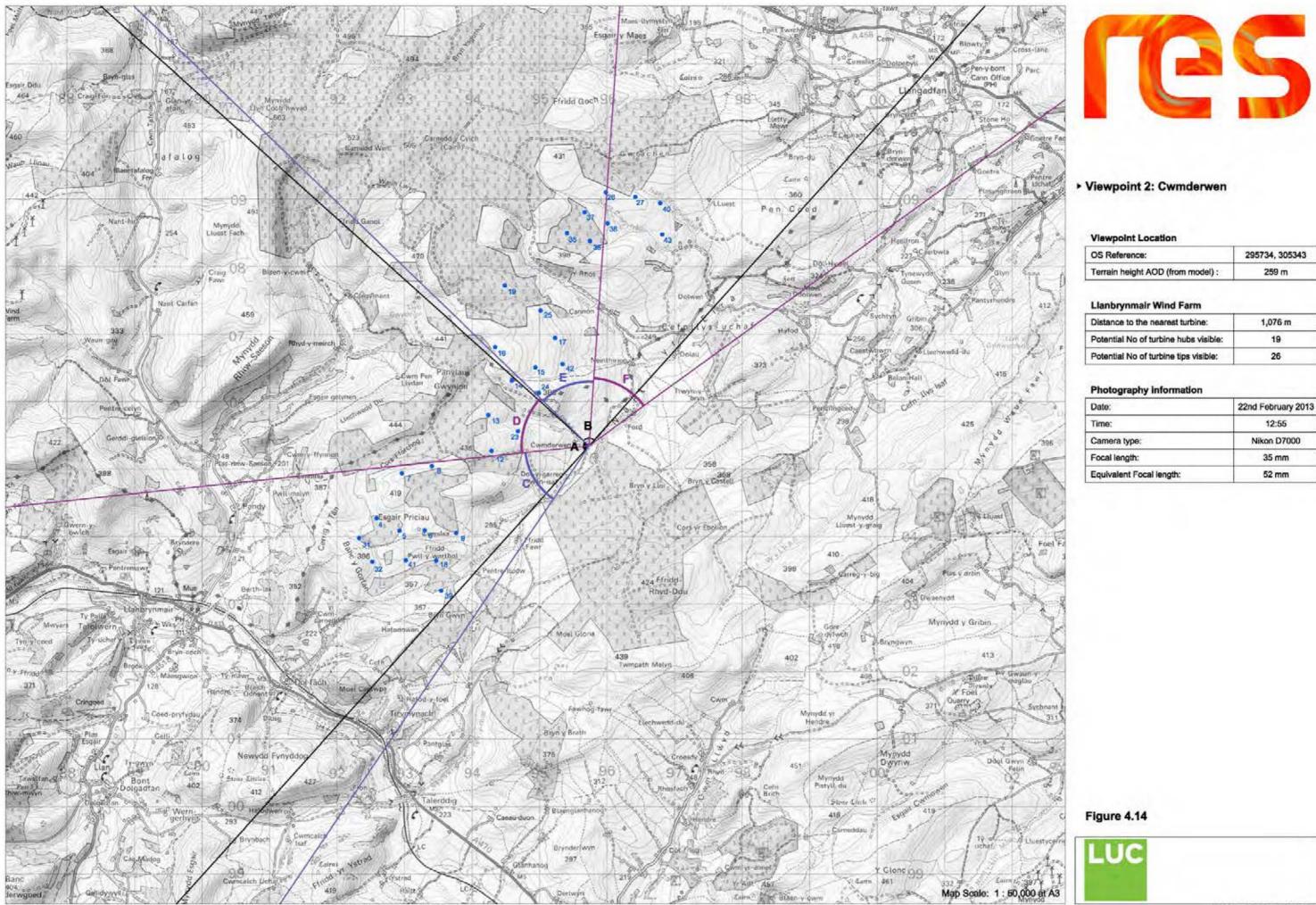
		1417.00		57 ST				
Viewpoint 1 Glyndŵr's Way above Cwmderwen	View F	Bearing to centre of view:	310°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.13.11
								5500-0001-011-0



				147) HC 1				
Viewpoint 1 Glyndŵr's Way above Cwmderwen	View G	Bearing to centre of view:	0°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.13.12
								5599-0001-a12-r0



		0.000		NO NO				
Viewpoint 1 Glyndŵr's Way above Cwmderwen	View H	Bearing to centre of view:	50°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.13.13
	1							5500 0004 +12 +0



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OS Reference:	295734, 305343
Terrain height AOD (from model) :	259 m

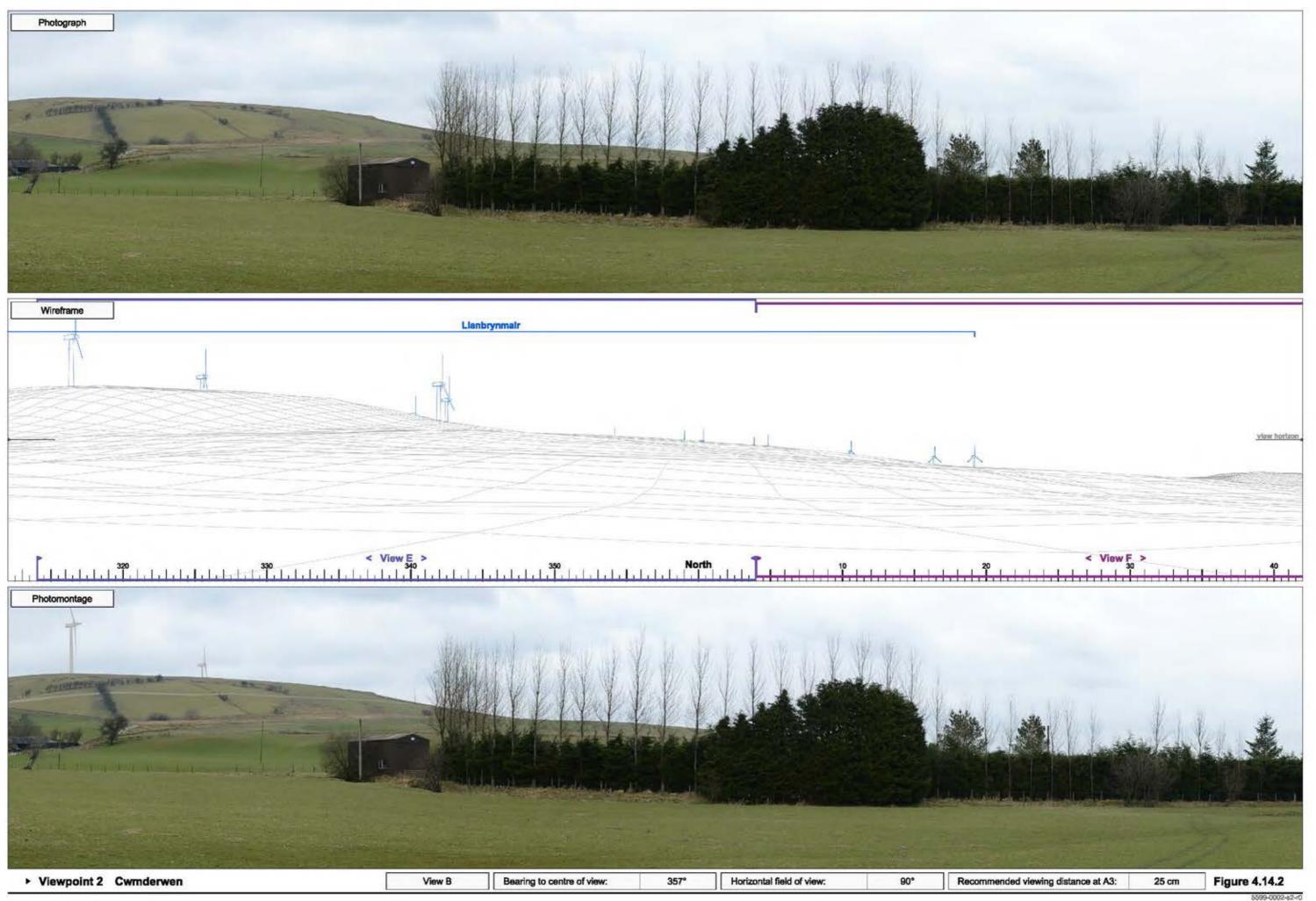
Distance to the nearest turbine:	1,076 m
Potential No of turbine hubs visible:	19
Potential No of turbine tips visible:	26

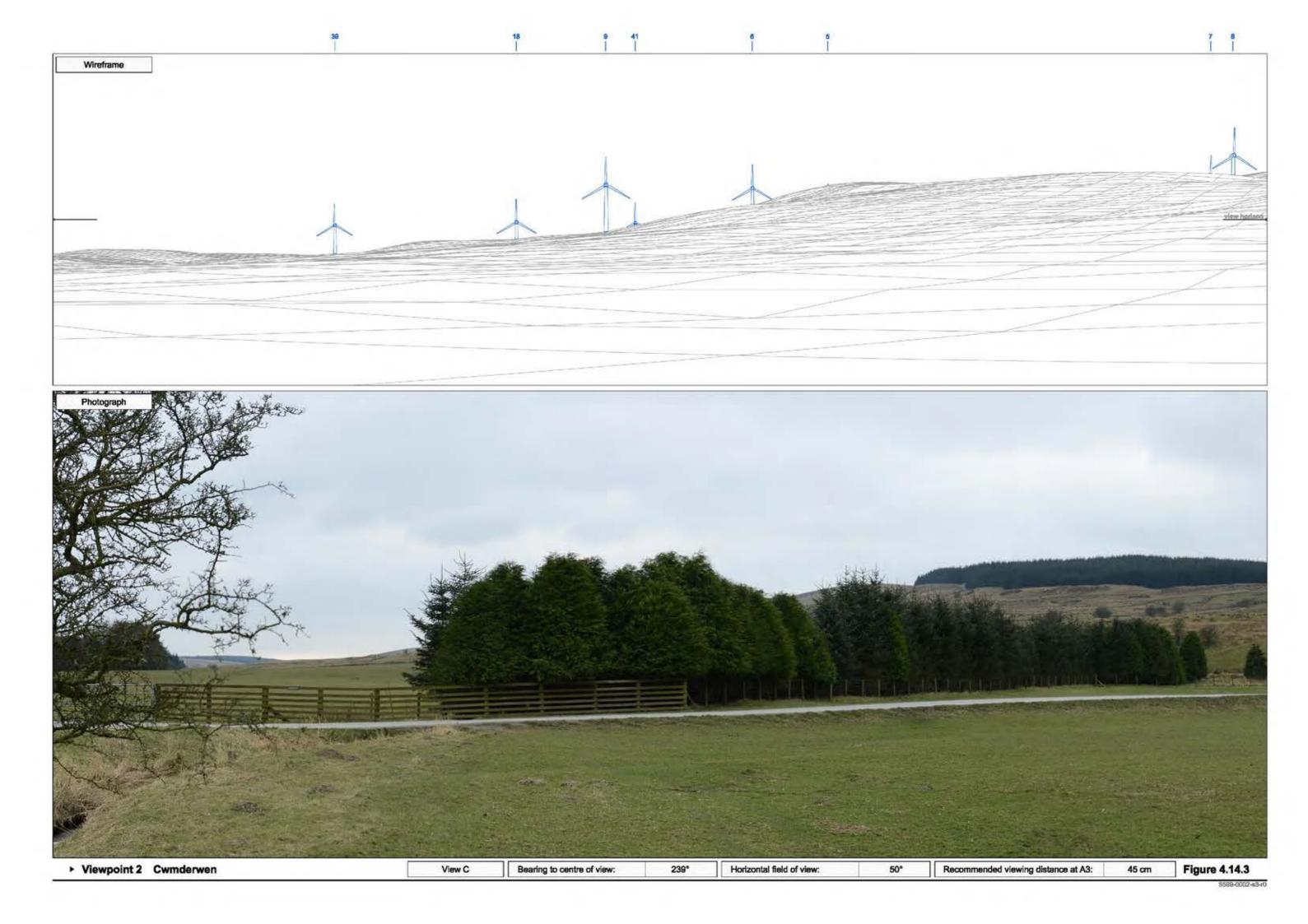
Date:	22nd February 2013
Time:	12:55
Camera type:	Nikon D7000
Focal length:	35 mm
Equivalent Focal length:	52 mm



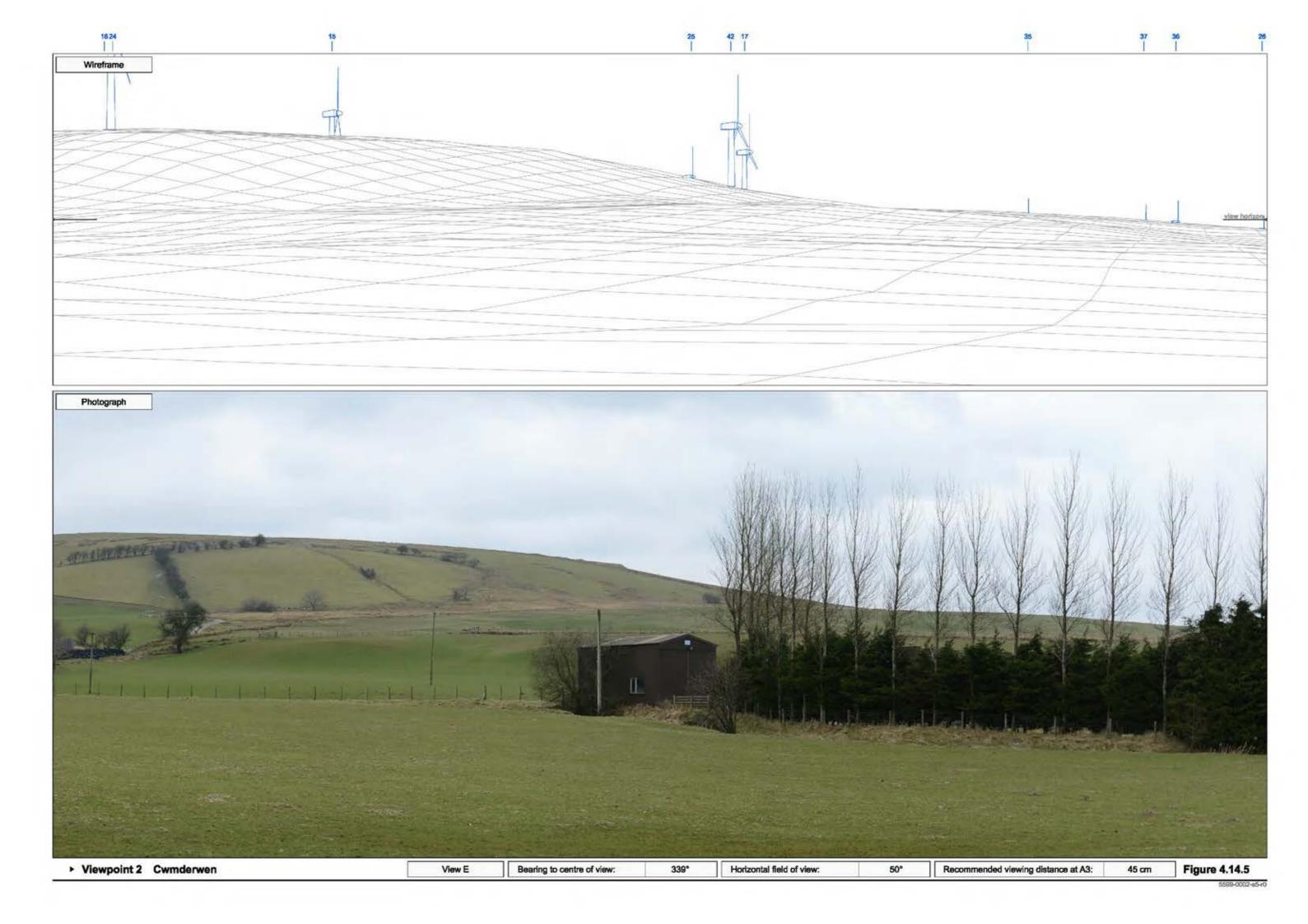














589-0002-#6-r0



Viewpoint 2 Cwmderwen	View C	Bearing to centre of view:	239°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.14.7
	L	10		1		1		5589-0002-87-40



Viewpoint 2 Cwmderwen     View D   Bearing to centre of view	ew: 289°	Horizontal field of view:	50°	Recommended

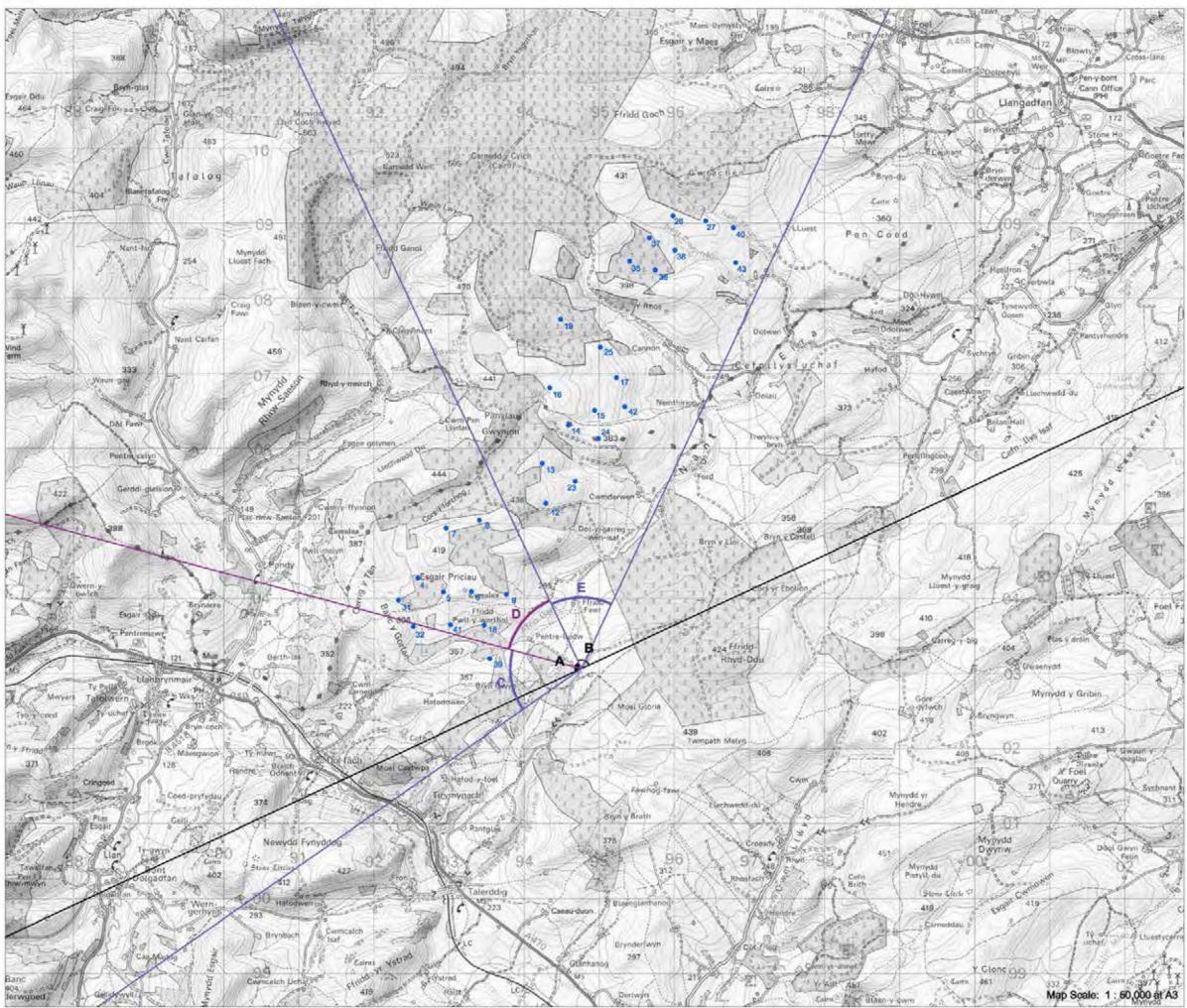
ded viewing distance at A3:	45 cm	Figure 4.14.8
		5589-0002-48-0



Viewpoint 2 Cwmderwen	View E	Bearing to centre of view:	339°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.14.9
	1 million and a state of the st							5589-0002-89



Viewpoint 2 Cwmderwen	View E	Bearing to centre of view:	29°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.14.10
								5508,0002,010,00



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## Viewpoint 3: Minor road above Ffridd Fawr

## **Viewpoint Location**

OS Reference:	294763, 303064		
Terrain height AOD (from model) :	352 m		

## Llanbrynmair Wind Farm

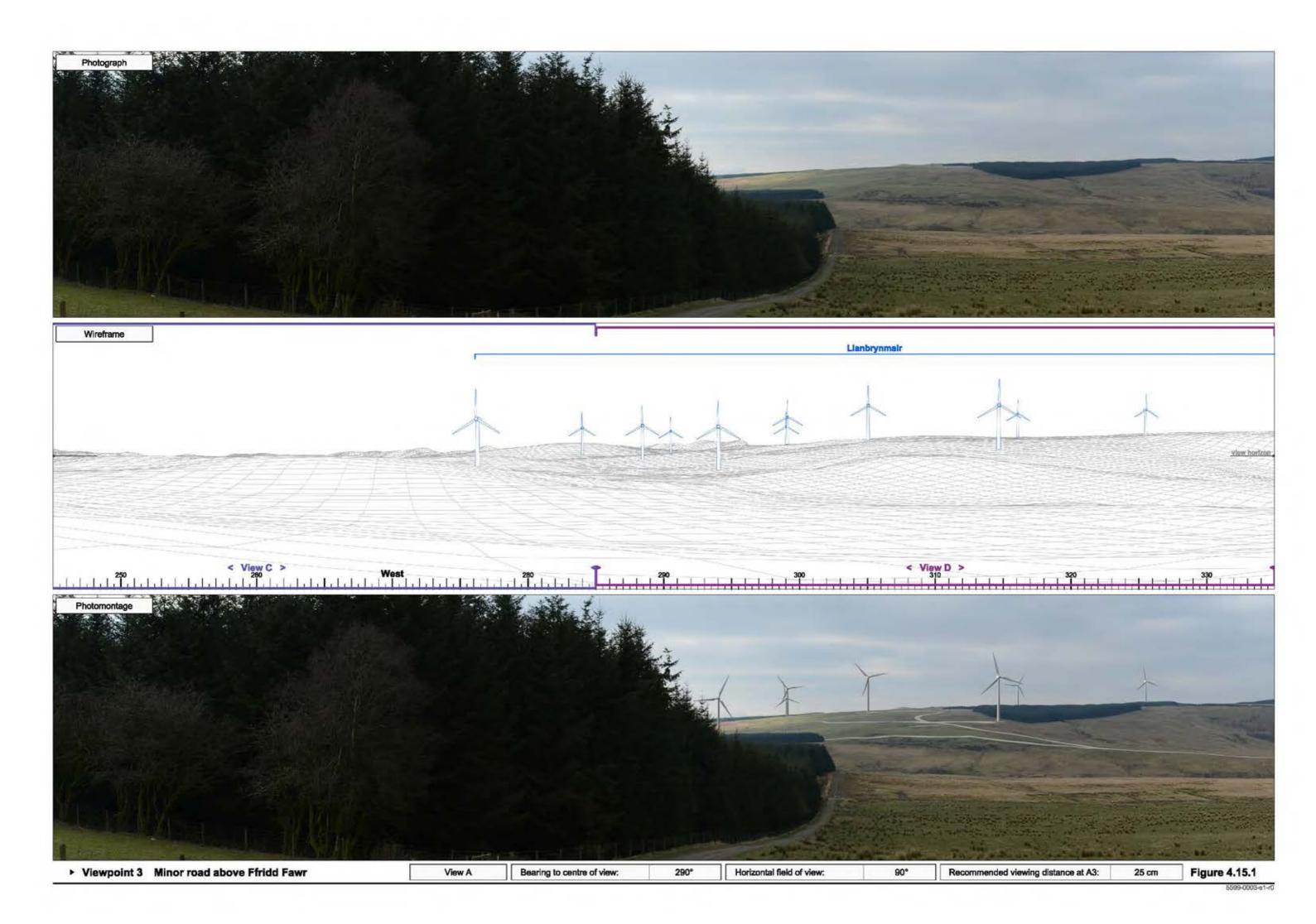
Distance to the nearest turbine:	1,228 m
Potential No of turbine hubs visible:	30
Potential No of turbine tips visible:	30

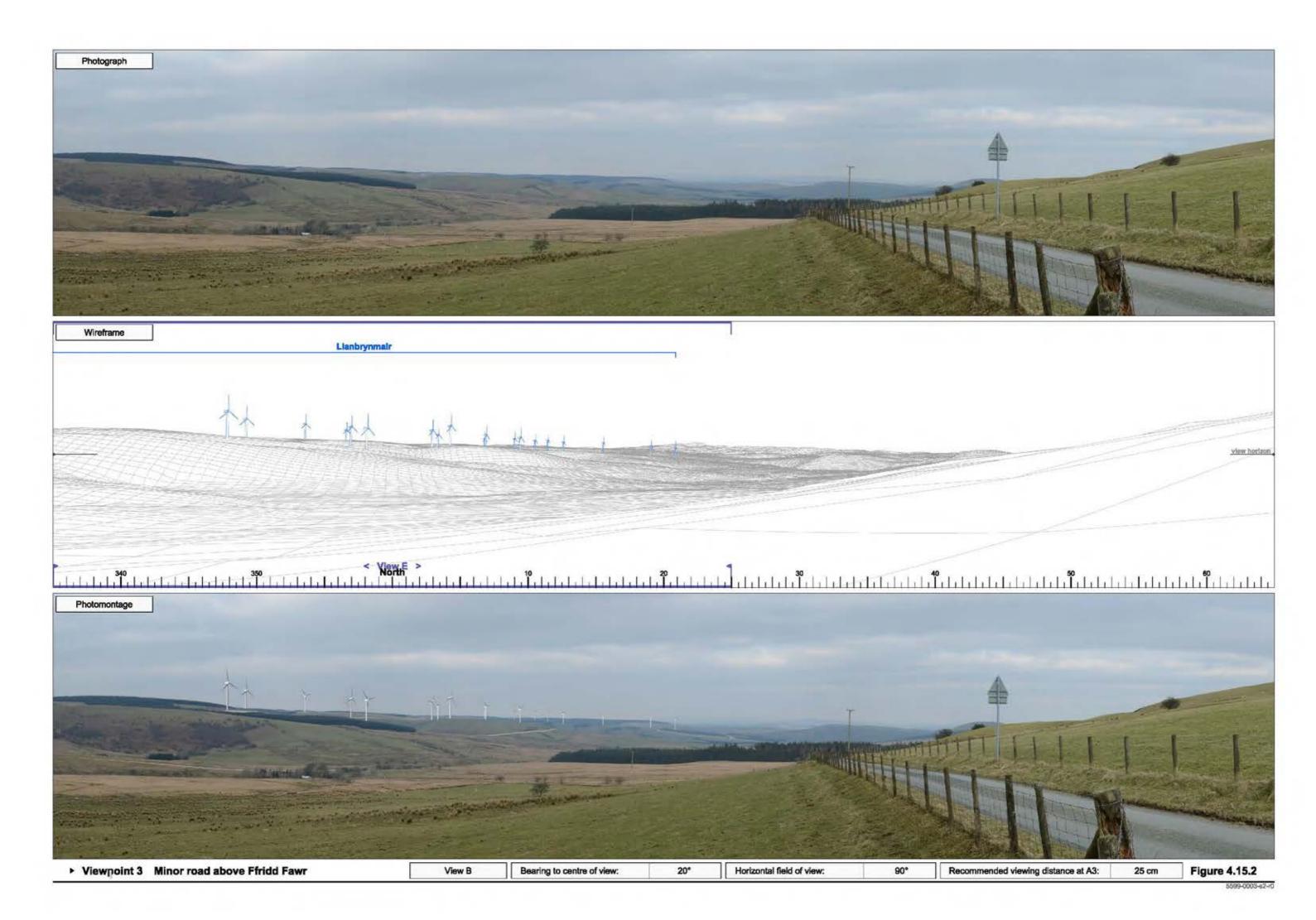
# Photography information

Date:	21st February 2013
Time:	15:55
Camera type:	Nikon D7000
Focal length:	35 mm
Equivalent Focal length:	52 mm

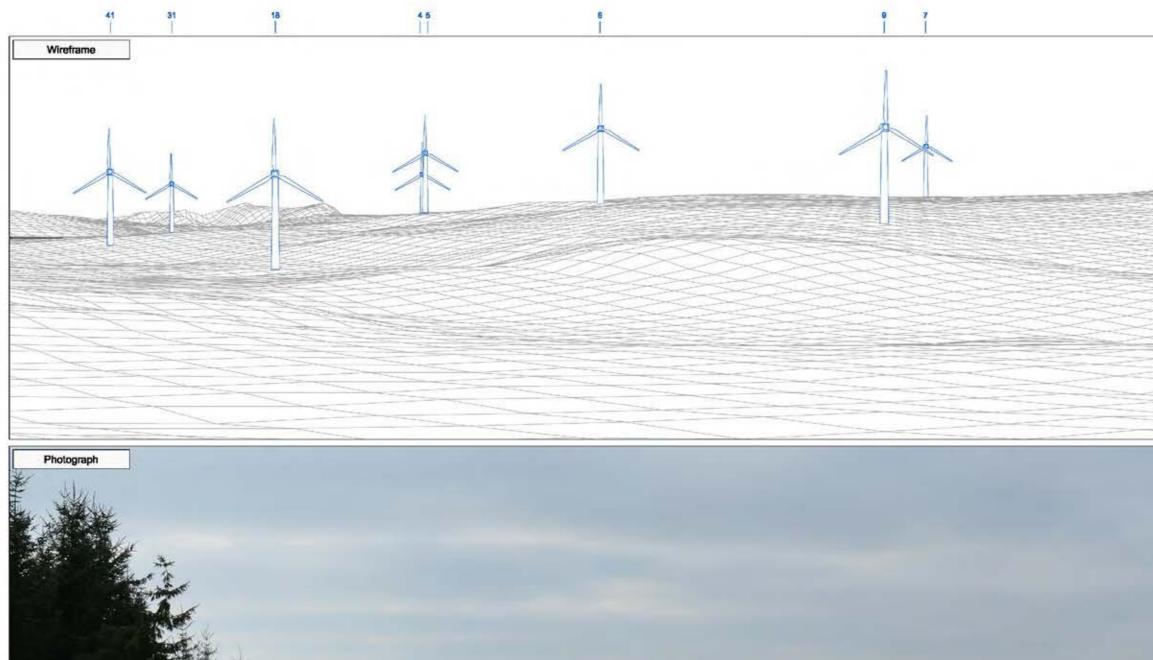
## Figure 4.15











and the second

•	Viewpoint 3 Minor road above Ffridd Fawr	View D	Bearing to centre of view:	310°	Horizontal field of view:	50°	Recommended

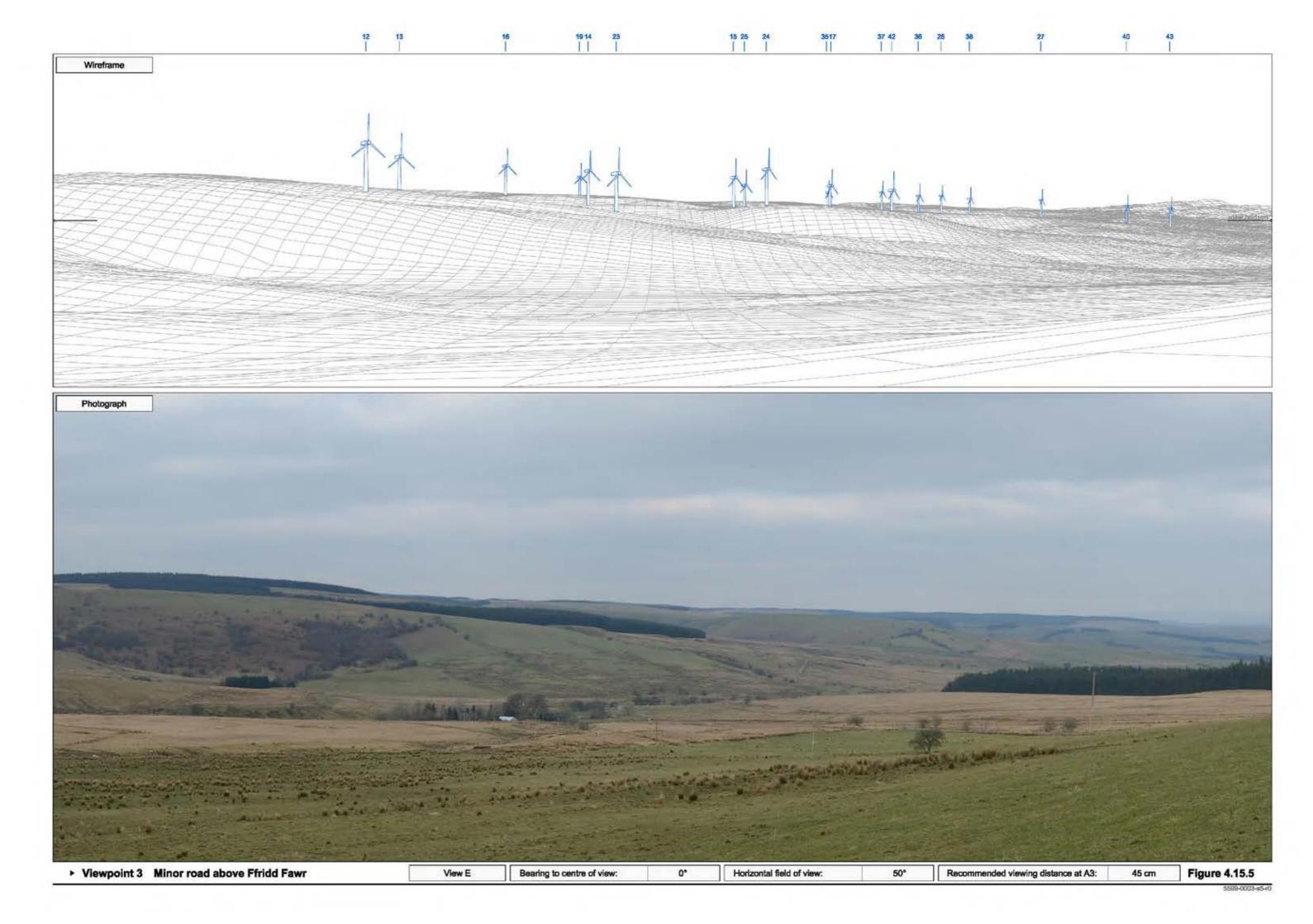


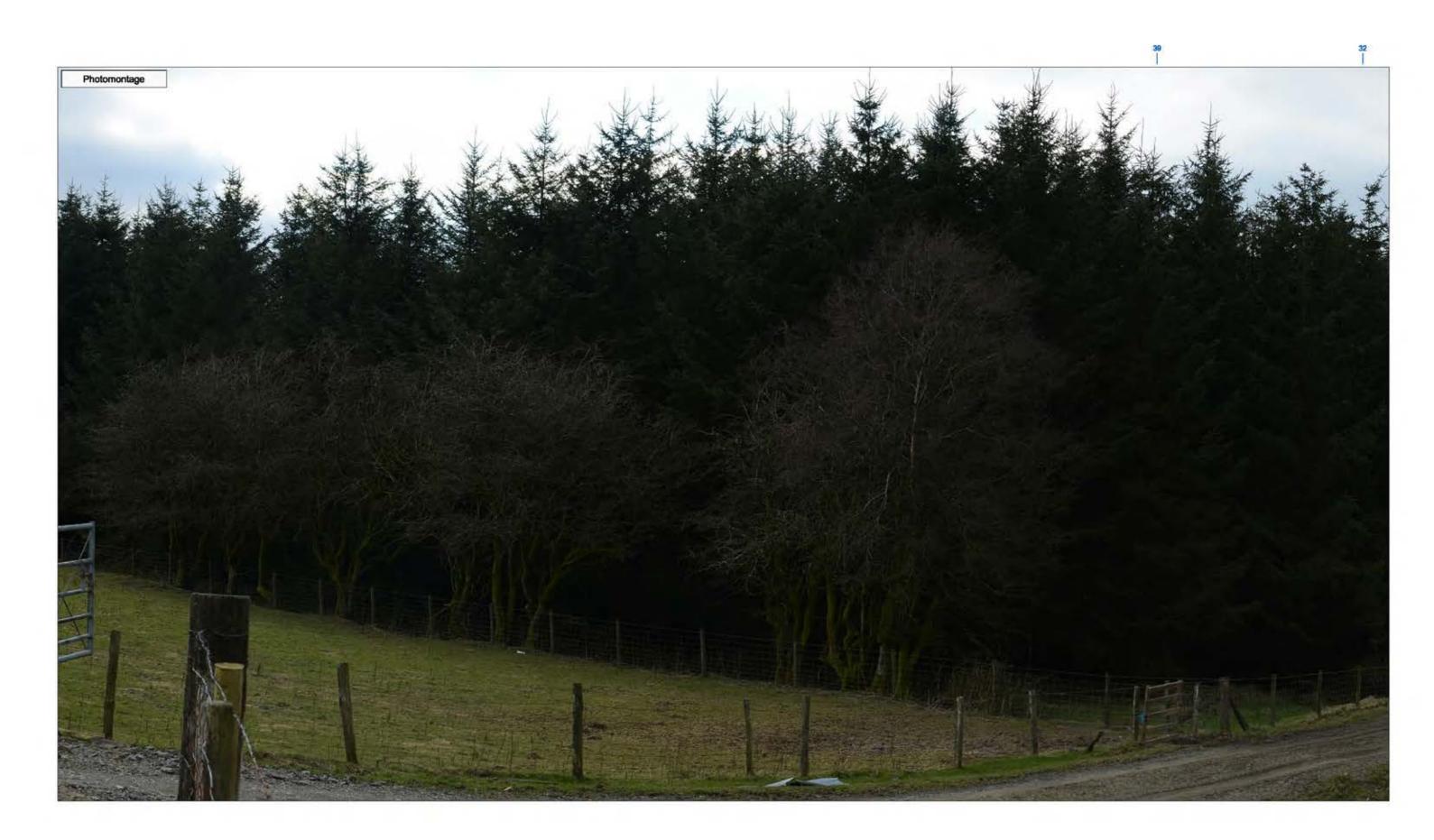
view horizon



led viewing distance at A3:

Figure 4.15.4





				141.871				
Viewpoint 3 Minor road above Ffridd Fawr	View C	Bearing to centre of view:	260°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.15.6
								6500,0002 +8 +0

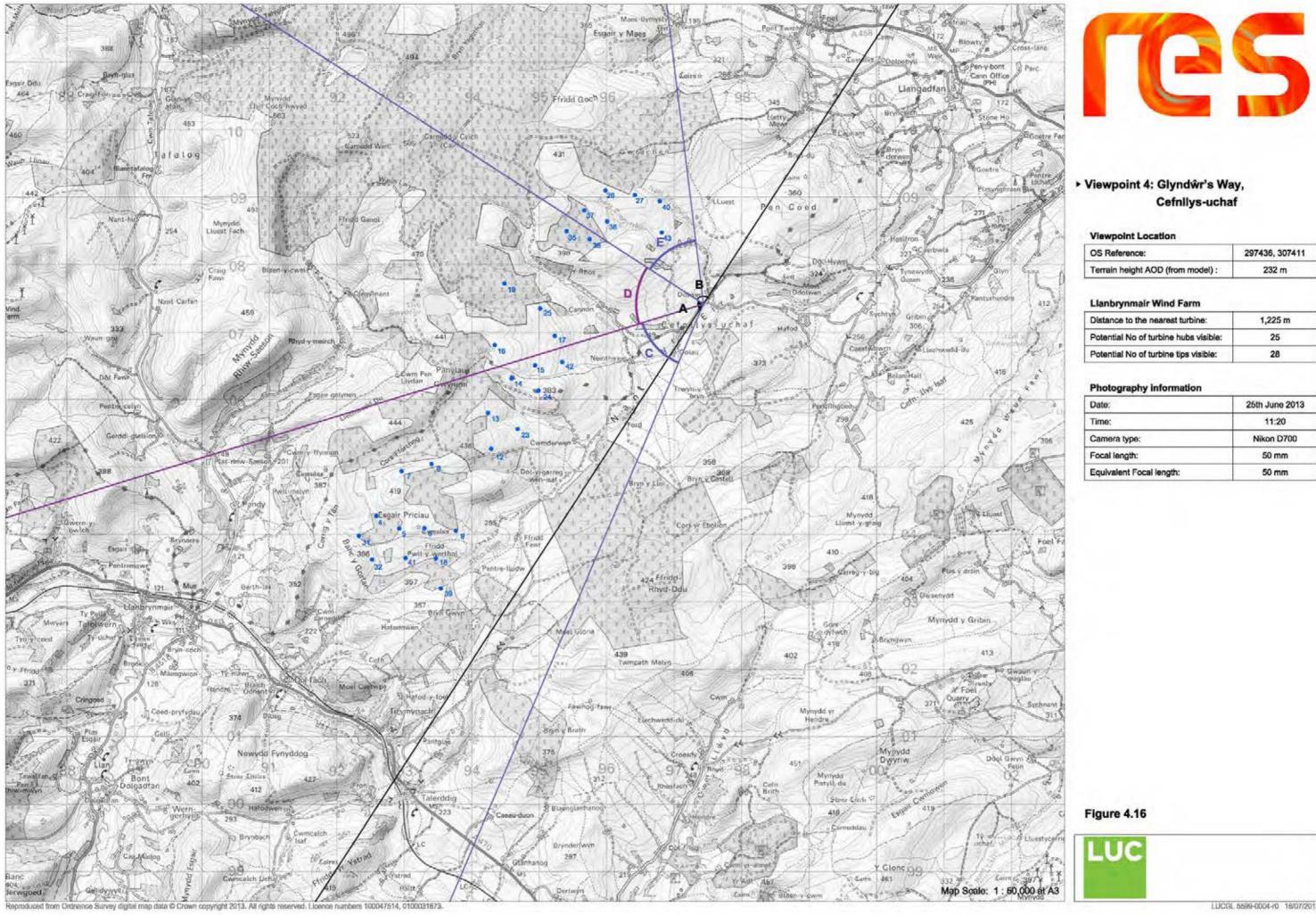


		1477.00		671 871		
Viewpoint 3 Minor road above Ffridd Fawr	View D	Bearing to centre of view:	310°	Horizontal field of view:	50°	Recommended

ded viewing distance at A3:	45 cm	Figure 4.15.7
		5509-0003-47-0



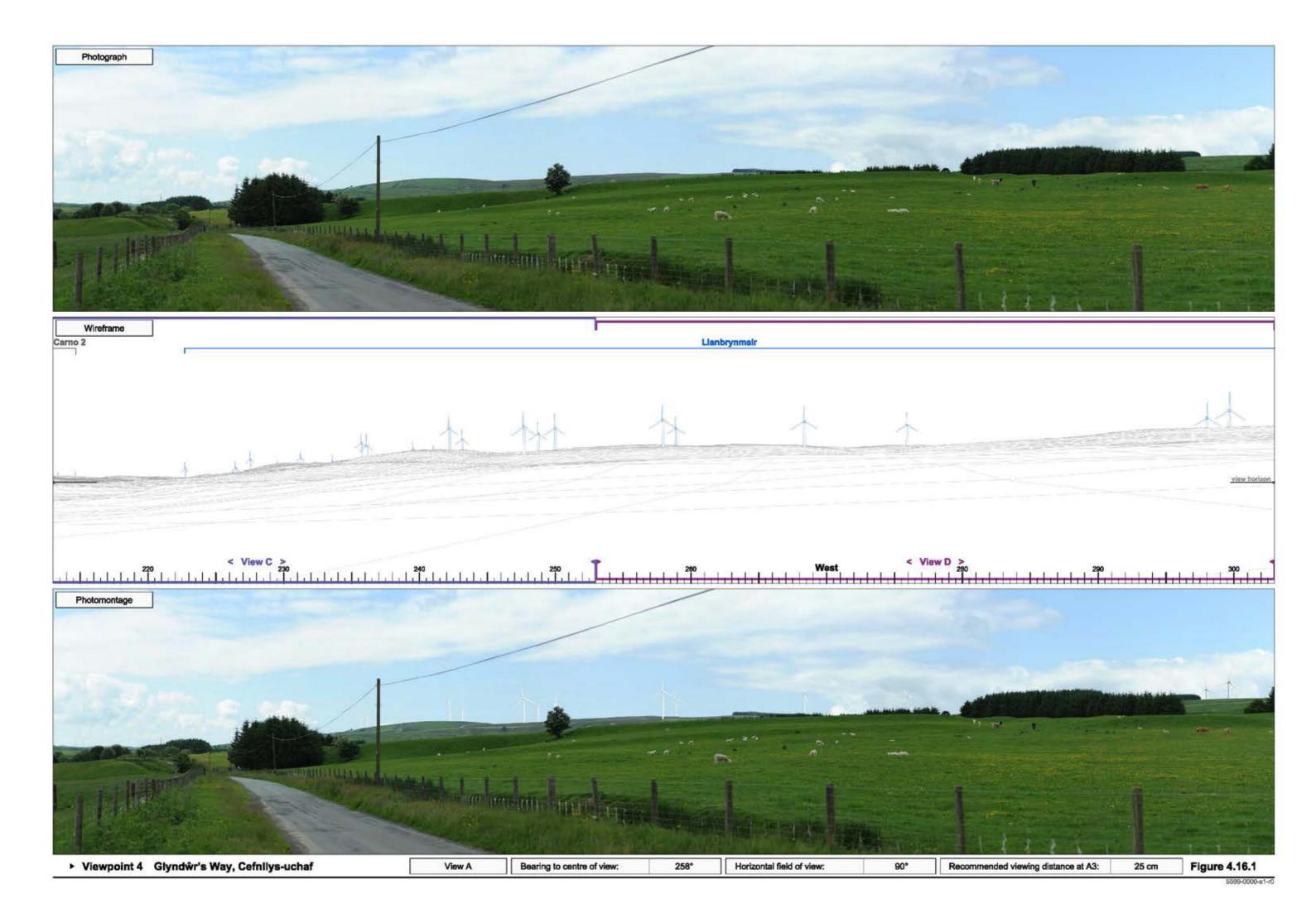
Viewpoint 3 Minor road above Ffridd Fawr	View E	Bearing to centre of view:	0°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.15.8
								5500.0002.eP.r0

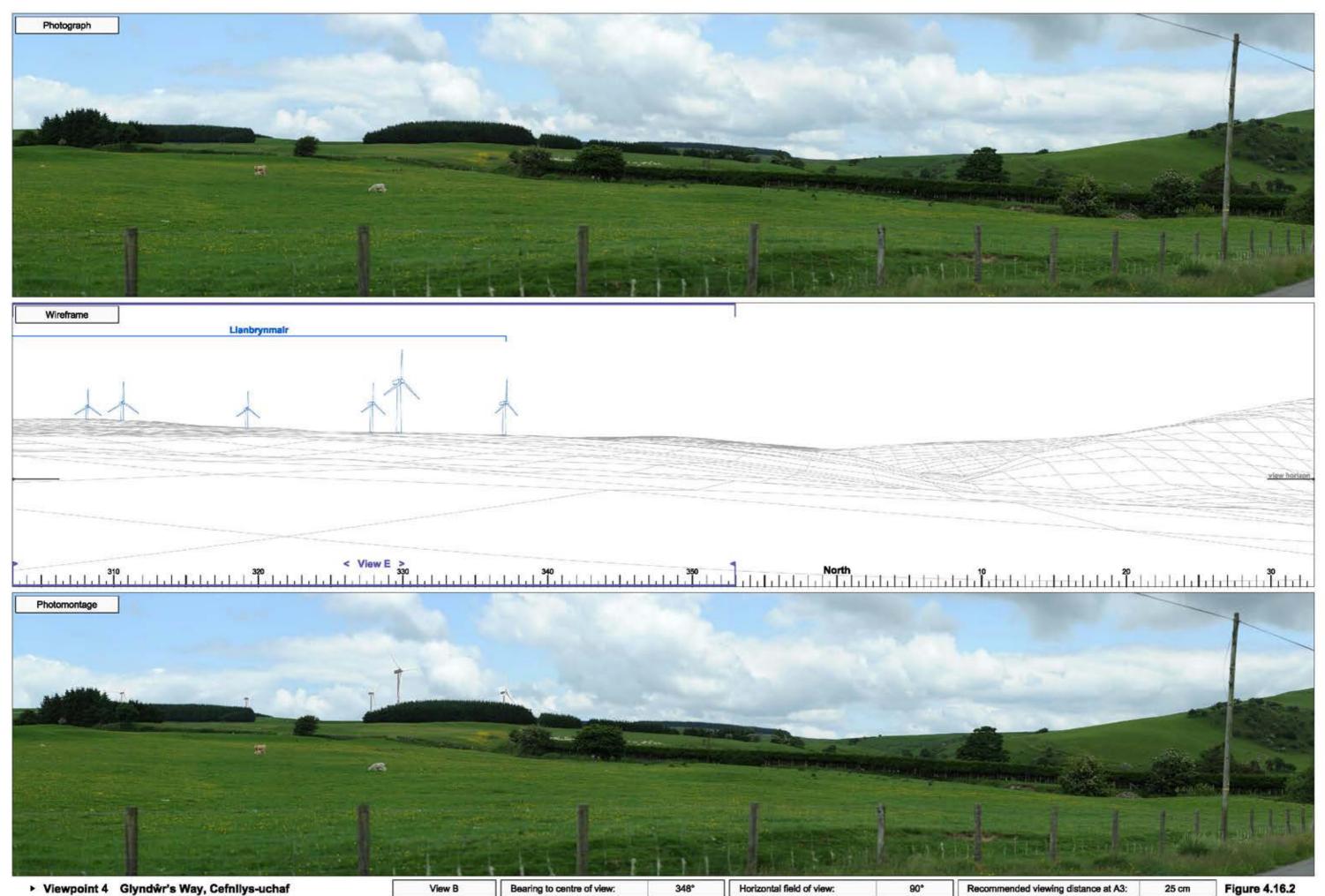


OS Reference:	297436, 307411
Terrain height AOD (from model) :	232 m

Distance to the nearest turbine:	1,225 m
Potential No of turbine hubs visible:	25
Potential No of turbine tips visible:	28

Date:	25th June 2013
Time:	11:20
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm





Viewpoint 4 Glyndŵr's Way, Cefnllys-uchaf	View B	Bearing to centre of view:	348°	Horizontal field of view:	90°	Recommende







589-0000-92-10



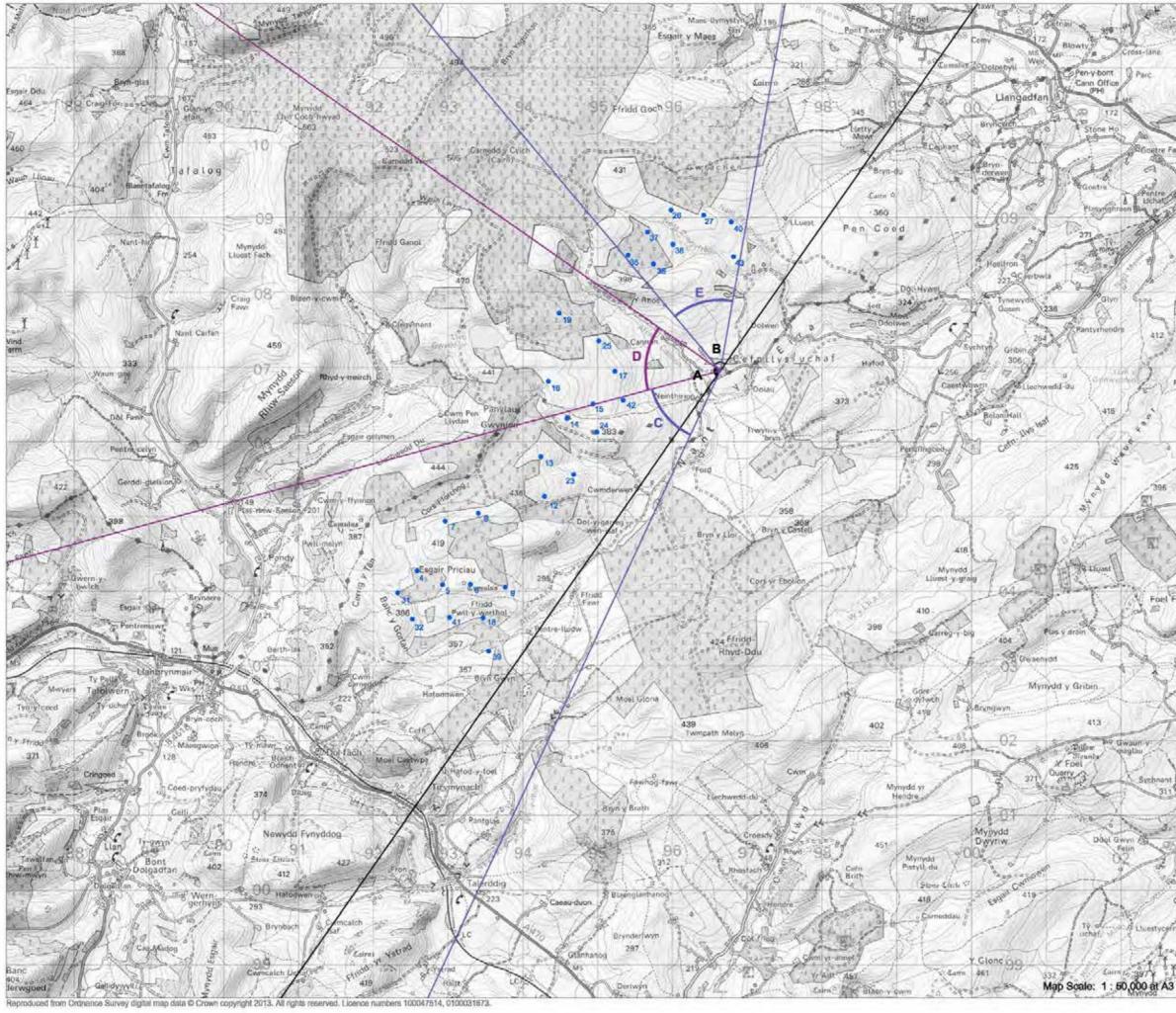
		1477.5		57.87				
Viewpoint 4 Glyndŵr's Way, Cefnllys-uchaf	View C	Bearing to centre of view:	228°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.16.6
i an ann an a								5589-0000-43-0



				27 m				-
Viewpoint 4 Glyndŵr's Way, Cefnllys-uchaf	View D	Bearing to centre of view:	278°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.16.7
								5589-0000-s3-r0



				201 BC				the second se
Viewpoint 4 Glyndŵr's Way, Cefnllys-uchaf	View E	Bearing to centre of view:	328°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.16.8
	- Normal States and St							FE00 0000 -0 -0







# Viewpoint 5: Glyndŵr's Way, minor road east of Neinthirion

## **Viewpoint Location**

OS Reference:	296642, 306946
Terrain height AOD (from model) :	250 m

## Llanbrynmair Wind Farm

Distance to the nearest turbine:	1,360 m
Potential No of turbine hubs visible:	21
Potential No of turbine tips visible:	24

## Photography information

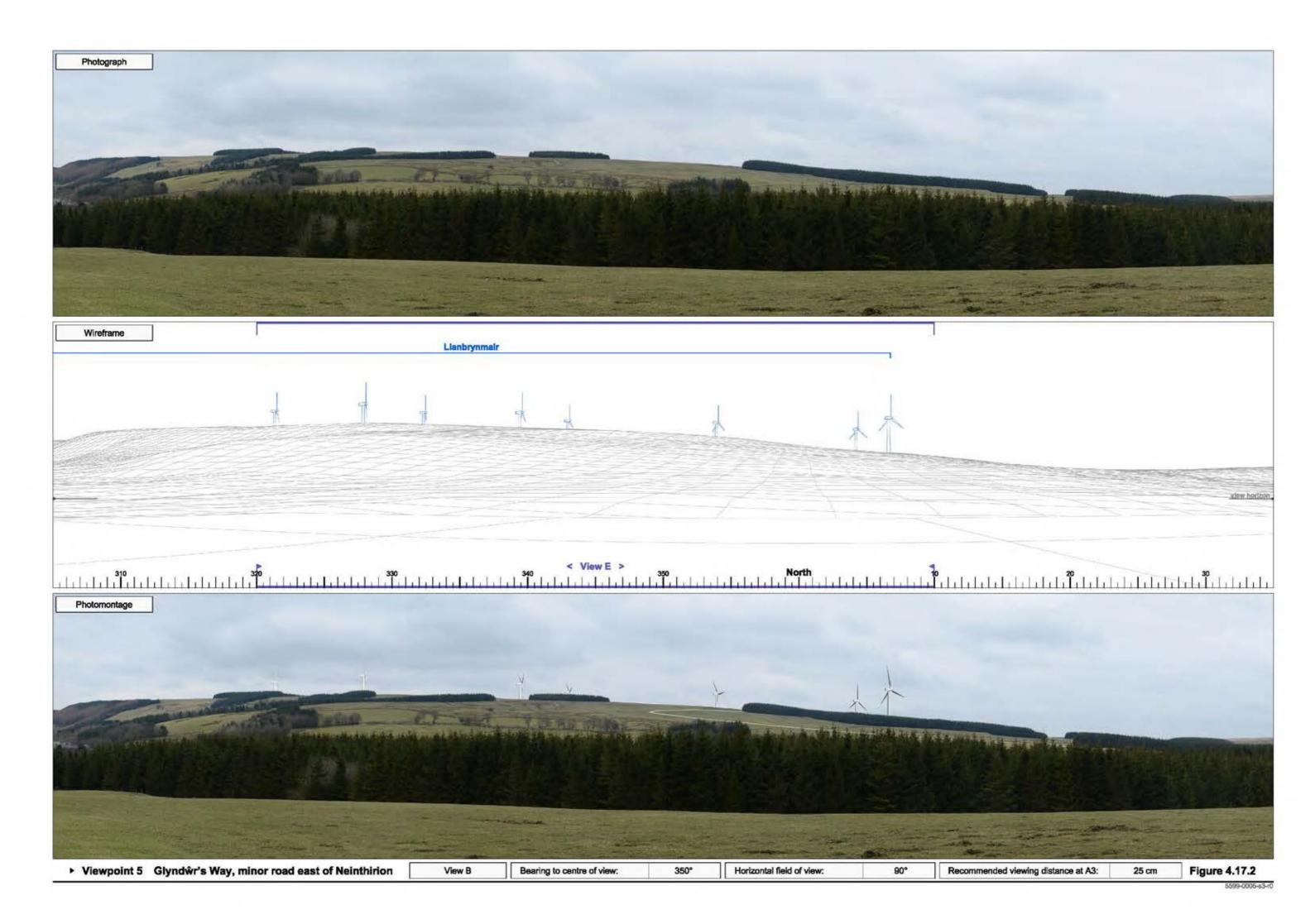
Date:	22nd February 2013
Time:	11:55
Camera type:	Nikon D7000
Focal length:	35 mm
Equivalent Focal length:	52 mm

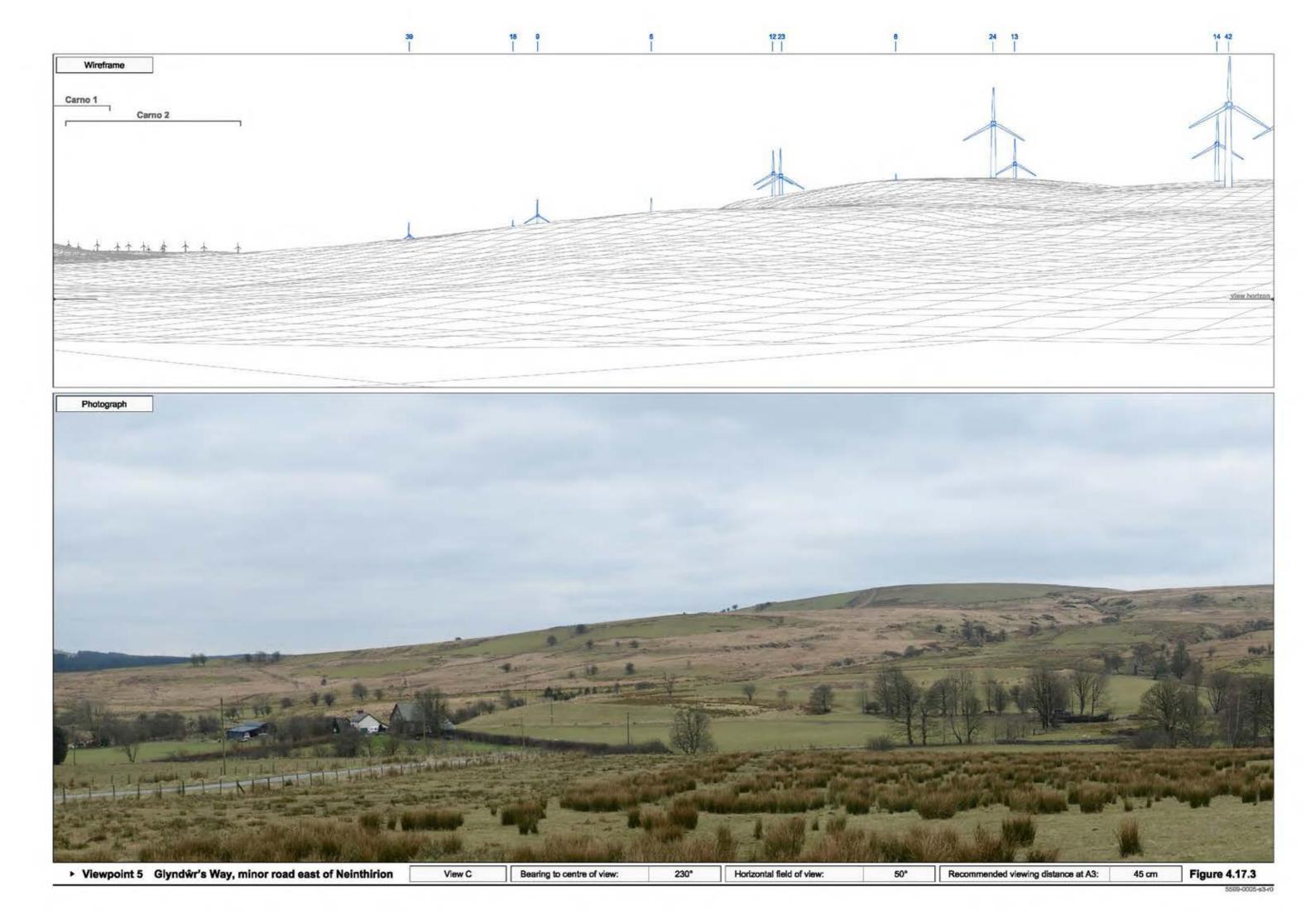
Figure 4.17

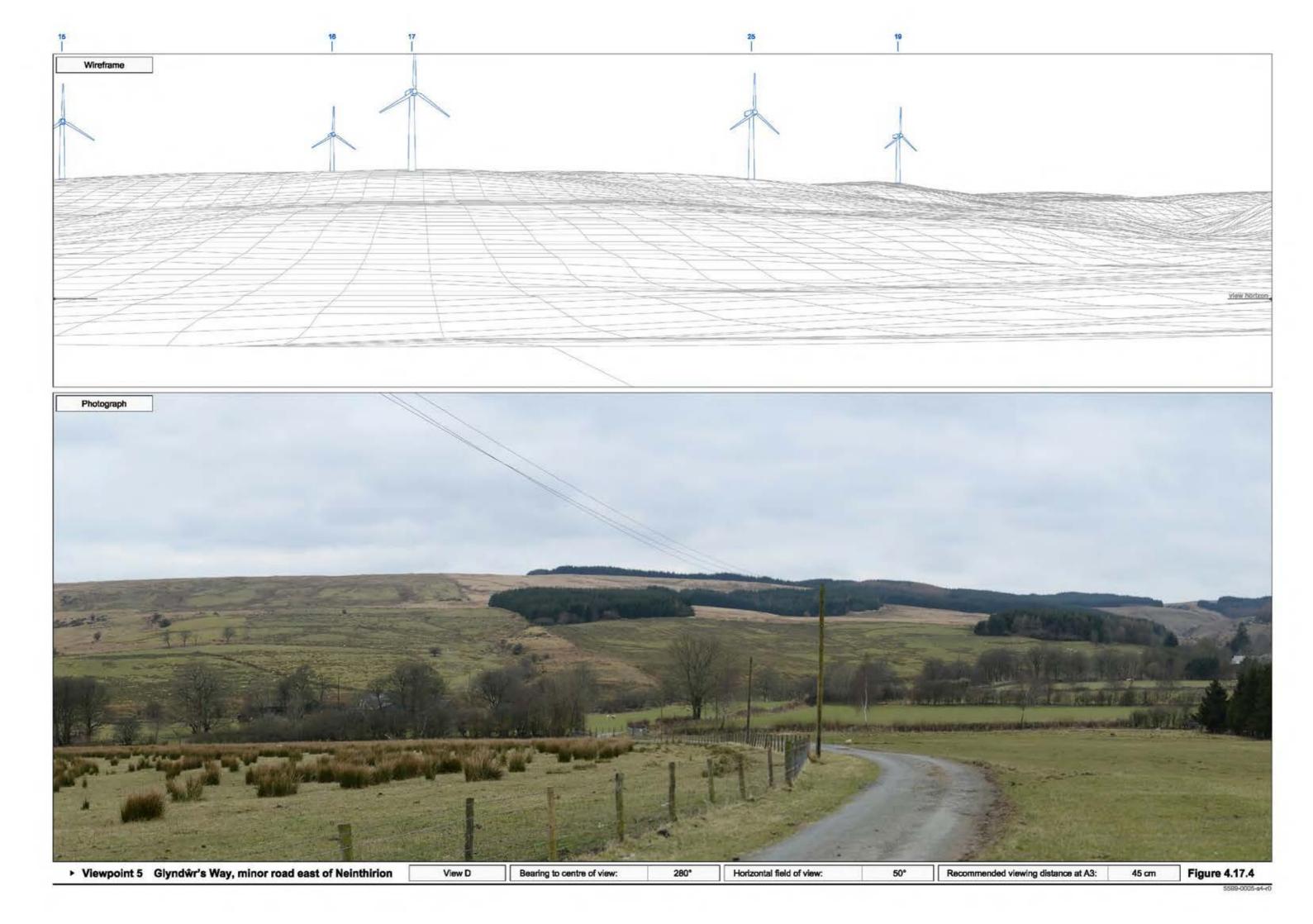


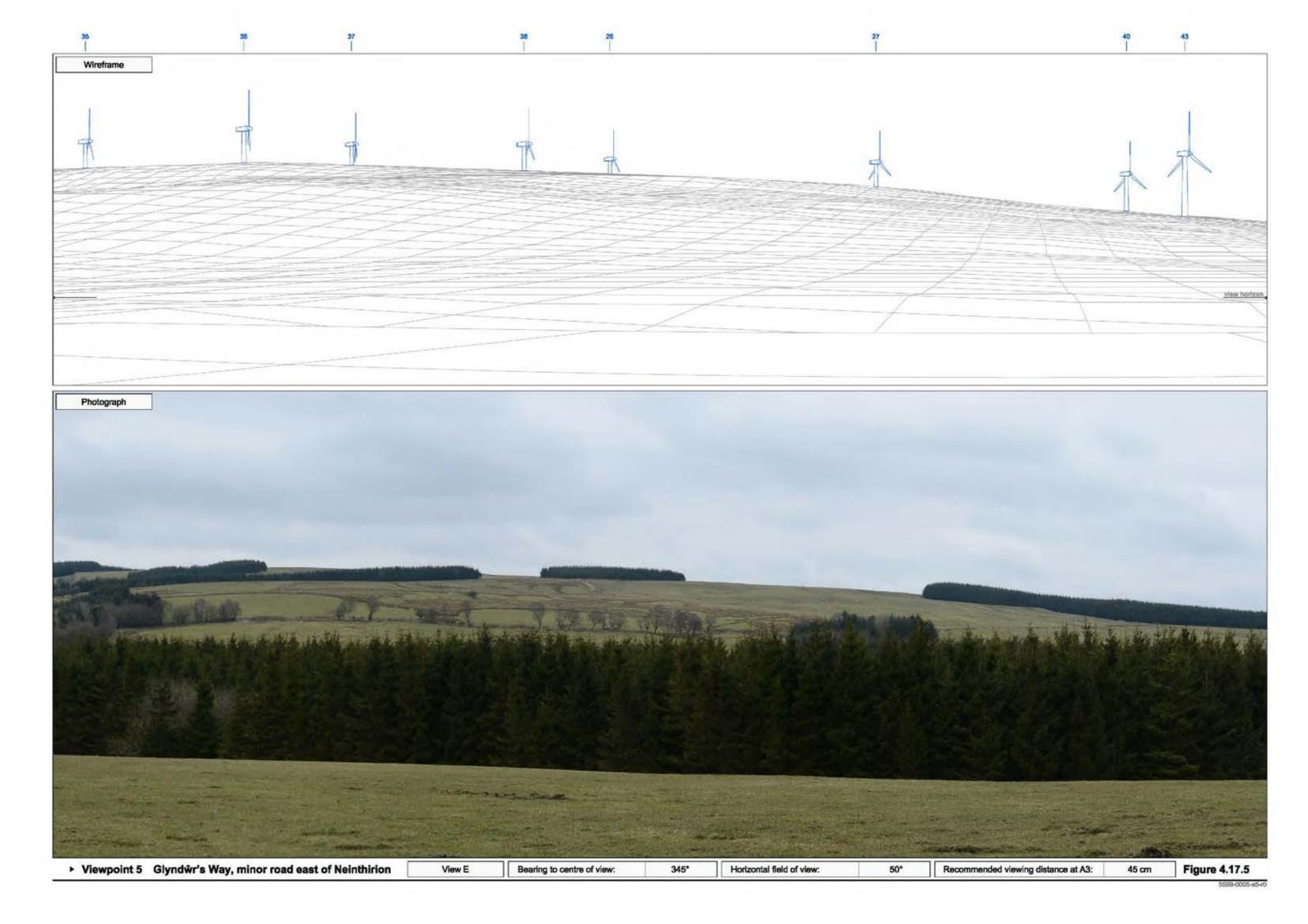














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Viewpoint 5 Glyndŵr's Way, minor road east of Neinthirion View C	Bearing to centre of view:	230°	Horizontal field of view:	50°	Recommended

ded viewing distance at A3:	45 cm	Figure 4.17.6
		5529-0005-48-0



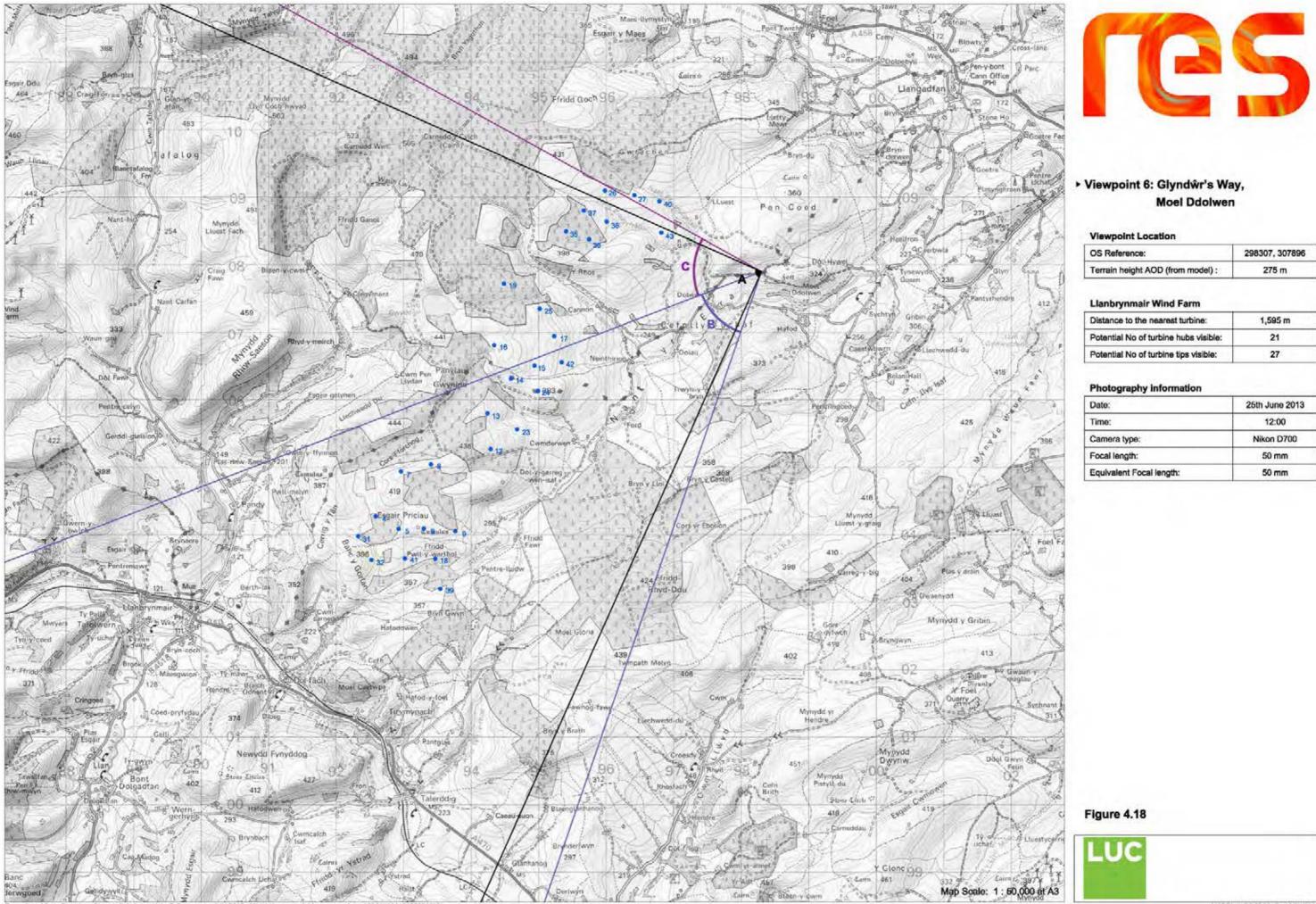
		10000		20180		
Viewpoint 5 Glyndŵr's Way, minor road east of Neinthirion	View D	Bearing to centre of view:	280°	Horizontal field of view:	50°	Recommended v

ded viewing distance at A3:	45 cm	Figure 4.17.7
		5589-0005-87-(0



					5131		
Viewpoint 5 G	lyndŵr's Way, minor road east of Neinthirion	View E	Bearing to centre of view:	345°	Horizontal field of view:	50°	Recommended

ded viewing distance at A3:	45 cm	Figure 4.17.8
		2220 0002 -0 -0



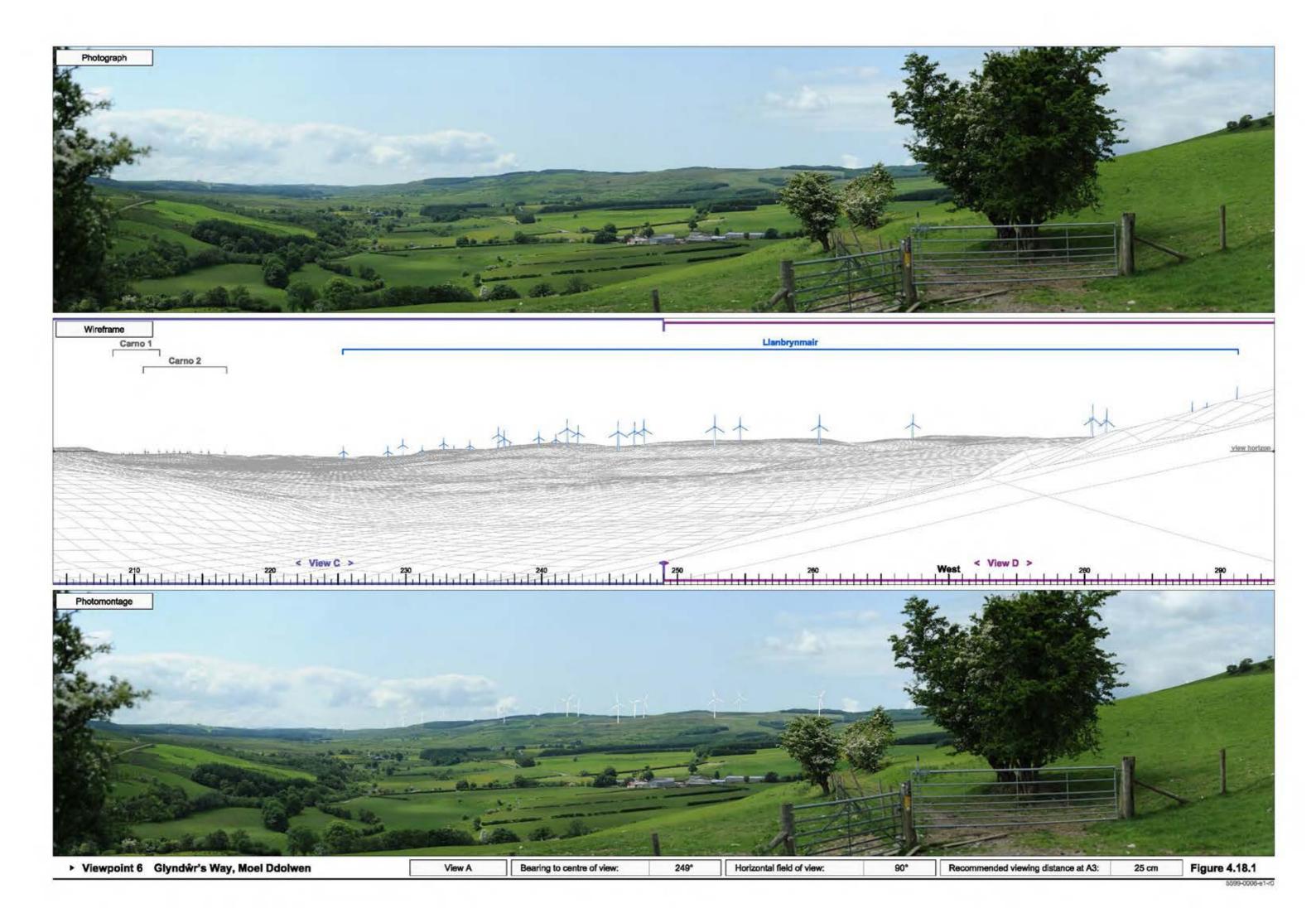
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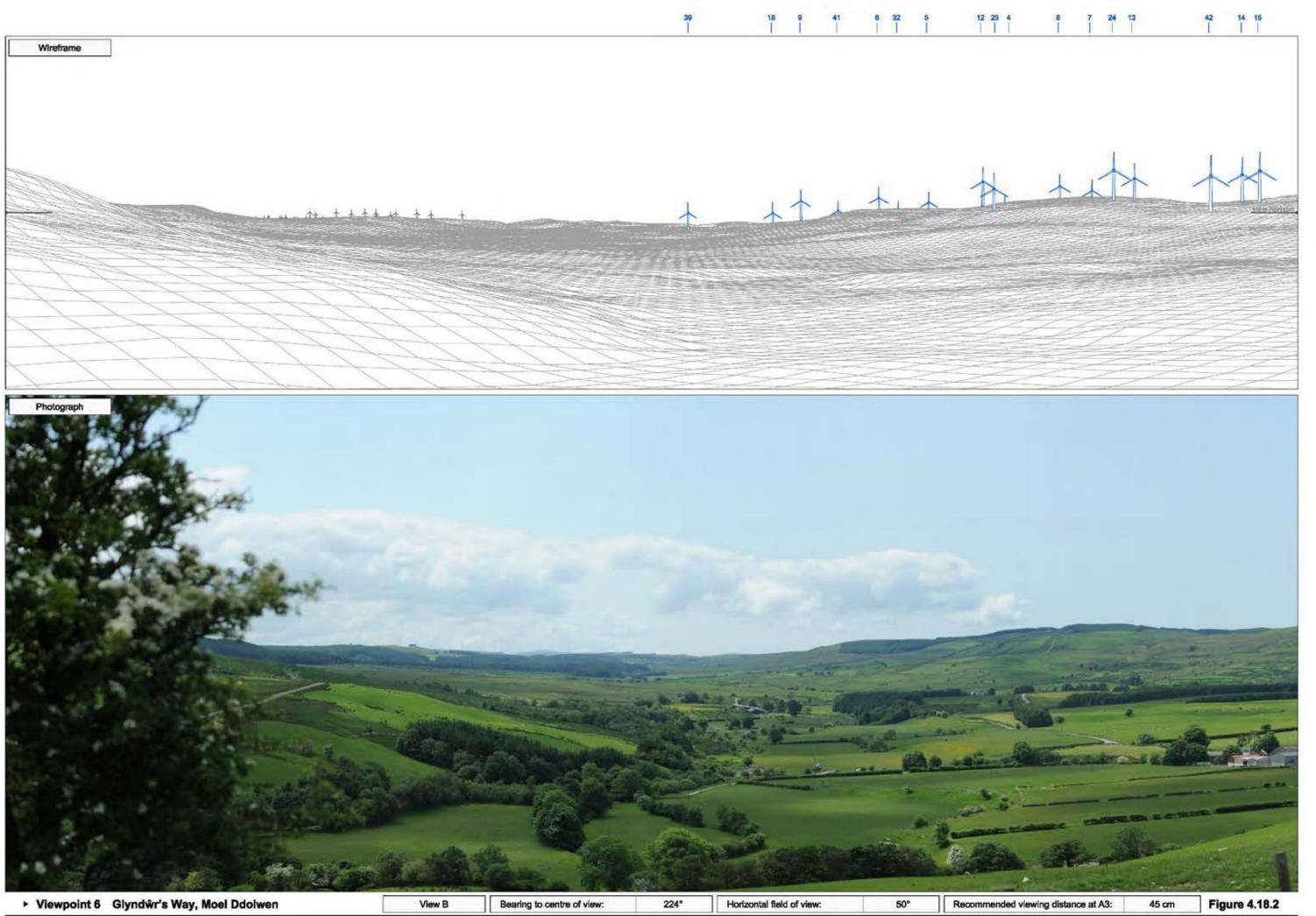
OS Reference:	298307, 307896			
Terrain height AOD (from model) :	275 m			

Distance to the nearest turbine:	1,595 m
Potential No of turbine hubs visible:	21
Potential No of turbine tips visible:	27

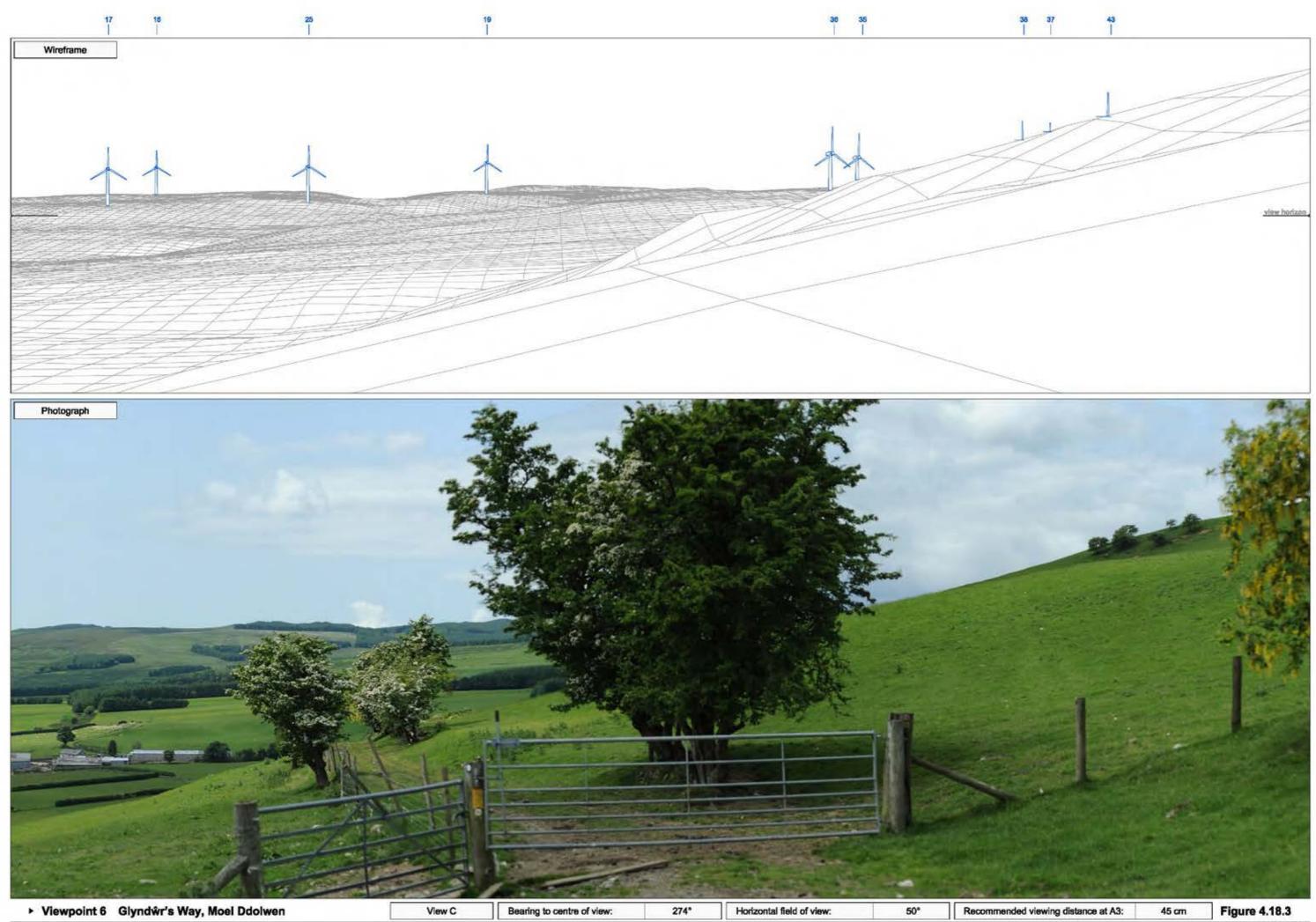
Date:	25th June 2013			
Time:	12:00			
Camera type:	Nikon D700			
Focal length:	50 mm			
Equivalent Focal length:	50 mm			

LUCGL 5599-0006-r0 19/07/2013





5589-0008-42-10

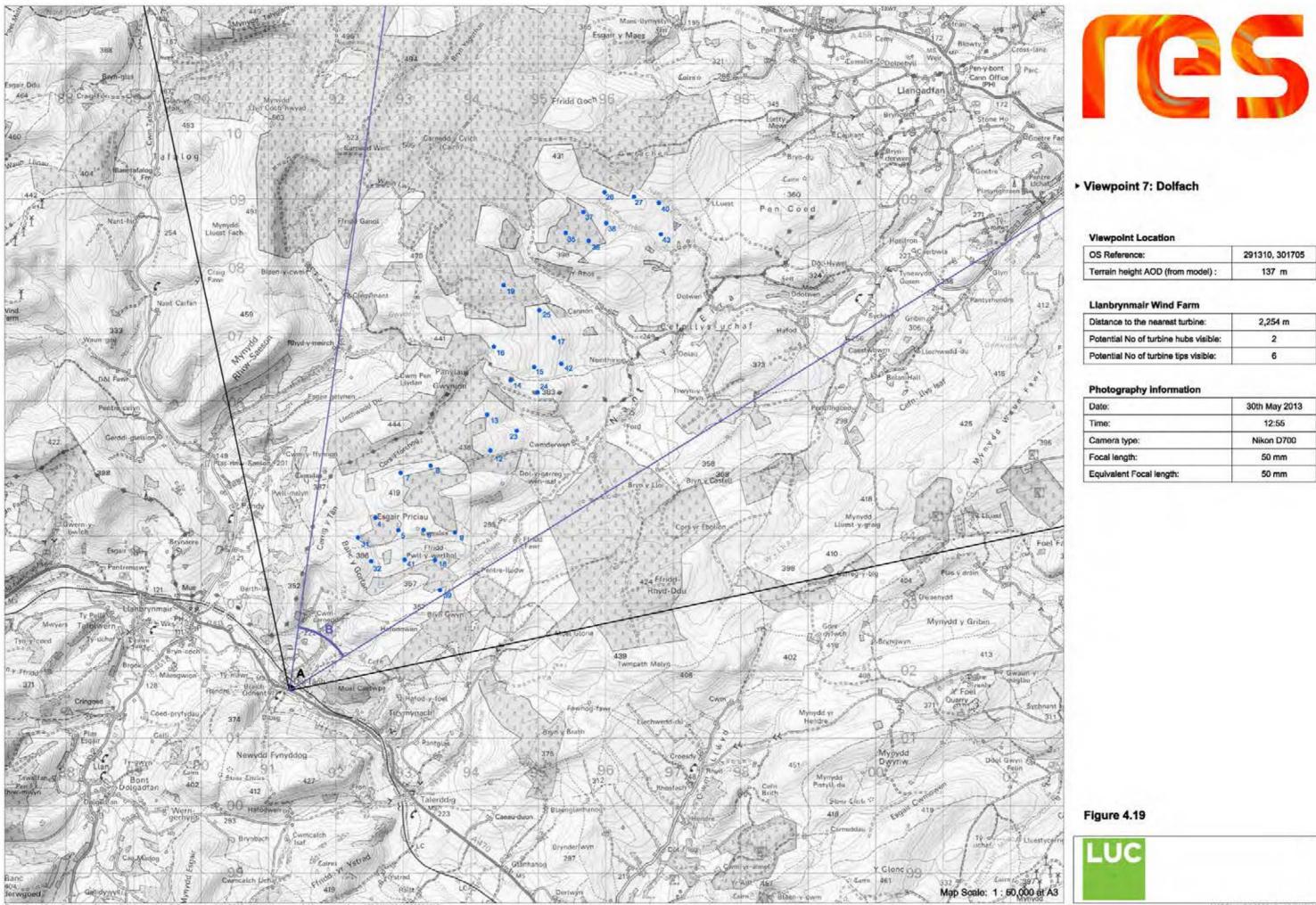




Viewpoint 6 Glyndŵr's Way, Moel Ddolwen	View B	Bearing to centre of view:	224°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.18.4
								5589-0006-\$4-r0



				1				12.27
Viewpoint 6 Glyndŵr's Way, Moel Ddolwen	View C	Bearing to centre of view:	274°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.18.5
								5509,0008,+5,+0

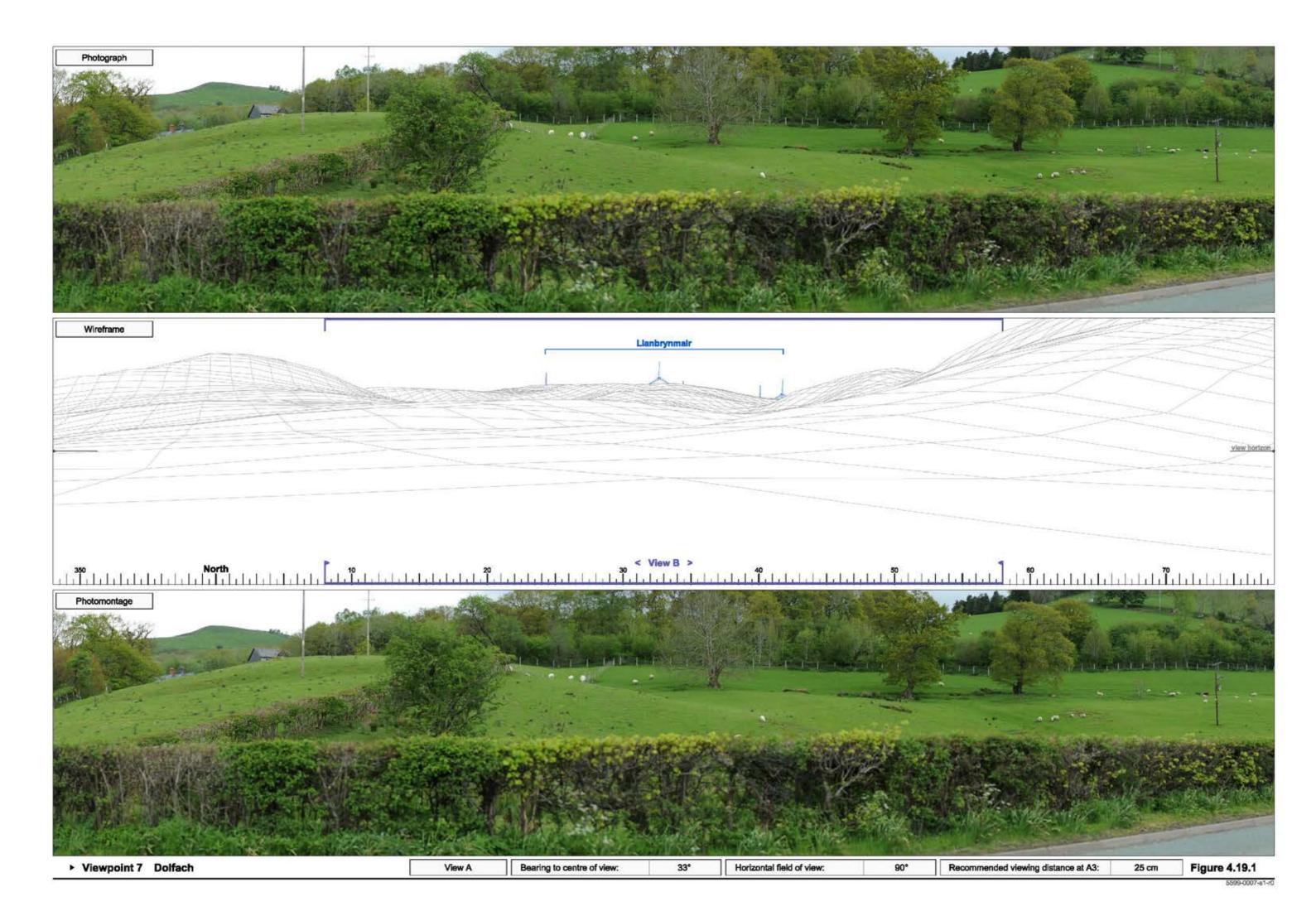


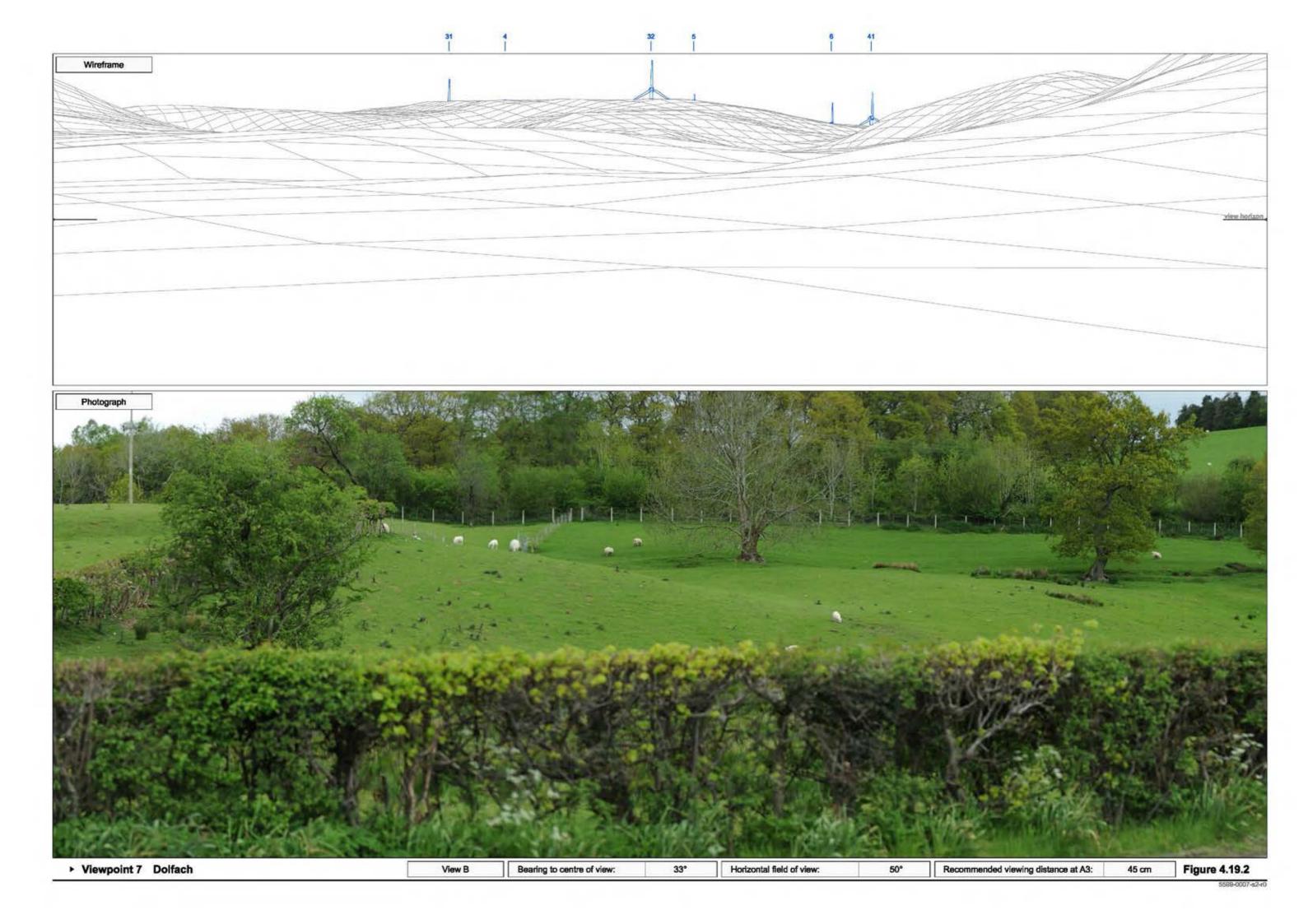
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OS Reference:	291310, 301705
Terrain height AOD (from model) :	137 m

Distance to the nearest turbine:	2,254 m
Potential No of turbine hubs visible:	2
Potential No of turbine tips visible:	6

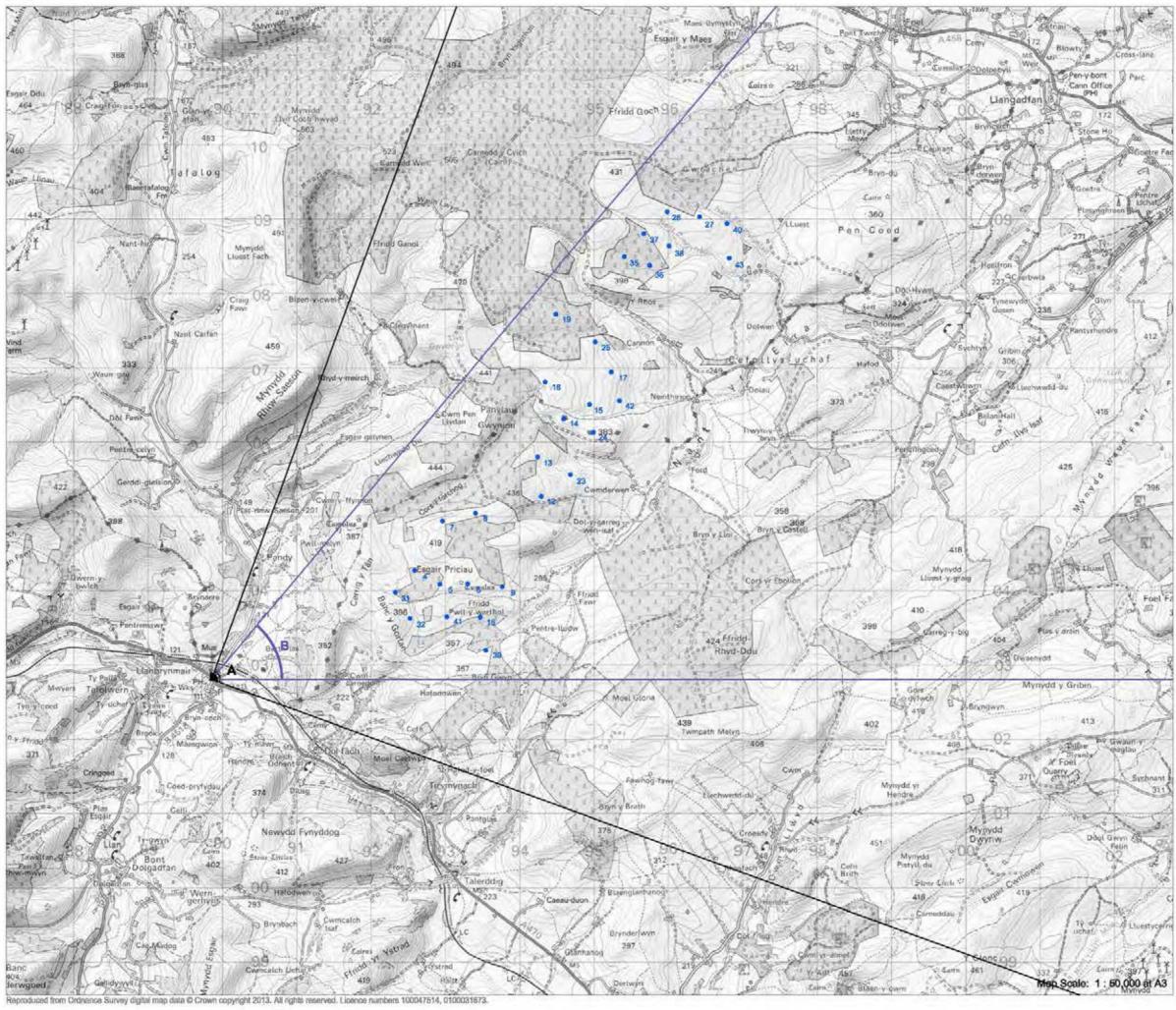
Date:	30th May 2013
Time:	12:55
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm







Viewpoint 7 Dolfach	View B	Bearing to centre of view:	33°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.19.3
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## Viewpoint 8: Llanbrynmair Village

### **Viewpoint Location**

OS Reference:	289852, 302803
Terrain height AOD (from model) :	107 m

### Llanbrynmair Wind Farm

Distance to the nearest turbine:	2,737 m
Potential No of turbine hubs visible:	0
Potential No of turbine tips visible:	:1

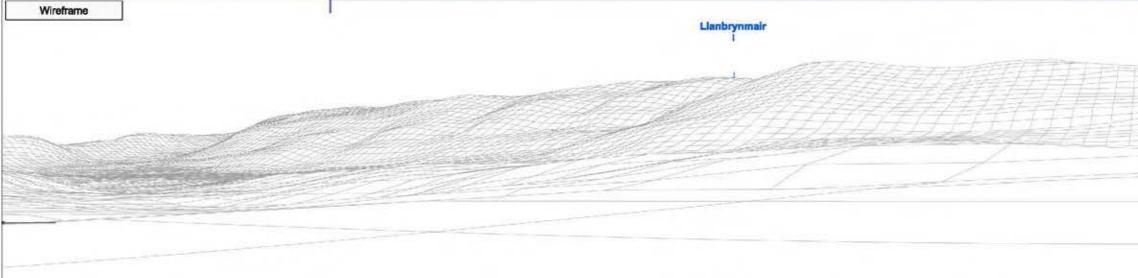
# Photography information

Date:	24th June 2013
Time:	13:30
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm

### Figure 4.20







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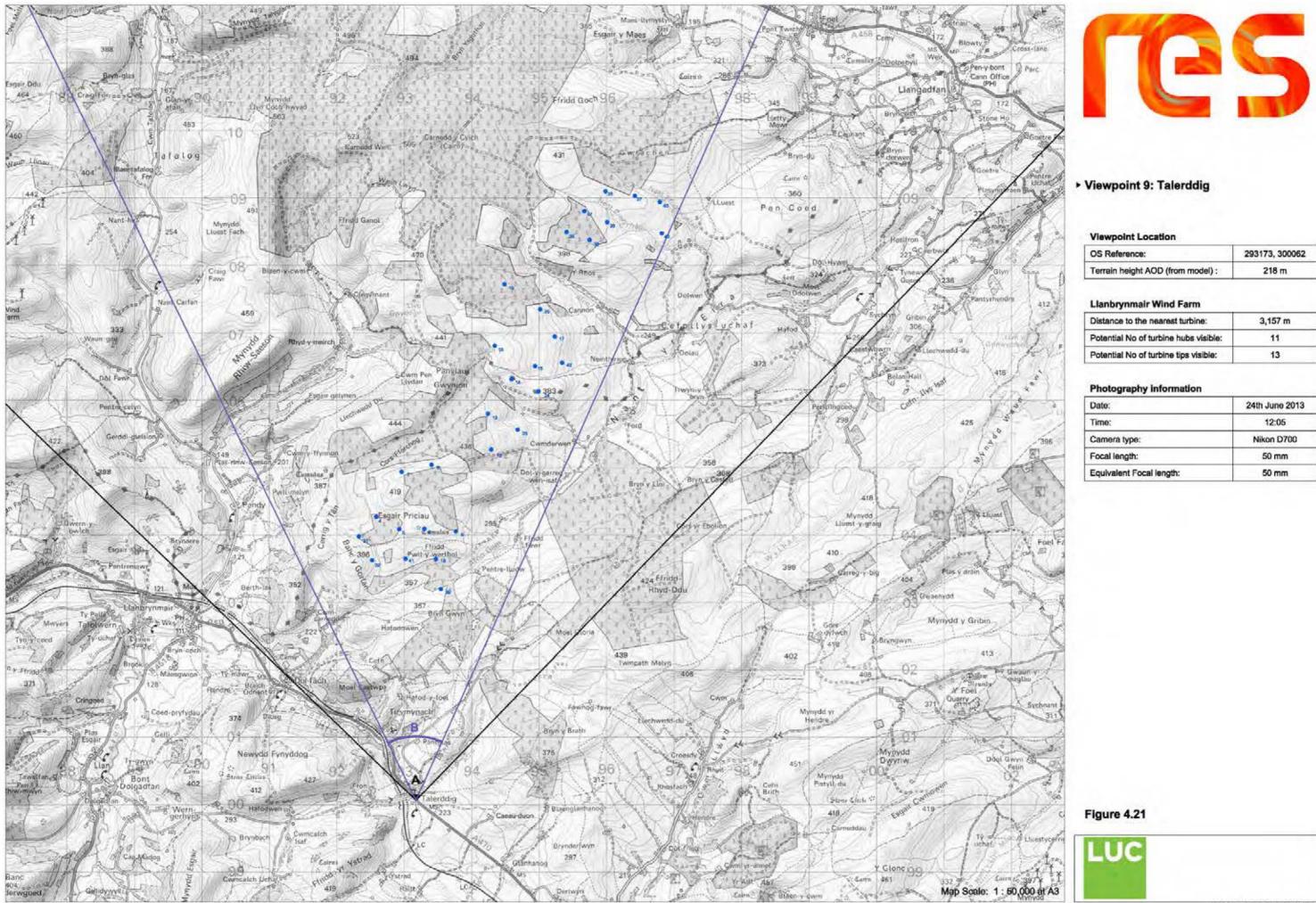


5599-0008-a1-r0





View B	Bearing to centre of view:	65°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.20.3
	View B	View B Bearing to centre of view:	View B Bearing to centre of view: 65°	View B Bearing to centre of view: 65° Horizontal field of view:	View B Bearing to centre of view: 65° Horizontal field of view: 50°	View B         Bearing to centre of view:         65°         Horizontal field of view:         50°         Recommended viewing distance at A3:	View B         Bearing to centre of view:         65°         Horizontal field of view:         50°         Recommended viewing distance at A3:         45 cm



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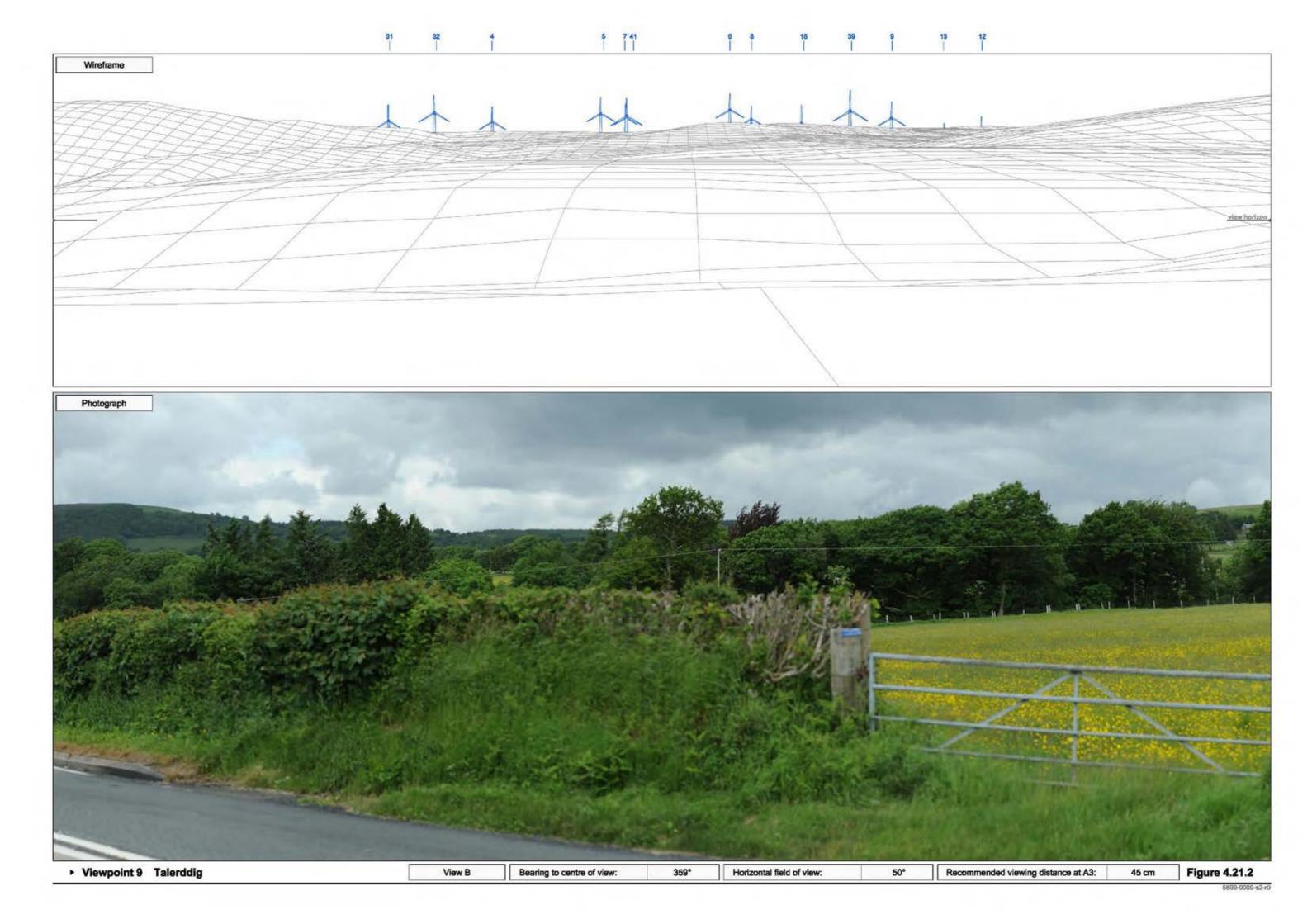
OS Reference:	293173, 300062
Terrain height AOD (from model) :	218 m

Distance to the nearest turbine:	3,157 m
Potential No of turbine hubs visible:	11
Potential No of turbine tips visible:	13

Date:	24th June 2013
Time:	12:05
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm

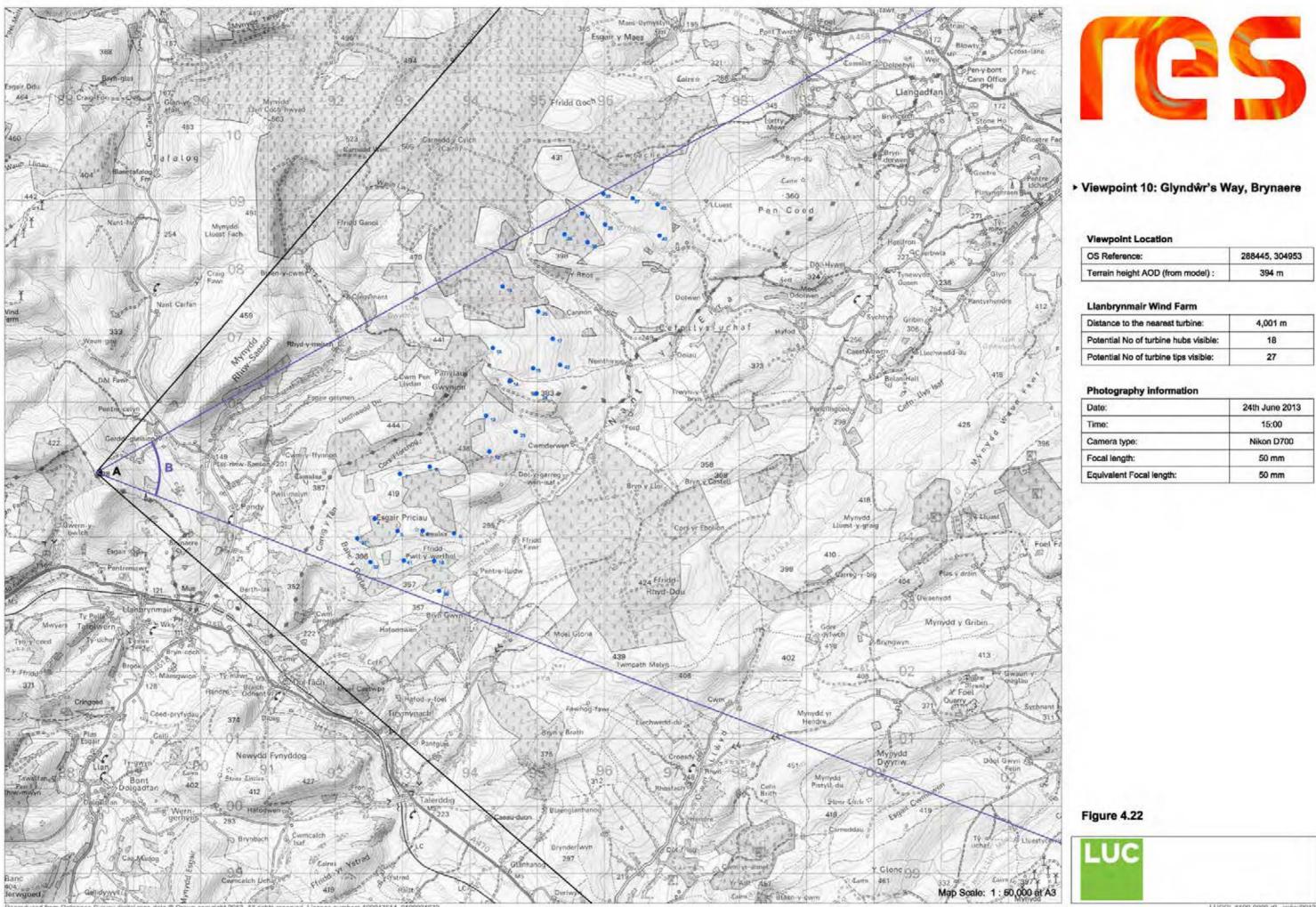








Viewpoint 9 Talerddig	View B	Bearing to centre of view:	359°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.21.3
								5509-0009-43-0

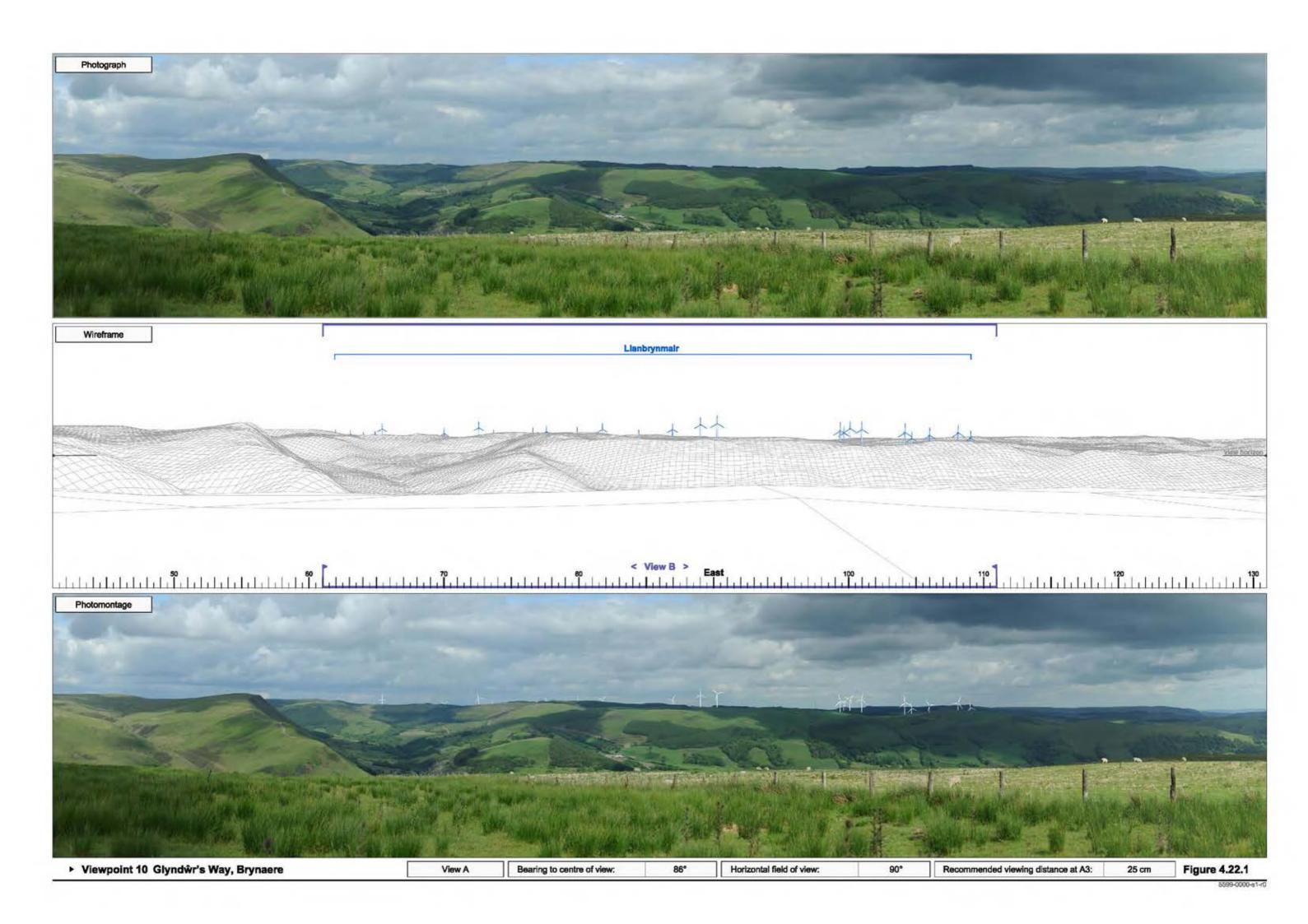


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OS Reference:	288445, 304953
Terrain height AOD (from model) :	394 m

Distance to the nearest turbine:	4,001 m
Potential No of turbine hubs visible:	18
Potential No of turbine tips visible:	27

Date:	24th June 2013
Time:	15:00
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm

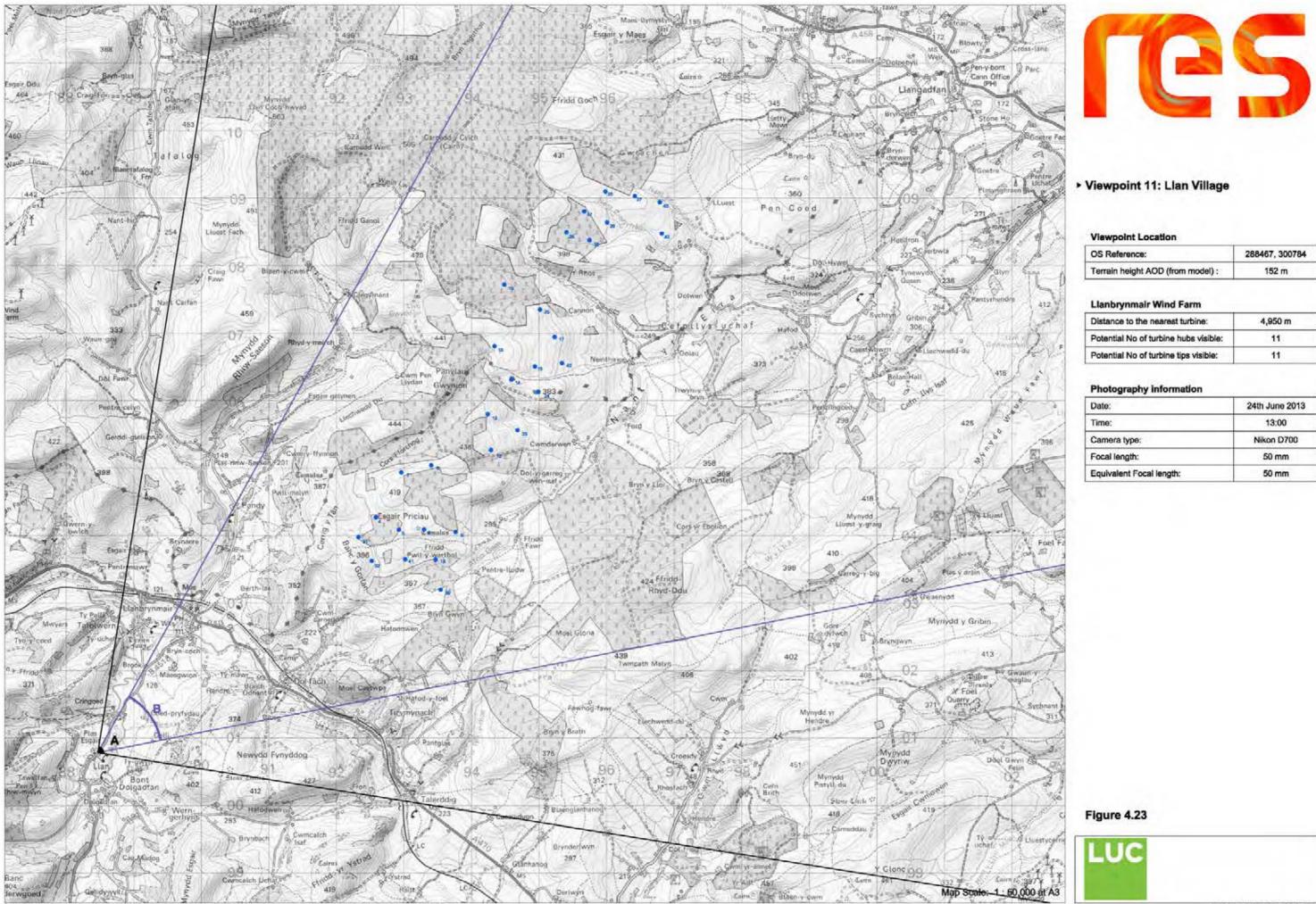






				1		
Viewpoint 10 Glyndŵr's Way, Brynaere	View B	Bearing to centre of view:	86°	Horizontal field of view:	50°	Recommended
2. Ministration and the second structure structure in the second structure st structure structure struc	. Pair			The second s		

ded viewing distance at A3:	45 cm	Figure 4.22.3
		FE07 - 2 -0



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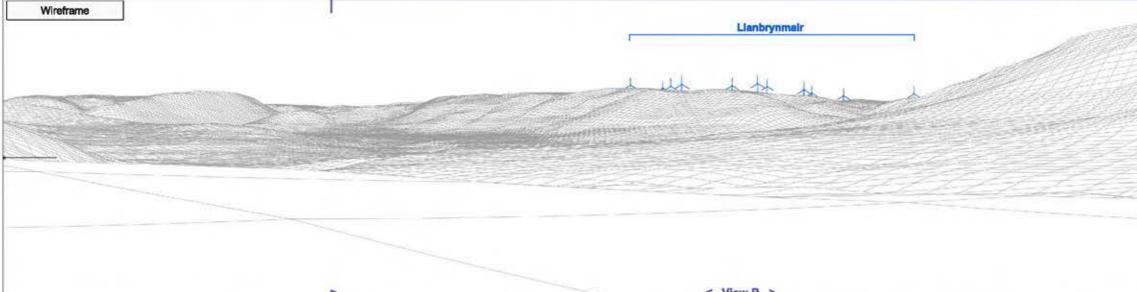
OS Reference:	288467, 300784
Terrain height AOD (from model) :	152 m

Distance to the nearest turbine:	4,950 m
Potential No of turbine hubs visible:	11
Potential No of turbine tips visible:	11

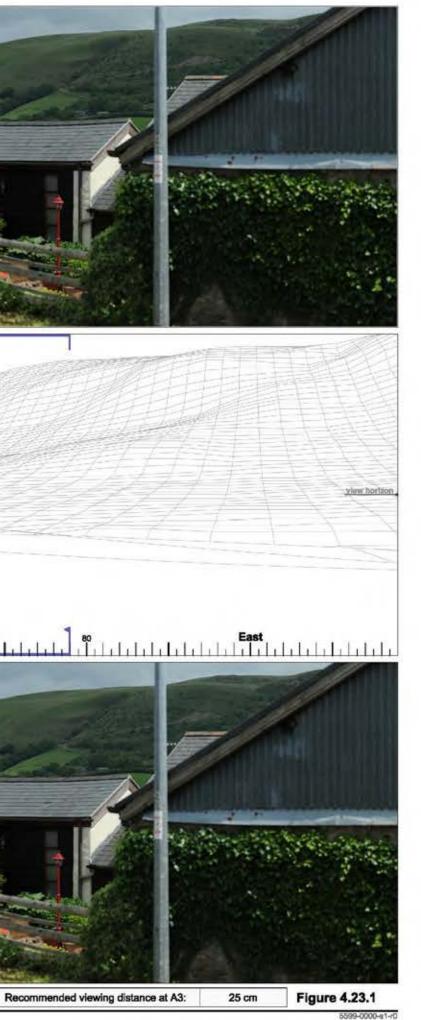
Date:	24th June 2013
Time:	13:00
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm

LUCGL 5599-0011-r0 19/07/2013





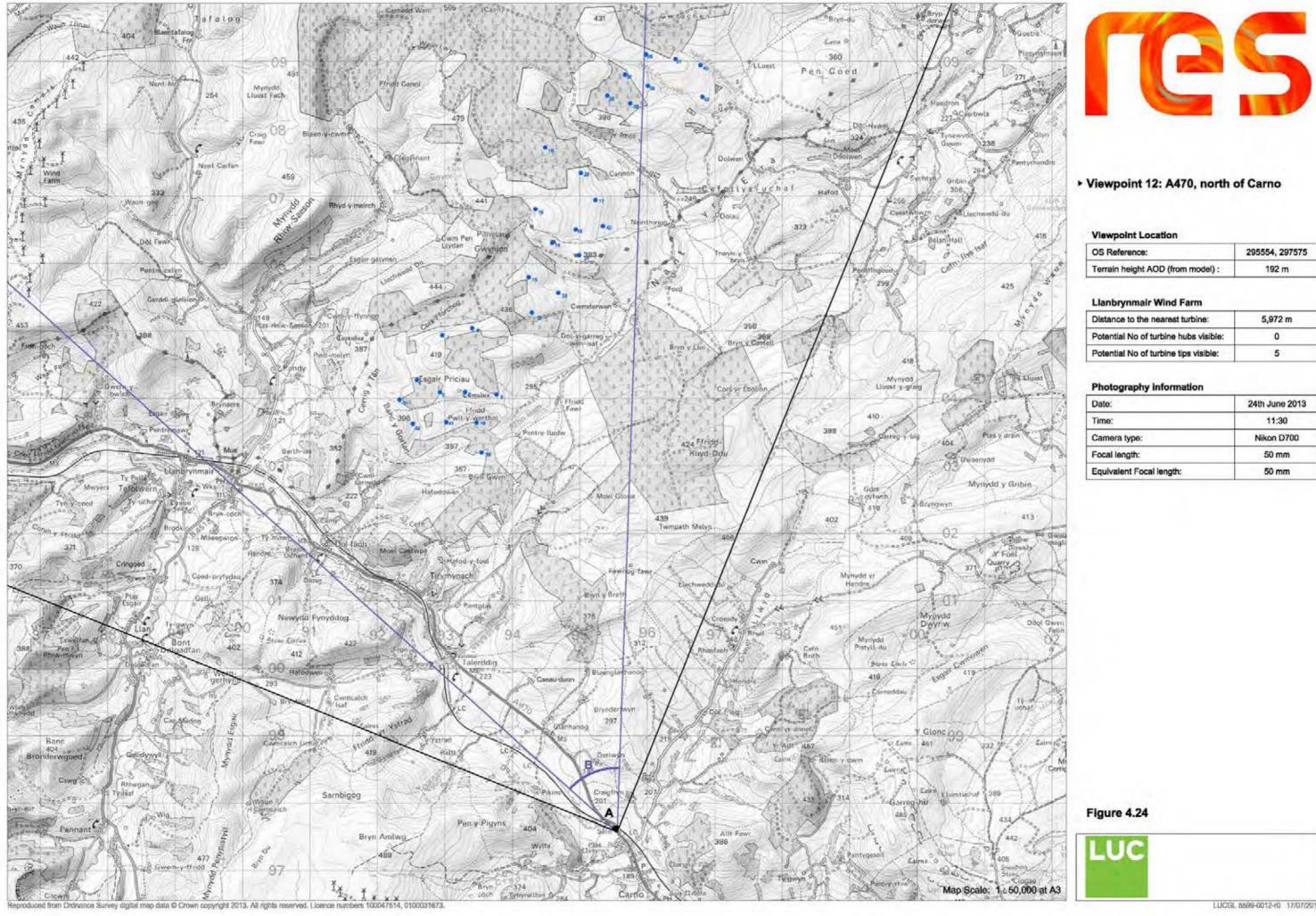








Viewpoint 11 Llan Village	View B	Bearing to centre of view:	54°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.23.3
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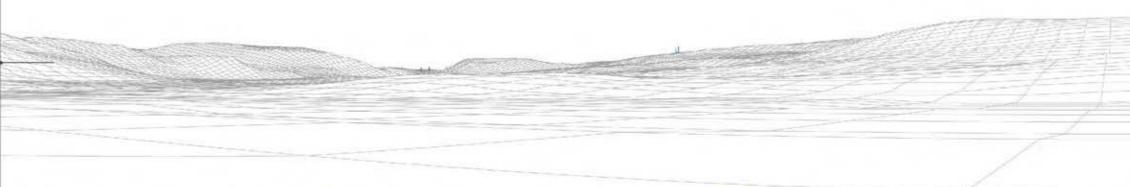
OS Reference:	295554, 297575
Terrain height AOD (from model) :	192 m

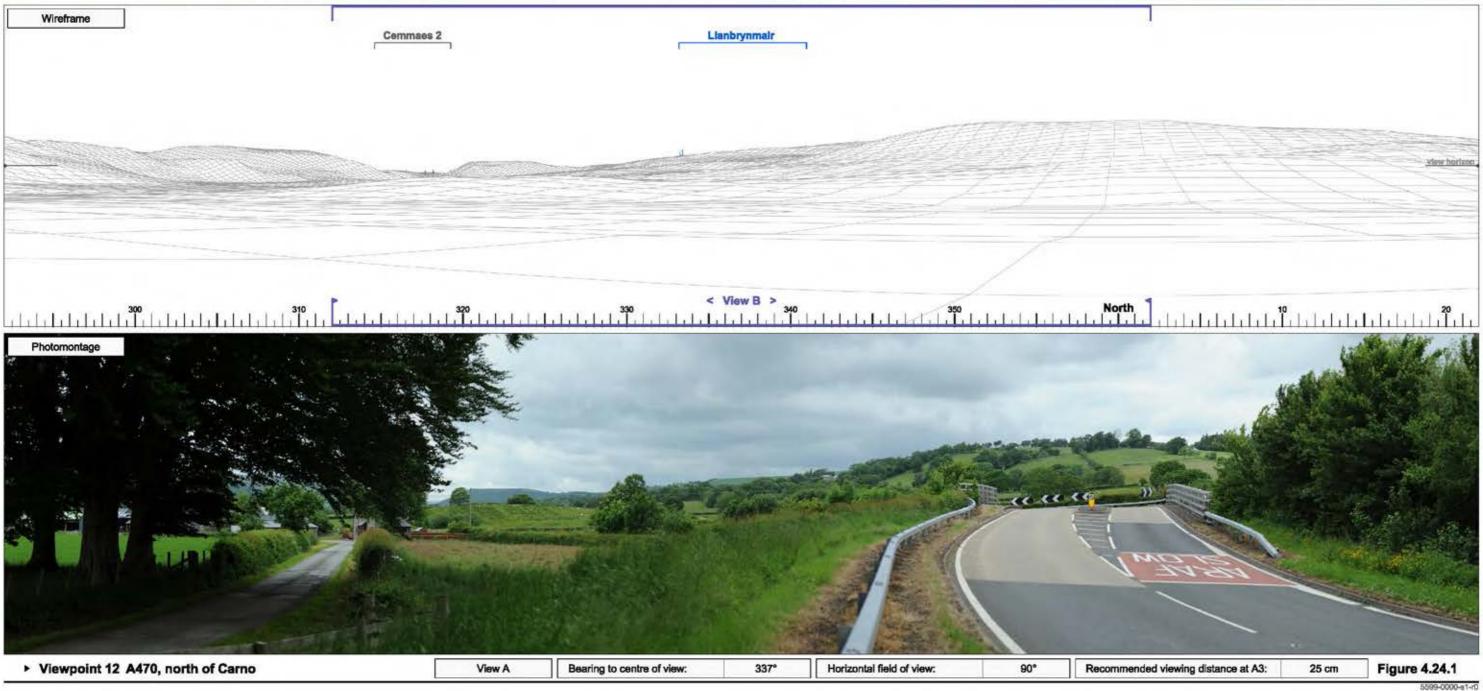
Distance to the nearest turbine:	5,972 m
Potential No of turbine hubs visible:	0
Potential No of turbine tips visible:	5

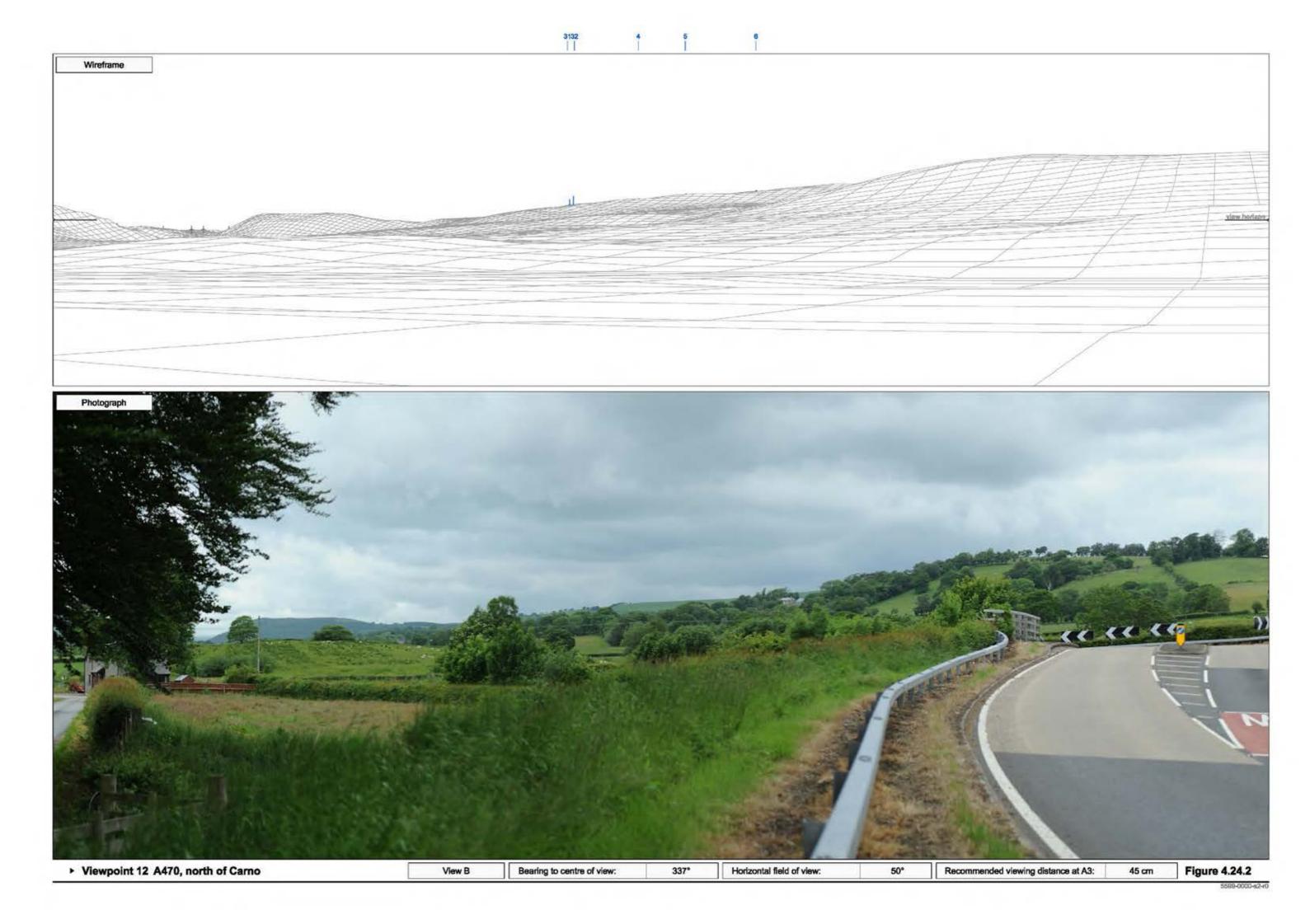
Date:	24th June 2013
Time:	11:30
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm

LUCGL 8599-0012-10 17/07/2013





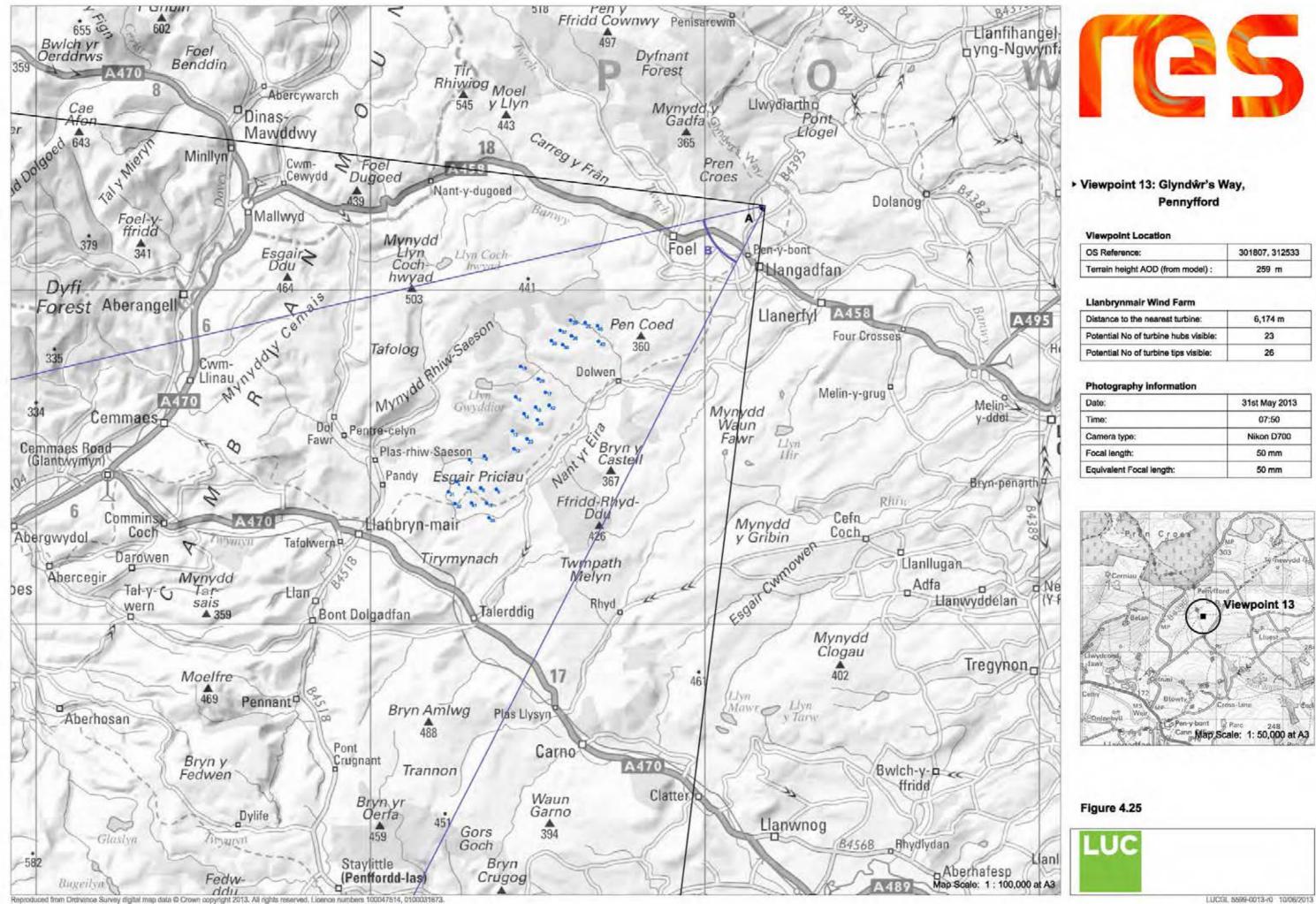






Viewpoint 12 A470, north of Carno	View B	Bearing to centre of view:	337°	Horizontal field of view:	50°	Recommended
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ded viewing distance at A3:	45 cm	Figure 4.24.3
		20 See 2033, www.



OS Reference:	301807, 312533
Terrain height AOD (from model) :	259 m

Distance to the nearest turbine:	6,174 m
Potential No of turbine hubs visible:	23
Potential No of turbine tips visible:	26

Date:	31st May 2013
Time:	07:50
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm





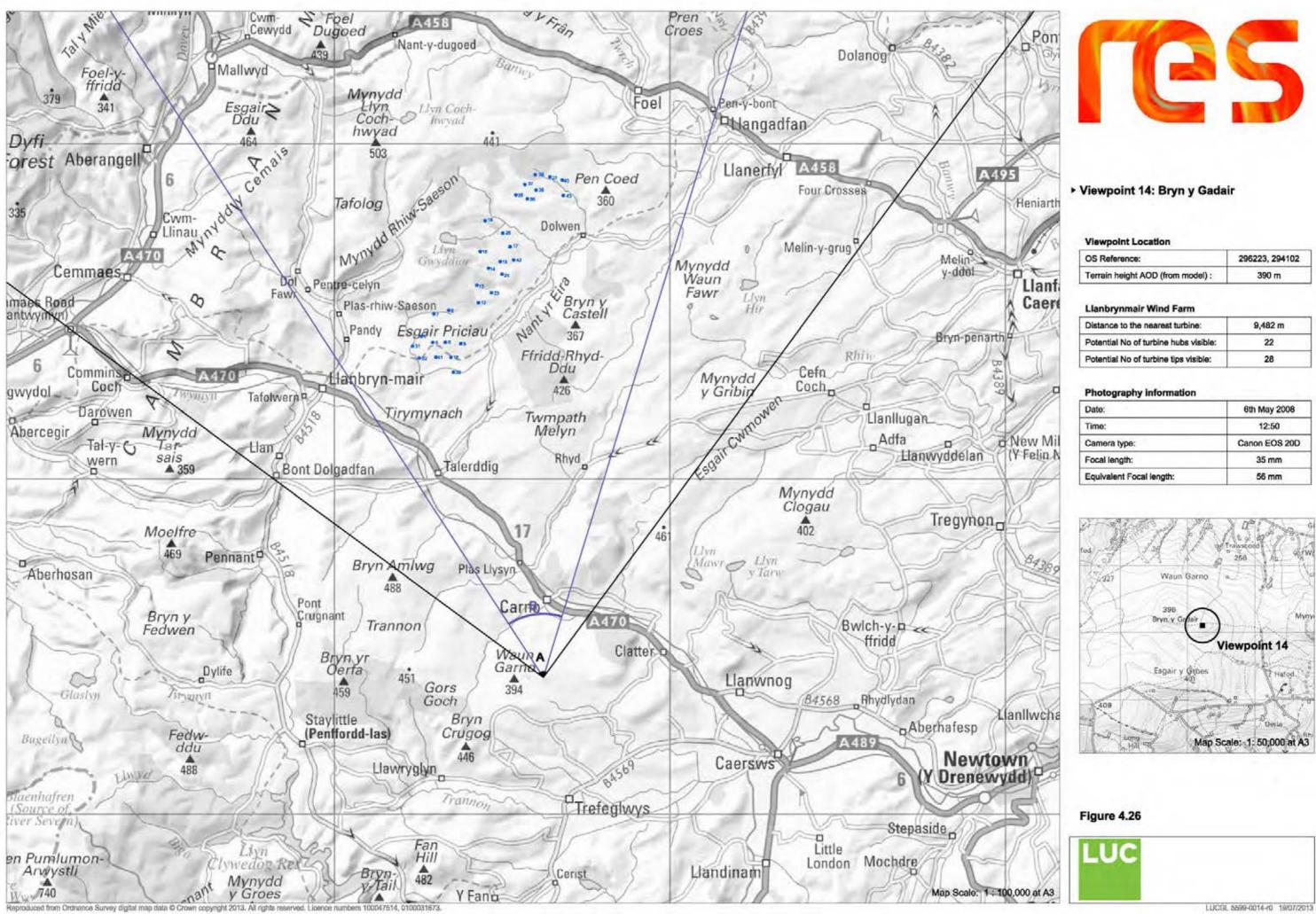
5589-0013-s2-r0





	12 million (1997)			141 BC		
Viewpoint 13 Glyndŵr's Way, Pennyfford	View B	Bearing to centre of view:	232°	Horizontal field of view:	50°	Recommended
			A. 1.7			

ded viewing distance at A3:	45 cm	Figure 4.25.3
		5500,0013,43,40



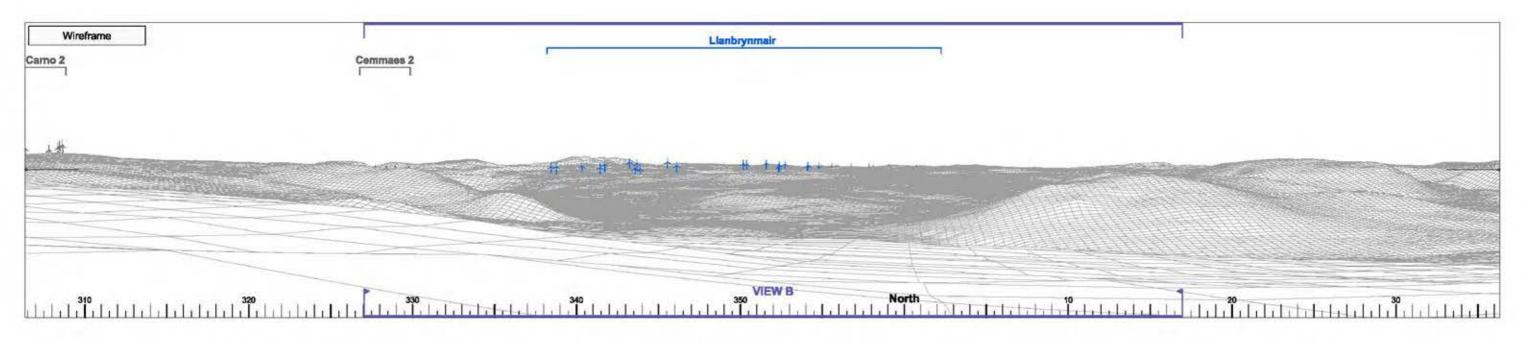
OS Reference:	296223, 294102
Terrain height AOD (from model) :	390 m

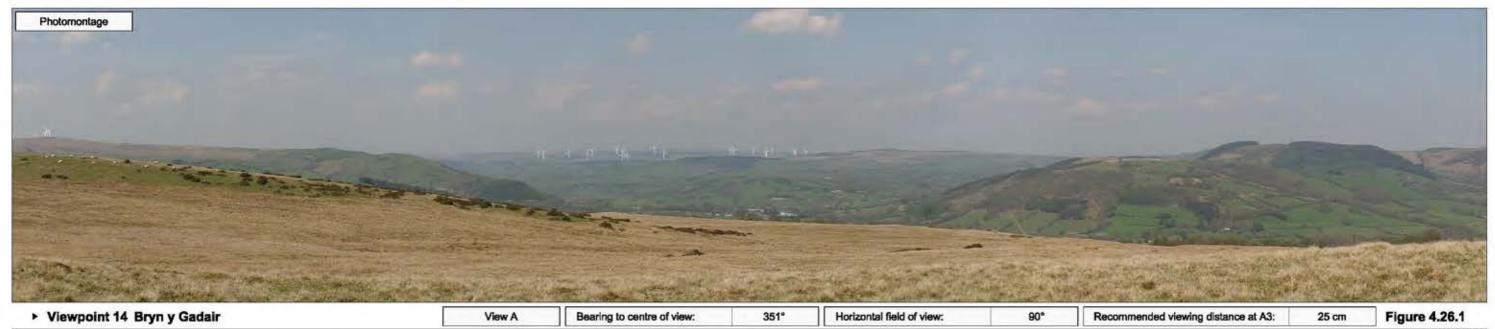
Distance to the nearest turbine:	9,482 m
Potential No of turbine hubs visible:	22
Potential No of turbine tips visible:	28

Date:	6th May 2008
Time:	12:50
Camera type:	Canon EOS 20D
Focal length:	35 mm
Equivalent Focal length:	56 mm

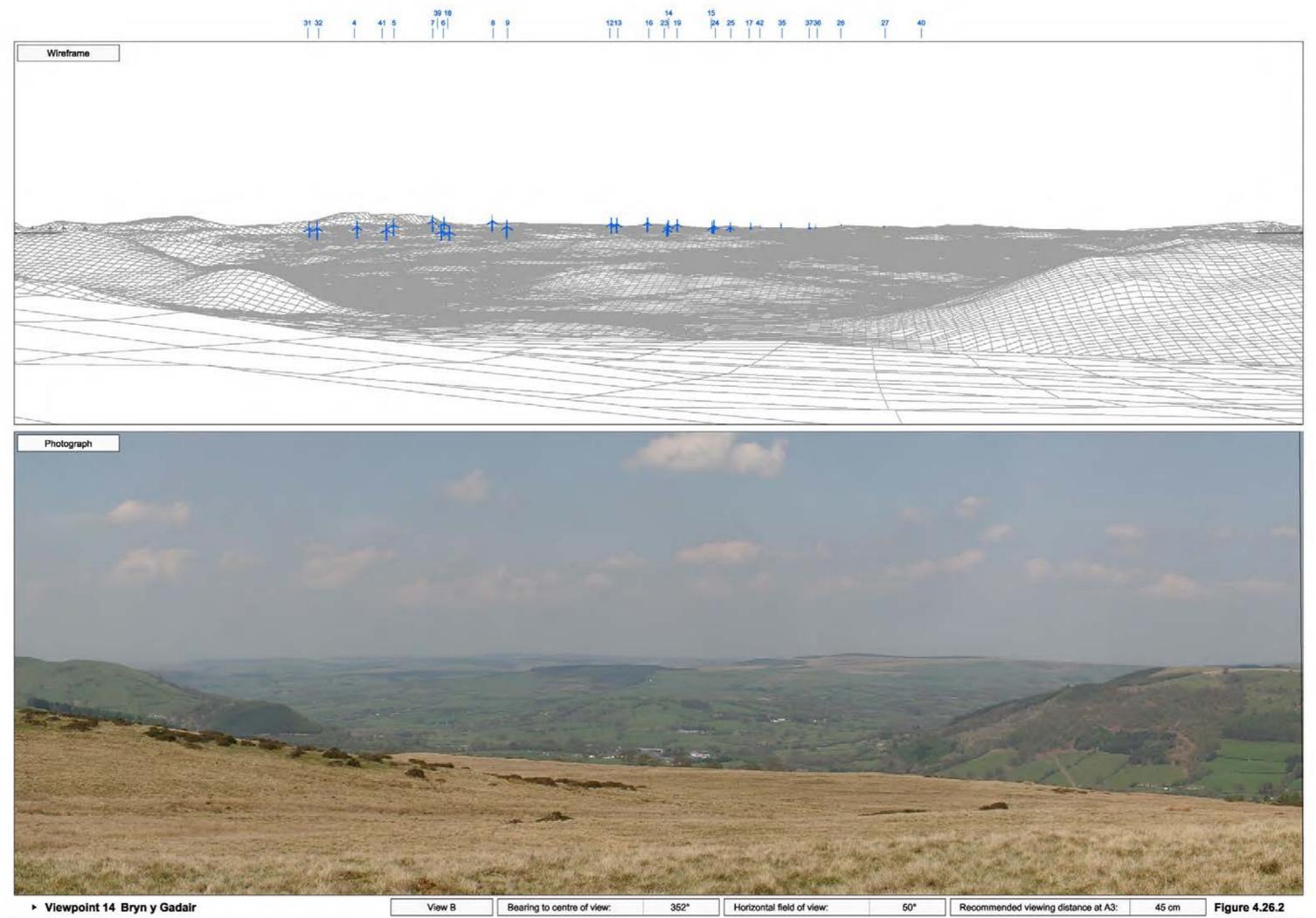
LUCGL 5599-0014-r0 19/07/2013







5599-0014-s1-r0

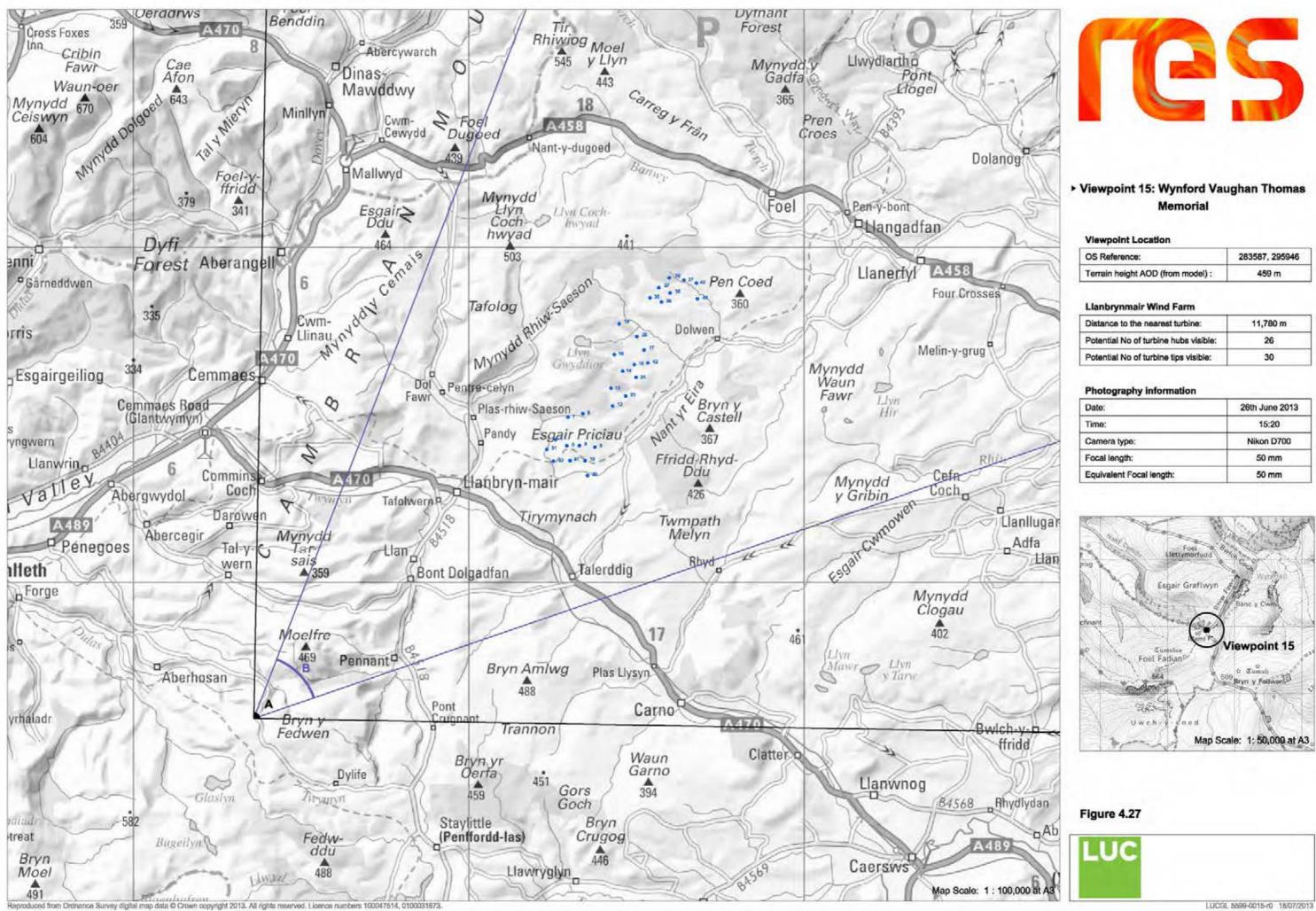


<sup>5599-0014-</sup>s2-r0



	2					
Viewpoint 14 Bryn y Gadair	View B	Bearing to centre of view:	352°	Horizontal field of view:	50°	Recommende

nded viewing distance at A3:	45 cm	Figure 4.26.3
		5599-0014-#3-r0

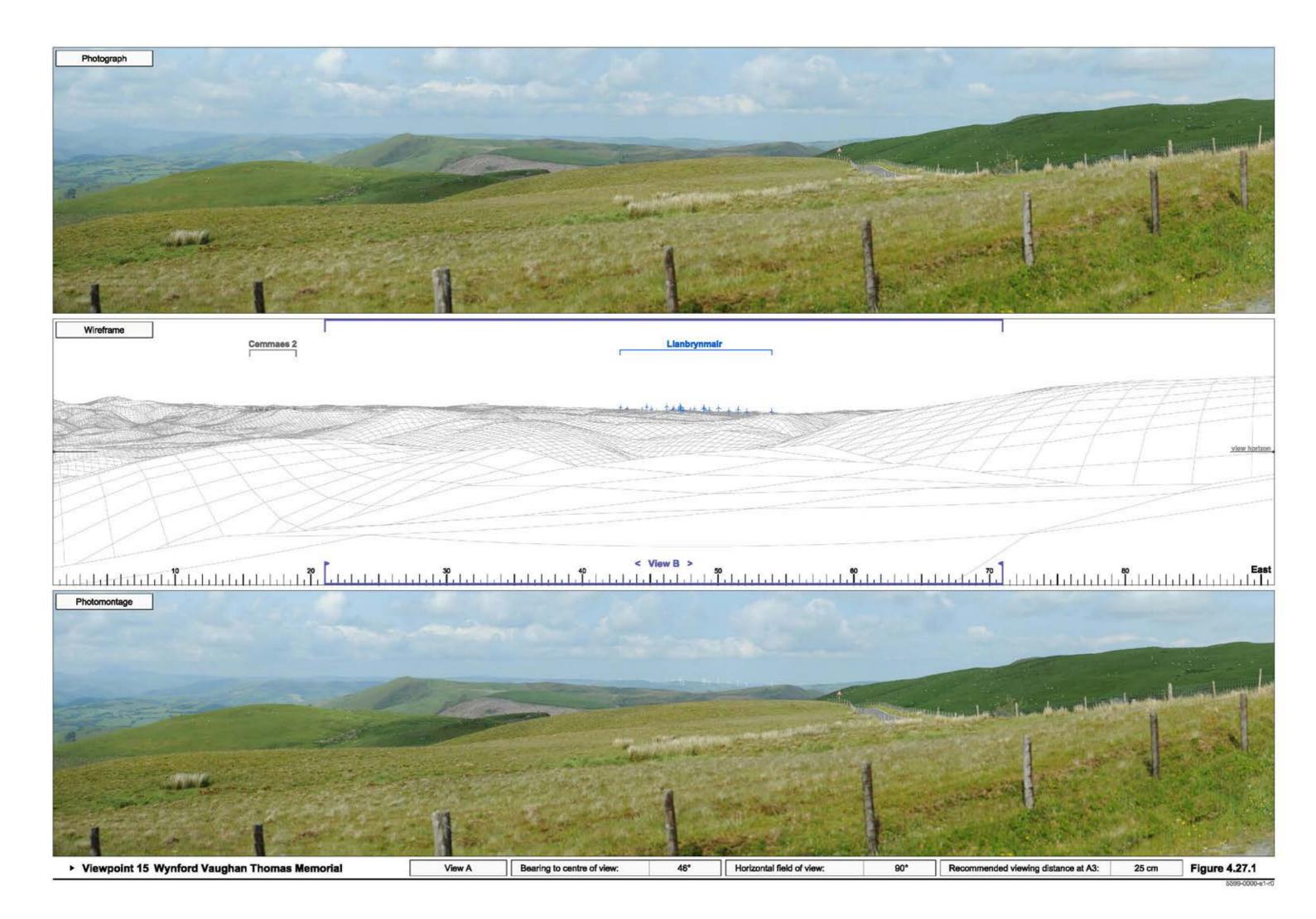


OS Reference:	283587, 295946
Terrain height AOD (from model) :	459 m

Distance to the nearest turbine:	11,780 m
Potential No of turbine hubs visible:	26
Potential No of turbine tips visible:	30

Date:	26th June 2013
Time:	15:20
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm

LUCGL 5599-0015-r0 18/07/2013

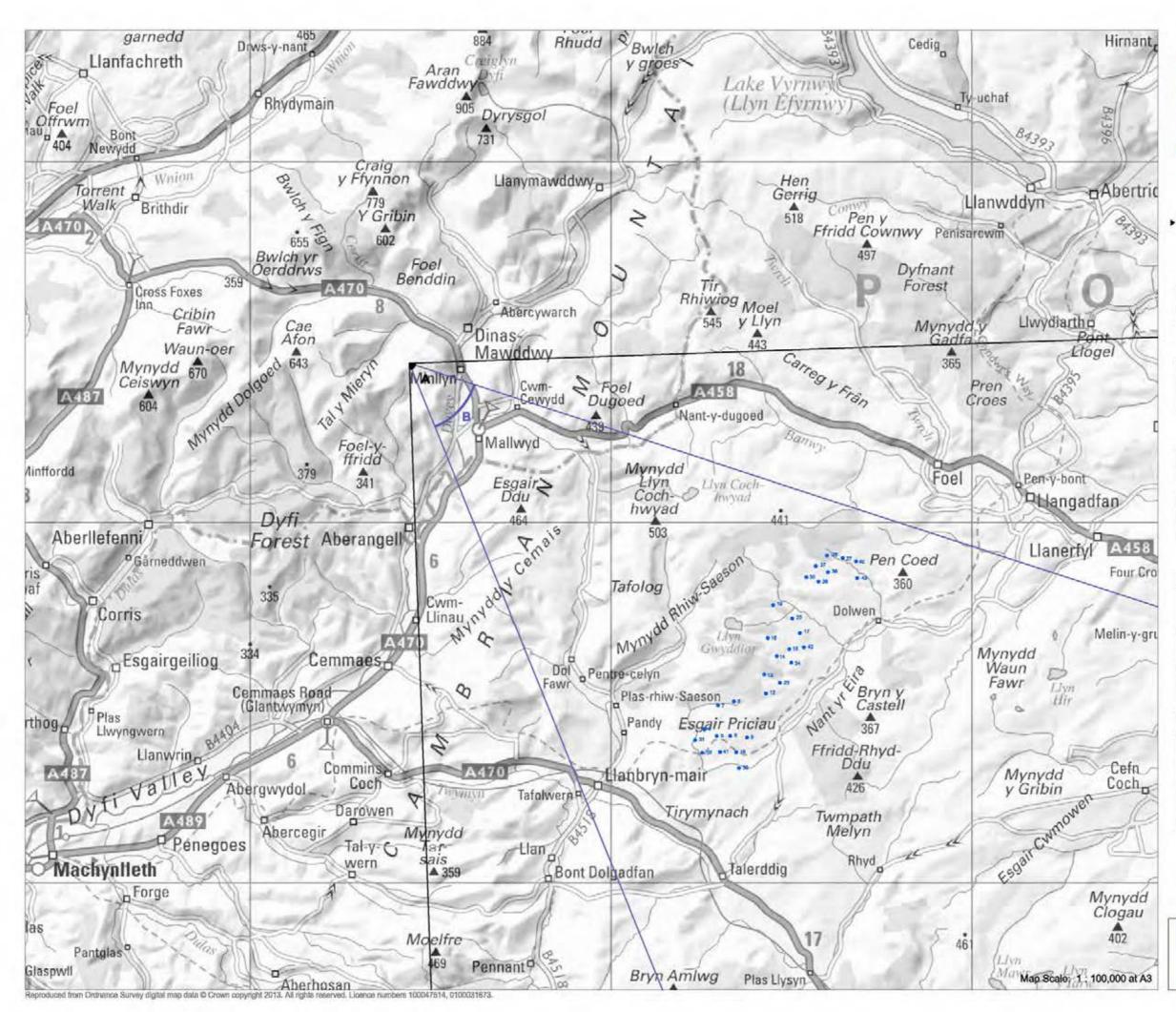






Viewpoint 15 Wynford Vaughan Thomas Memorial	View B	Bearing to centre of view:	46°	Horizontal field of view:	50°	Recommended v
<ol> <li>Many Approximation Approximation and a provide structure of the state of the state</li></ol>	New York Concerns			- Internet and a second s		

ded viewing distance at A3:	45 cm	Figure 4.27.3
		EC05 - 2 -0





# Viewpoint 16: Foel Dinas in Snowdonia National Park

# Viewpoint Location

OS Reference:	284404, 314412
Terrain height AOD (from model) :	471 m

# Llanbrynmair Wind Farm

Distance to the nearest turbine:	12,103 m
Potential No of turbine hubs visible:	4
Potential No of turbine tips visible:	15

# Photography information

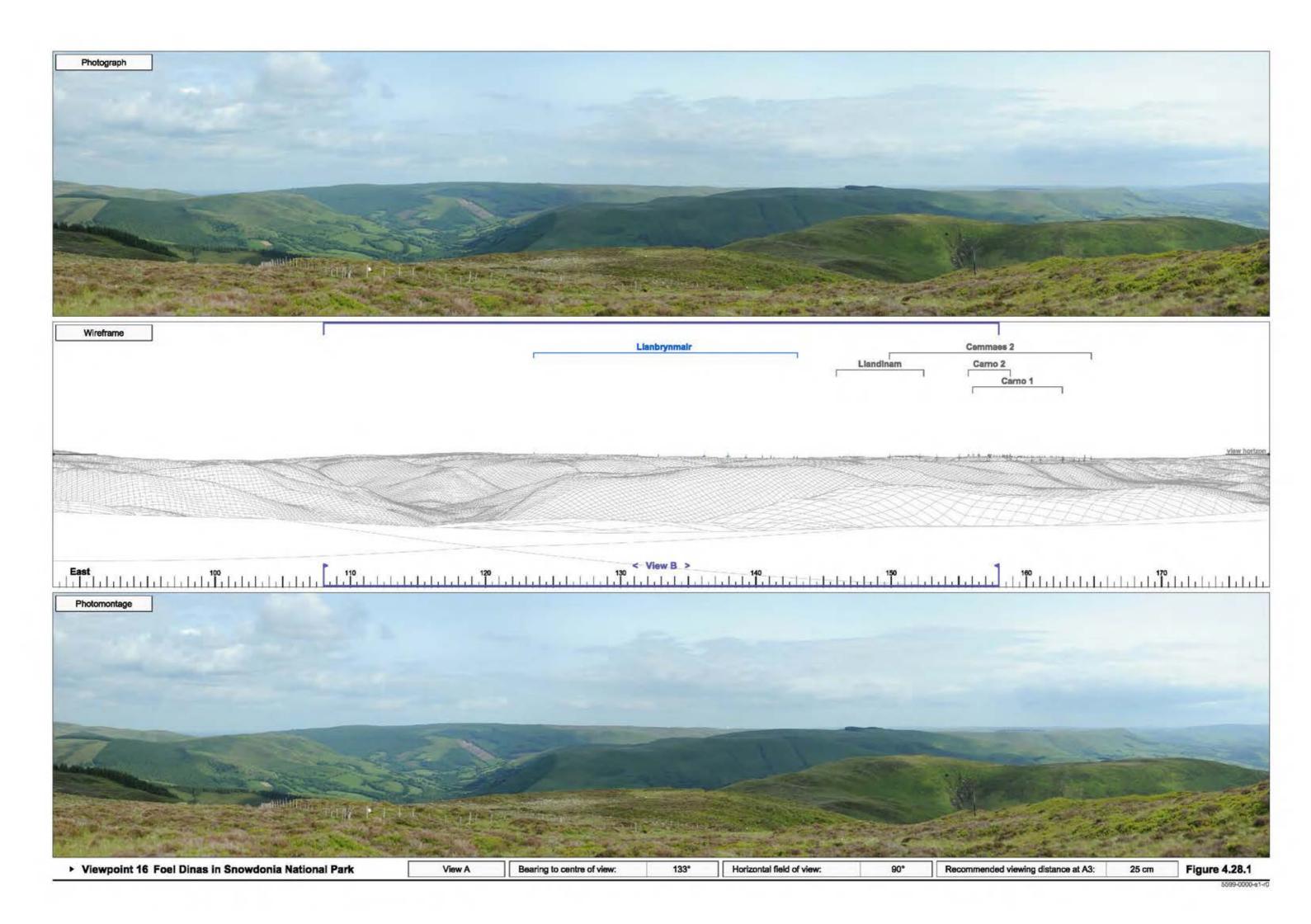
Date:	25th June 2013
Time:	14:30
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm



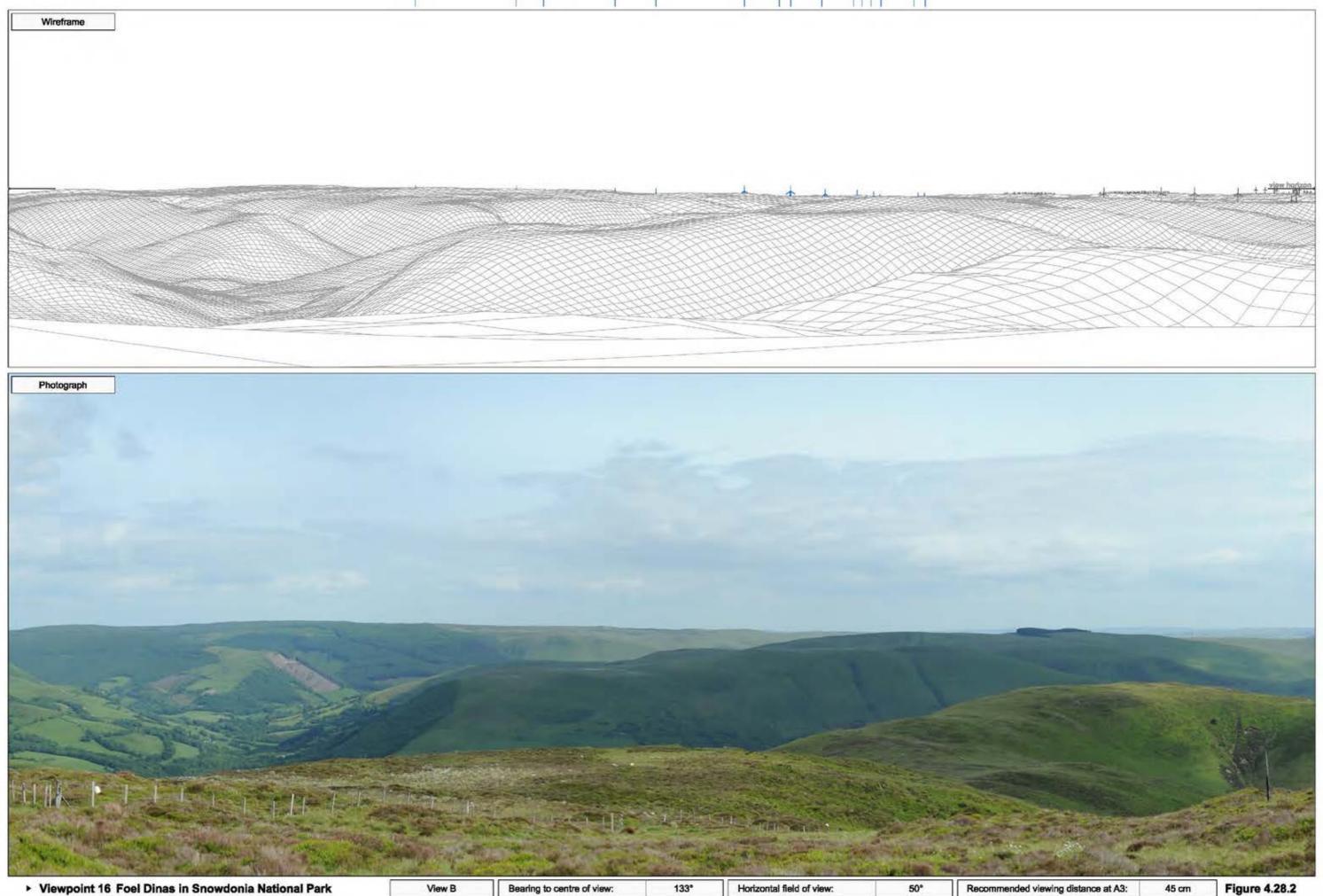
# Figure 4.28

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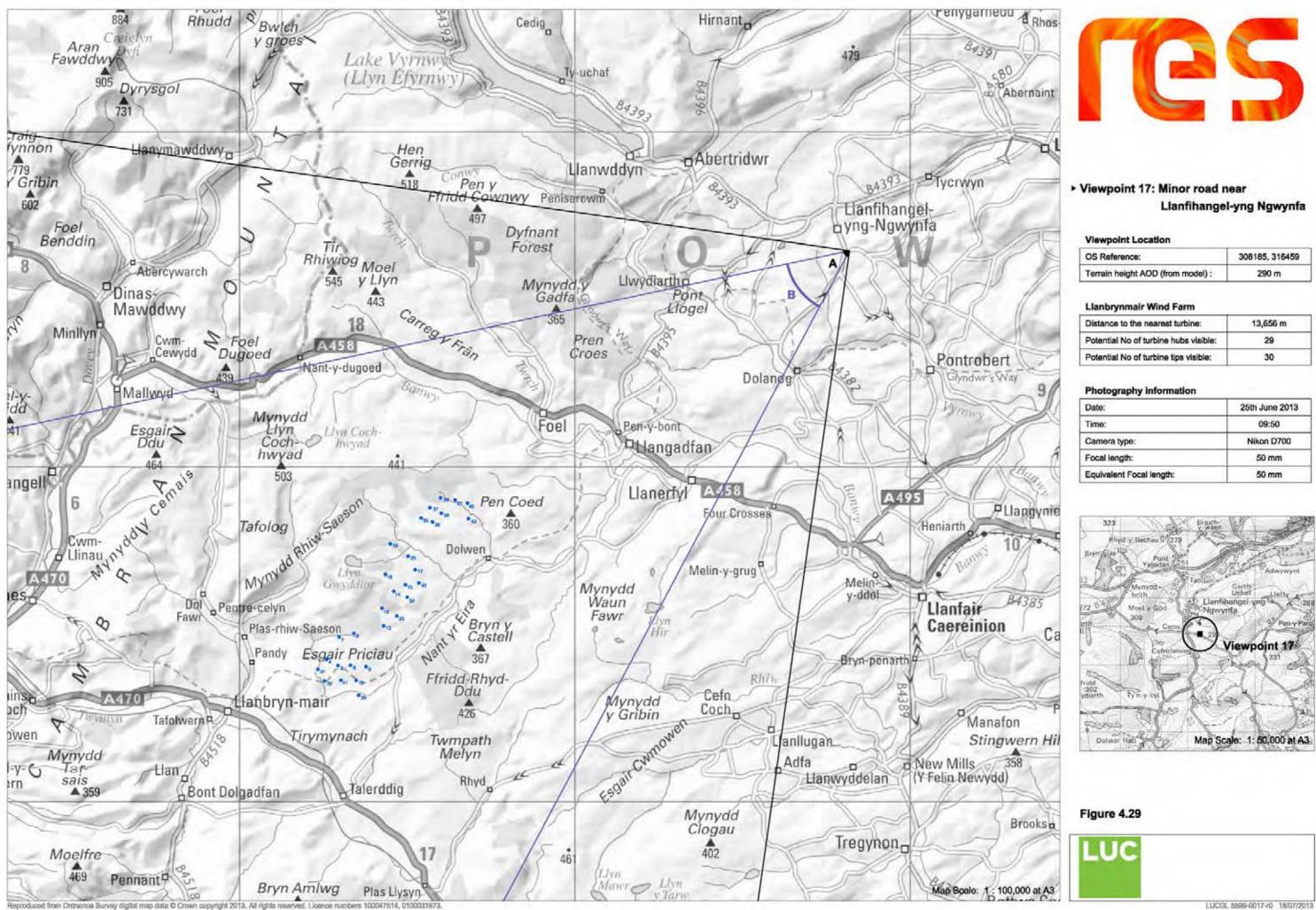




				57 B2		
Viewpoint 16 Foel Dinas in Snowdonia National Park	View B	Bearing to centre of view:	133°	Horizontal field of view:	50°	Recommended
	. The second sec		A CONTRACTOR OF			



ded viewing distance at A3:	45 cm	Figure 4.28.3
		1200 - D - D

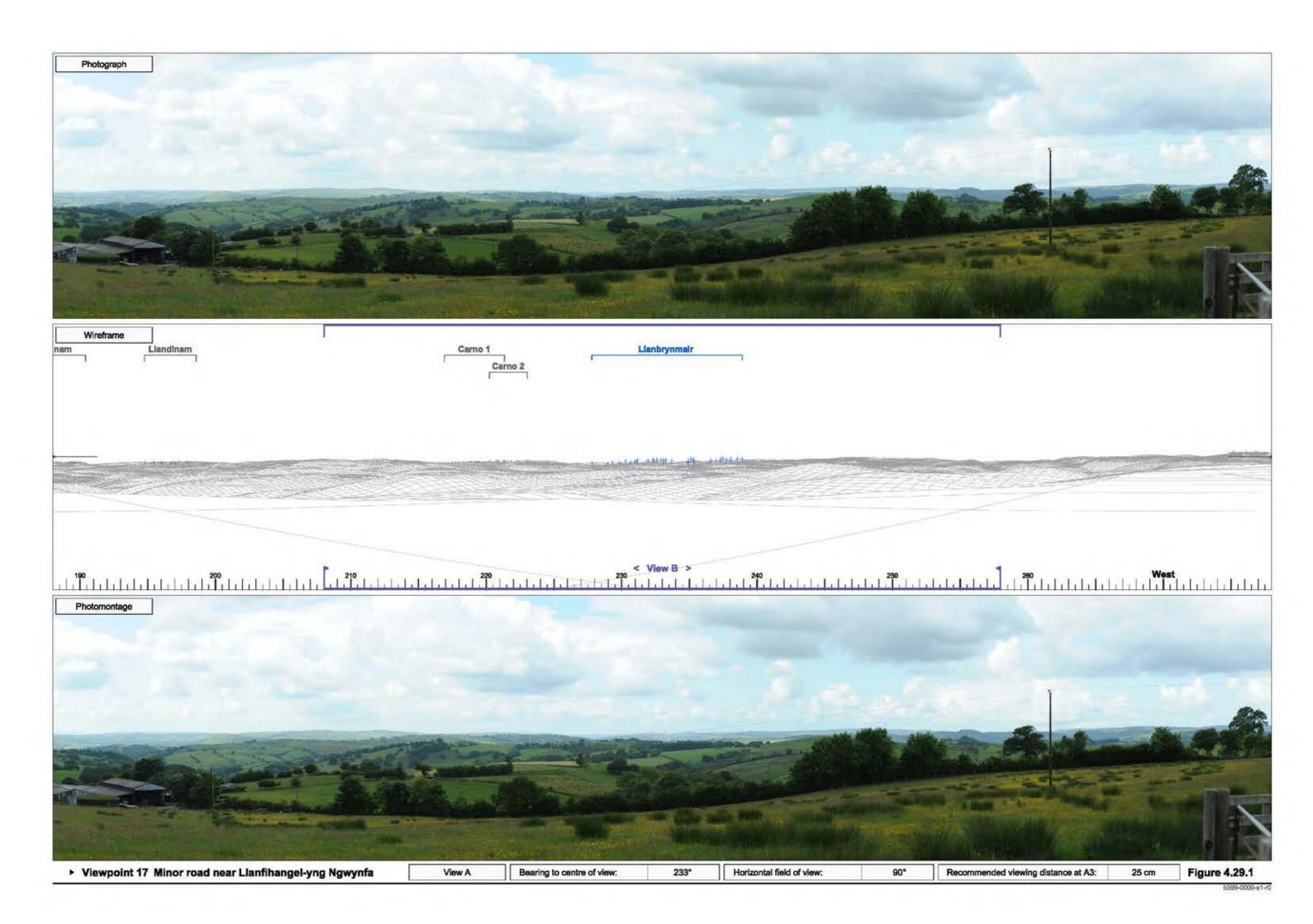


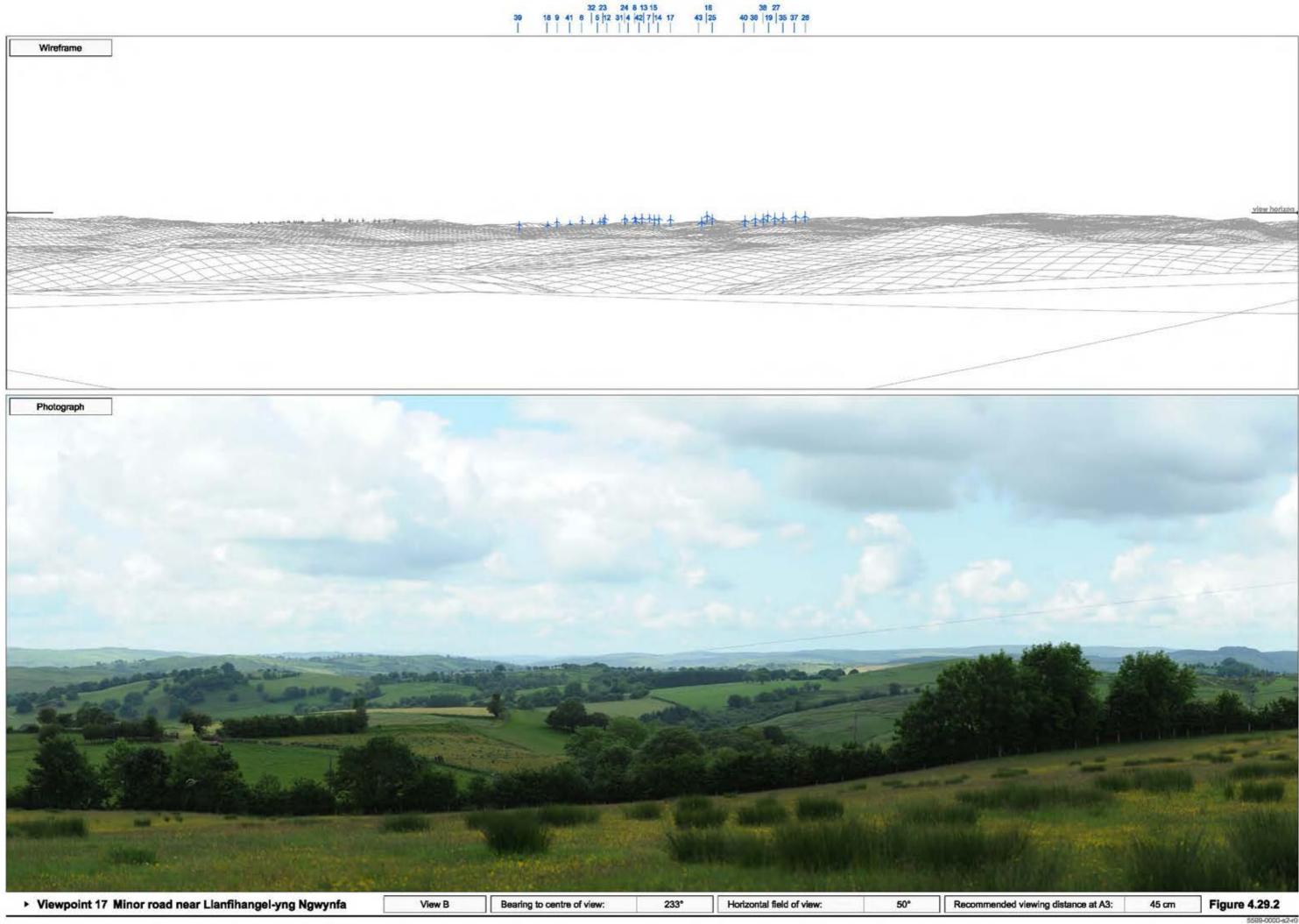
OS Reference:	308185, 316459
Terrain height AOD (from model) :	290 m

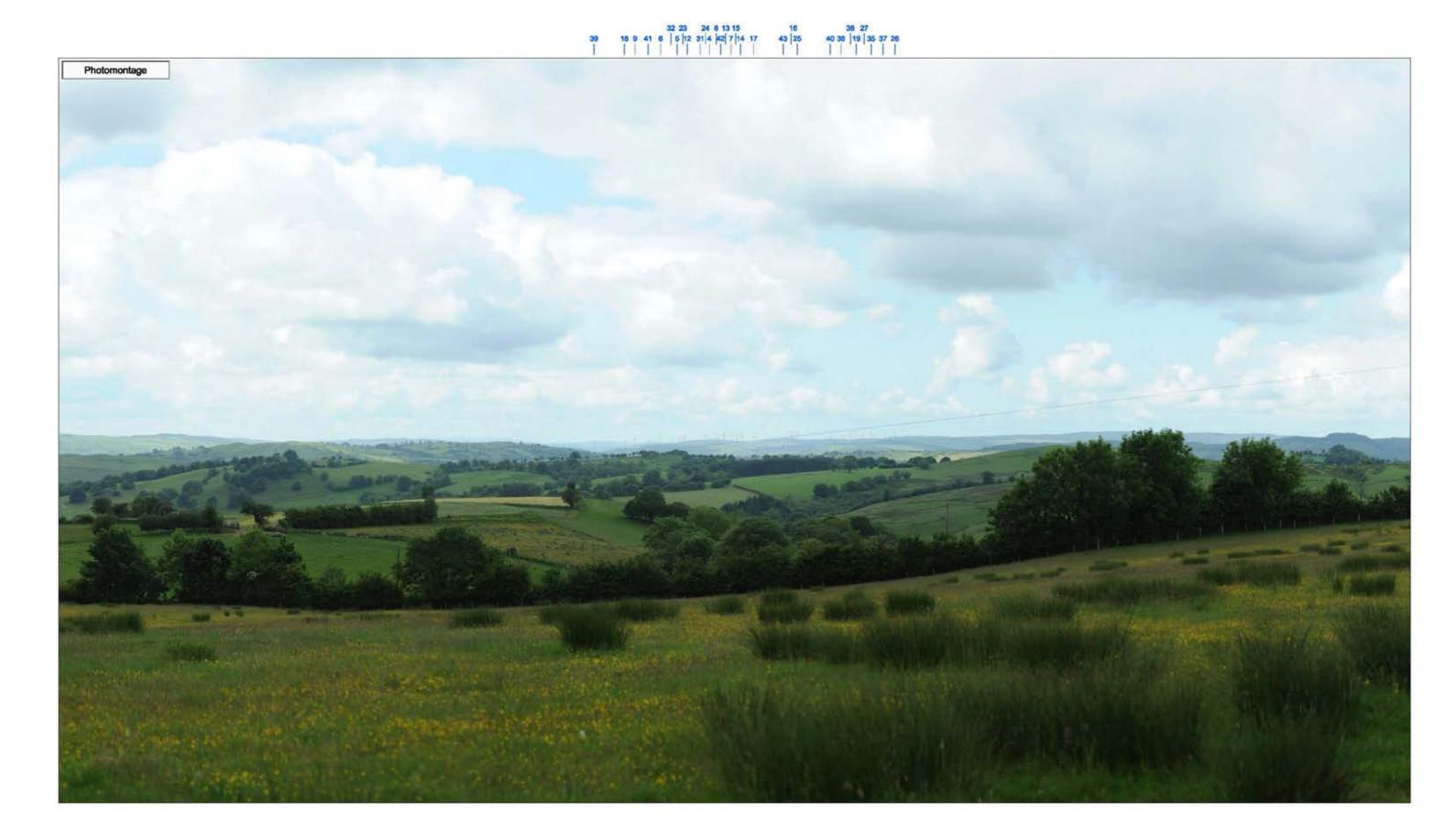
Distance to the nearest turbine:	13,656 m
Potential No of turbine hubs visible:	29
Potential No of turbine tips visible:	30

Date:	25th June 2013		
Time:	09:50		
Camera type:	Nikon D700		
Focal length:	50 mm		
Equivalent Focal length:	50 mm		

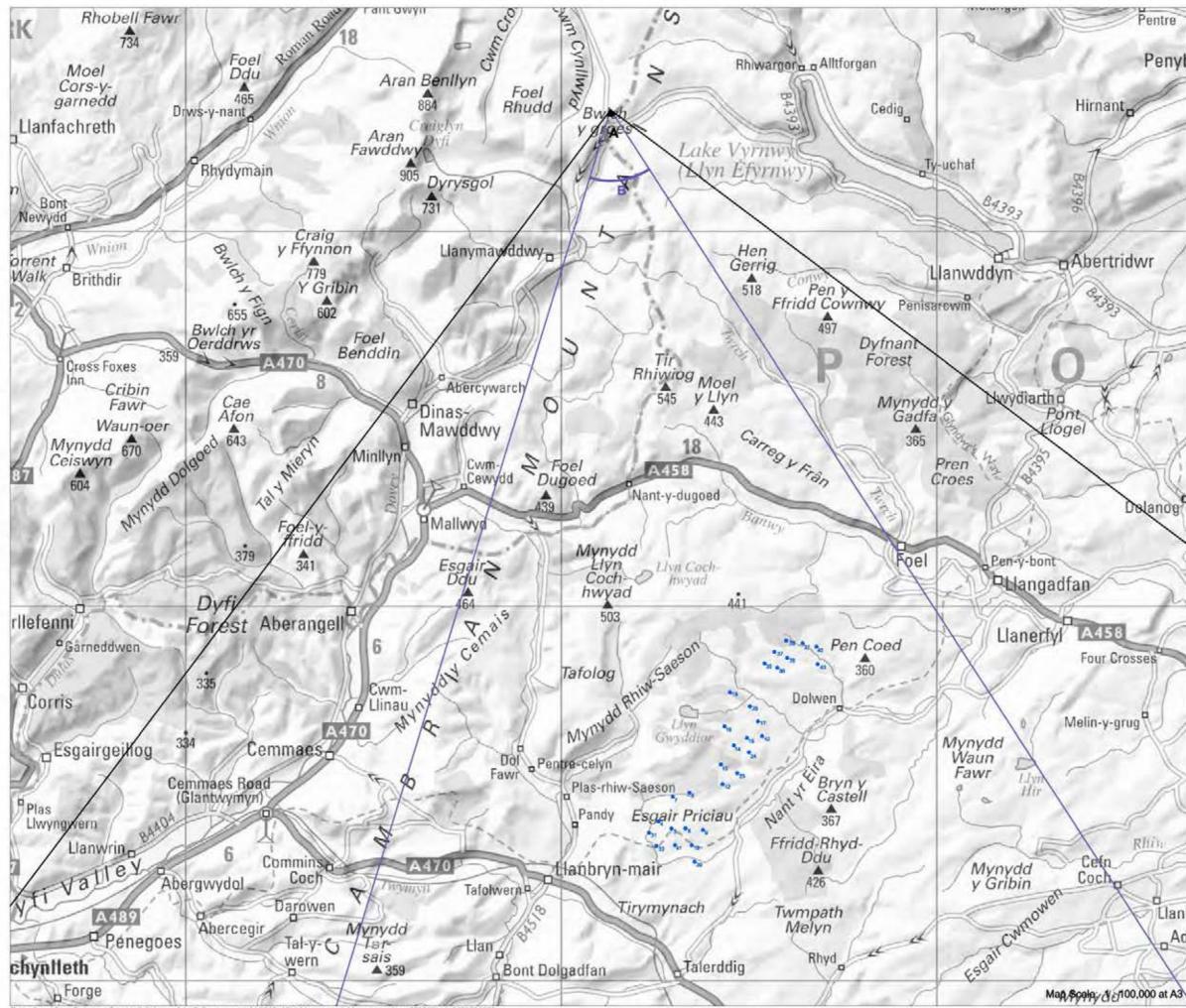
LUCGL 5599-0017-r0 18/07/2013



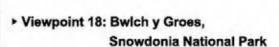




		141710	-	2012 C				1
Viewpoint 17 Minor road near Llanfihangel-yng Ngwynfa	View B	Bearing to centre of view:	233°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.29.3



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### **Viewpoint Location**

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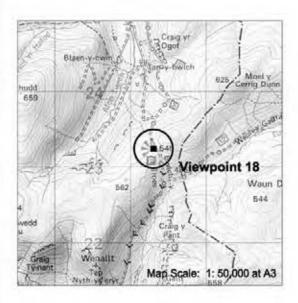
OS Reference:	291304, 323242				
Terrain height AOD (from model) :	544 m				

### Llanbrynmair Wind Farm

Distance to the nearest turbine:	14,900 m
Potential No of turbine hubs visible:	0
Potential No of turbine tips visible:	6

### Photography information

Date:	25th June 2013
Time:	20:00
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm



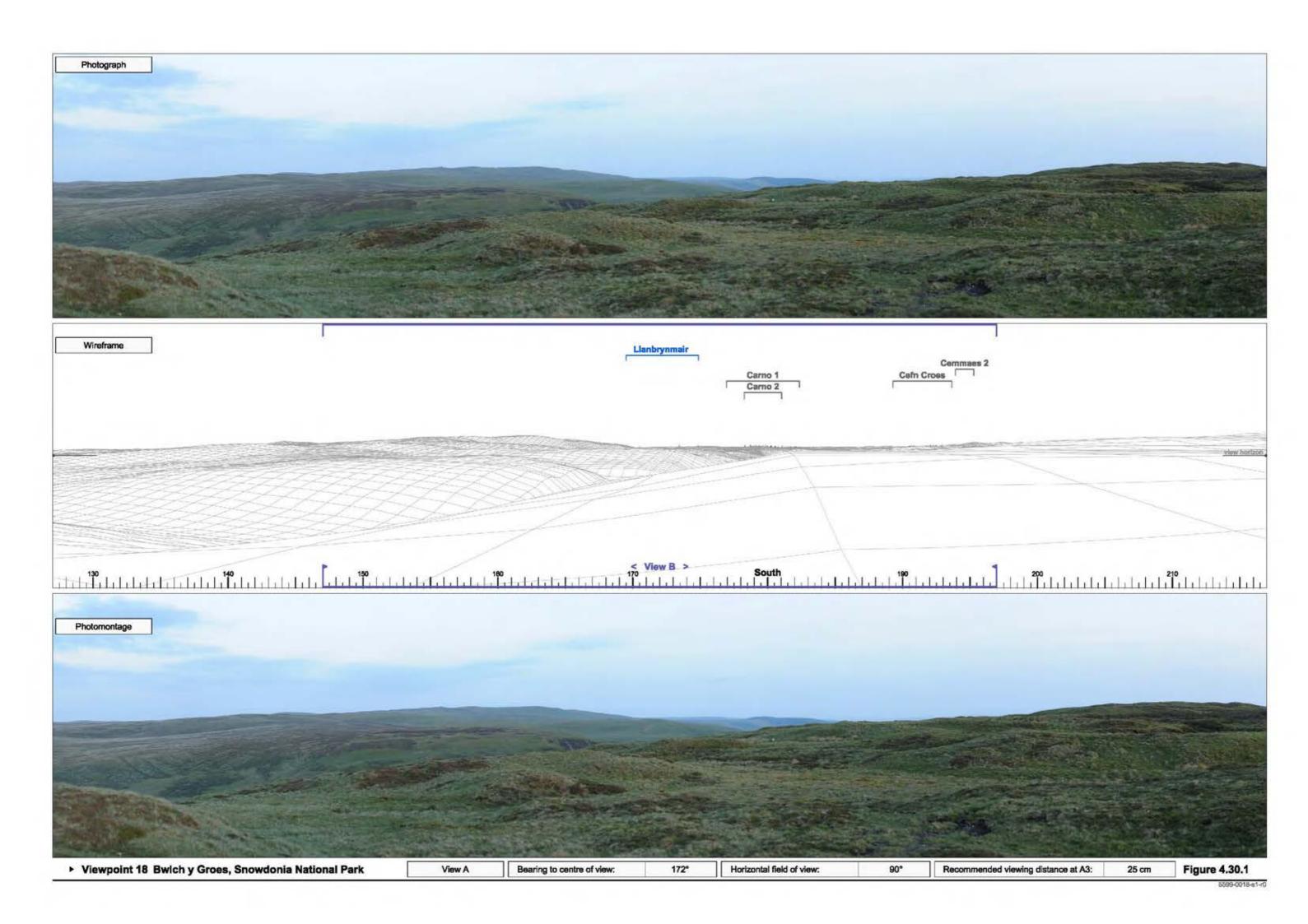
### Figure 4.30

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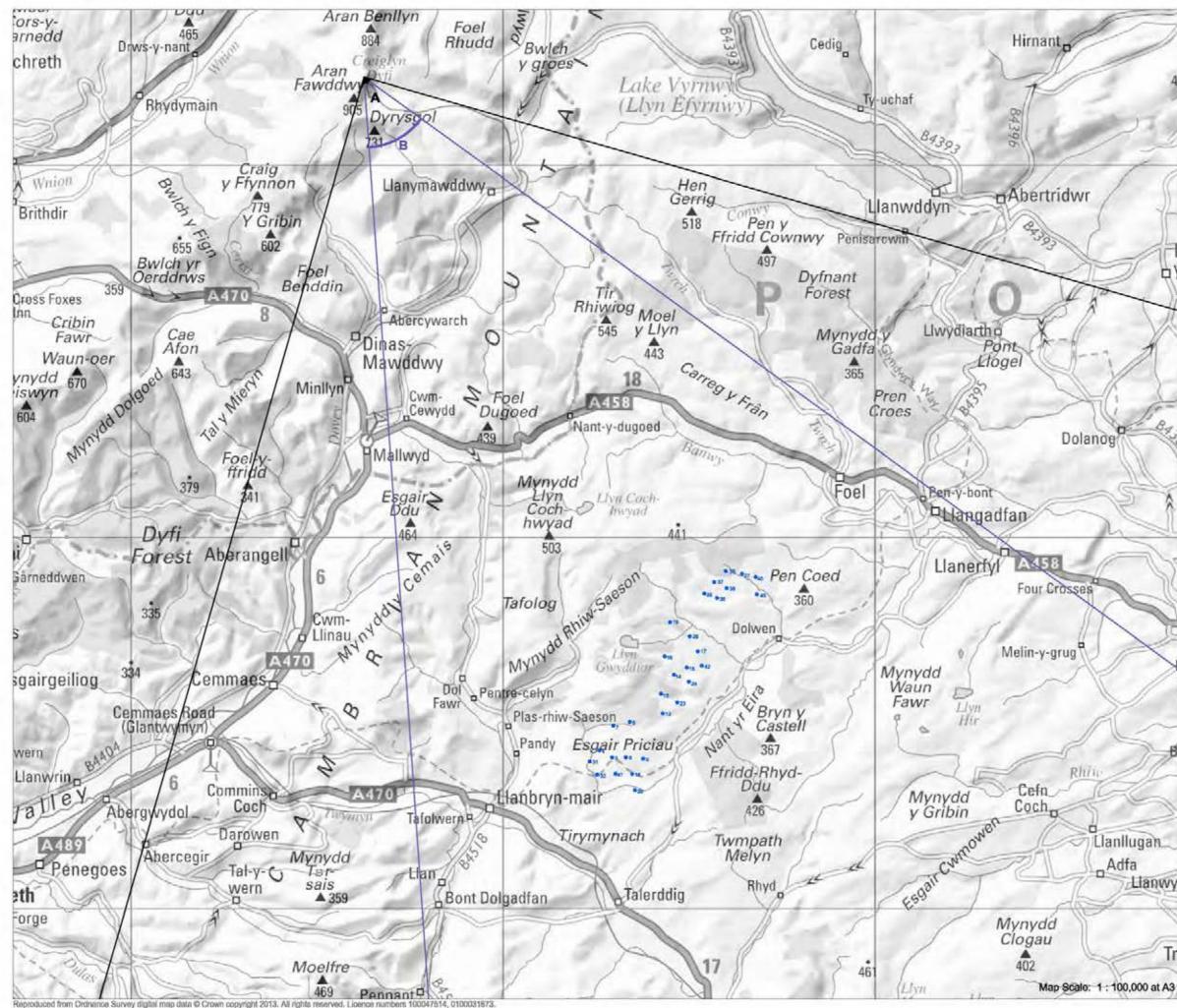


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Viewpoint 18 Bwlch y Groes, Snowdonia National Park	View B	Bearing to centre of view:	172°	Horizontal field of view:	50°	Recommer
in the second se						





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Viewpoint 18 Bwich y Groes, Snowdonia National Park	View B	Bearing to centre of view:	172°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.30.3
								5589-0018-43-0









# Viewpoint 19: Aran Fawddwy in **Snowdonia National Park**

### **Viewpoint Location**

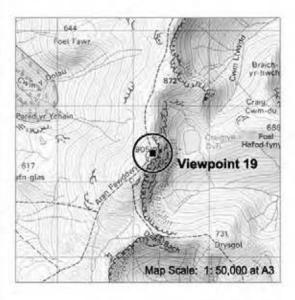
OS Reference:	286258, 322374
Terrain height AOD (from model) :	897 m

### Llanbrynmair Wind Farm

Distance to the nearest turbine:	16,458 m
Potential No of turbine hubs visible:	30
Potential No of turbine tips visible:	30

### Photography information

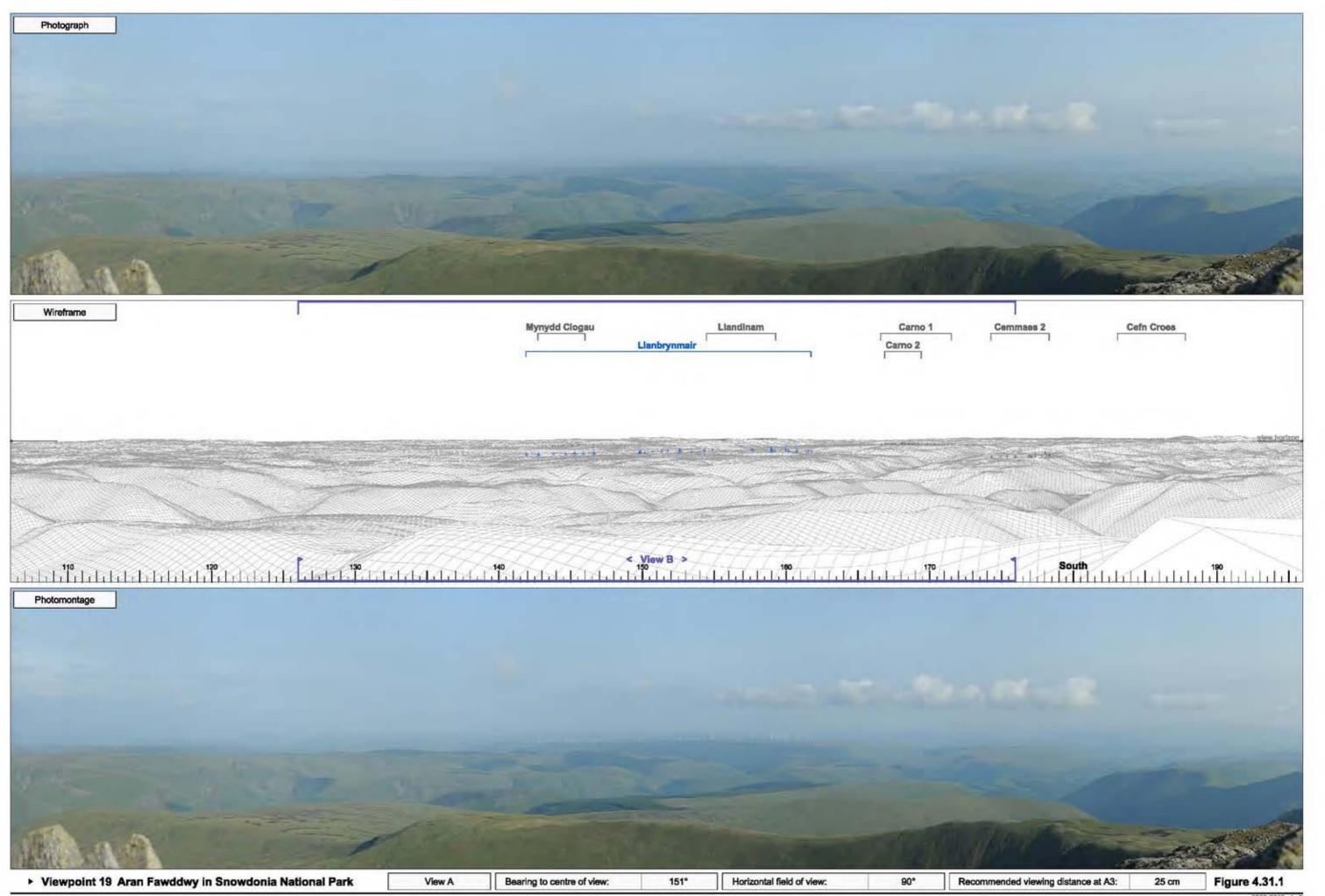
Date:	25th June 2013
Time:	18:00
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm



# Figure 4.31

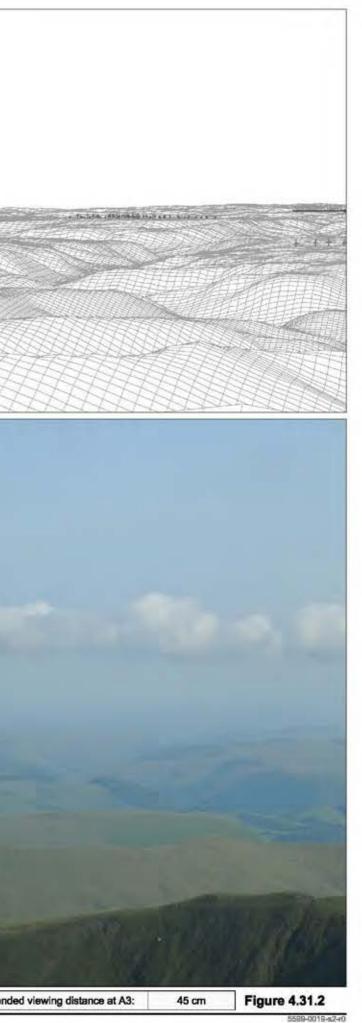
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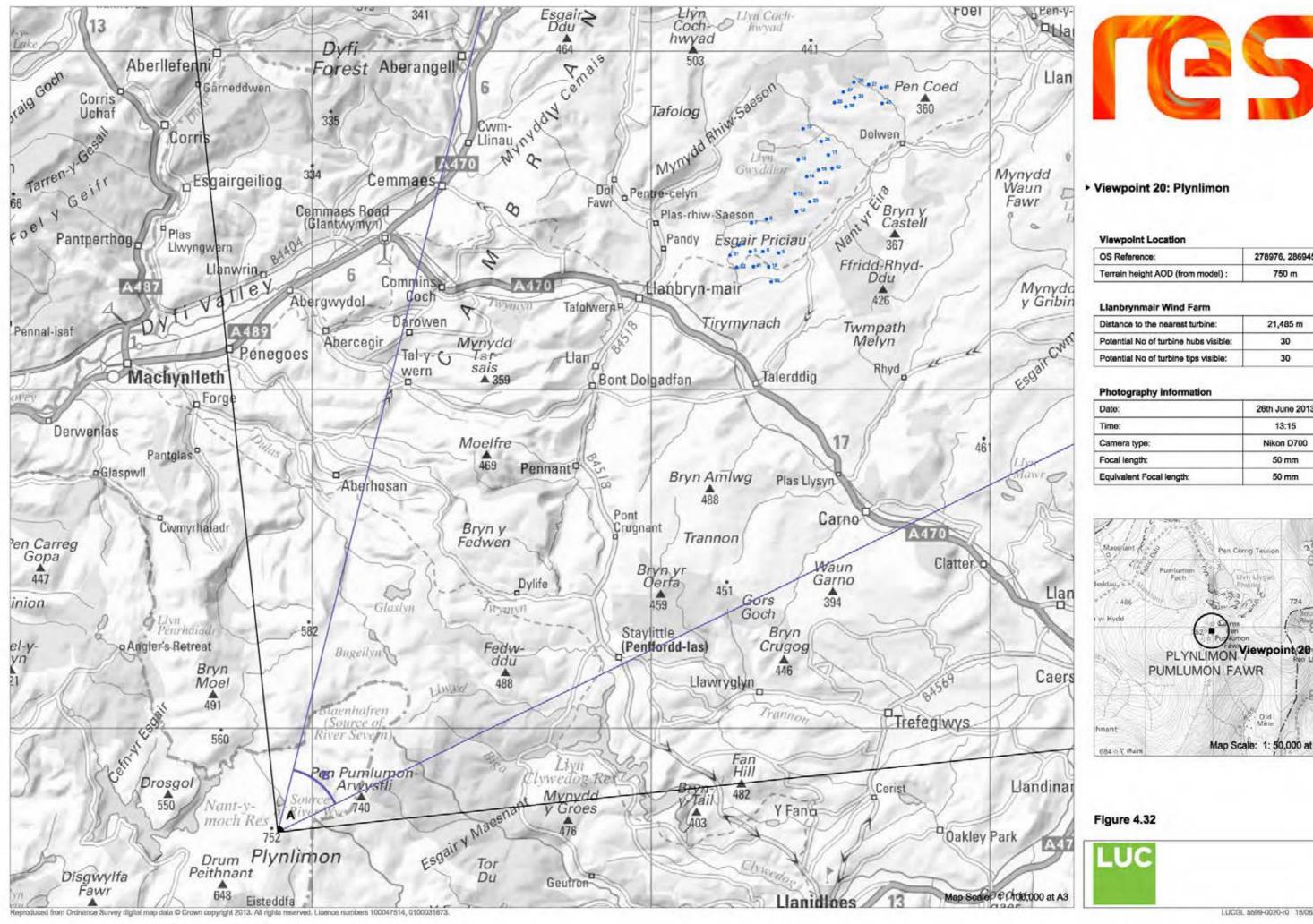
Viewpoint 19 Aran Fawddwy in Snowdonia National Park	View A	Bearing to centre of view	1519	Horizontal field of view:	00*	Recommen
<ul> <li>Viewpoint 19 Aran Fawdowy in Snowdonia Nadonal Fark</li> </ul>	VIEW A	Bearing to centre of view:	101	Horizonial held of view.	90	Recommen

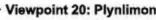
Wireframe	27 40  43 28 38 37 38 35 	17 14 25 42 19 15 24 16 23 13 12 	6 7 8 9  16 39 541 4 3231 
	- P-1-1-1-1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	** * * * * * * *	
Photograph			
<ul> <li>Viewpoint 19 Aran Fawddwy in Snowdonia National Park</li> </ul>	View B Bearing to centre of	f view: 151* Horizontal field	of view: 50° Recommen





				2018C				
Viewpoint 19 Aran Fawddwy in Snowdonia National Park	View B	Bearing to centre of view:	151°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.31.3
								5589-0019-43-40





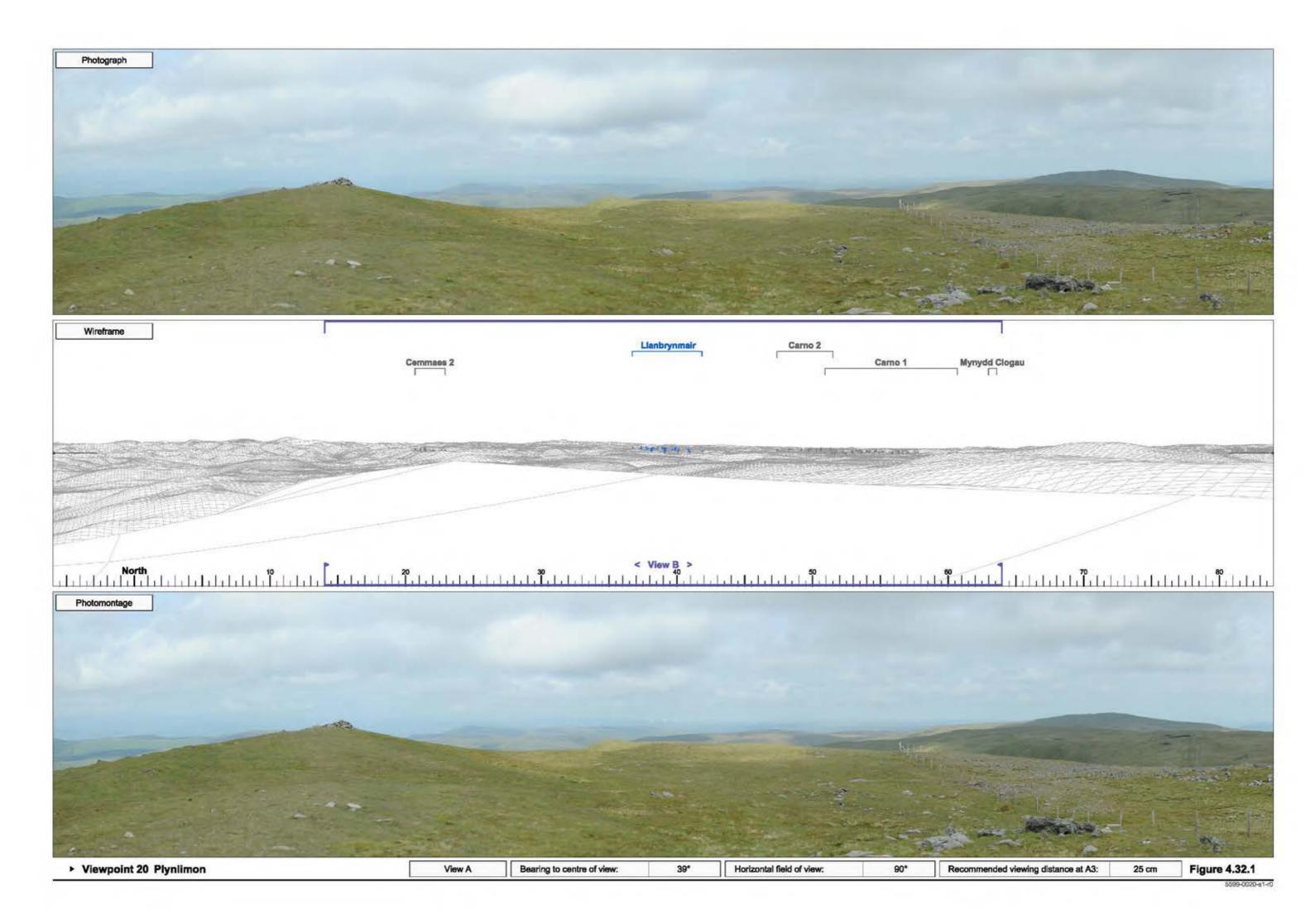
OS Reference:	278976, 286945
Terrain height AOD (from model) :	750 m

Distance to the nearest turbine:	21,485 m
Potential No of turbine hubs visible:	30
Potential No of turbine tips visible:	30

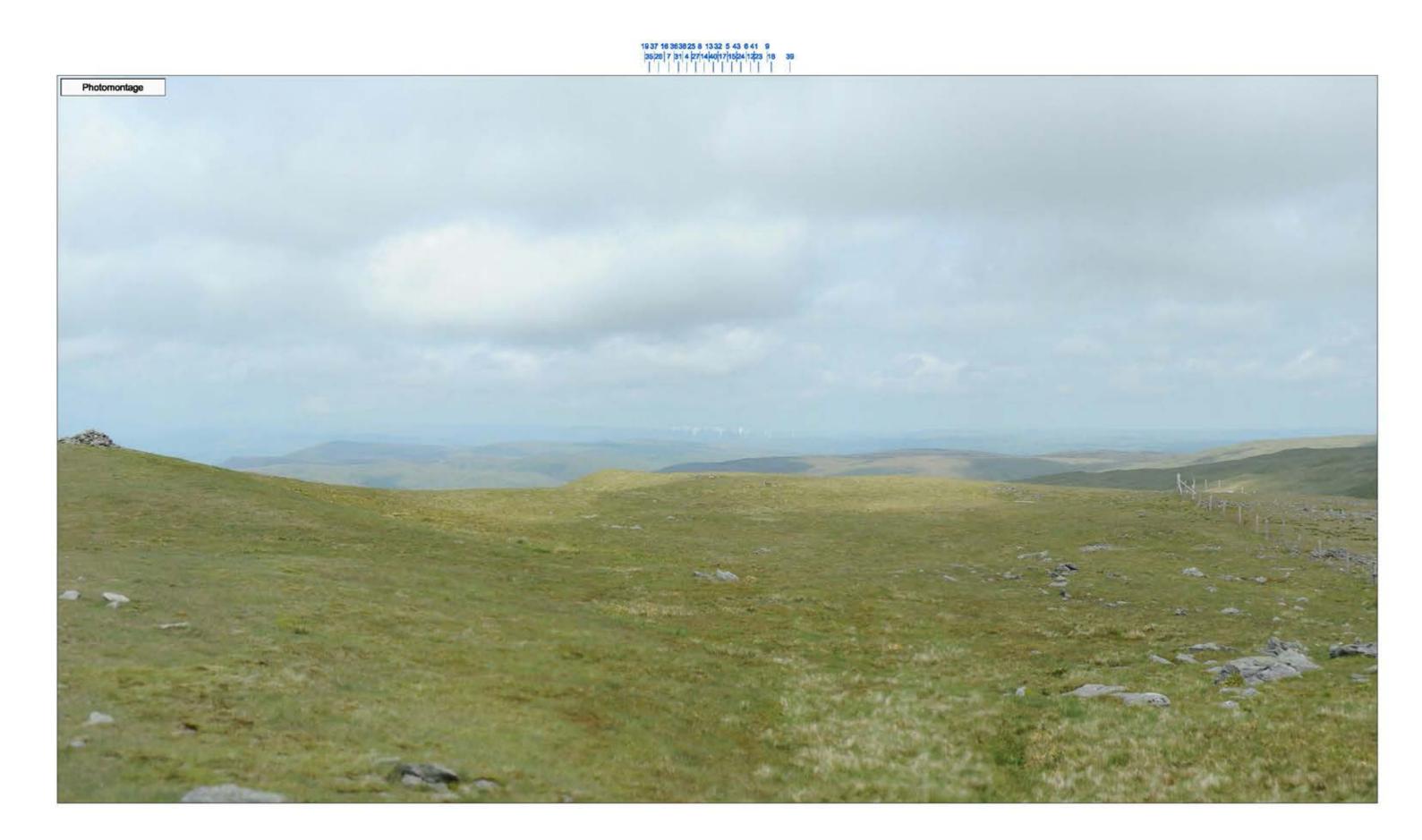
Date:	26th June 2013		
Time:	13:15		
Camera type:	Nikon D700		
Focal length:	50 mm		
Equivalent Focal length:	50 mm		



LUCGL 5599-0020-r0 18/06/2013

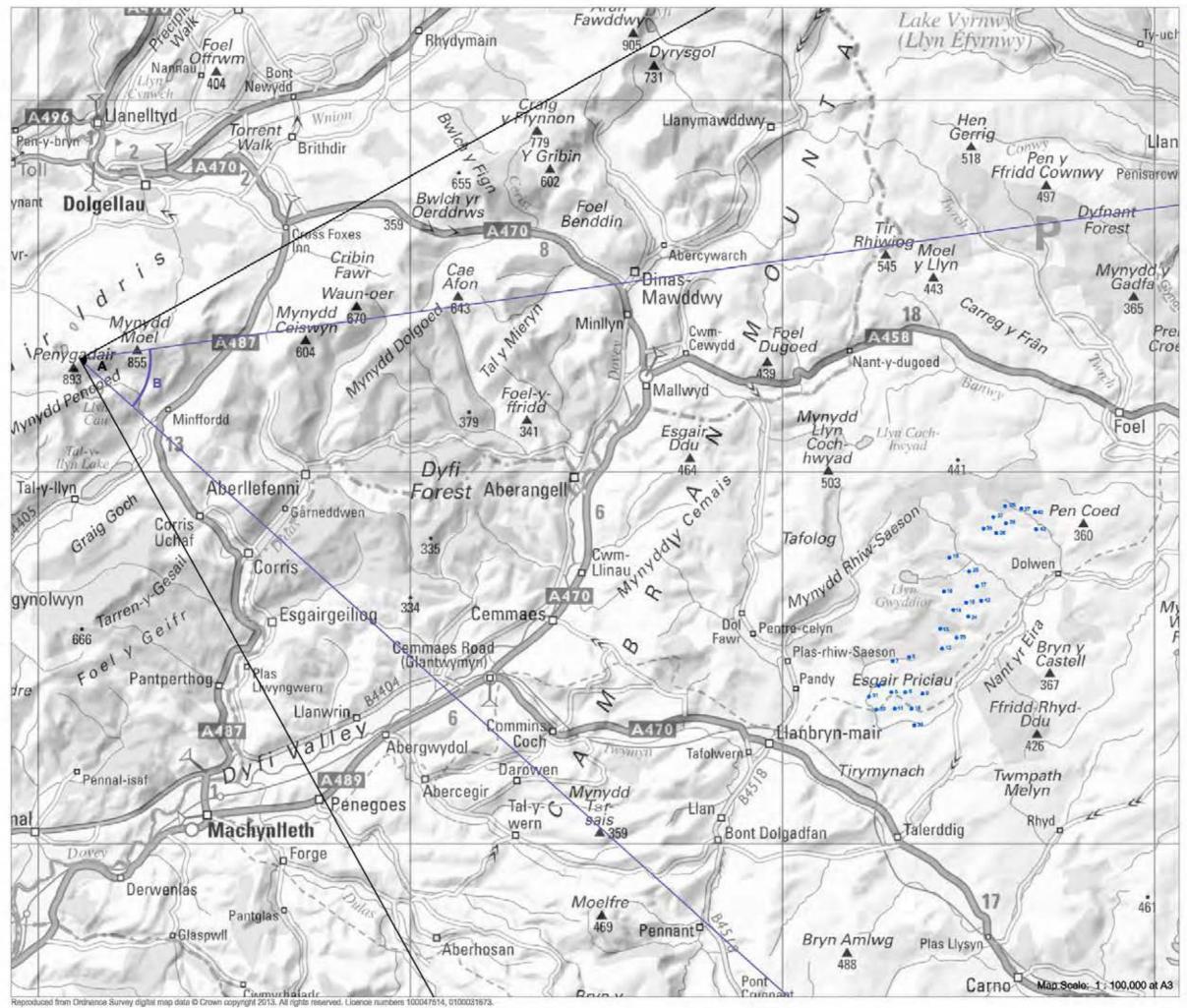






				57 ST		
Viewpoint 20 Plynlimon	View B	Bearing to centre of view:	39°	Horizontal field of view:	50°	Recommended
<ul> <li>Intel Concentration Concentration Concentration</li> </ul>	. here and a second					

ded viewing distance at A3:	45 cm	Figure 4.32.3
		5509-0020-43-0





# Viewpoint 21: Cadair Idris, Snowdonia National Park

# Viewpoint Location

the opening and a second s	2
OS Reference:	271115, 313041
Terrain height AOD (from model) :	884 m

### Llanbrynmair Wind Farm

Distance to the nearest turbine:	23,065 m
Potential No of turbine hubs visible:	27
Potential No of turbine tips visible:	30

# Photography information

Date:	17th April 2008
Time:	16:10
Camera type:	Canon EOS 5D
Focal length:	50 mm
Equivalent Focal length:	50 mm

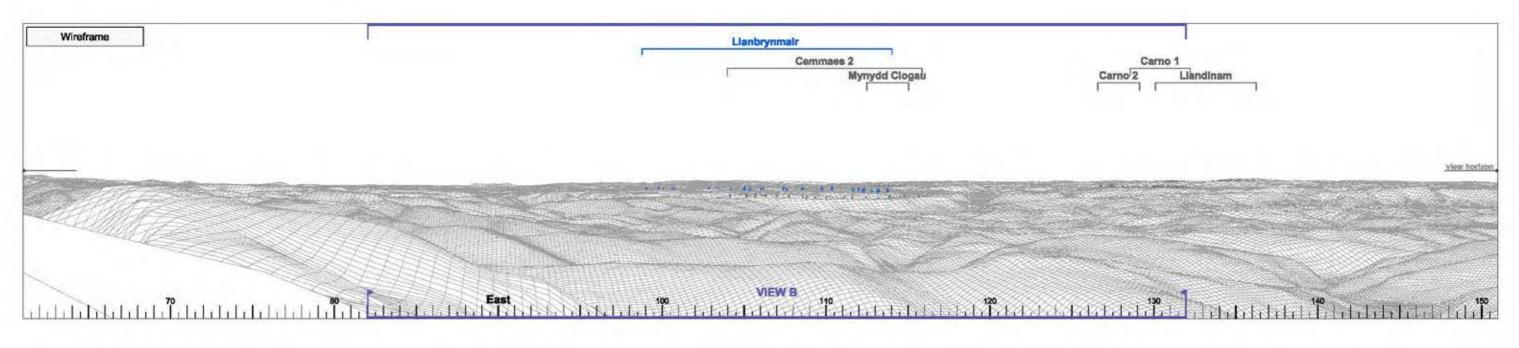


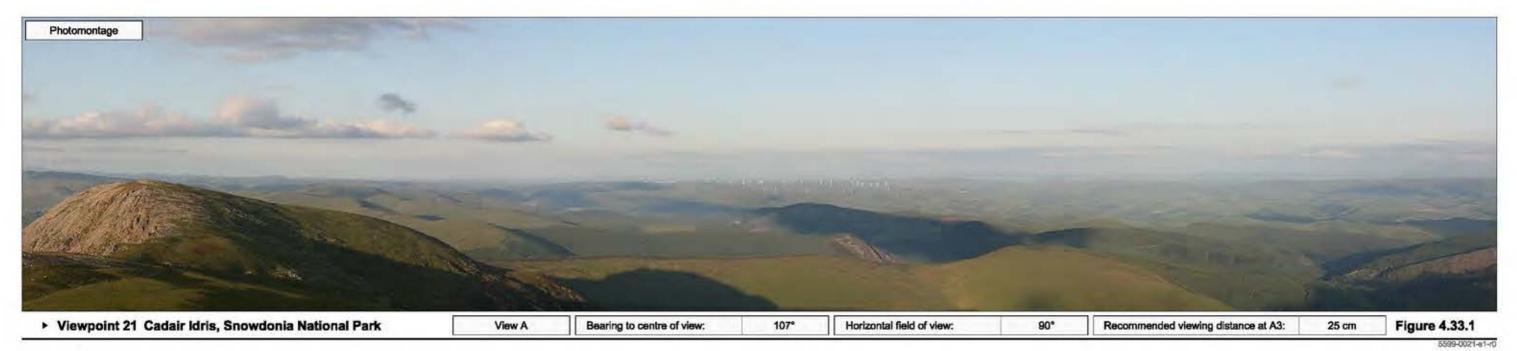
# Figure 4.33

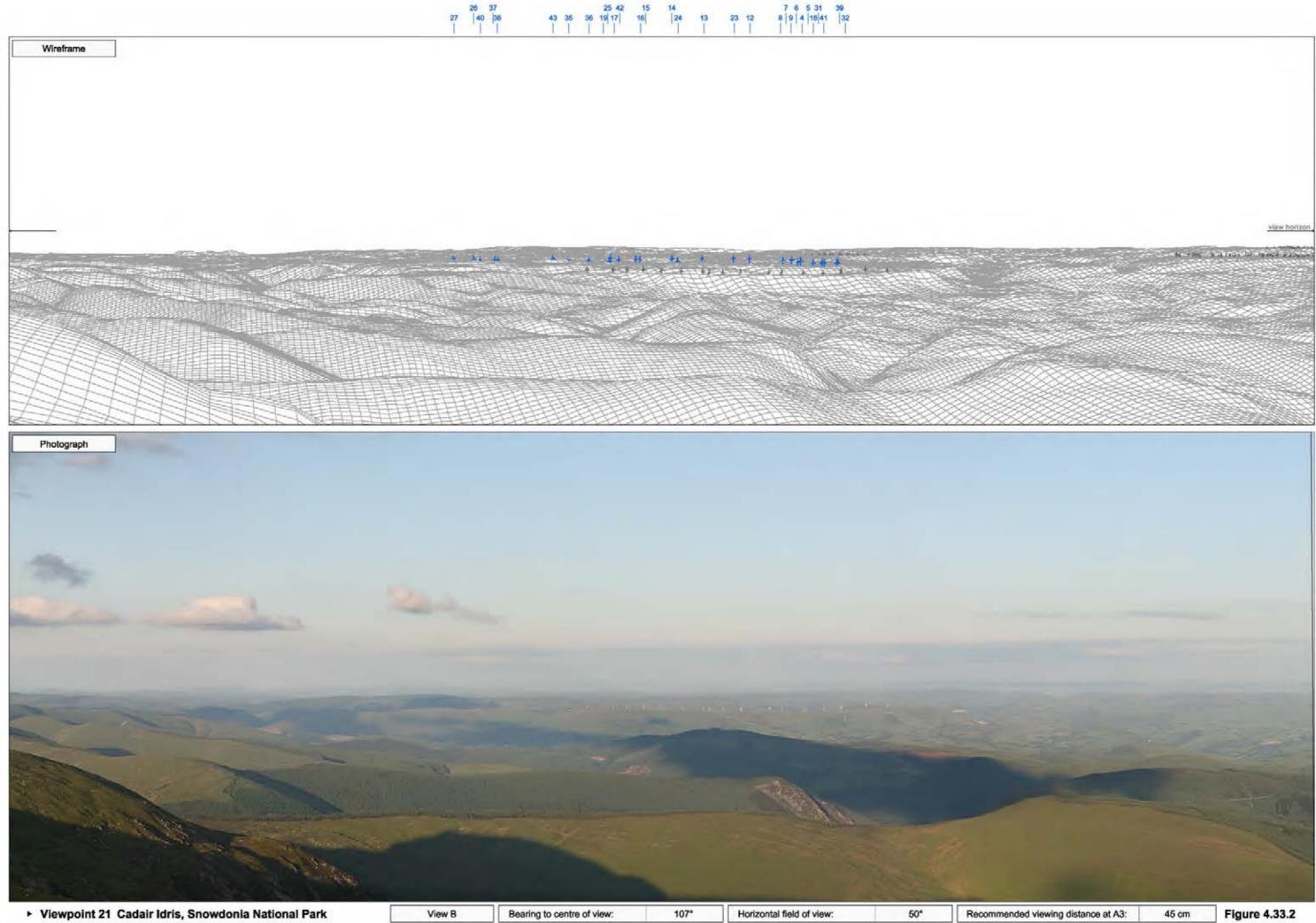
LUC

LUCGL 5599-0021-0 19/07/2013

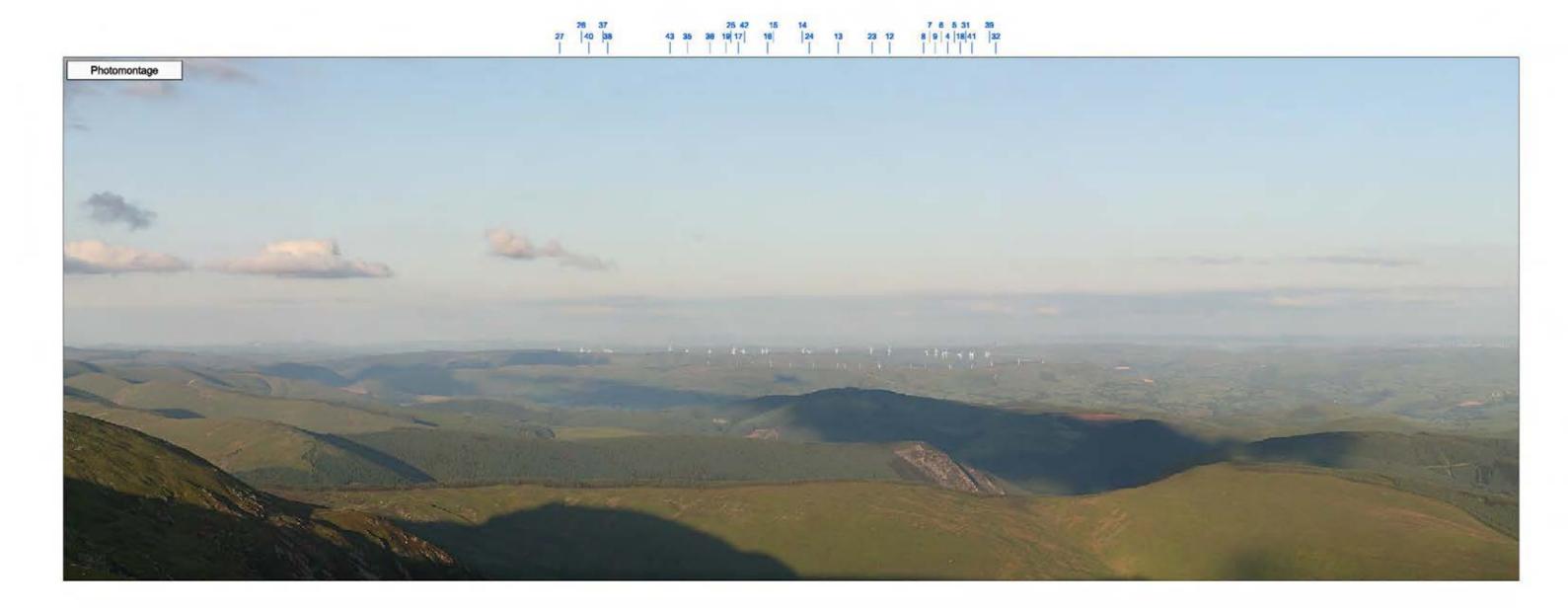




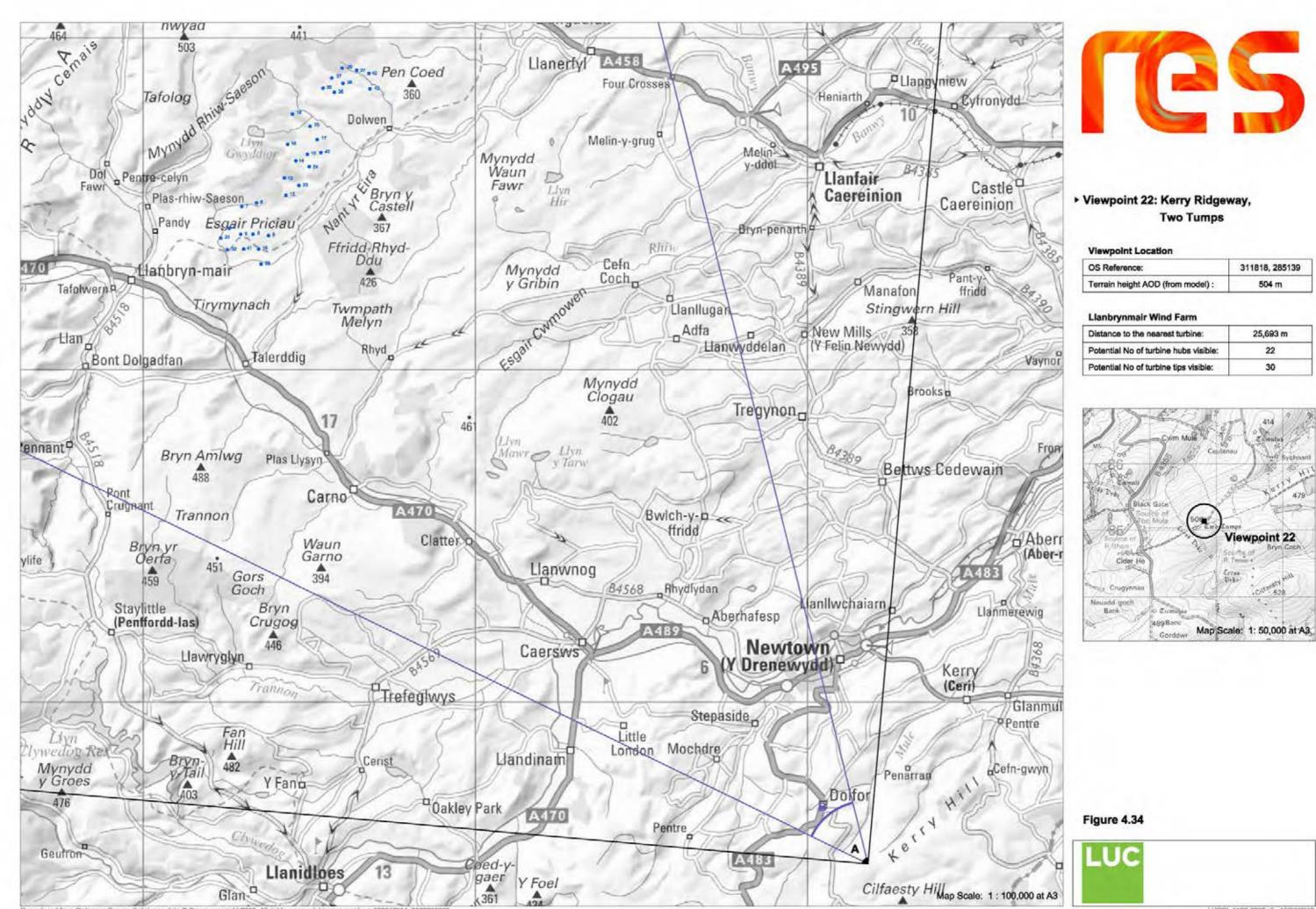




5599-0021-s2-r0



Viewpoint 21 Cadair Idris, Snowdonia National Park	View B	Bearing to centre of view:	107°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.33.3
								5599-0021-83-0



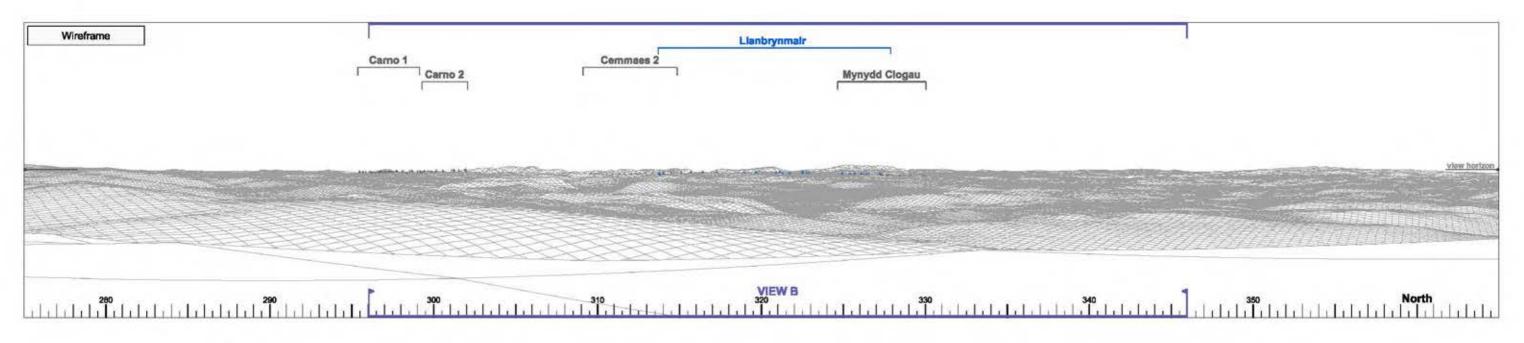
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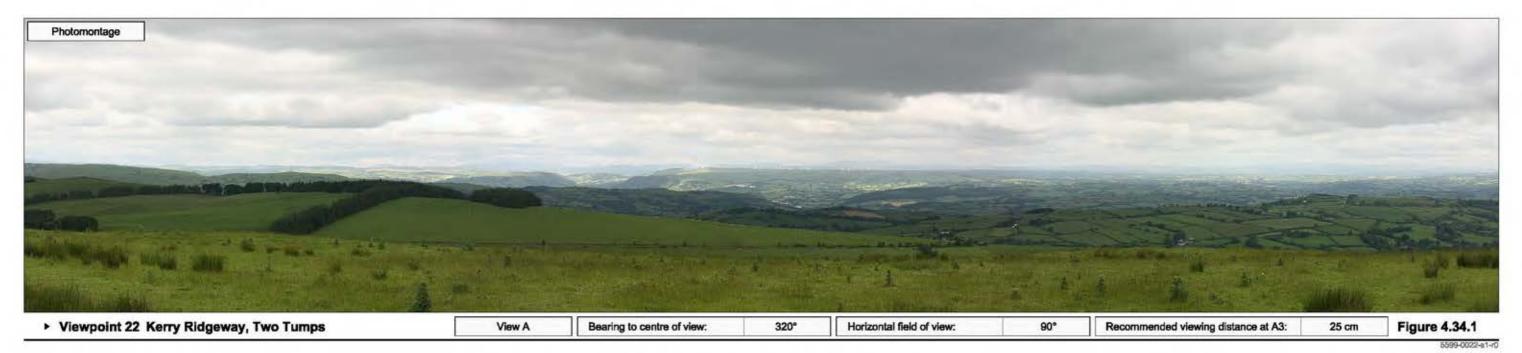
OS Reference:	311818, 285139
Terrain height AOD (from model) :	504 m

Distance to the nearest turbine:	25,693 m
Potential No of turbine hubs visible:	22
Potential No of turbine tips visible:	30

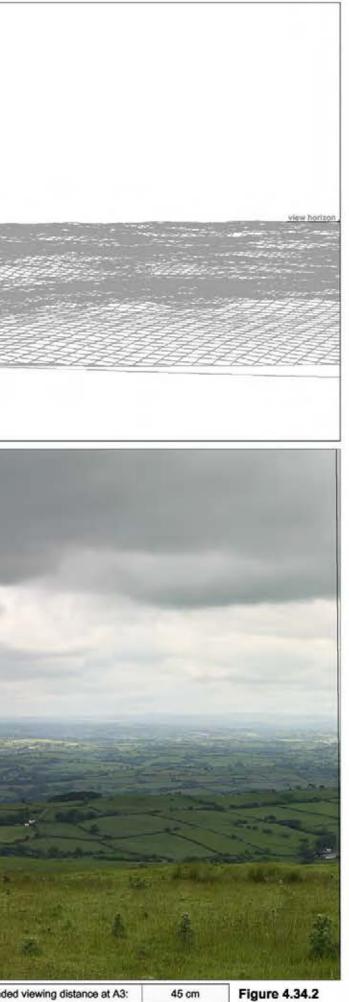
LUCGL 5599-0022-r0 19/07/2013







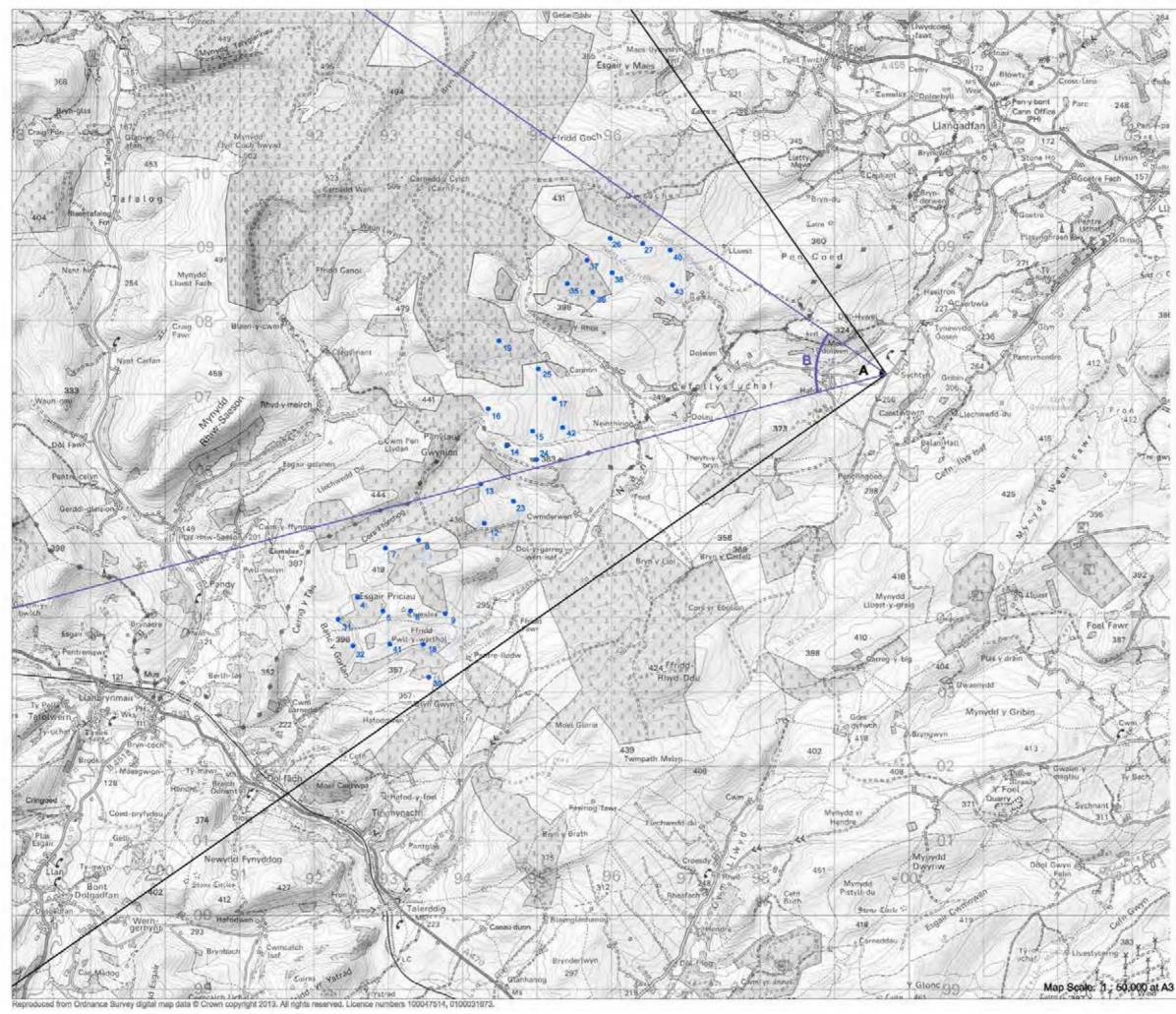
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	and the second second			A	
Viewpoint 22 Kerry Ridgeway, Two Tumps	View B	Bearing to centre of view:	321°	Horizontal field of view:	50° Recomme



5599-0022-s2-r0



Viewpoint 22 Kerry Ridgeway, Two Tumps	View B	Bearing to centre of view:	321°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.34.3
				Terrest in the second sec				5599-0022-#3-r0







# Viewpoint 23: Minor Rd within Nant yr Eira

### **Viewpoint Location**

OS Reference:	299693, 307271
Terrain height AOD (from model) :	241 m

### Llanbrynmair Wind Farm

Distance to the nearest turbine:	3,114 m
Potential No of turbine hubs visible:	9
Potential No of turbine tips visible:	12

### **Photography Information**

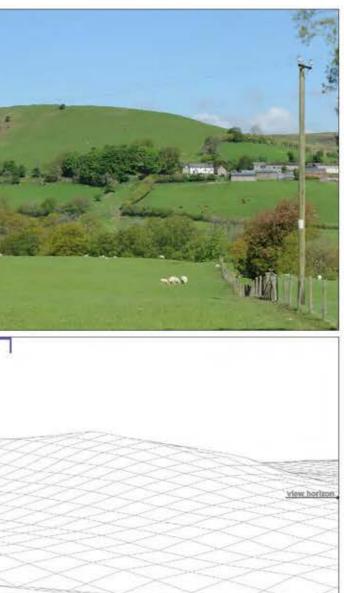
Date:	31st May 2013
Time:	09:15
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm

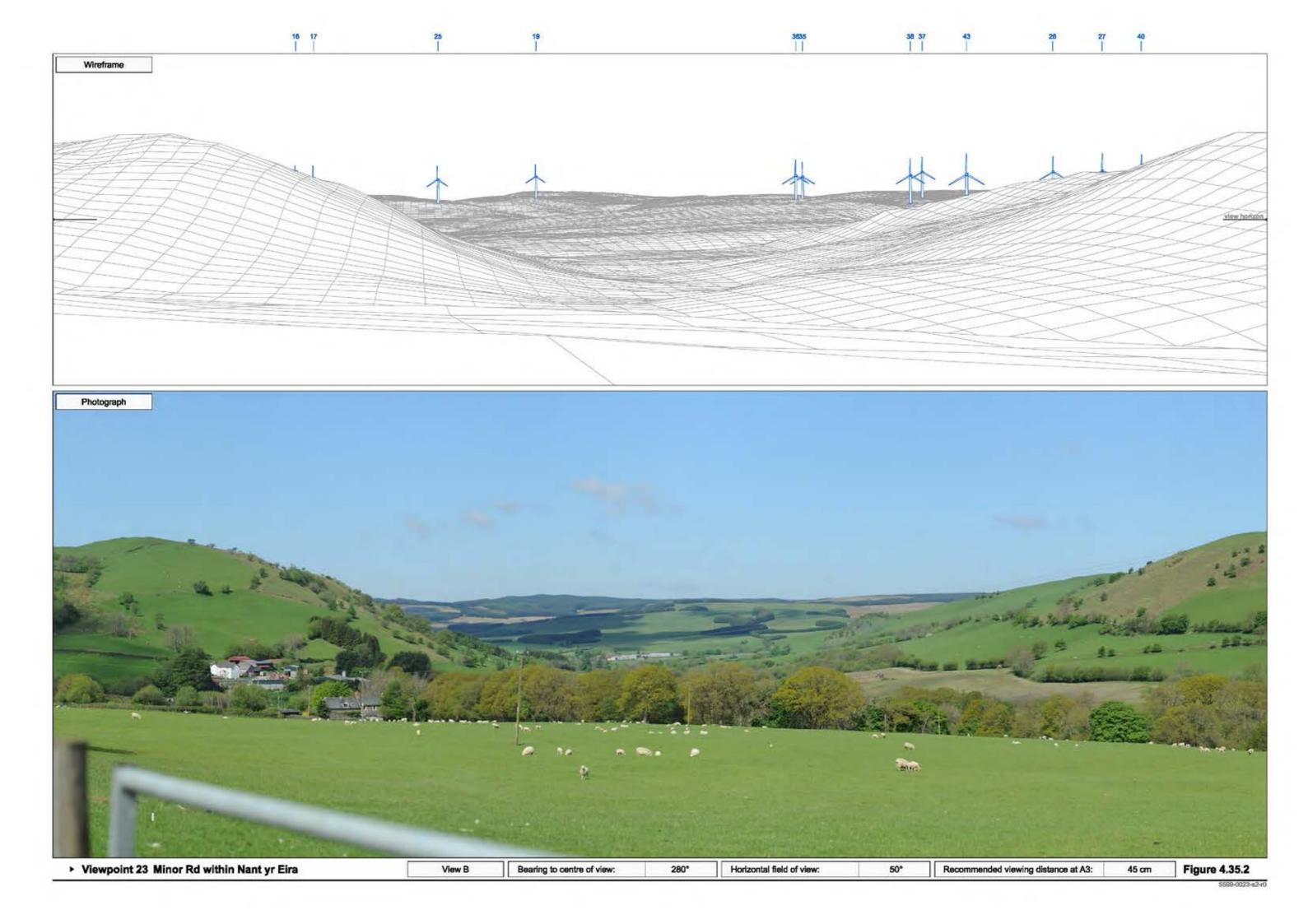
# Figure 4.35





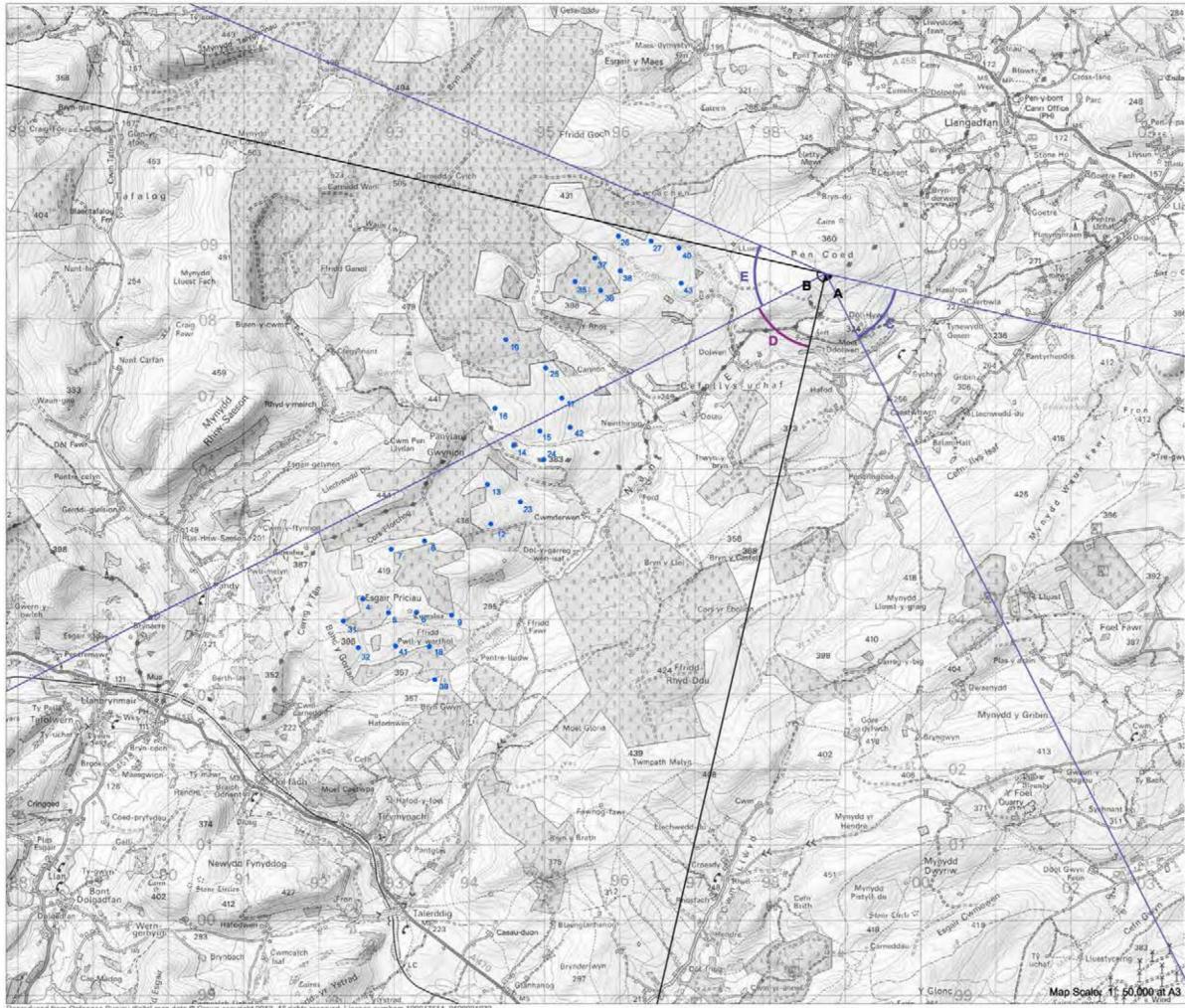








Viewpoint 23 Minor Rd within Nant yr Eira	View B	Bearing to centre of view:	280°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.35.3
	. The second sec			1				5589-0023-s3-r0



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# Viewpoint 24: Glyndwr's Way crossing Pen Coed

# Viewpoint Location

OS Reference:	298741, 308597		
Terrain height AOD (from model) :	332 m		

### Llanbrynmair Wind Farm

Distance to the nearest turbine:	1,927 m
Potential No of turbine hubs visible:	26
Potential No of turbine tips visible:	30

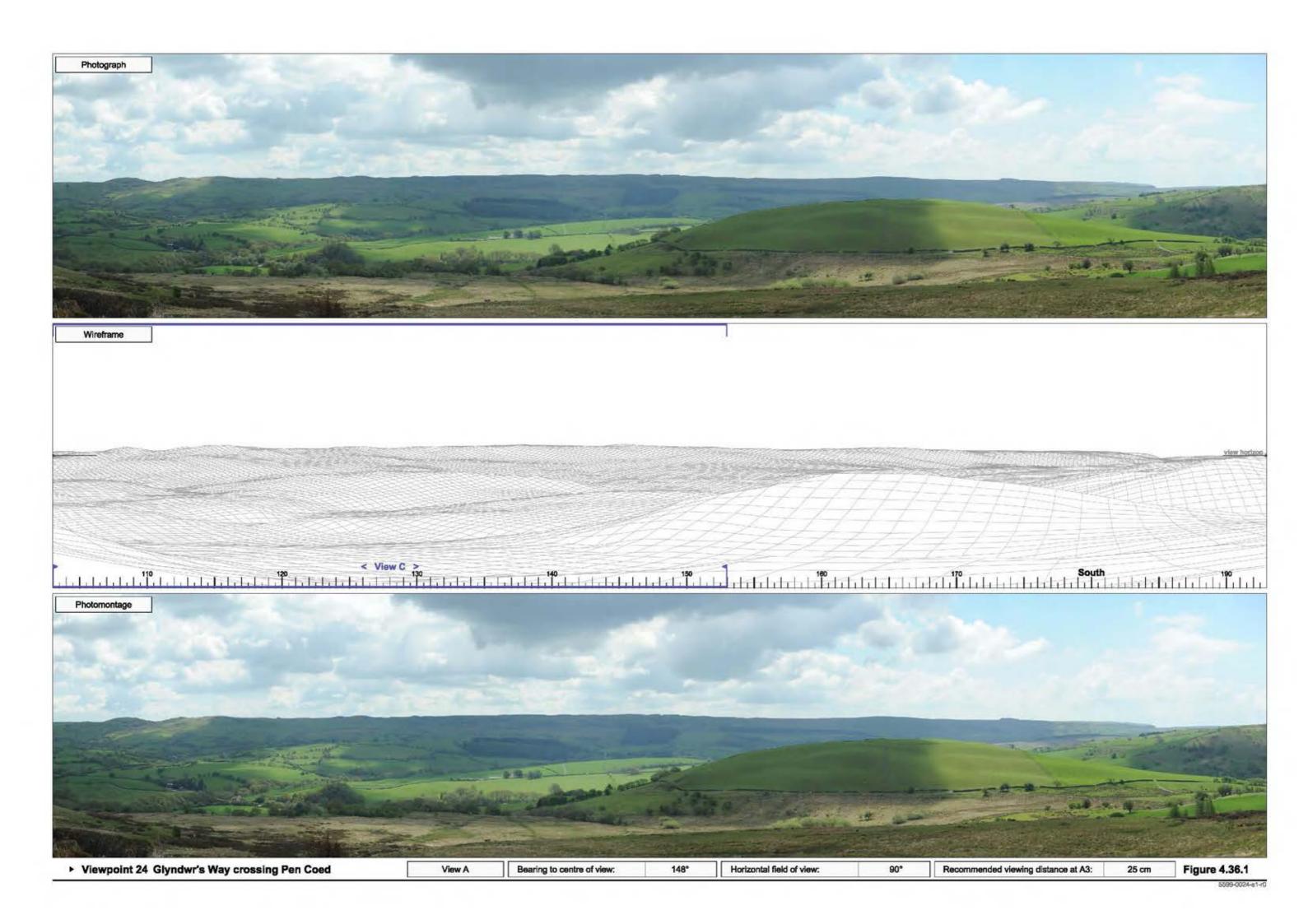
# Photography information

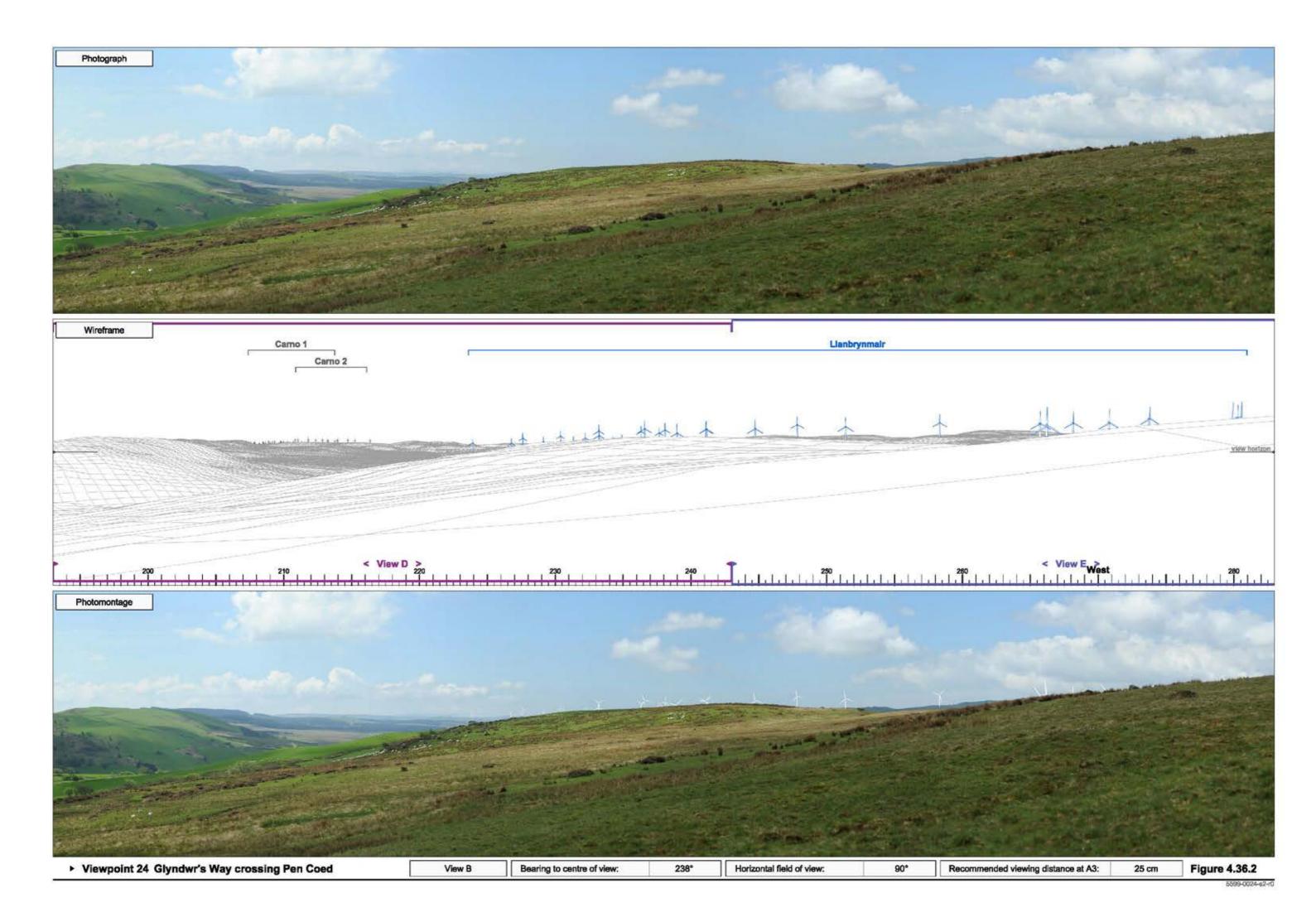
Date:	31st May 2013
Time:	10:55
Camera type:	Nikon D700
Focal length:	50 mm
Equivalent Focal length:	50 mm

# Figure 4.36



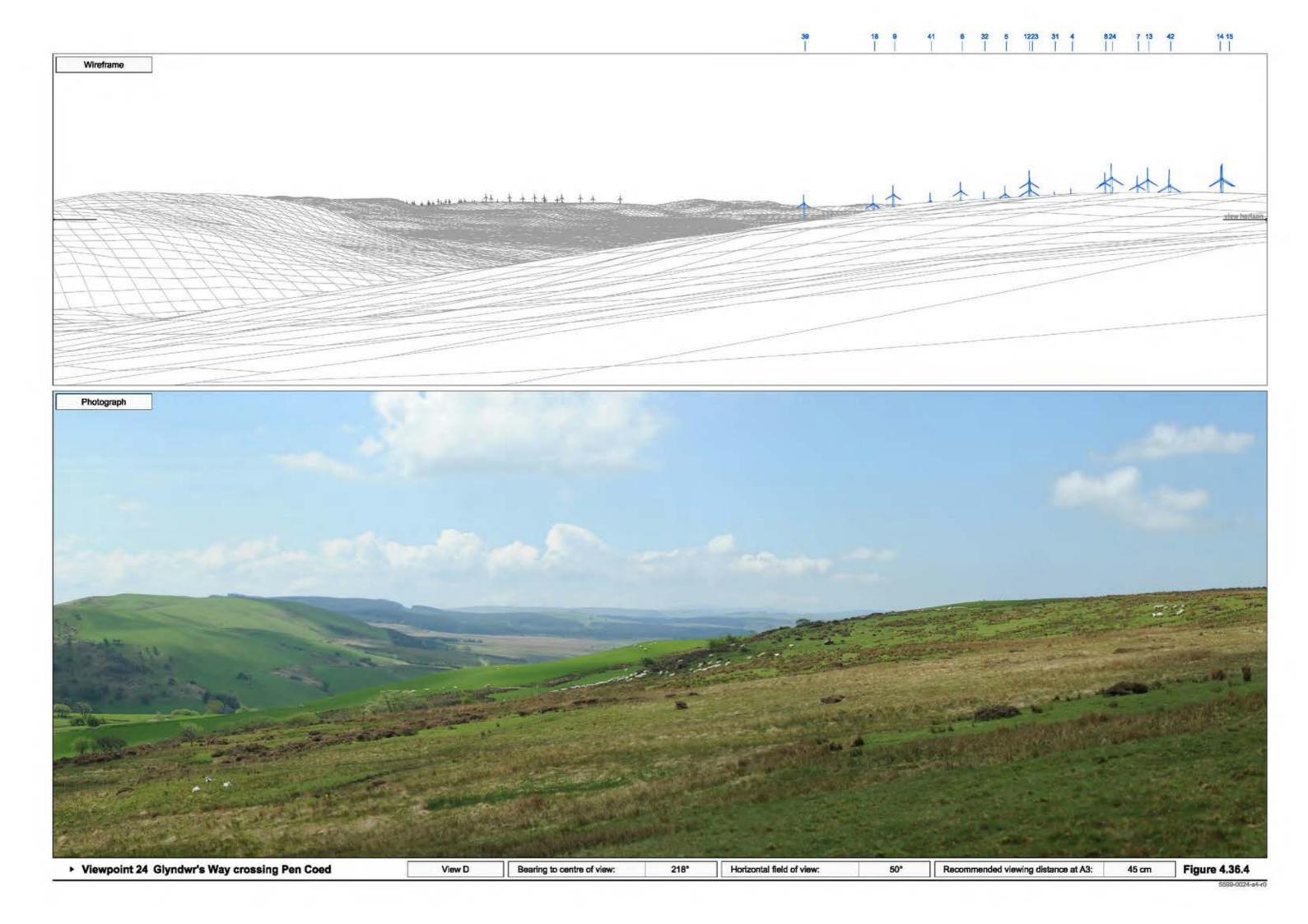
LUCGL 5599-0024-r0 19/07/2013

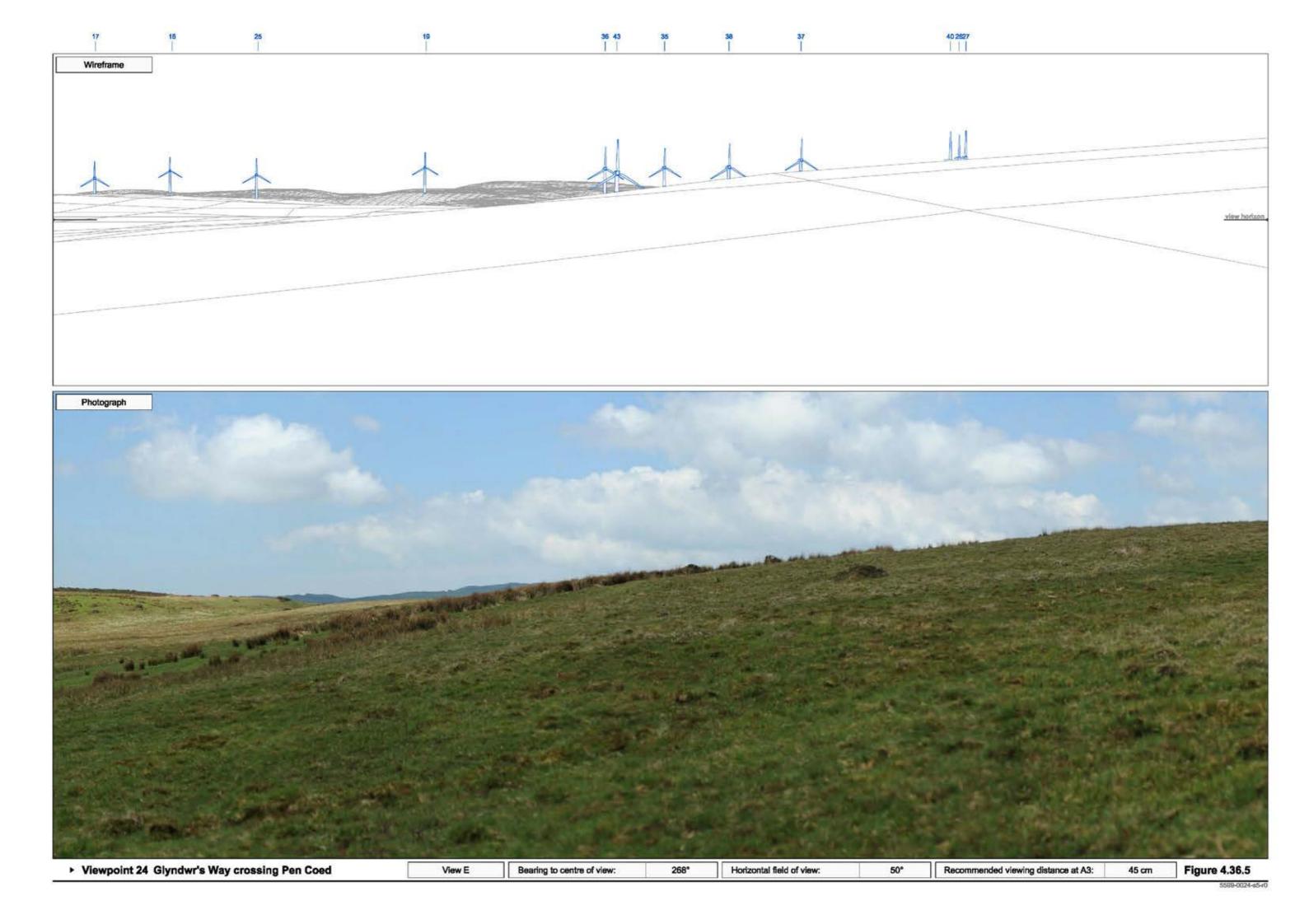






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Viewpoint 24 Glyndwr's Way crossing Pen Coed	View C	Bearing to centre of view:	128°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.36.6



				571 871		
Viewpoint 24 Glyndwr's Way crossing Pen Coed	View C	Bearing to centre of view:	128°	Horizontal field of view:	50°	Recommended

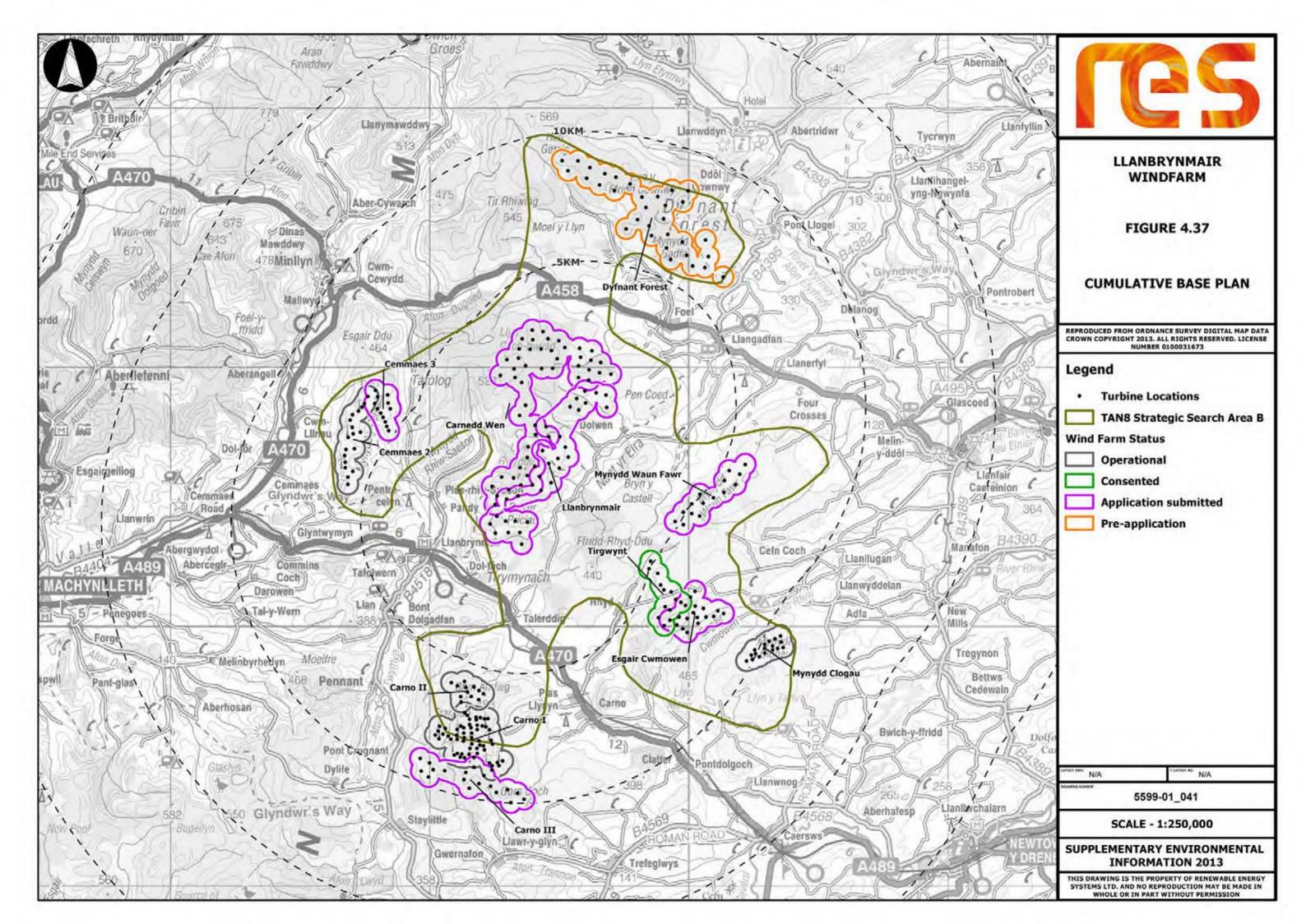
ded viewing distance at A3:	45 cm	Figure 4.36.7
		5500,0024,47,40

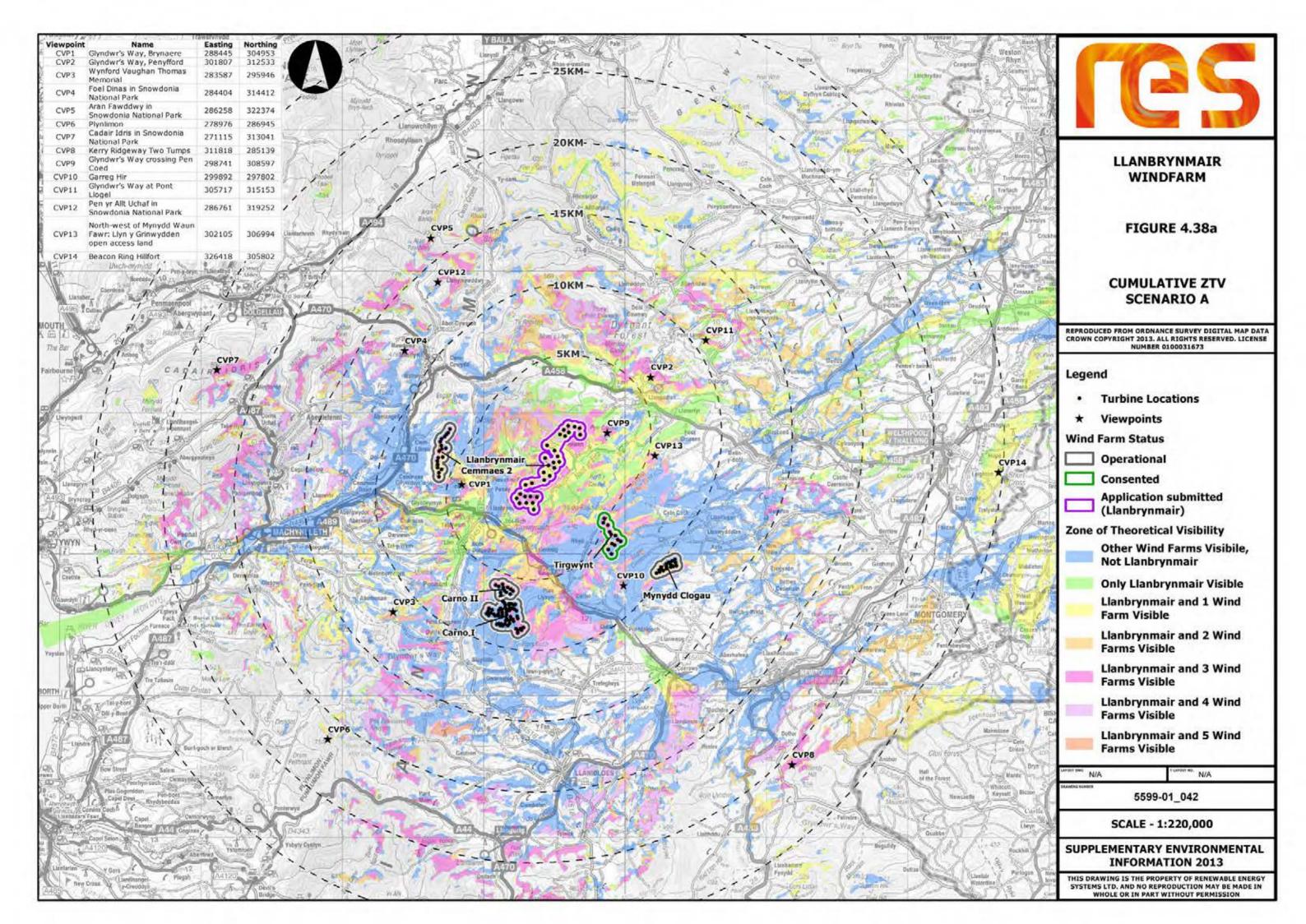


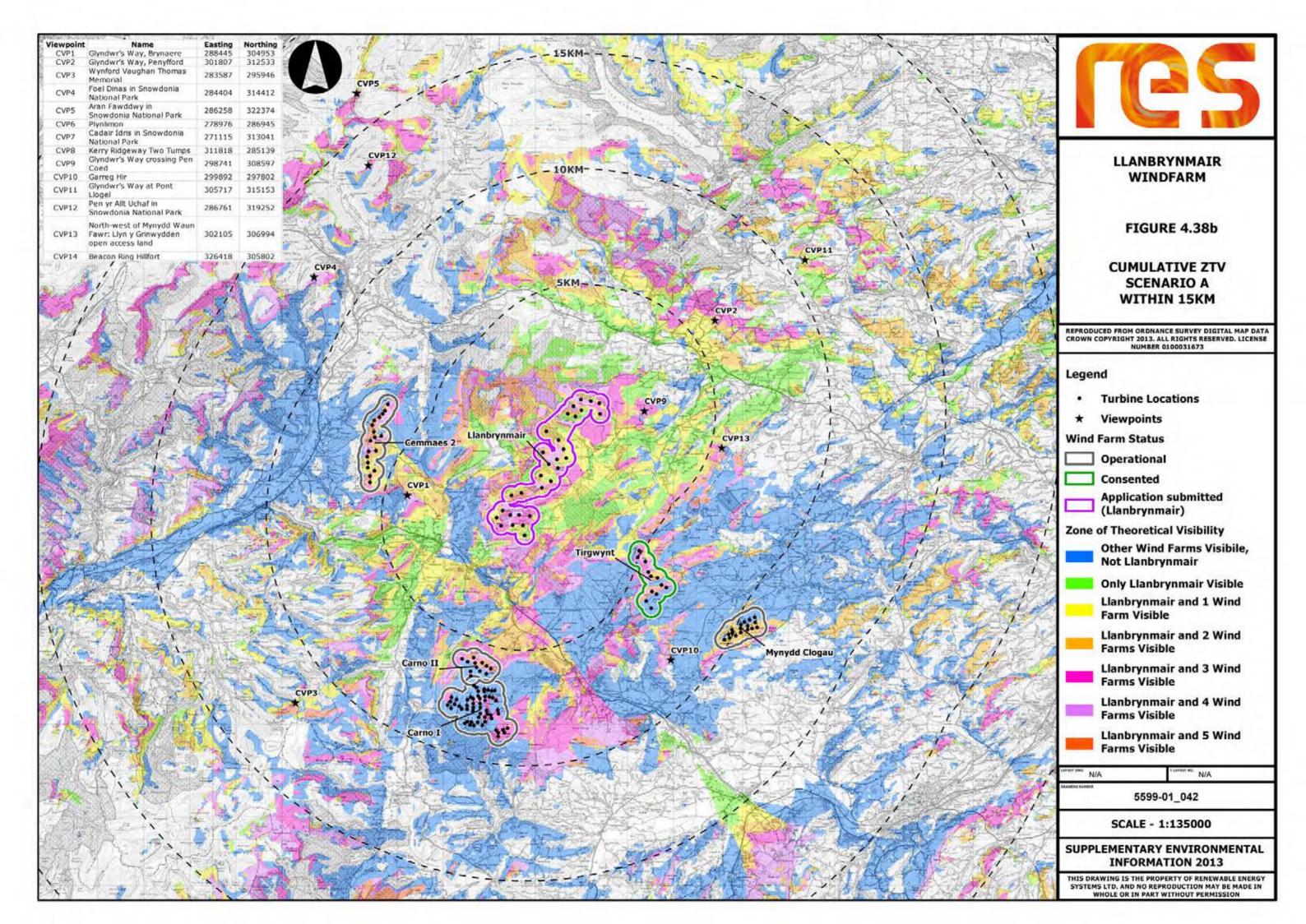
Viewpoint 24 Glyndwr's Way crossing Pen Coed	View D	Bearing to centre of view:	218°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.36.8
								5500.0074.eR.0

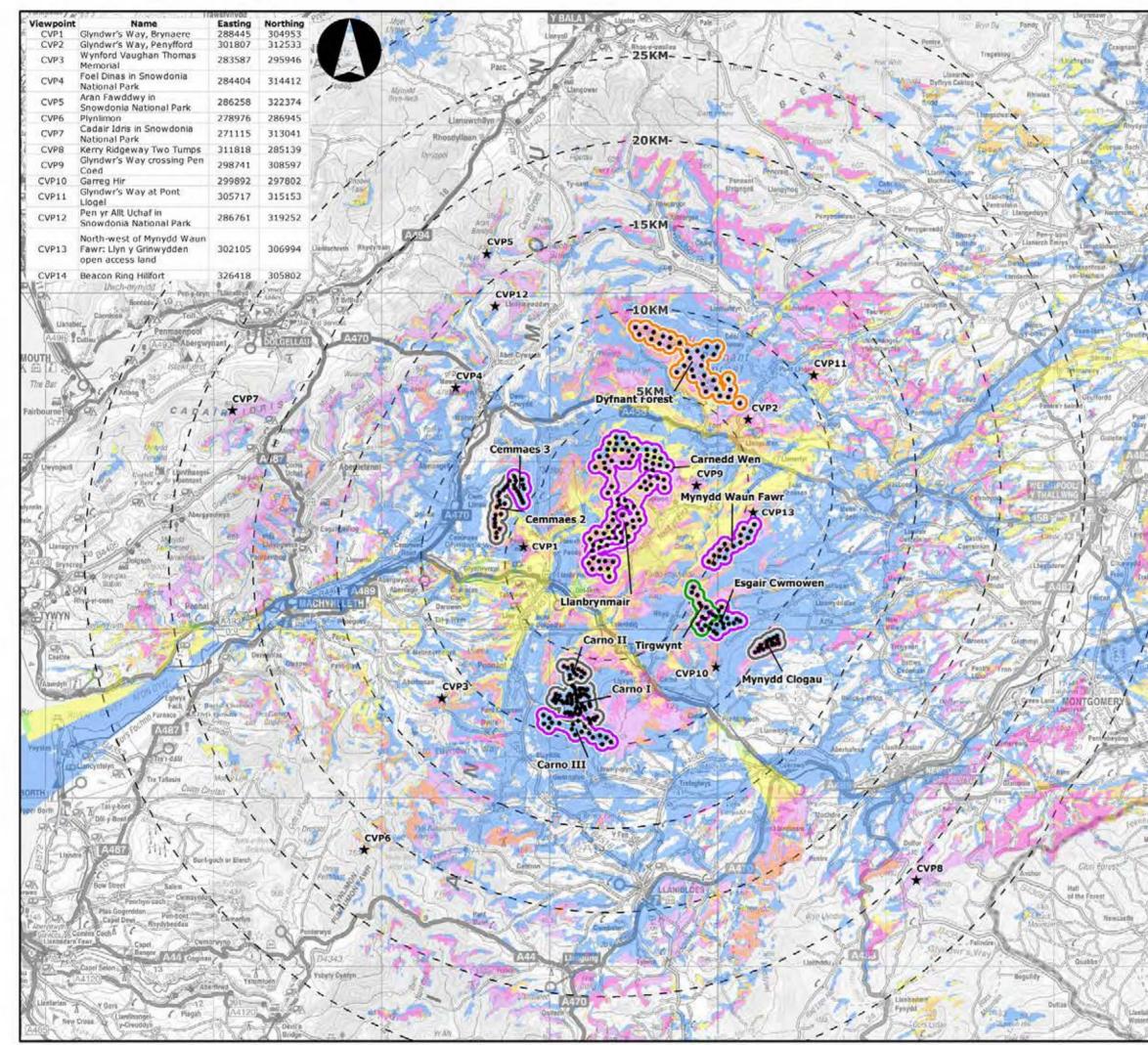


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Viewpoint 24 Glyndwr's Way crossing Pen Coed	View E	Bearing to centre of view:	268°	Horizontal field of view:	50°	Recommended viewing distance at A3:	45 cm	Figure 4.36.9
								5589-0024-49-0

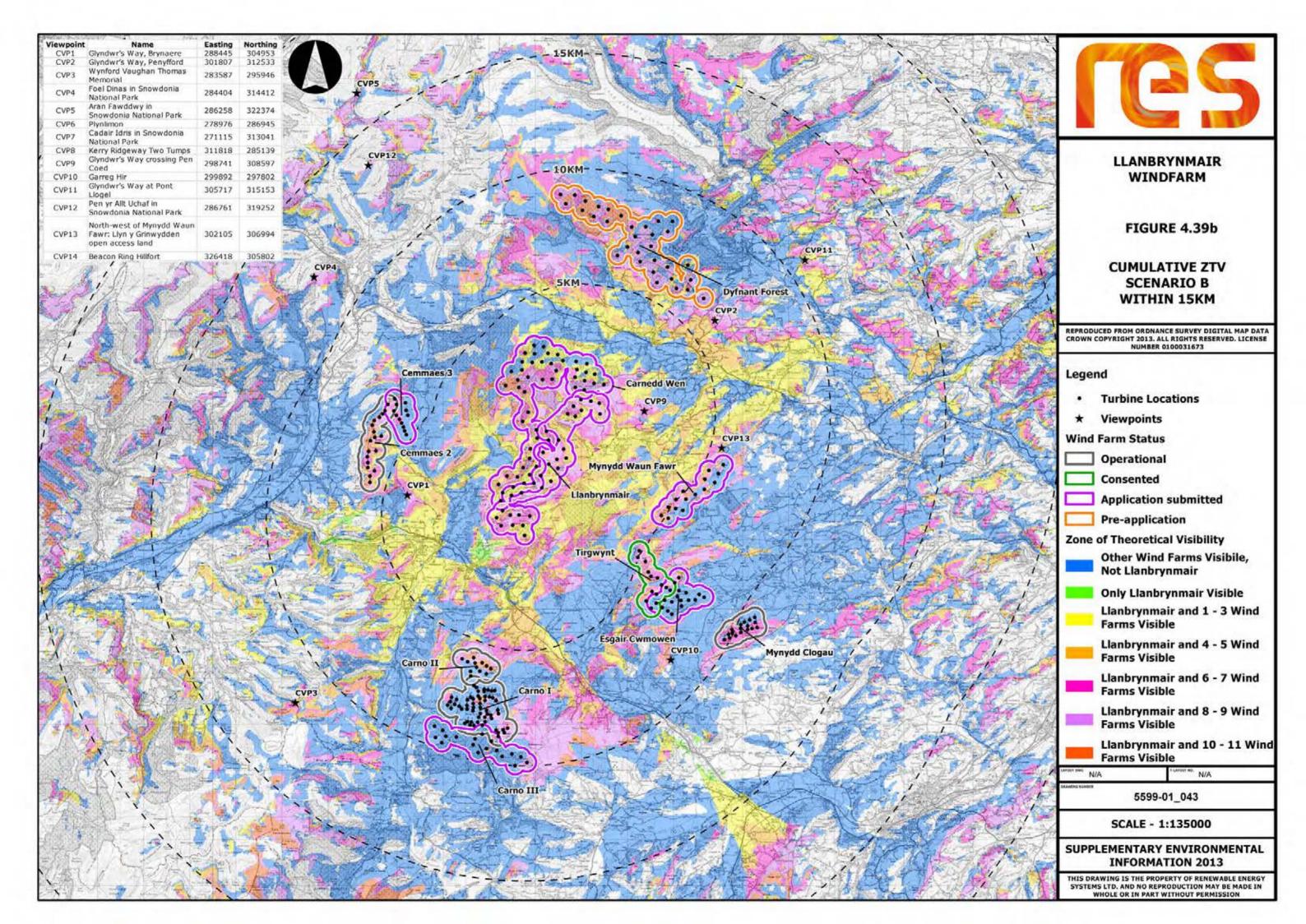


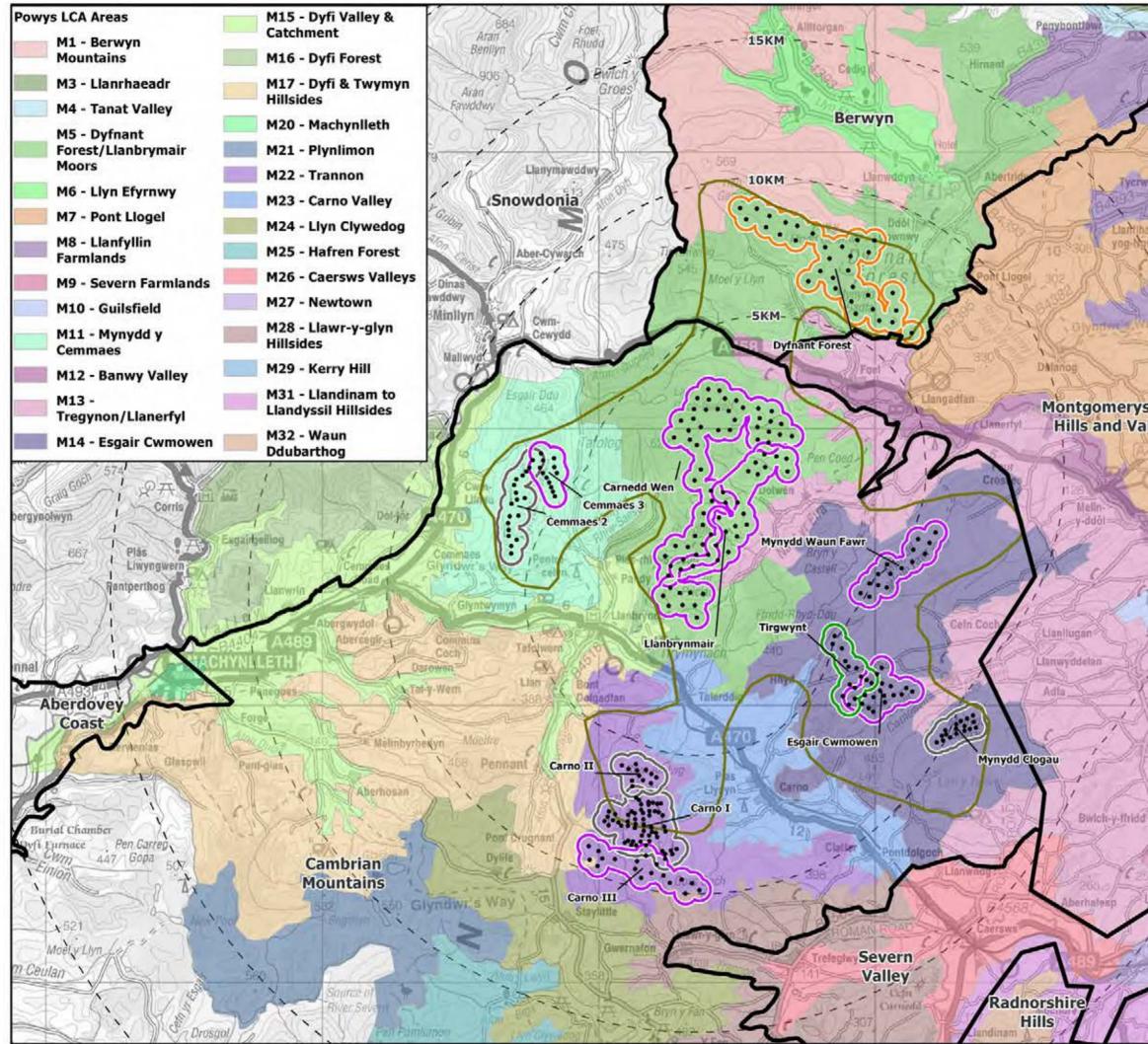






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Puth years	FIGURE 4.39a
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Arden	REPRODUCED FROM ORDNANCE SURVEY DIGITAL MAP DATA CROWN COPYRIGHT 2013. ALL RIGHTS RESERVED. LICENSE NUMBER 0100031673
1/2/2	Legend
ALTER A	Turbine Locations
	★ Viewpoints
Sig Th	Wind Farm Status
CVP14	Operational
Short- Cross Bro	Consented
452	Application submitted
Marion	Pre-application
Revision	Zone of Theoretical Visibility
Watalietug Chaduny := 15 m	Other Wind Farms Visibile, Not Llanbrynmair
anal Par	Only Llanbrynmair Visible
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Ades	Llanbrynmair and 4 - 5 Wind Farms Visible
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Ativative Ca	Llanbrynmair and 8 - 9 Wind Farms Visible
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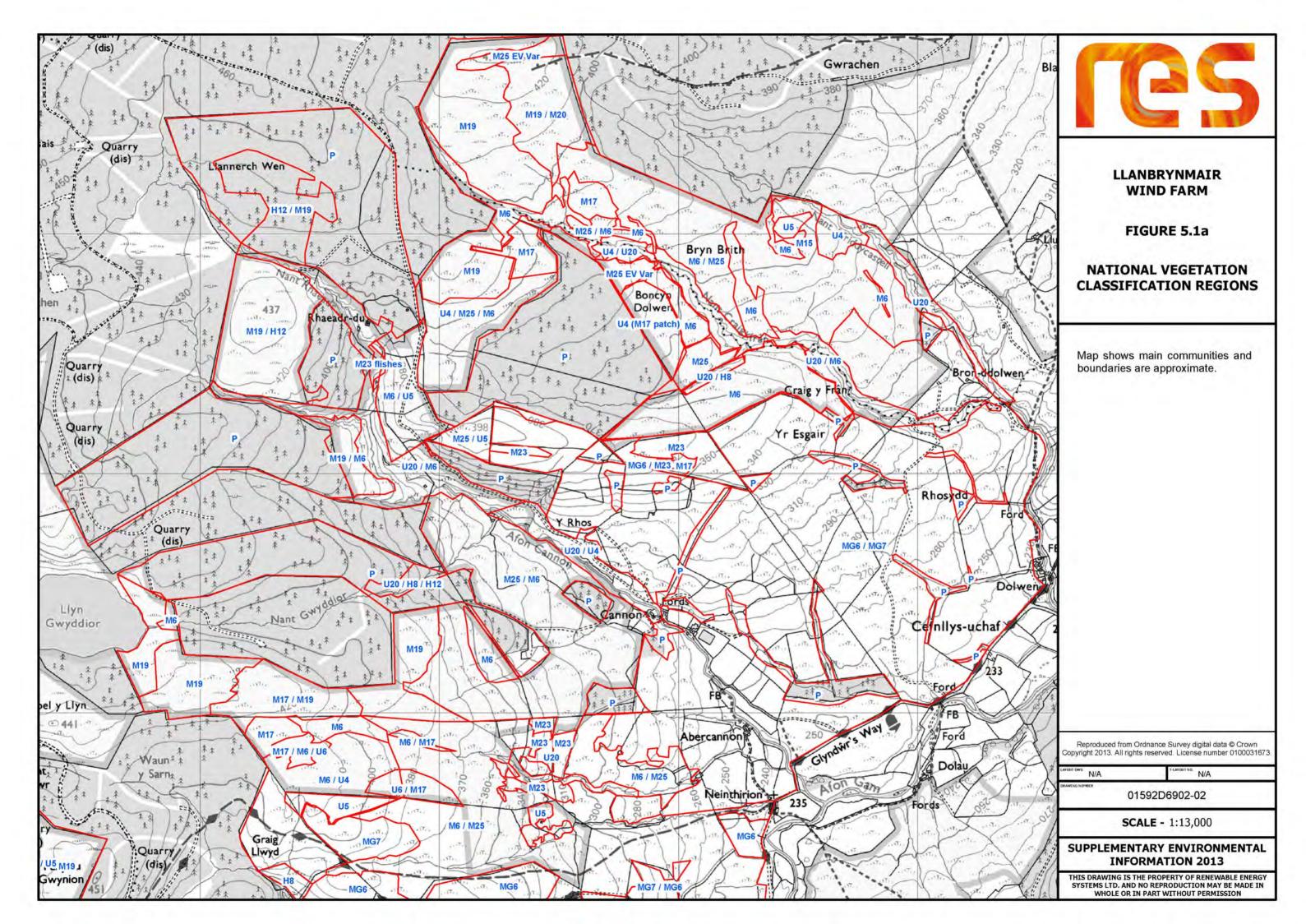


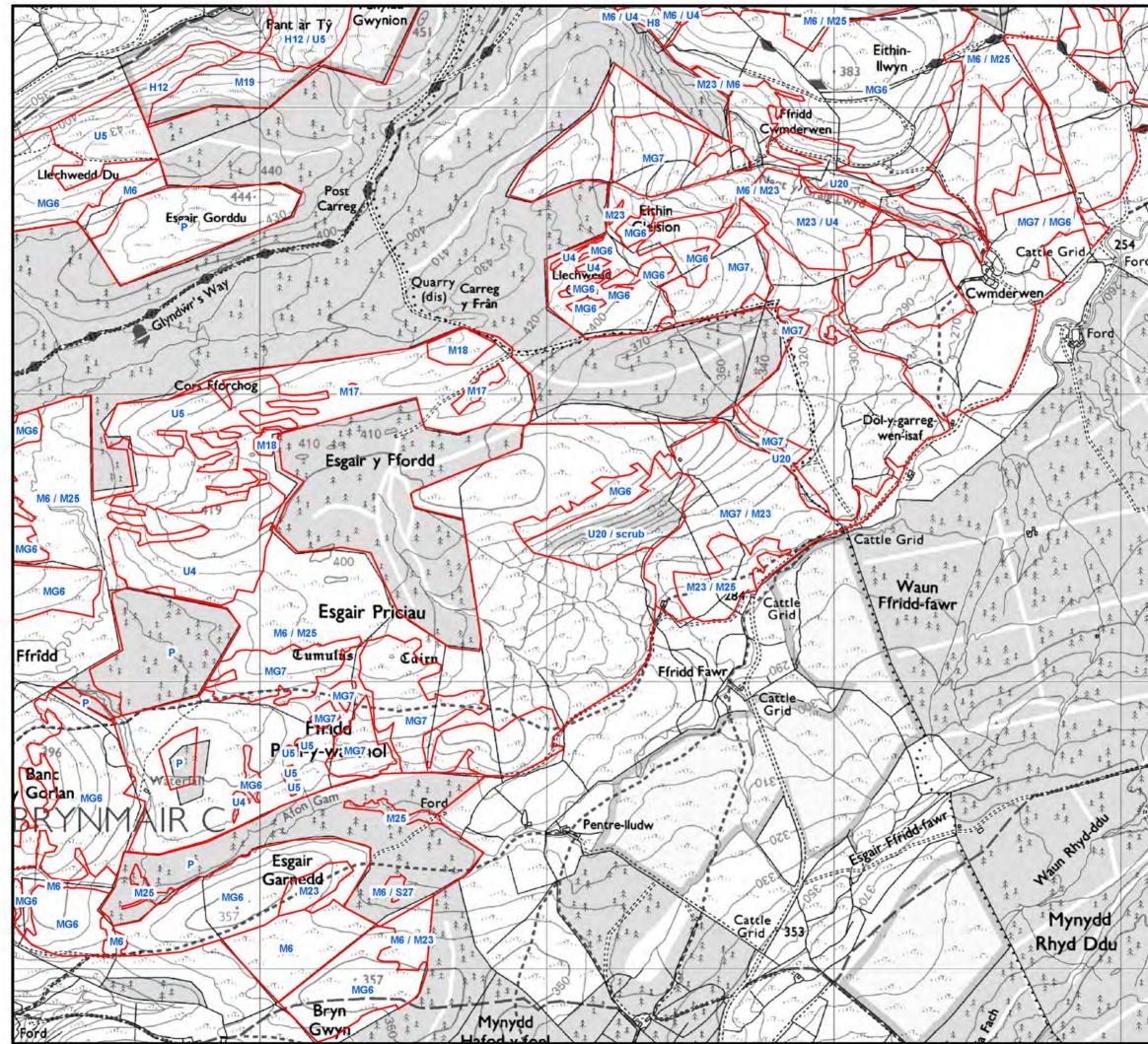


Penygarne	<b>res</b>
yn Hani	LLANBRYNMAIR WINDFARM
ese TA	FIGURE 4.40
Pontrob	LANDSCAPE CHARACTER AREAS
1 China	REPRODUCED FROM ORDNANCE SURVEY DIGITAL MAP DATA CROWN COPYRIGHT 2013. ALL RIGHTS RESERVED. LICENSE NUMBER 0100031673
hire 1	Legend
les	Turbine Locations
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1	Wales Character Map
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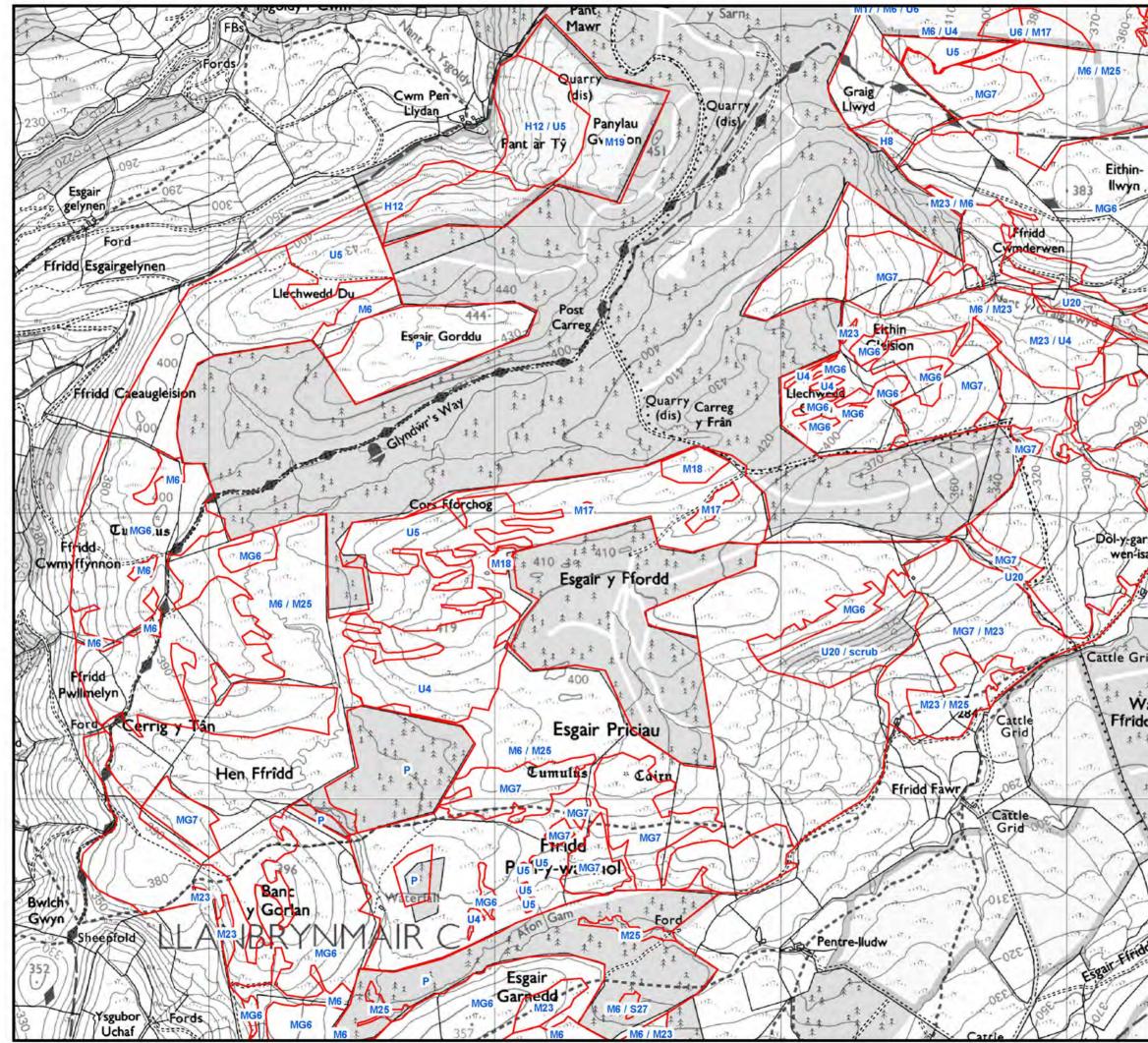
CHAPTER 5: ECOLOGICAL ASSESSMENT FIGURES



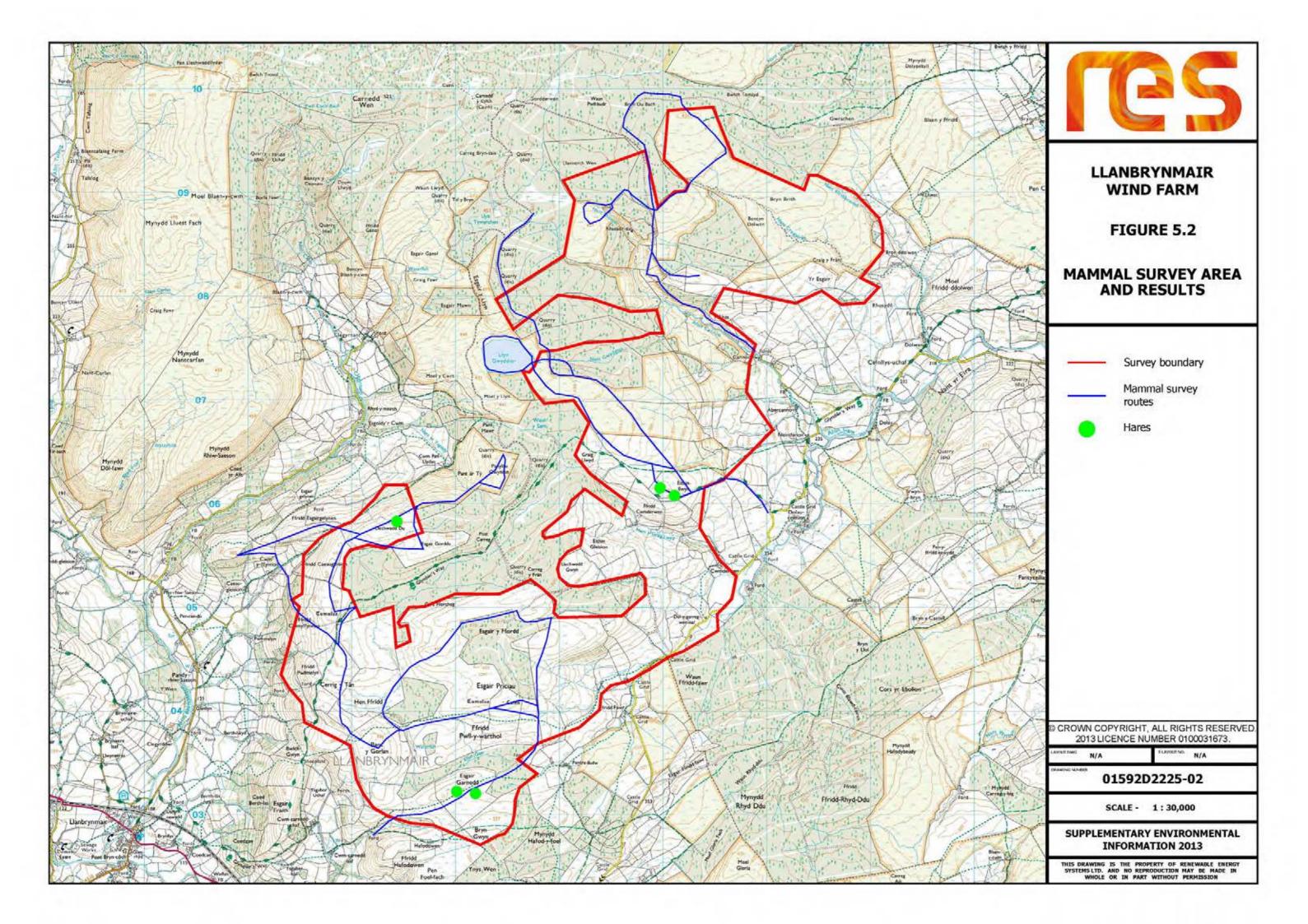


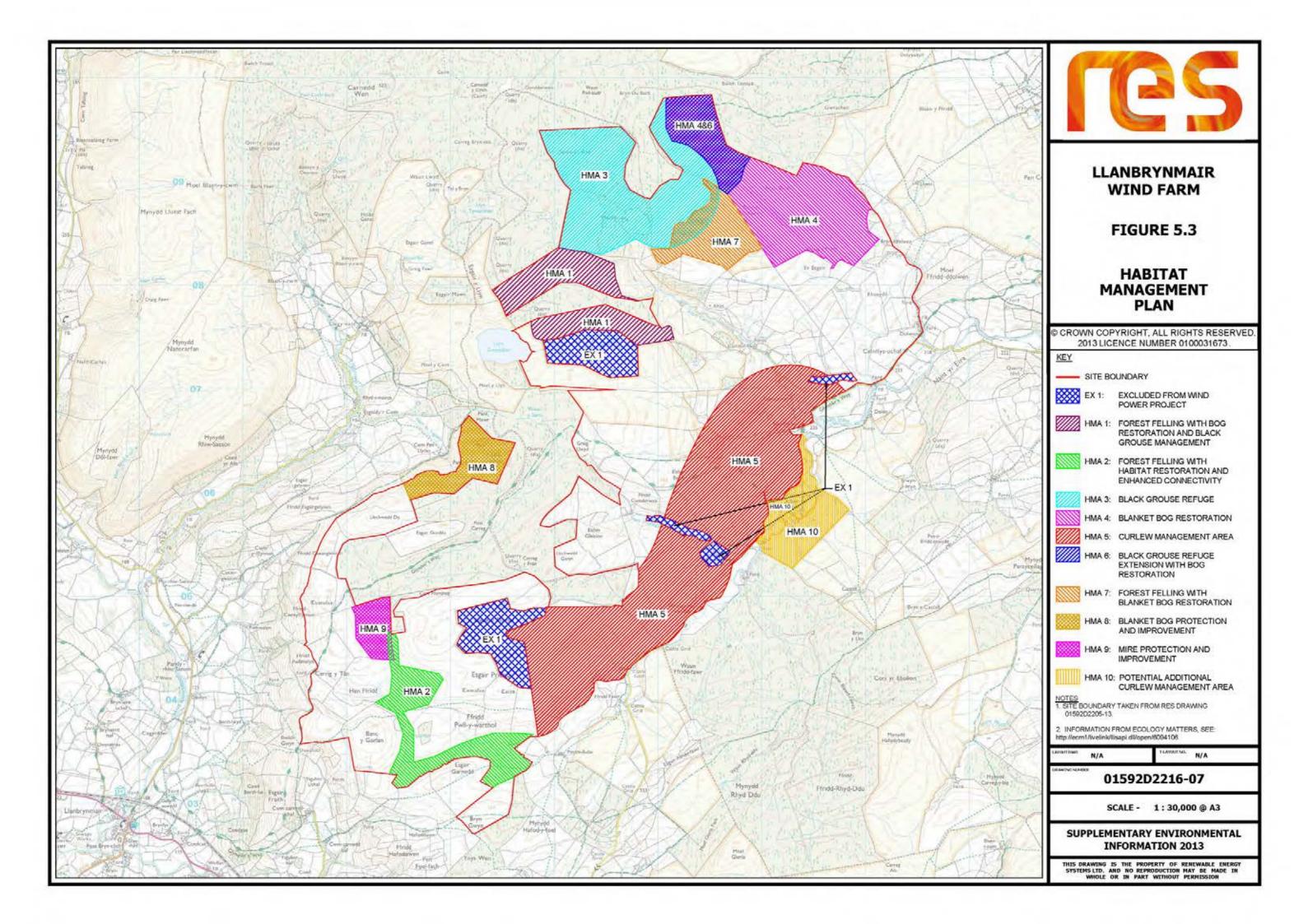


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M6 / M25	<b>MAG</b>
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Dolau- ceimion	
1 A	WIND FARM
d d	FIGURE 5.1b
	NATIONAL VEGETATION CLASSIFICATION REGIONS
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	Map shows main communities and boundaries are approximate.
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alt a	
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343 1 (*	Reproduced from Ordnance Survey digital data © Crown Copyright 2013. All rights reserved. License number 0100031673.
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A 18 420	01592D6903-02
	SCALE - 1:13,000
* ***	SUPPLEMENTARY ENVIRONMENTAL INFORMATION 2013
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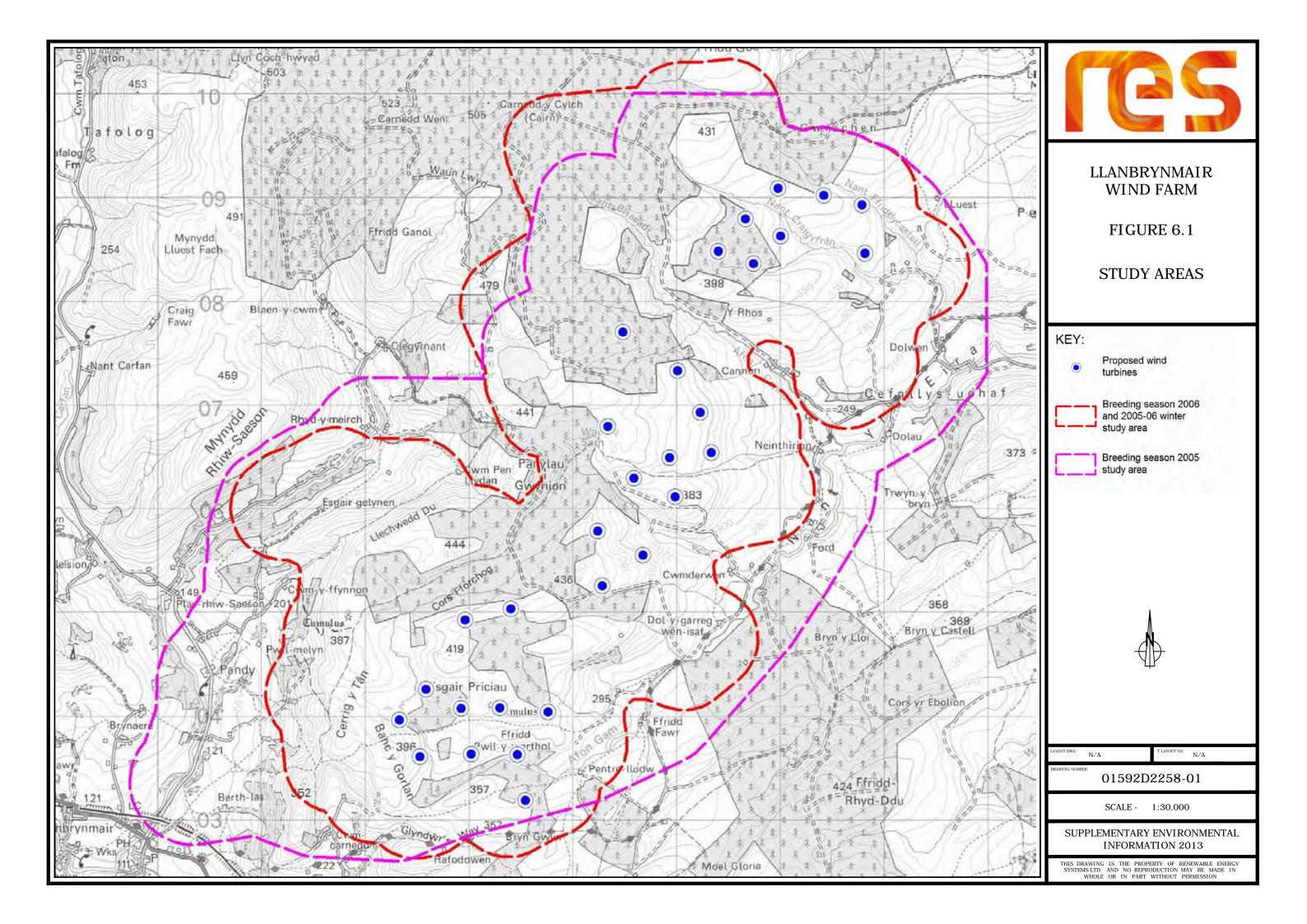
M23 M23 U20 U5	res
	LLANBRYNMAIR WIND FARM FIGURE 5.1c NATIONAL VEGETATION CLASSIFICATION REGIONS
MG7 / MG6	Map shows main communities and boundaries are approximate.
× ×	Reproduced from Ordnance Survey digital data © Crown Copyright 2013. All rights reserved. License number 0100031673.
: 125	LAYOUT DWG N/A T-LAYOUT NO. N/A
E AN	DRAWING NUMBER 01592D6904-02
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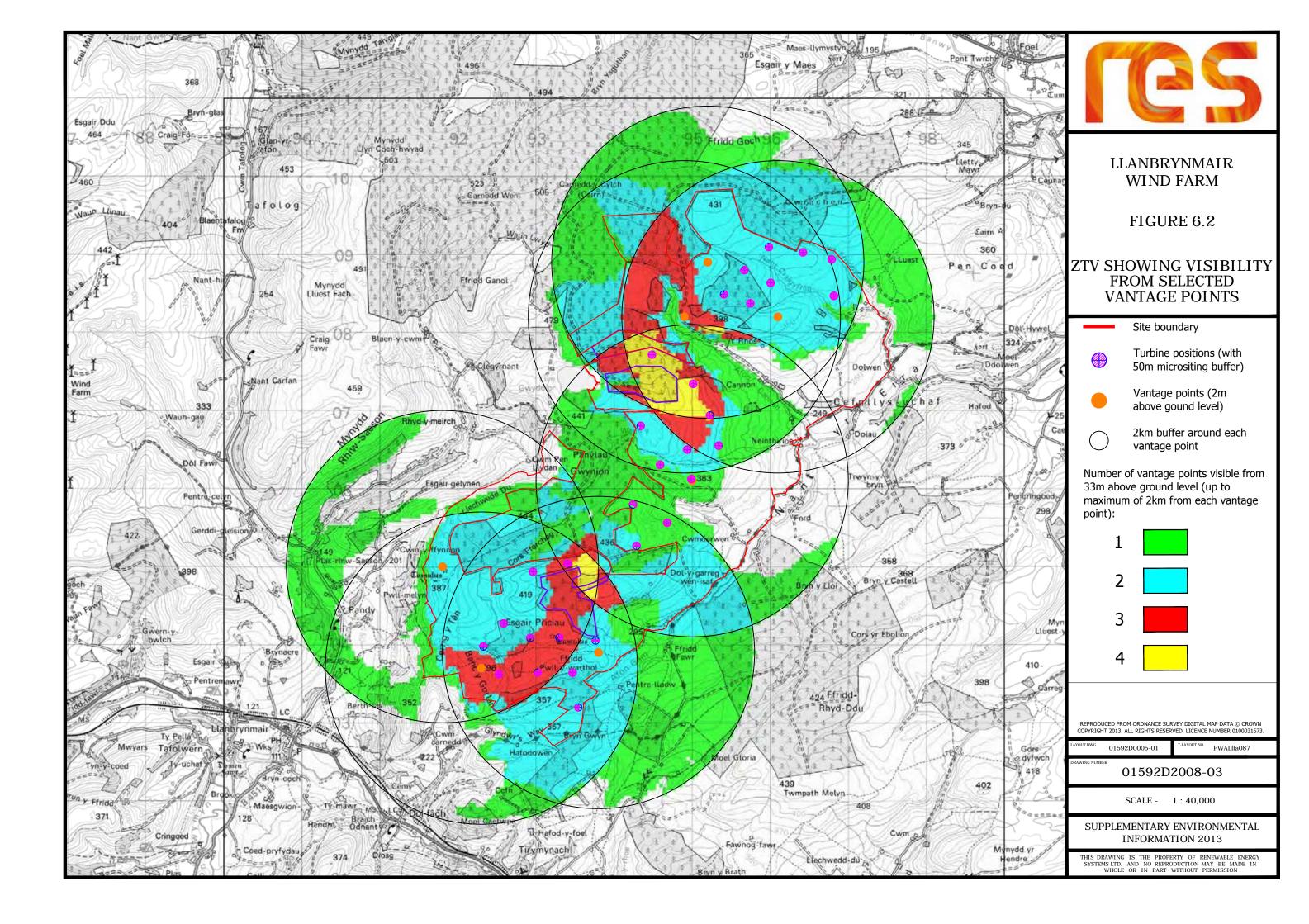


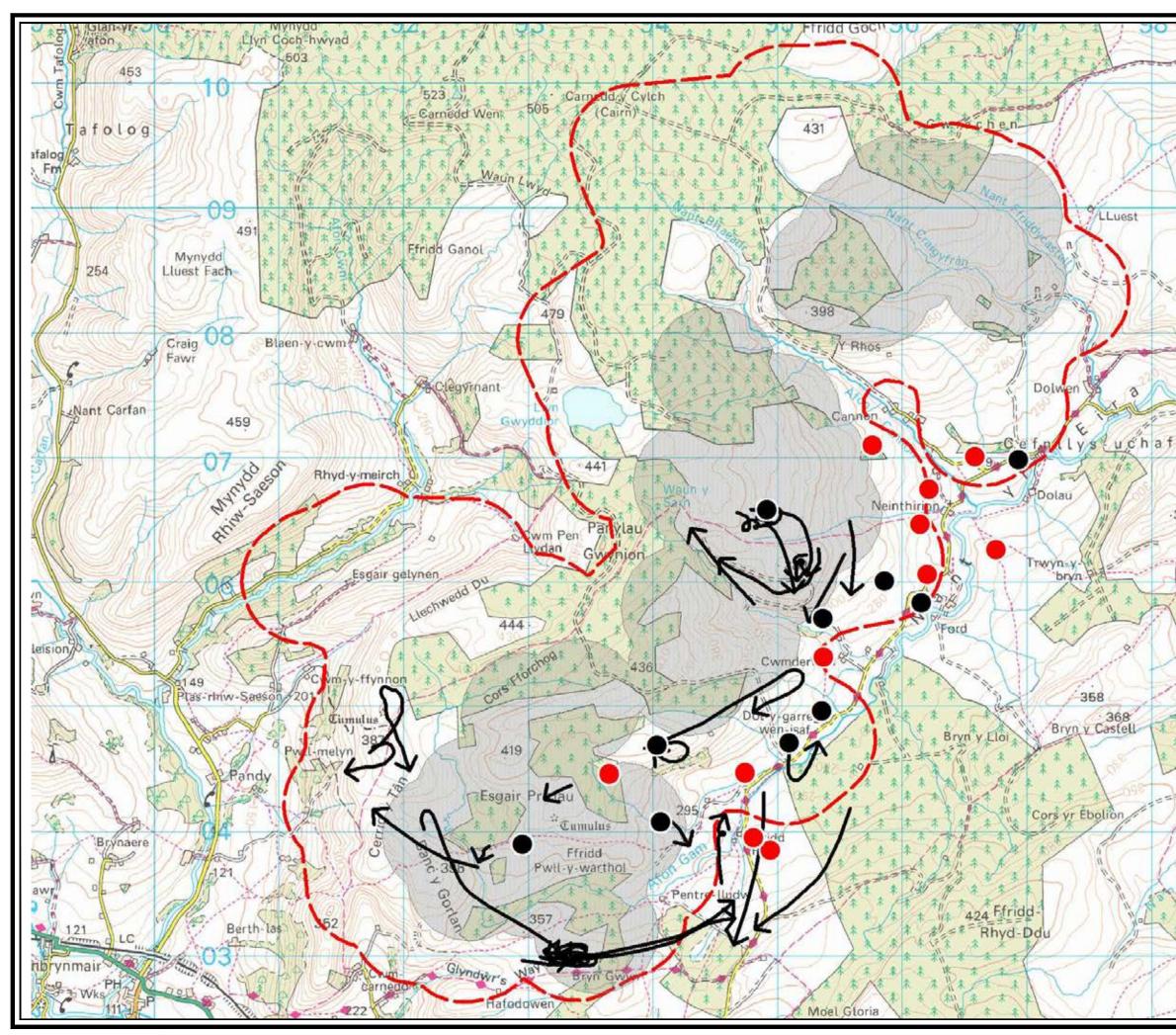


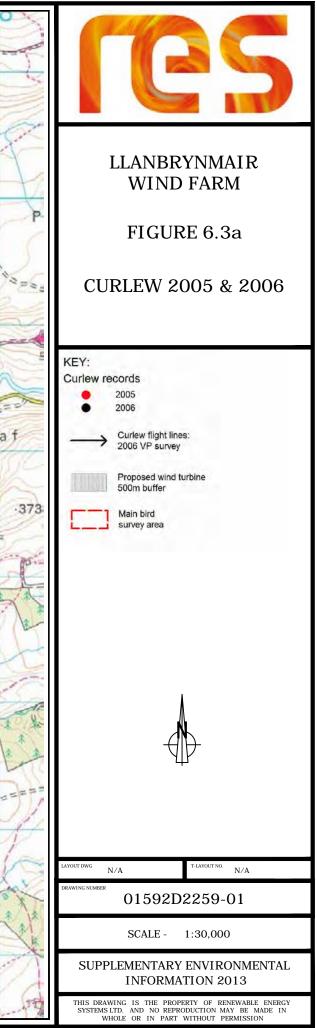
CHAPTER 6: ORNITHOLOGICAL ASSESSMENT FIGURES

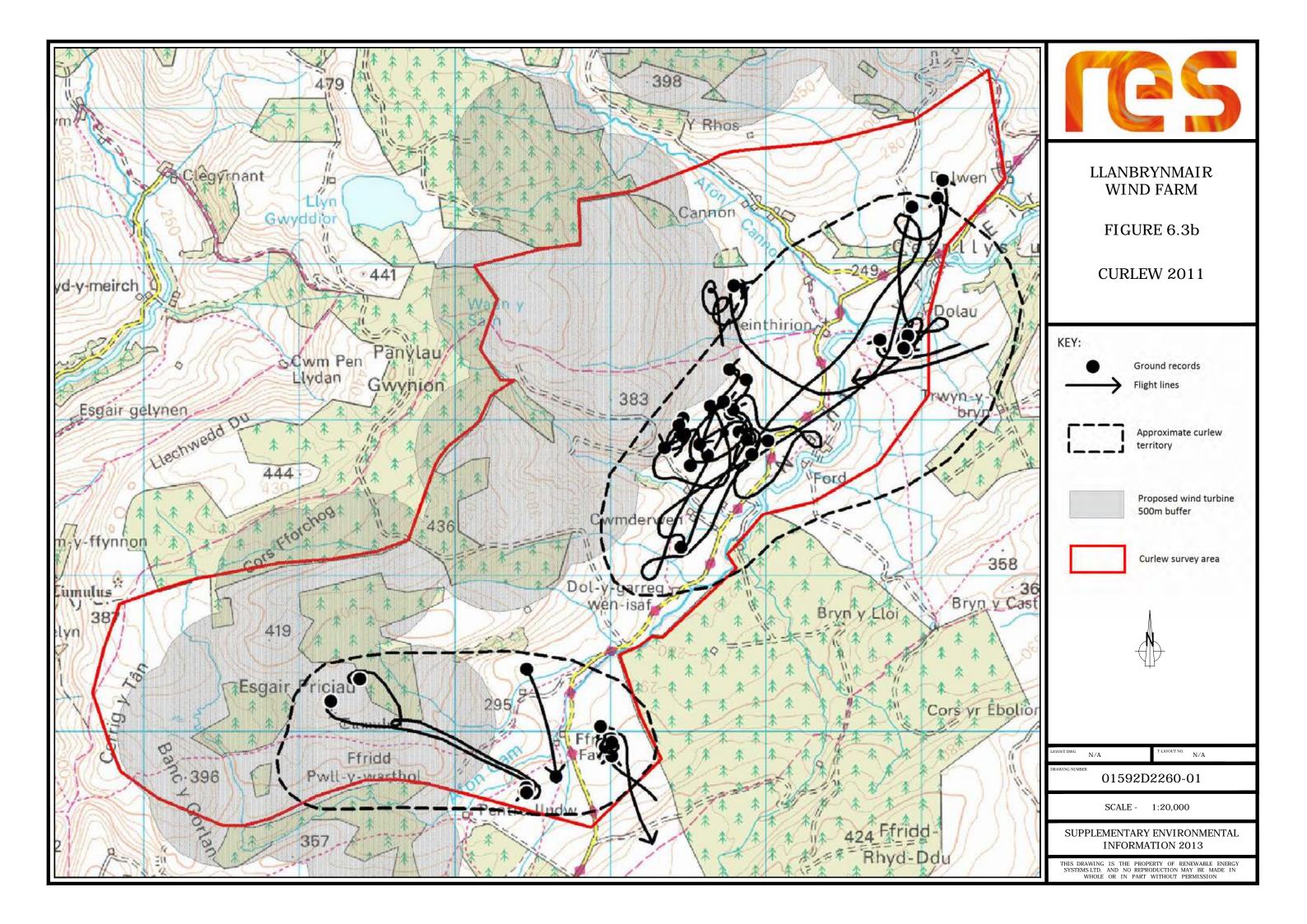


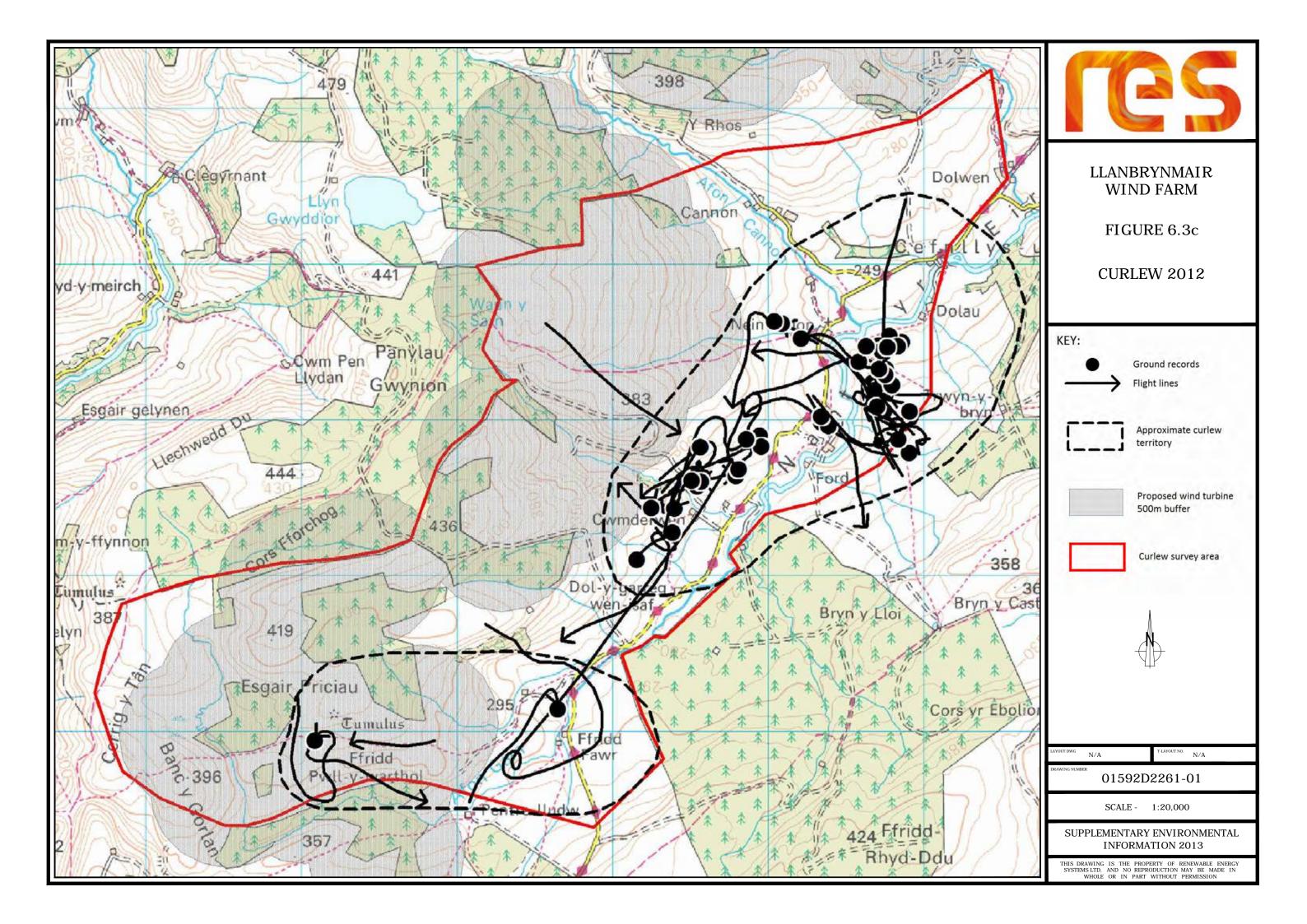


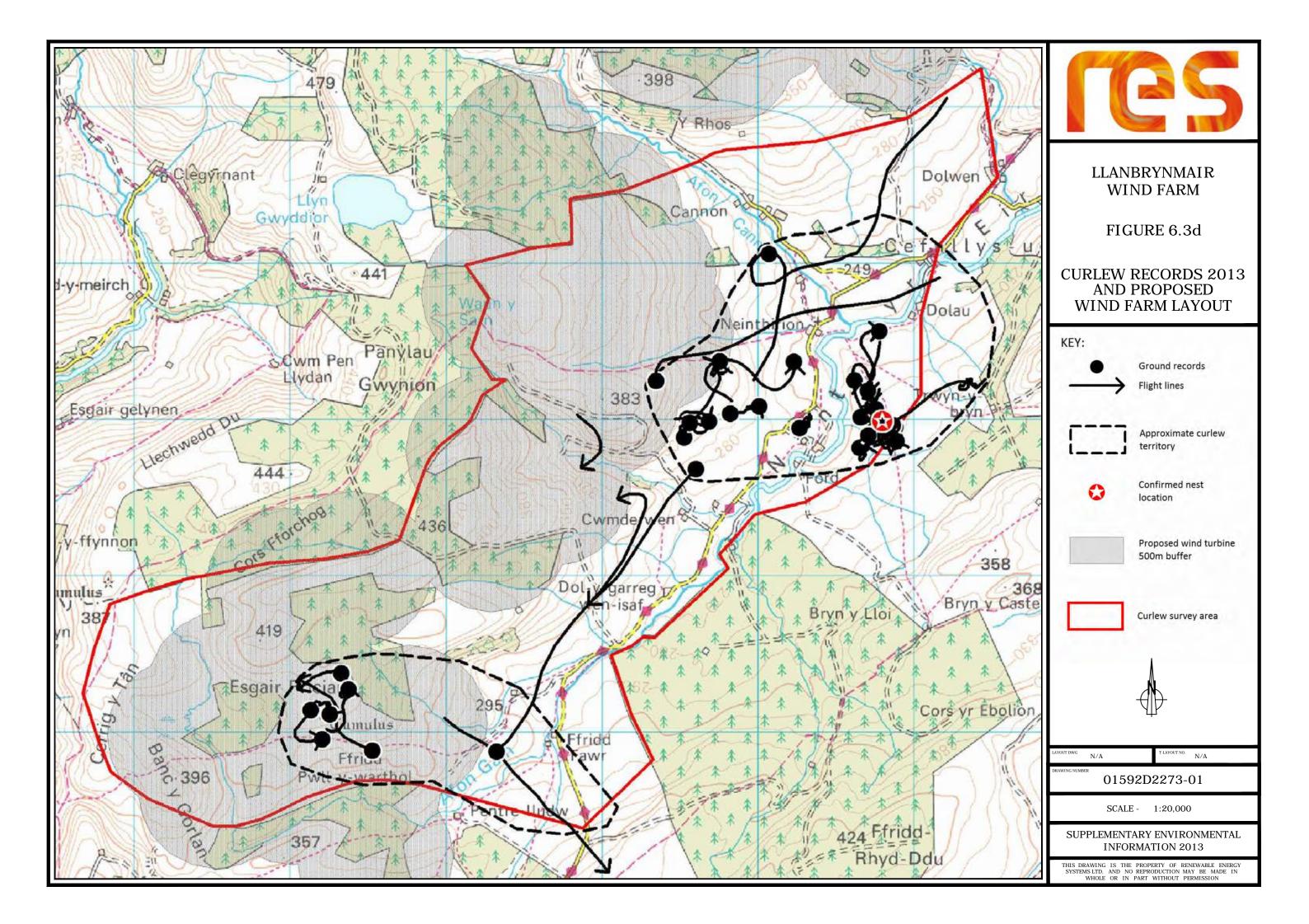


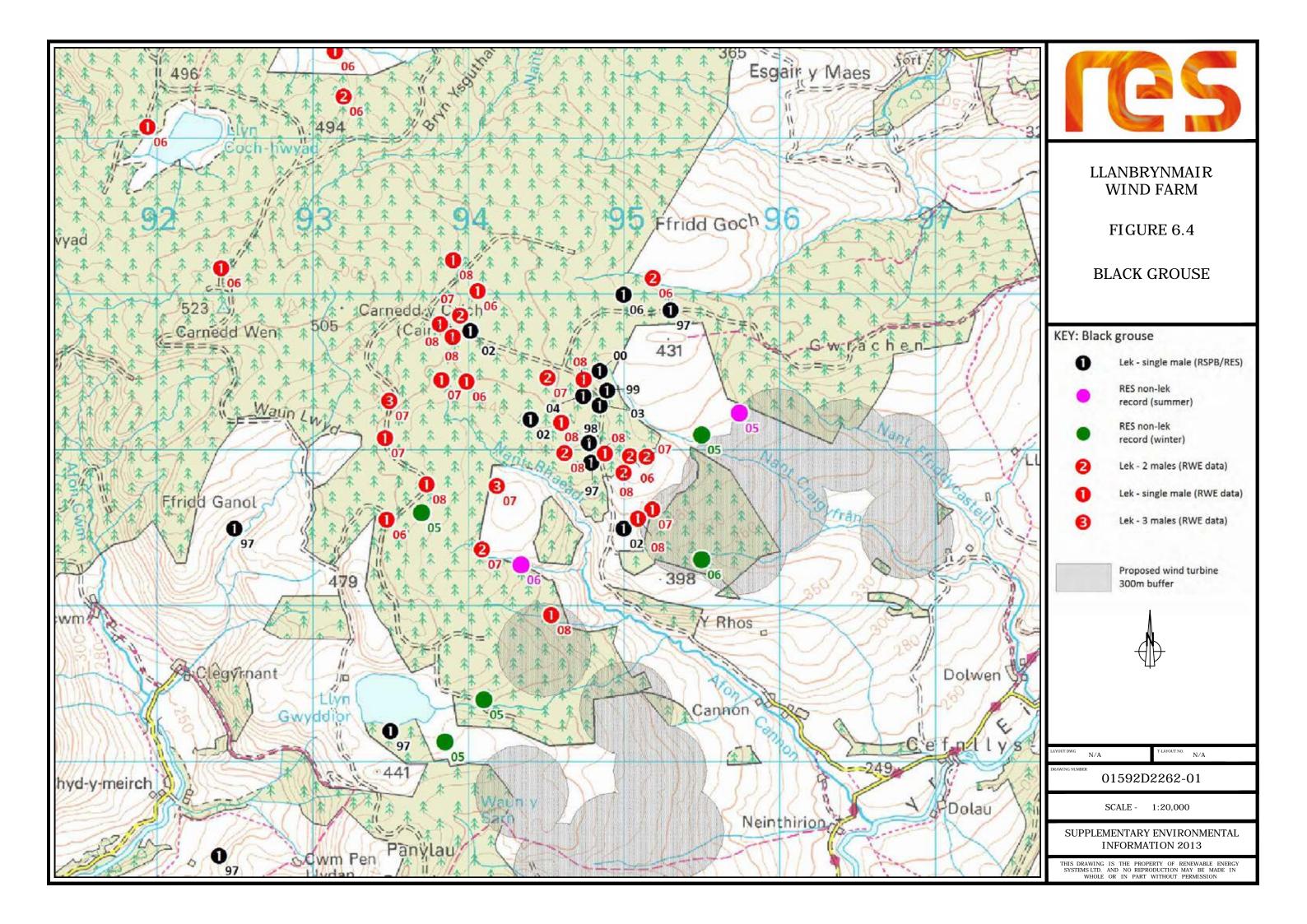


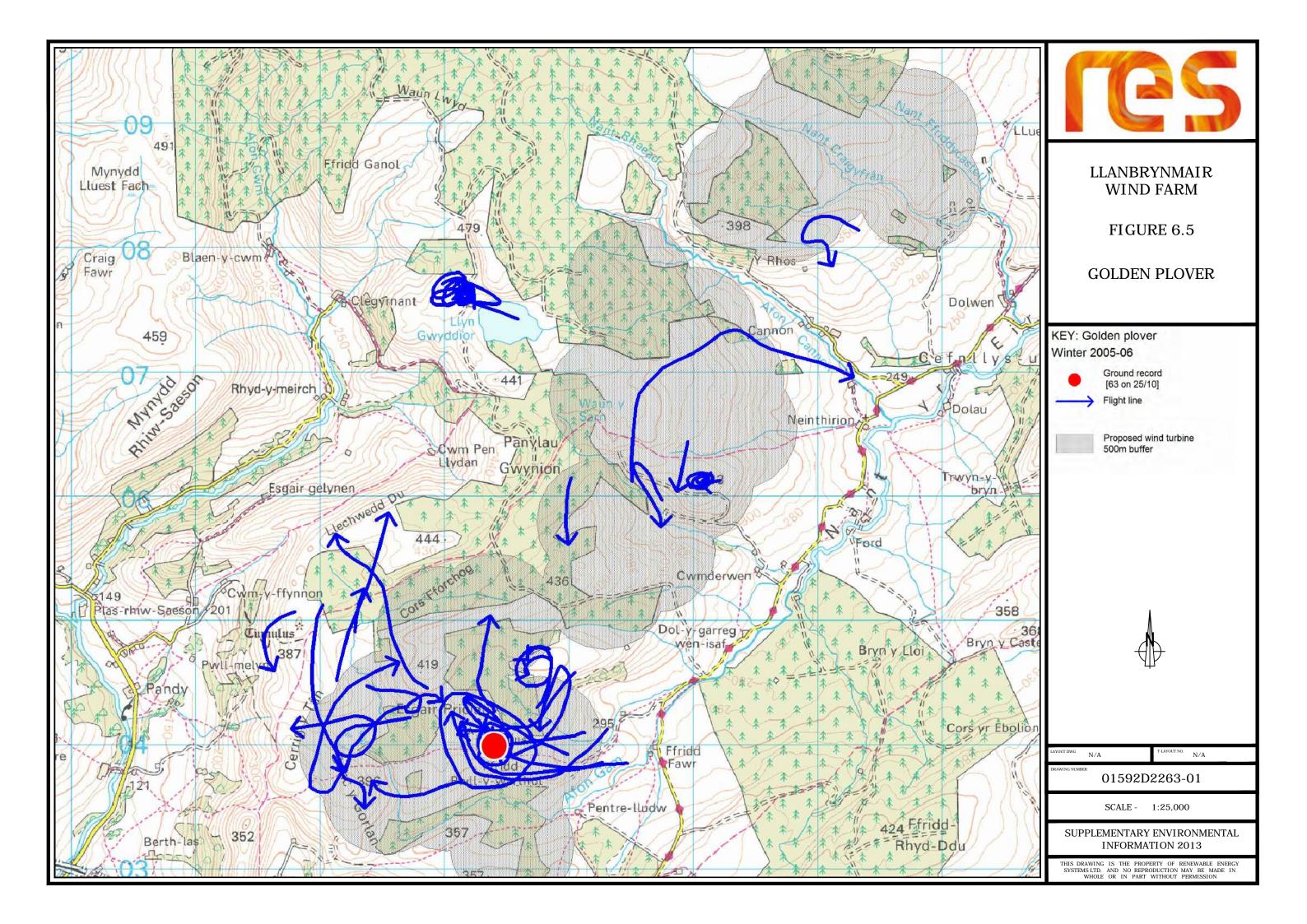


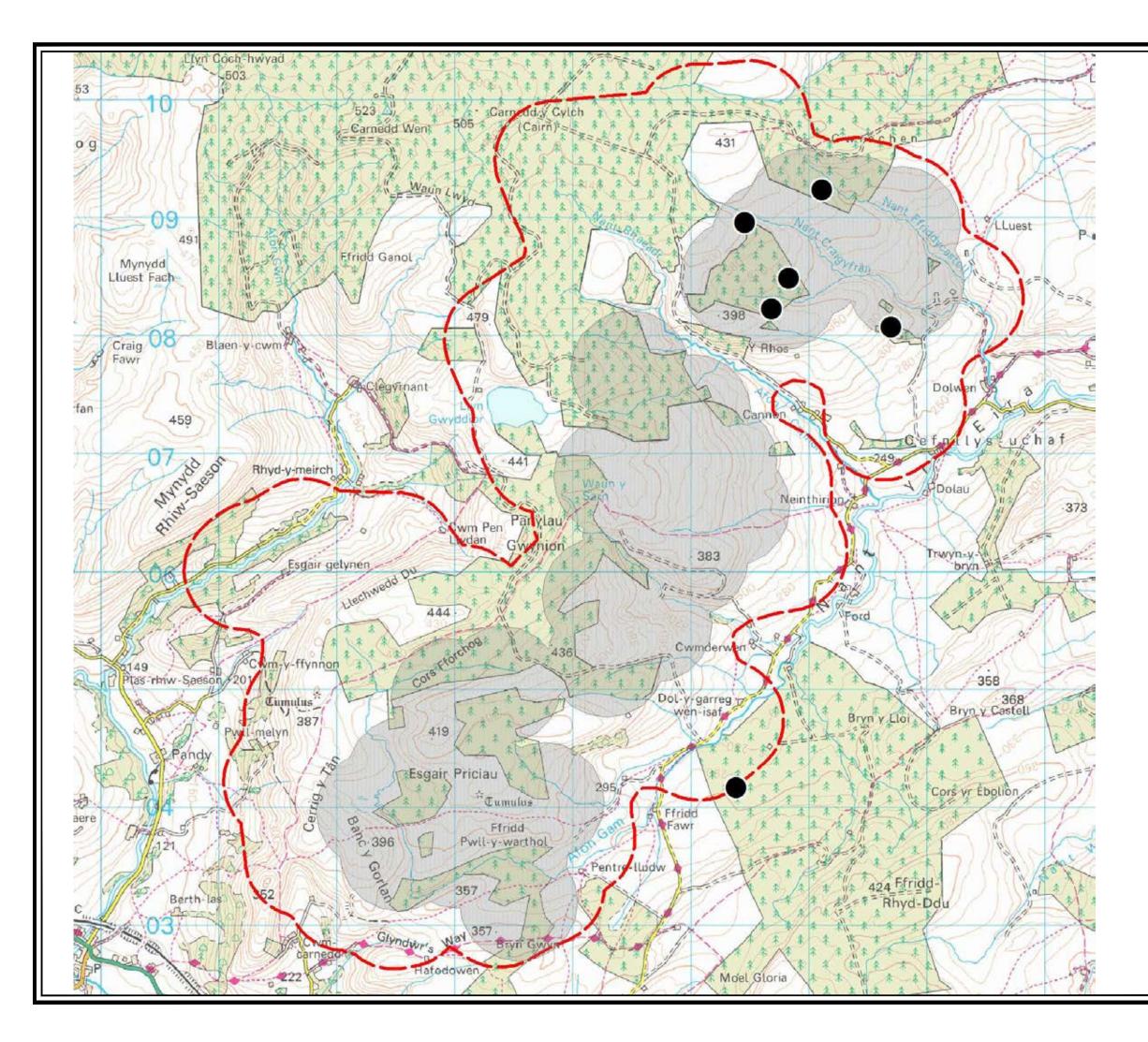




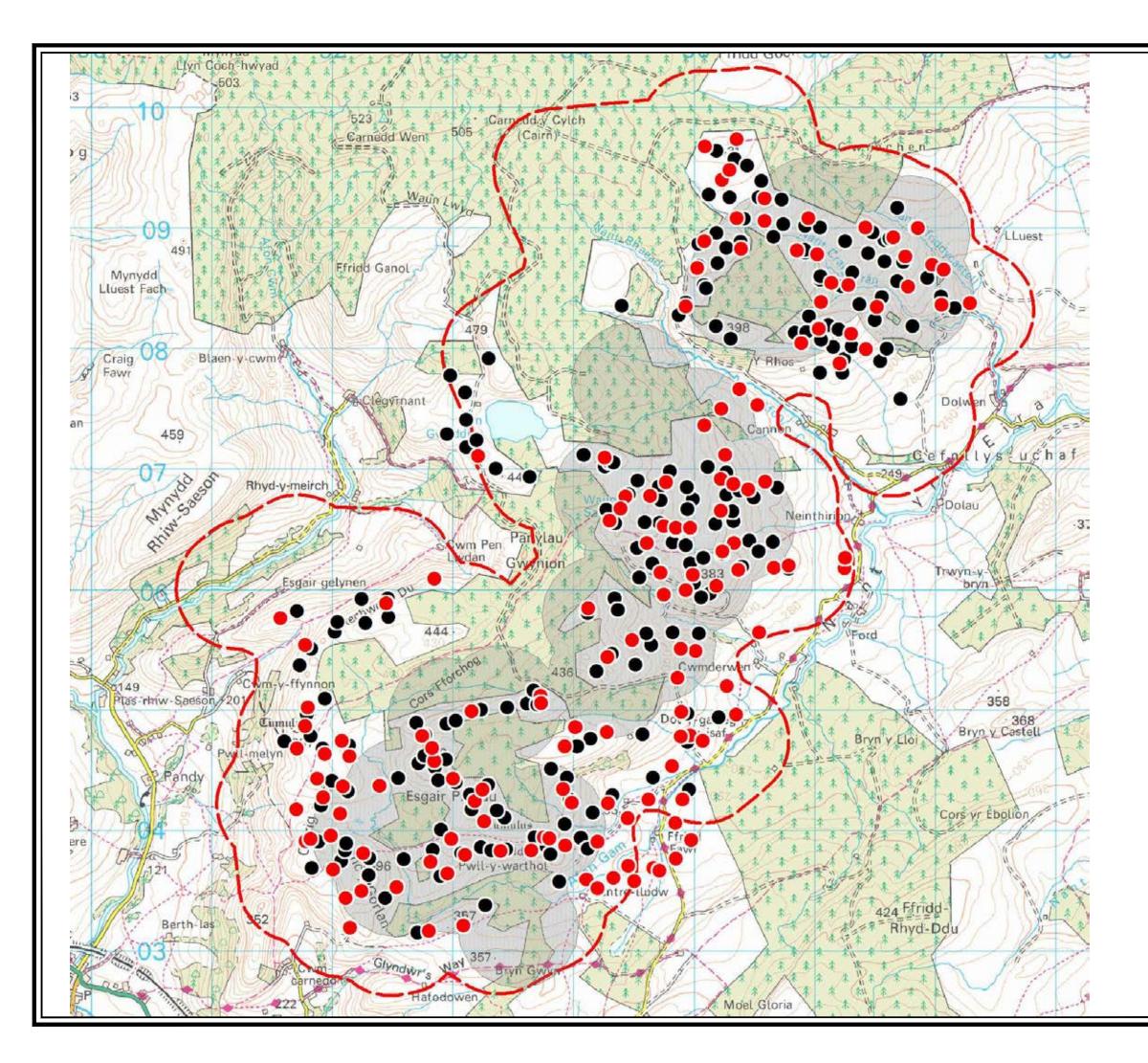




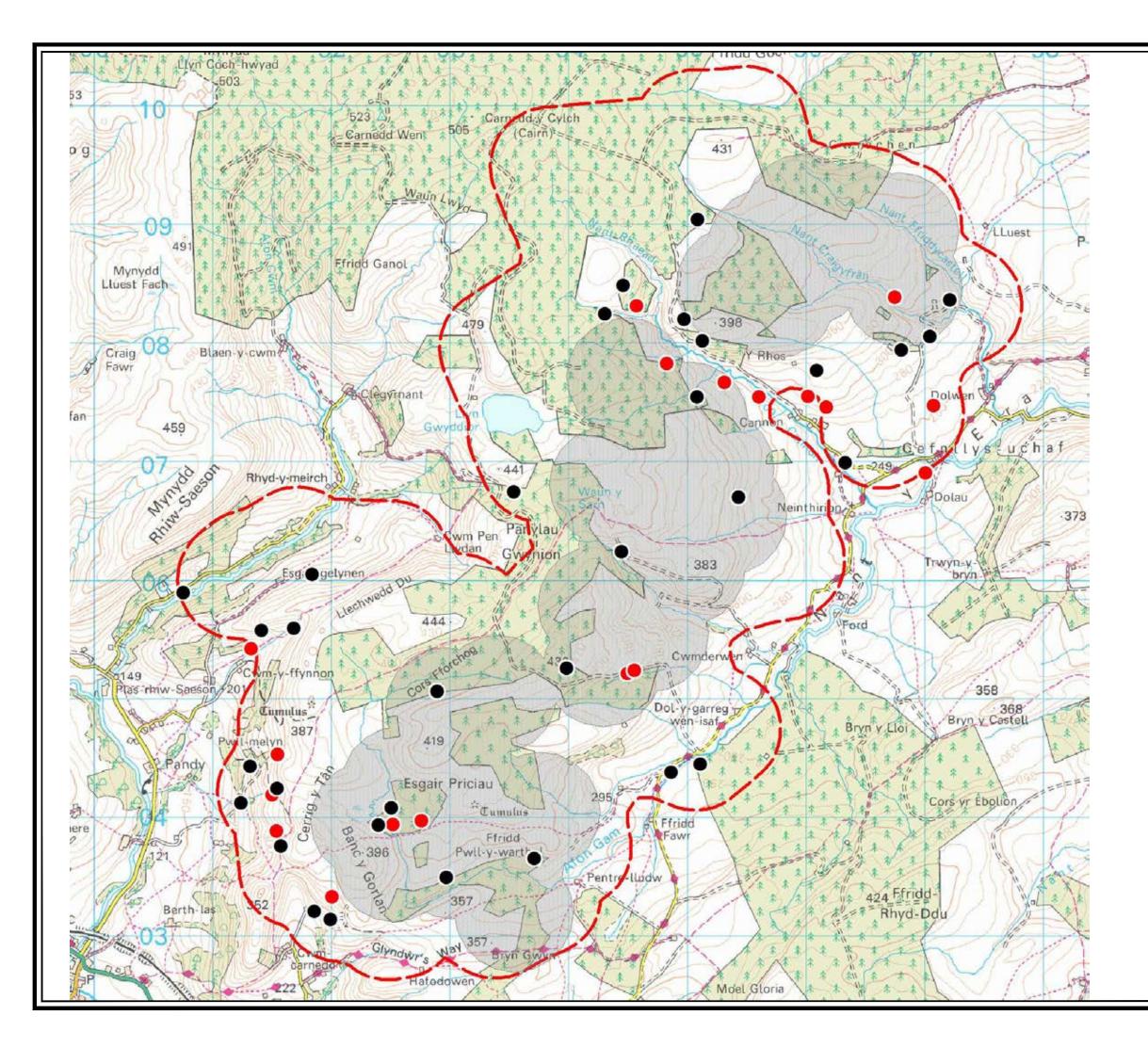




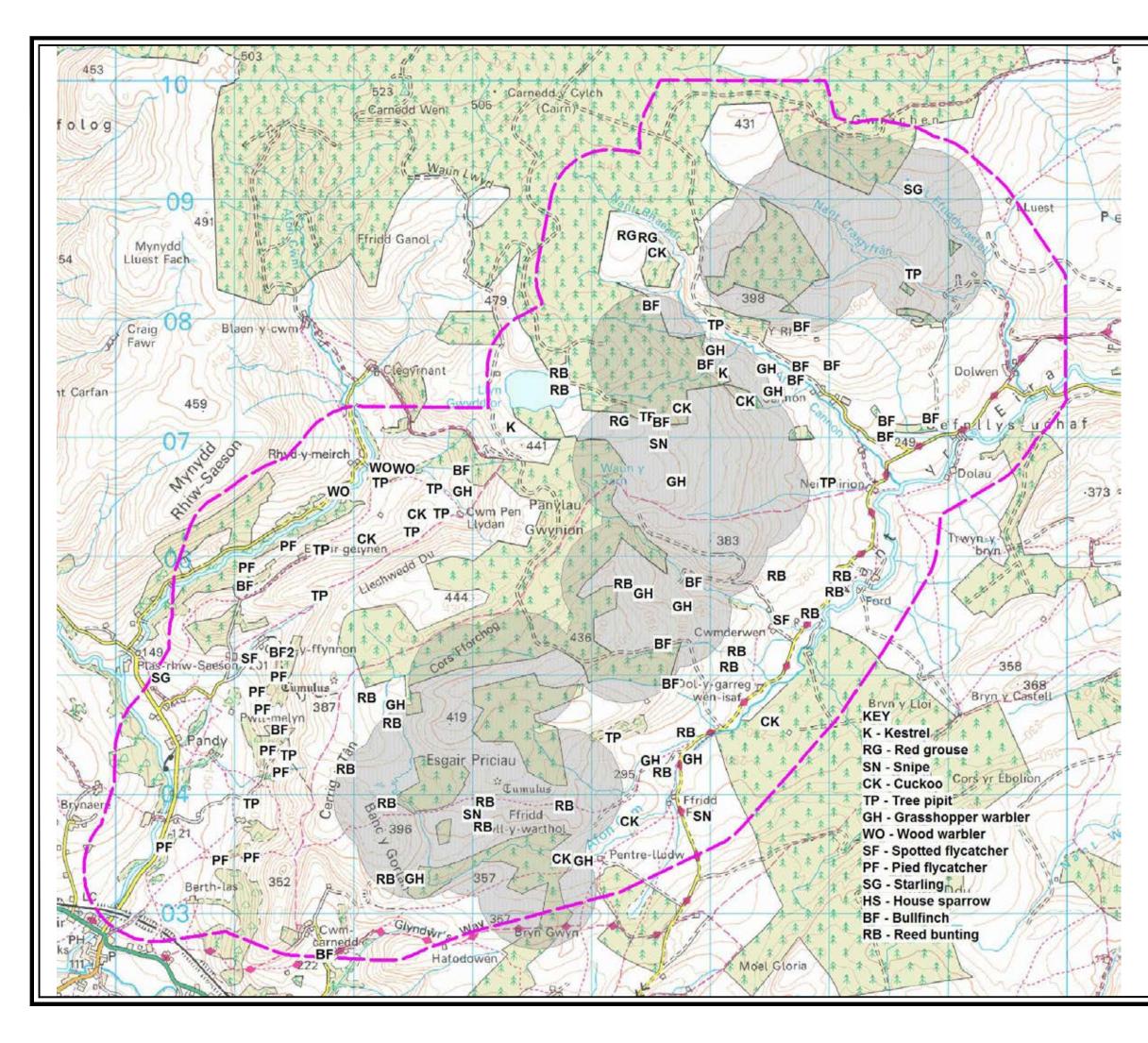
res
LLANBRYNMAIR WIND FARM
FIGURE 6.6
CROSSBILL
KEY: Crossbill records
Proposed wind turbine 500m buffer
Main bird survey area
LAYOUT DWG N/A T-LAYOUT NO. N/A DRAWING NUMBER
DRAWING NUMBER 01592D2264-01
SCALE - 1:30,000
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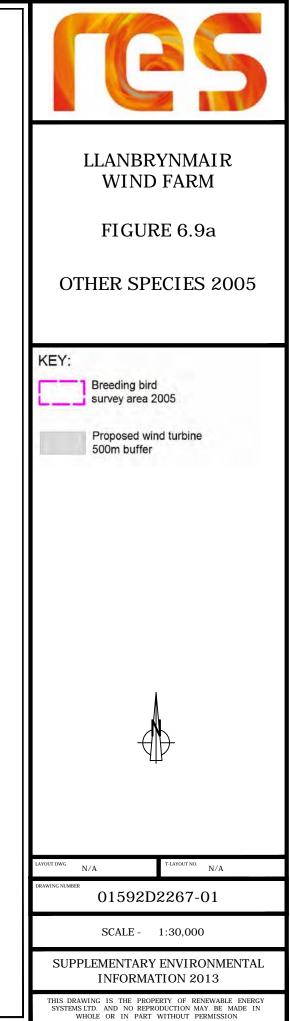


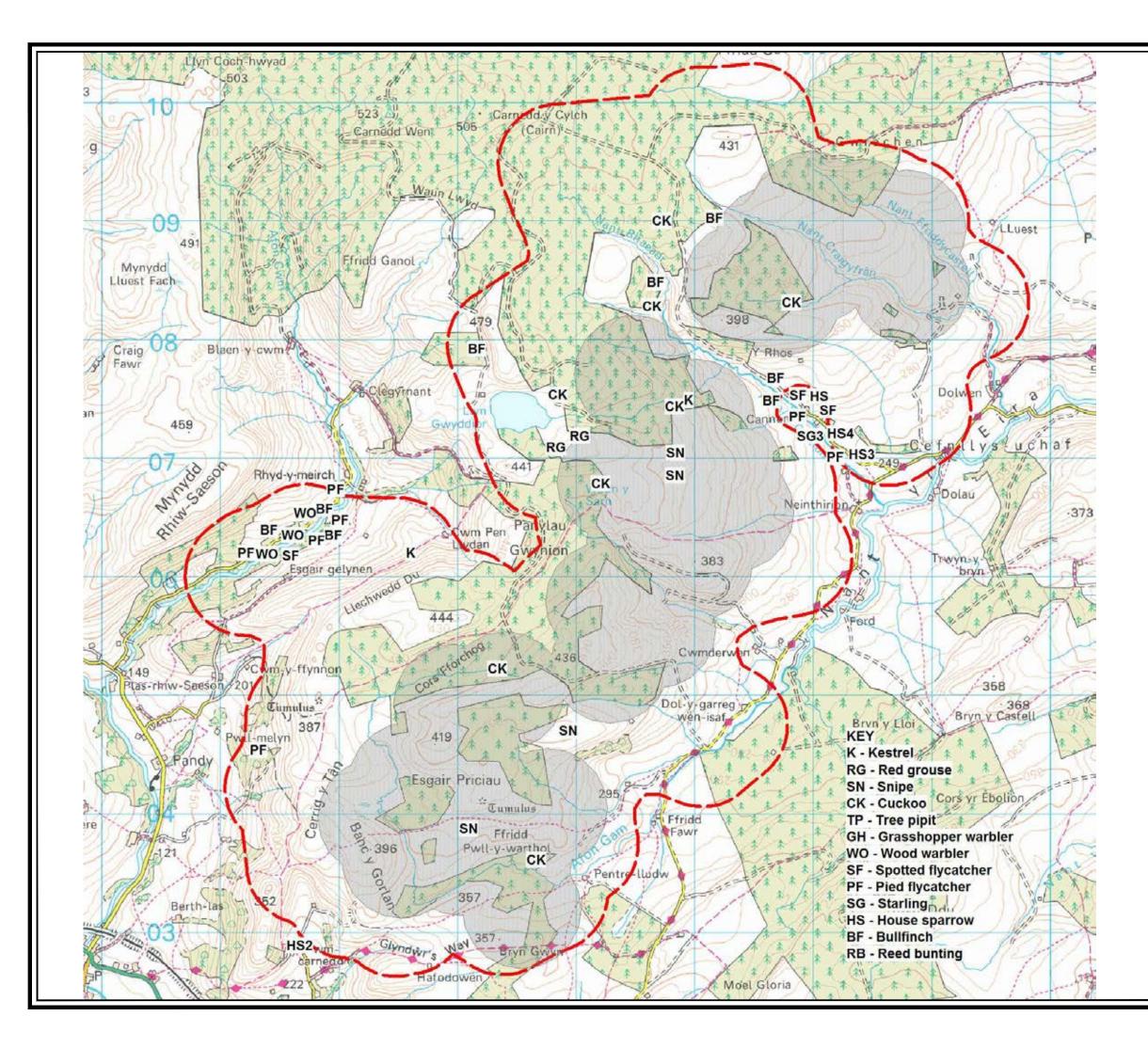
<b>res</b>
LLANBRYNMAIR WIND FARM
FIGURE 6.7
SKYLARK
KEY: Skylark Breeding • 2006 • 2005 Main bird survey area • Proposed wind turbine 500m buffer
LAYOUT DWG N/A T-LAYOUT NO. N/A DRAWING NUMBER
01592D2265-01
SCALE - 1:30,000
SUPPLEMENTARY ENVIRONMENTAL INFORMATION 2013
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<b>res</b>
LLANBRYNMAIR WIND FARM
FIGURE 6.8
DUNNOCK
KEY: Dunnock Breeding 2006 2005 Main bird survey area Proposed wind turbine 500m buffer
LAYOUT DWG N/A T-LAYOUT NO. N/A DRAWING NUMBER
01592D2266-01
SCALE - 1:30,000
SUPPLEMENTARY ENVIRONMENTAL INFORMATION 2013
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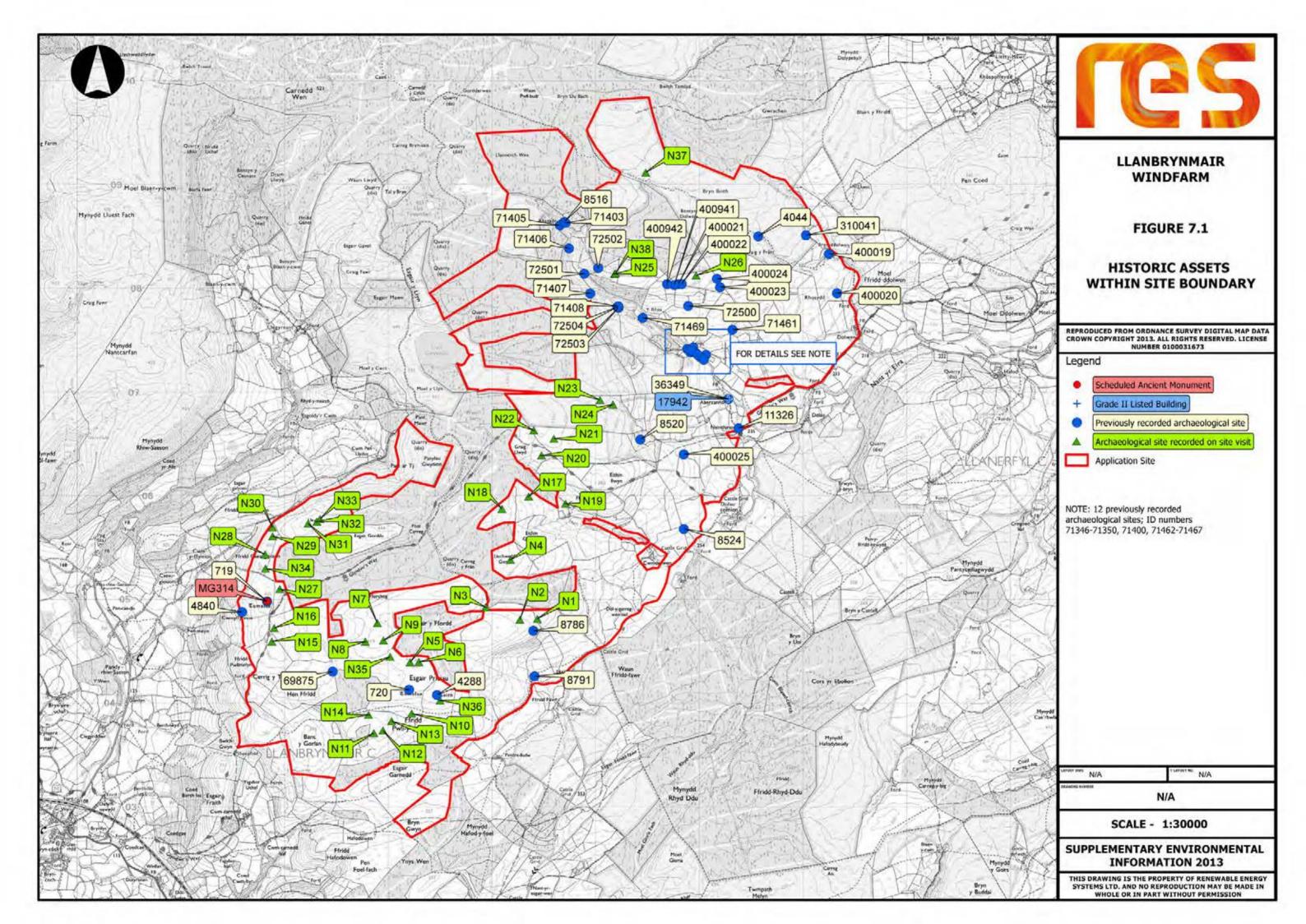


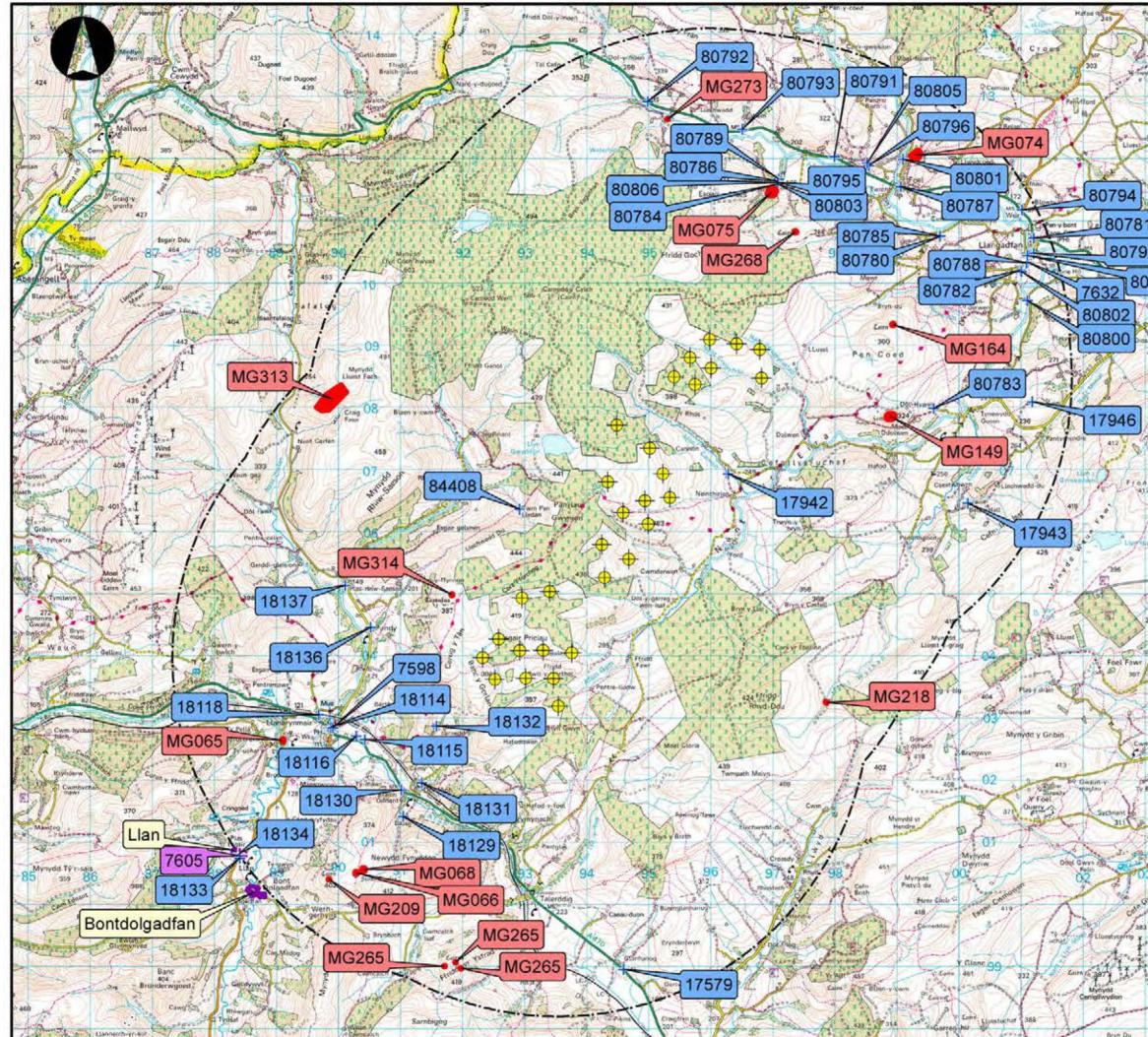


<b>res</b>
LLANBRYNMAIR WIND FARM
FIGURE 6.9b
OTHER SPECIES 2006
KEY:
Breeding bird survey area 2006
Proposed wind turbine 500m buffer
Ψr
LAYOUT DWG N/A T-LAYOUT NO. N/A
DRAWING NUMBER 01592D2268-01
SCALE - 1:30,000
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INFORMATION 2013 THIS DRAWING IS THE PROPERTY OF RENEWABLE ENERGY SYSTEMS LTD. AND NO REPRODUCTION MAY BE MADE IN WHOLE OR IN PART WITHOUT PERMISSION

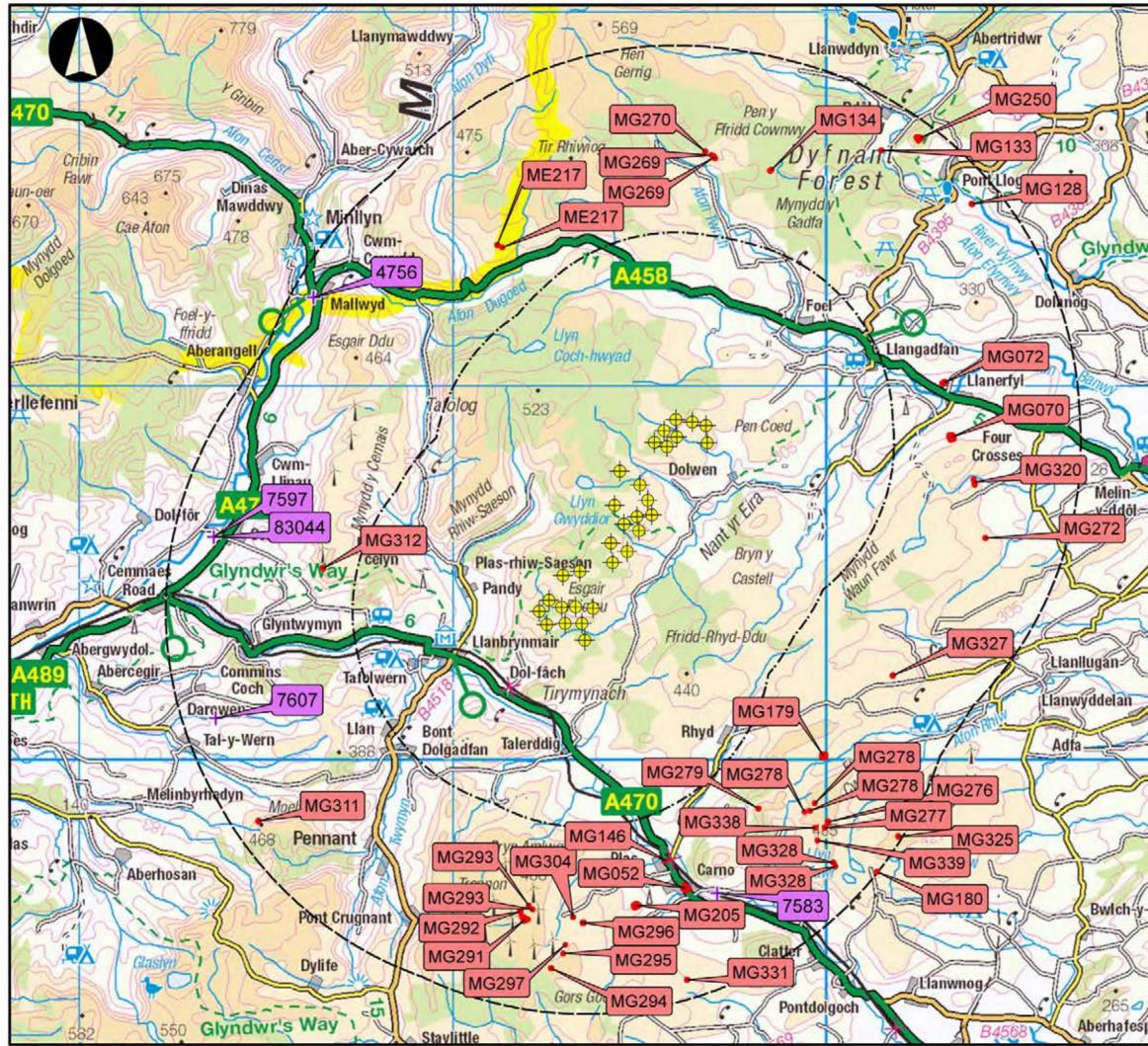
CHAPTER 7: CULTURAL HERITAGE ASSESSMENT FIGURES



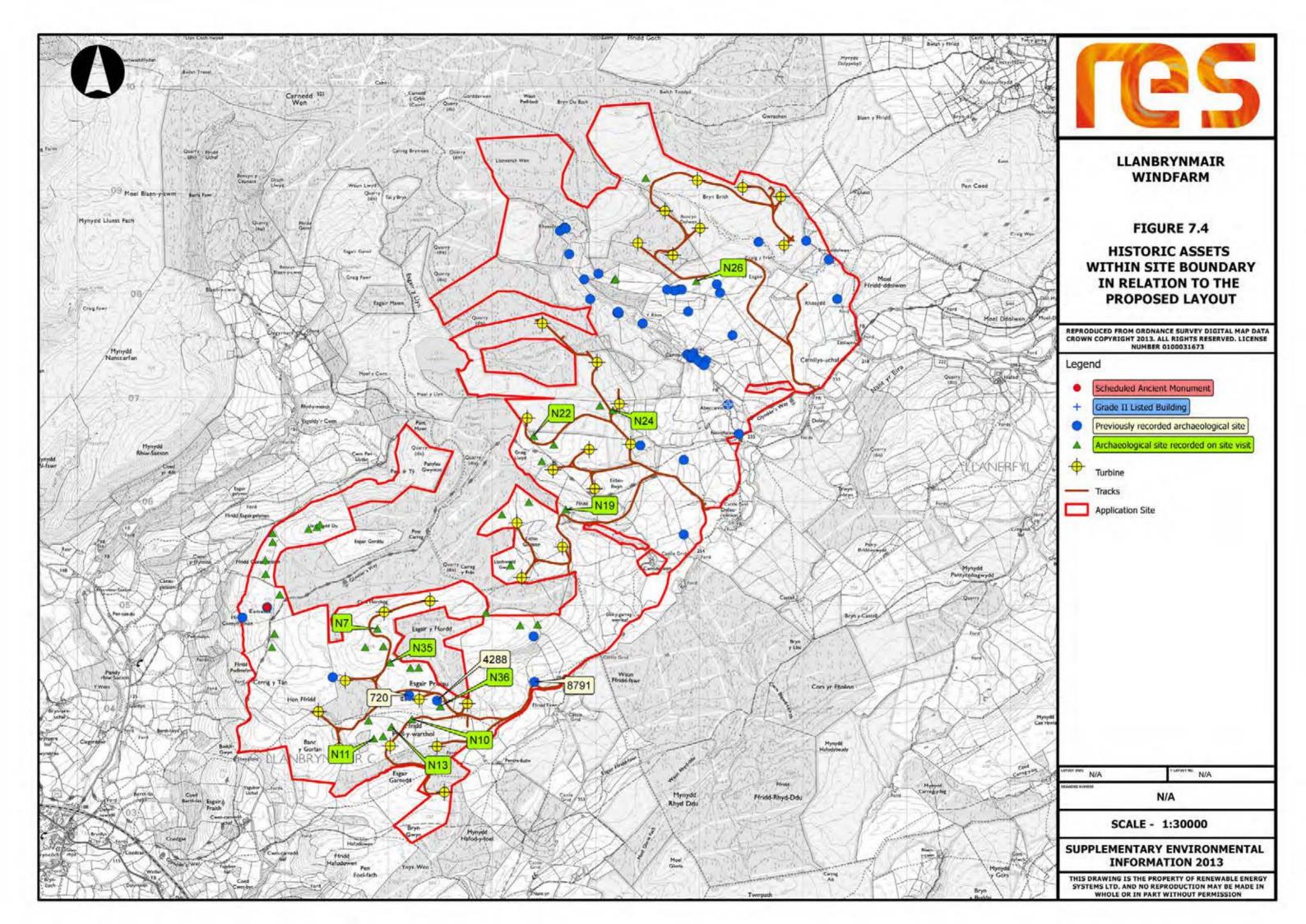


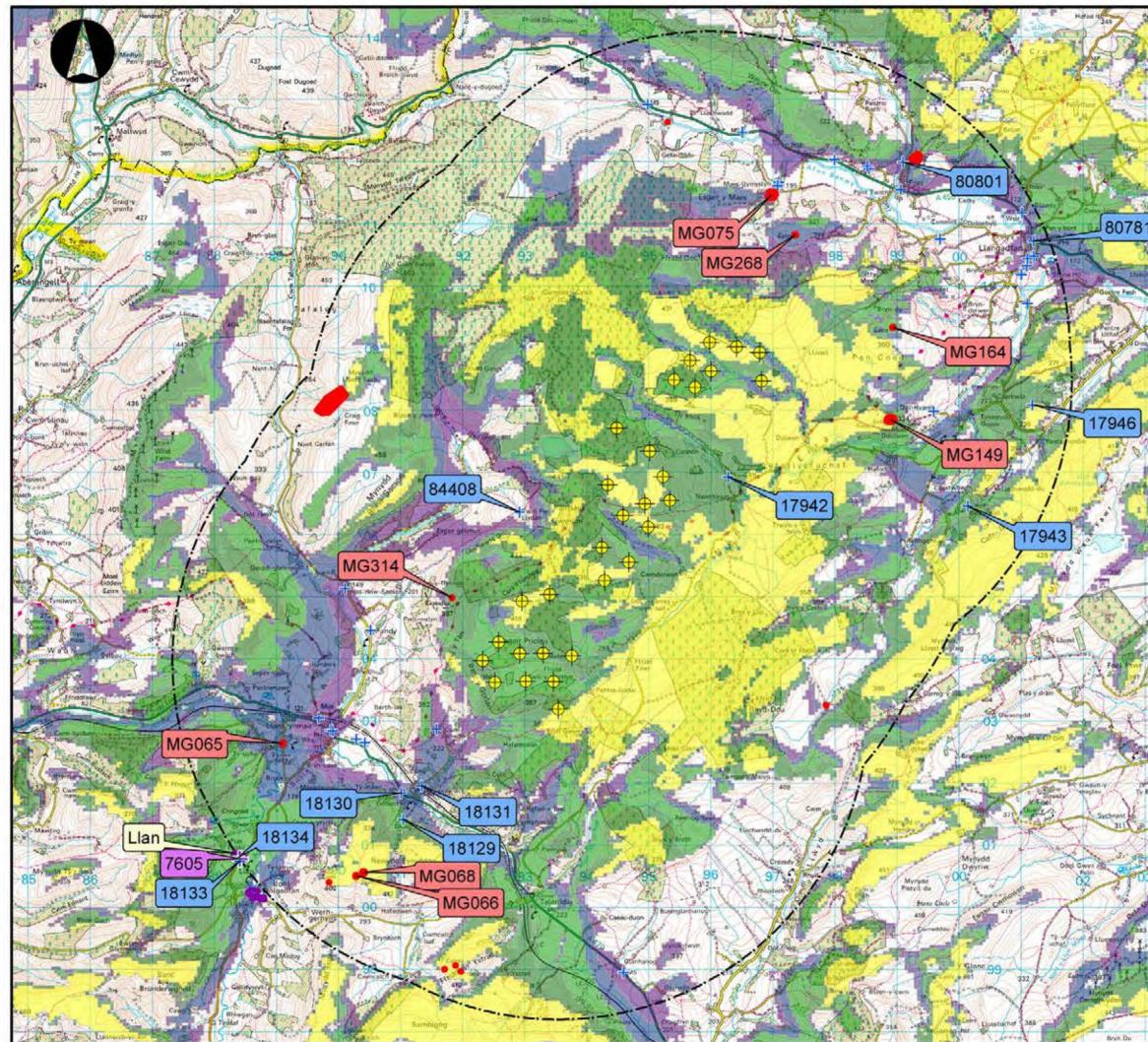


10 TH 10	
	<b>res</b>
294 329 Pfridd Ma	LLANBRYNMAIR WINDFARM
7 Pepare Halan Torra	FIGURE 7.2
804 Pasnesyder	DESIGNATED HISTORIC ASSETS WITHIN 5KM OF A WIND TURBINE
Set - Gardien	REPRODUCED FROM ORDNANCE SURVEY DIGITAL MAP DATA CROWN COPYRIGHT 2013. ALL RIGHTS RESERVED. LICENSE NUMBER 0100031673
388 Osganda	Legend
and and a	Scheduled Monument
Gladyn	+ Grade II* Listed Building + Grade II Listed Building
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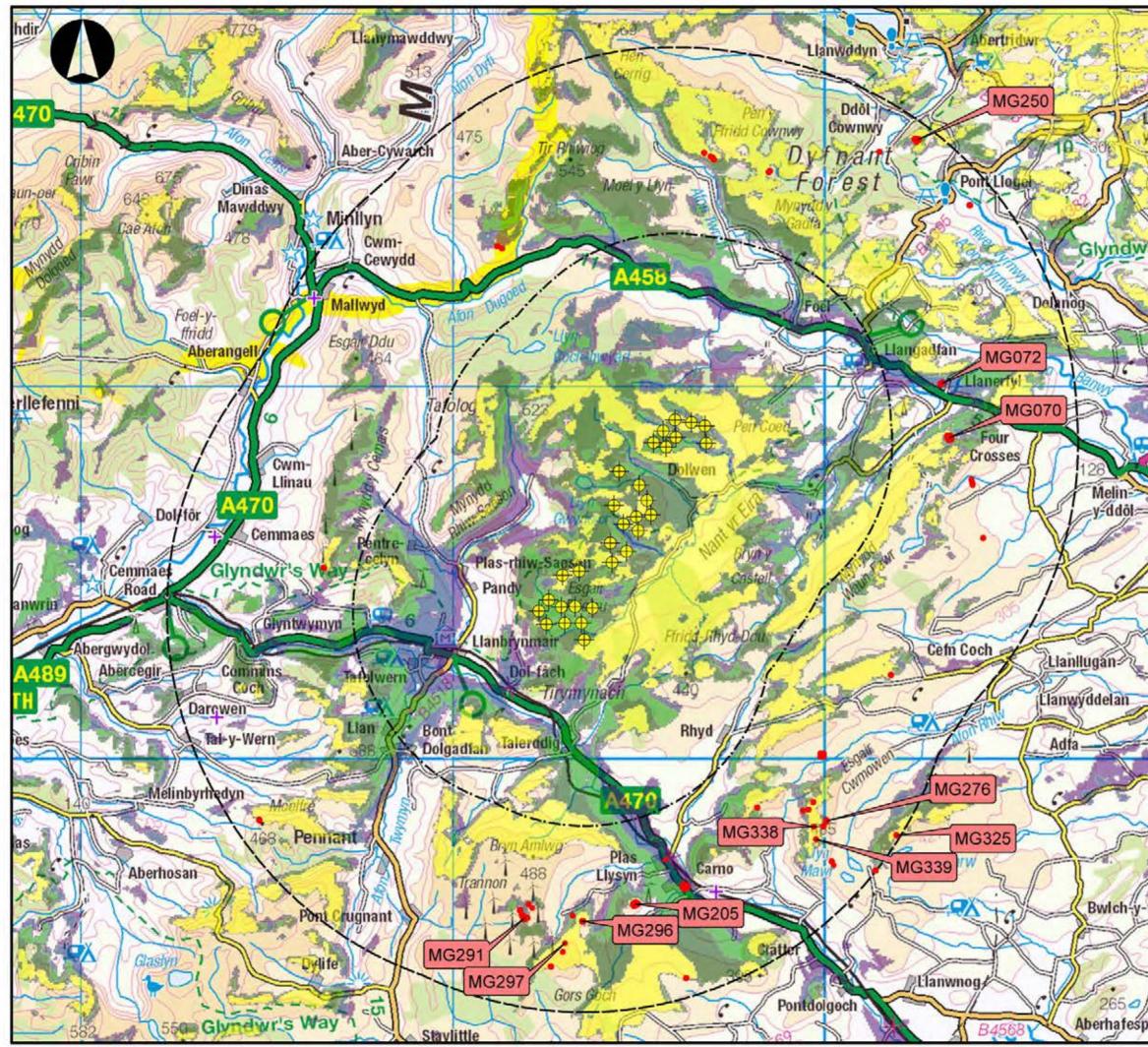


Tycrwyn Llanfihangel-	<b>res</b>
ng-Ngwynfa	LLANBRYNMAIR WINDFARM
r's Way	FIGURE 7.3
Z	SELECTED DESIGNATED HISTORIC ASSETS WITHIN 5-10KM OF A WIND TURBINE
LY.	REPRODUCED FROM ORDNANCE SURVEY DIGITAL MAP DATA CROWN COPYRIGHT 2013. ALL RIGHTS RESERVED. LICENSE NUMBER 0100031673
A 195	Legend
Glase	Scheduled Monument
204	+ Grade II* Listed Building
	Turbine
	5km Buffer
A	10km Buffer
h	
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Man	
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New	
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3/	SCALE - 1:100,000
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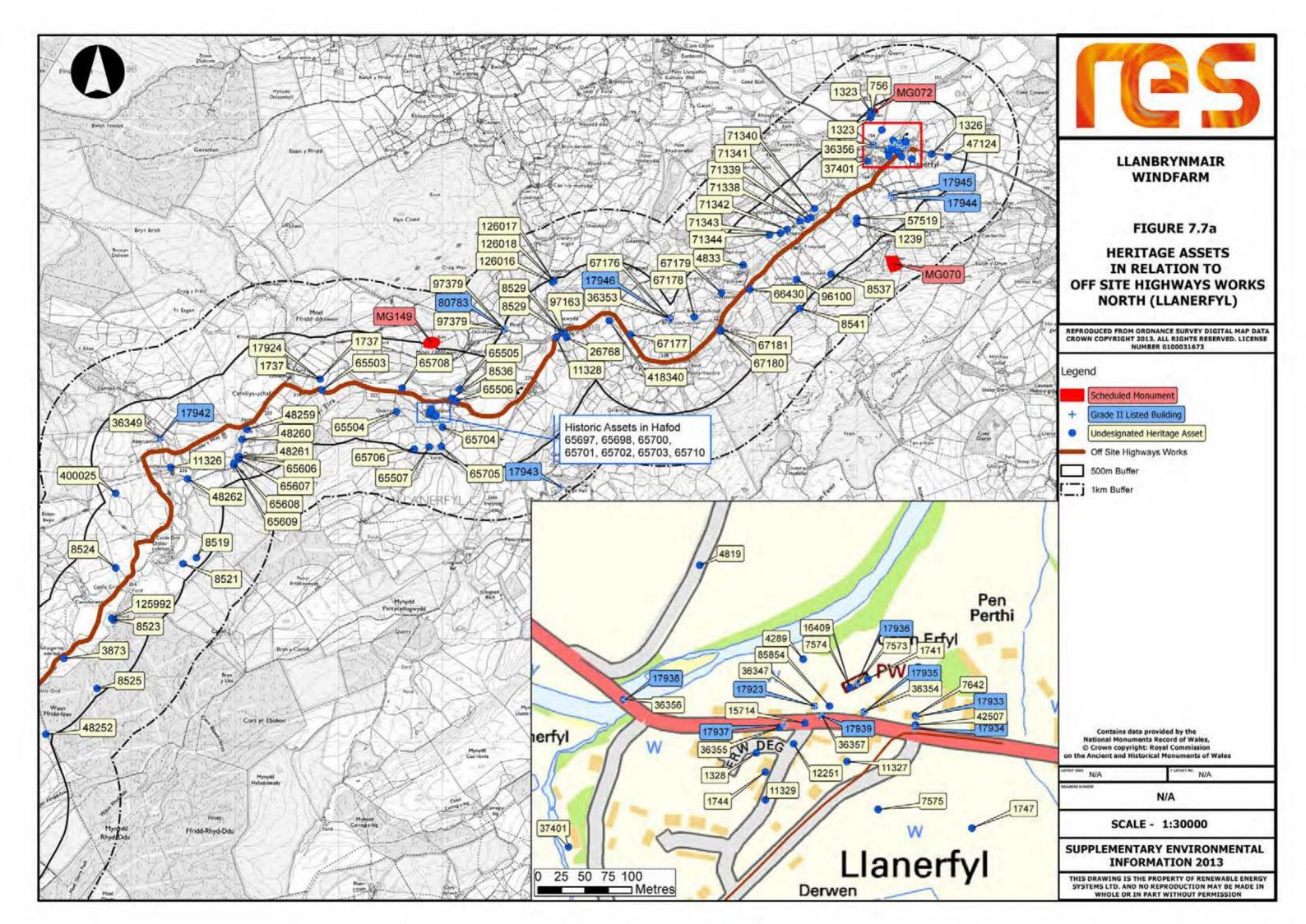


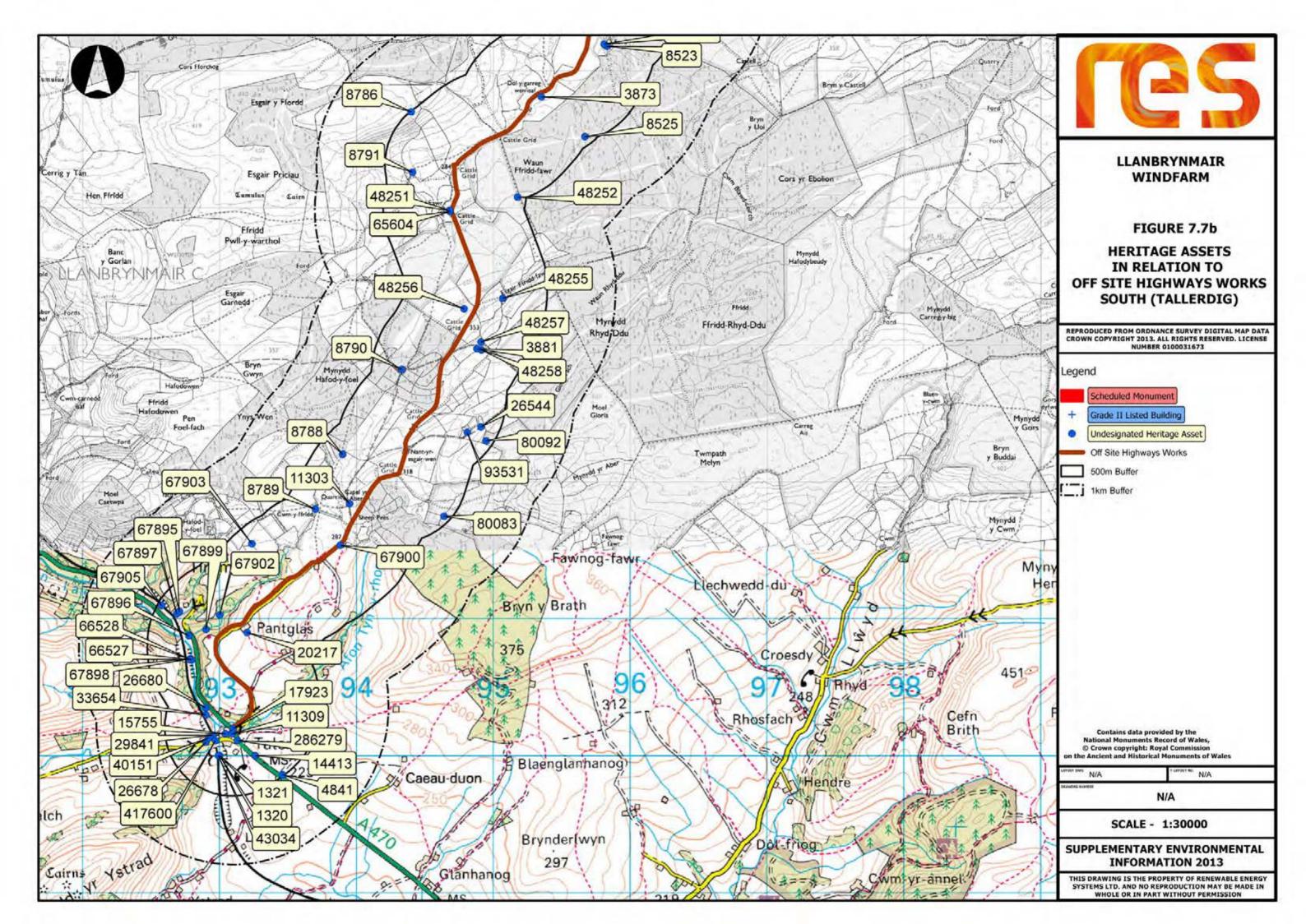


	res
201 320 201 320 201 20 201 20 201 20 200 20 200 20 20 20 20 20 20 20 20 20 20 20 20 20 2	LLANBRYNMAIR WINDFARM
Parlanger Datas	FIGURE 7.5
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An a Tarmer Arr	REPRODUCED FROM ORDNANCE SURVEY DIGITAL MAP DATA CROWN COPYRIGHT 2013. ALL RIGHTS RESERVED. LICENSE NUMBER 0100031673
a the	Legend
	Scheduled Monument
328	+ Grade 11* Listed Building
The guelong	+ Grade II Listed Building
Tre-gwint	Conservation Areas
	Turbine
376	5km Buffer
200 -	Number of turbines visible
124	1-3
Pant sendwar	4-8
	9-14
Capel Bendo	15-23
Frong	24-30
The Back	
and the second s	
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Wind Form Laires	SUPPLEMENTARY ENVIRONMENTAL INFORMATION 2013
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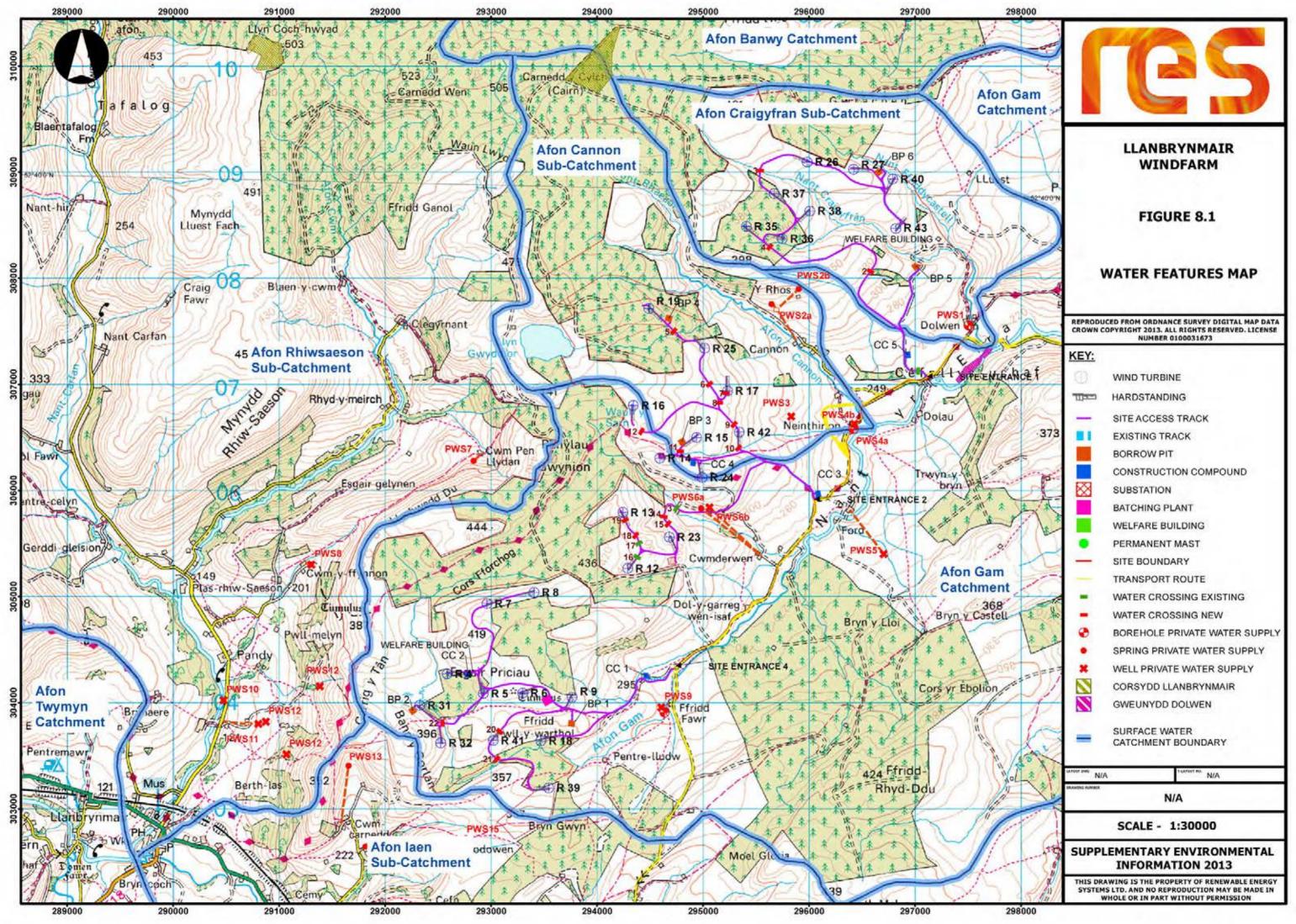
Tycrwyn Llanfihangel-	res
Ngwynta	LLANBRYNMAIR WINDFARM
Way A	FIGURE 7.6 SELECTED DESIGNATED HISTORIC ASSETS 5-10KM IN RELATION TO THE ZTV
L.	REPRODUCED FROM ORDNANCE SURVEY DIGITAL MAP DATA CROWN COPYRIGHT 2013. ALL RIGHTS RESERVED. LICENSE NUMBER 0100031673
A495	Legend
Glass	Scheduled Monument
4	Grade II* Listed Building
	+ Turbine
	5km Buffer
A	10km Buffer
no P	Number of turbines visible
210	1-3
1 6 3	4-8
Man	9-14
Ly !!	15-23
1	24-30
New Mills	
C	
AL?	
ffridd	toron owe N/A 1 carout so. N/A
	N/A
3/0	SCALE - 1:100000
258	SUPPLEMENTARY ENVIRONMENTAL INFORMATION 2013
Llan	THIS DRAWING IS THE PROPERTY OF RENEWABLE ENERGY SYSTEMS LTD. AND NO REPRODUCTION MAY BE MADE IN WHOLE OR IN PART WITHOUT PERMISSION

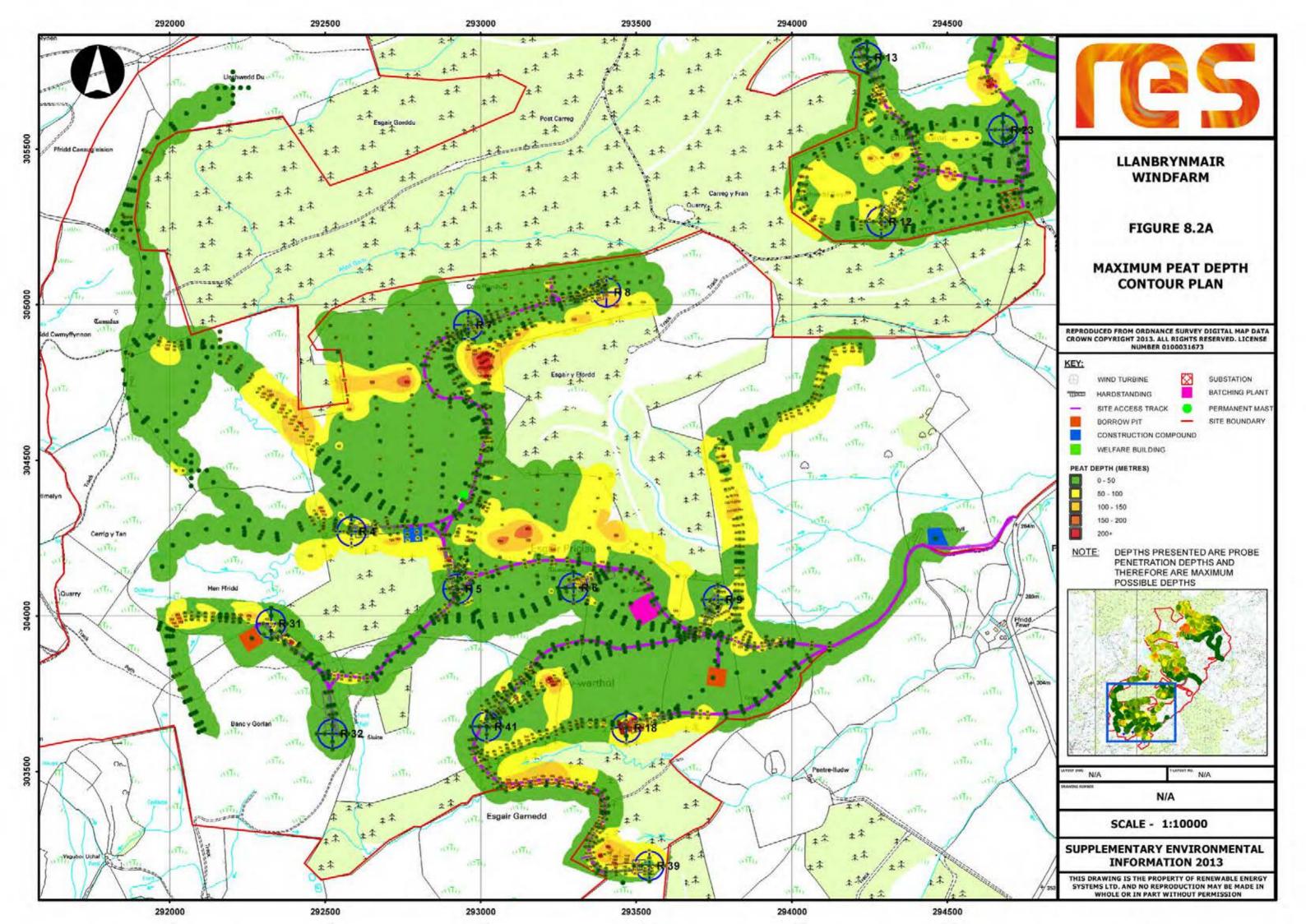


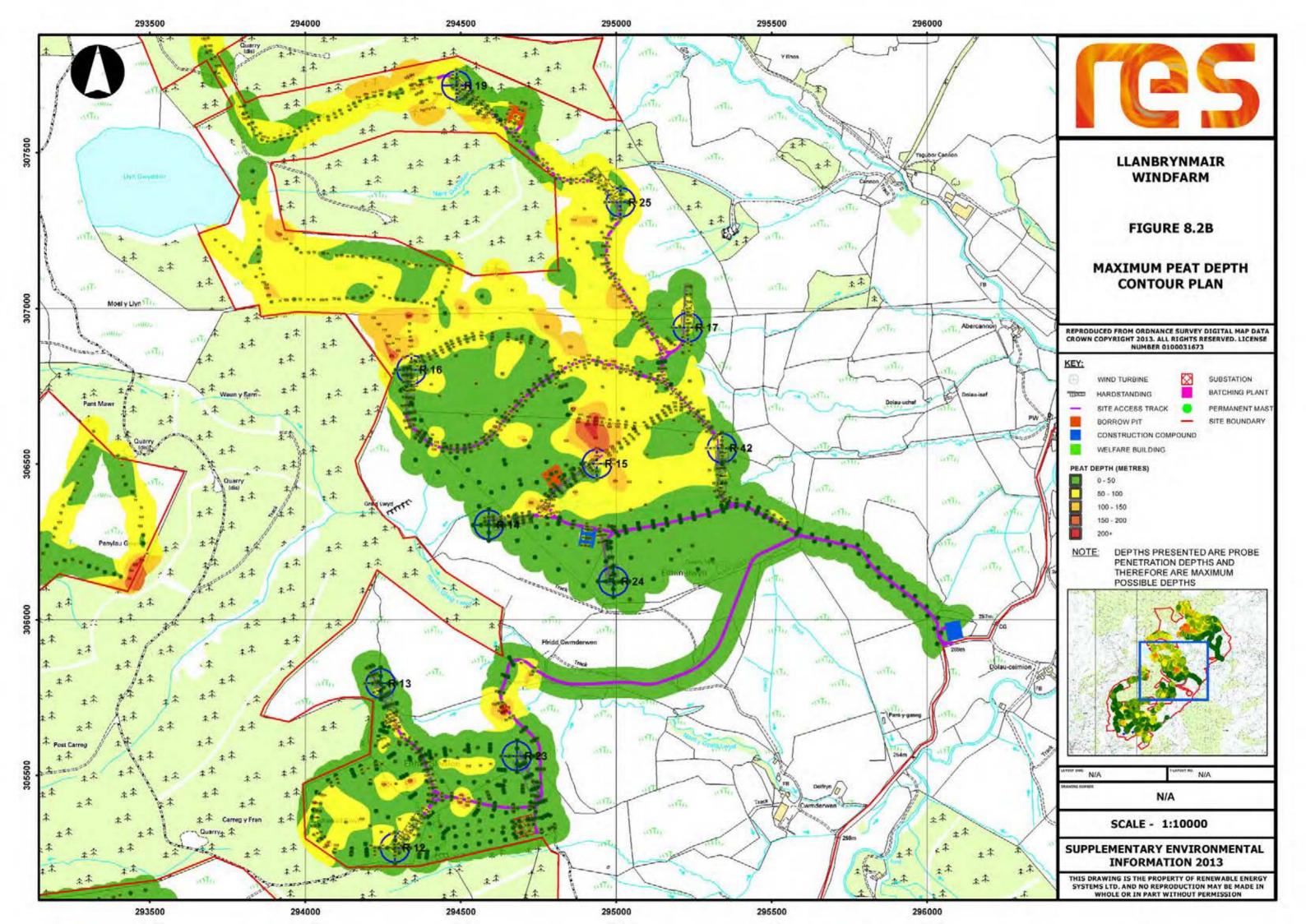


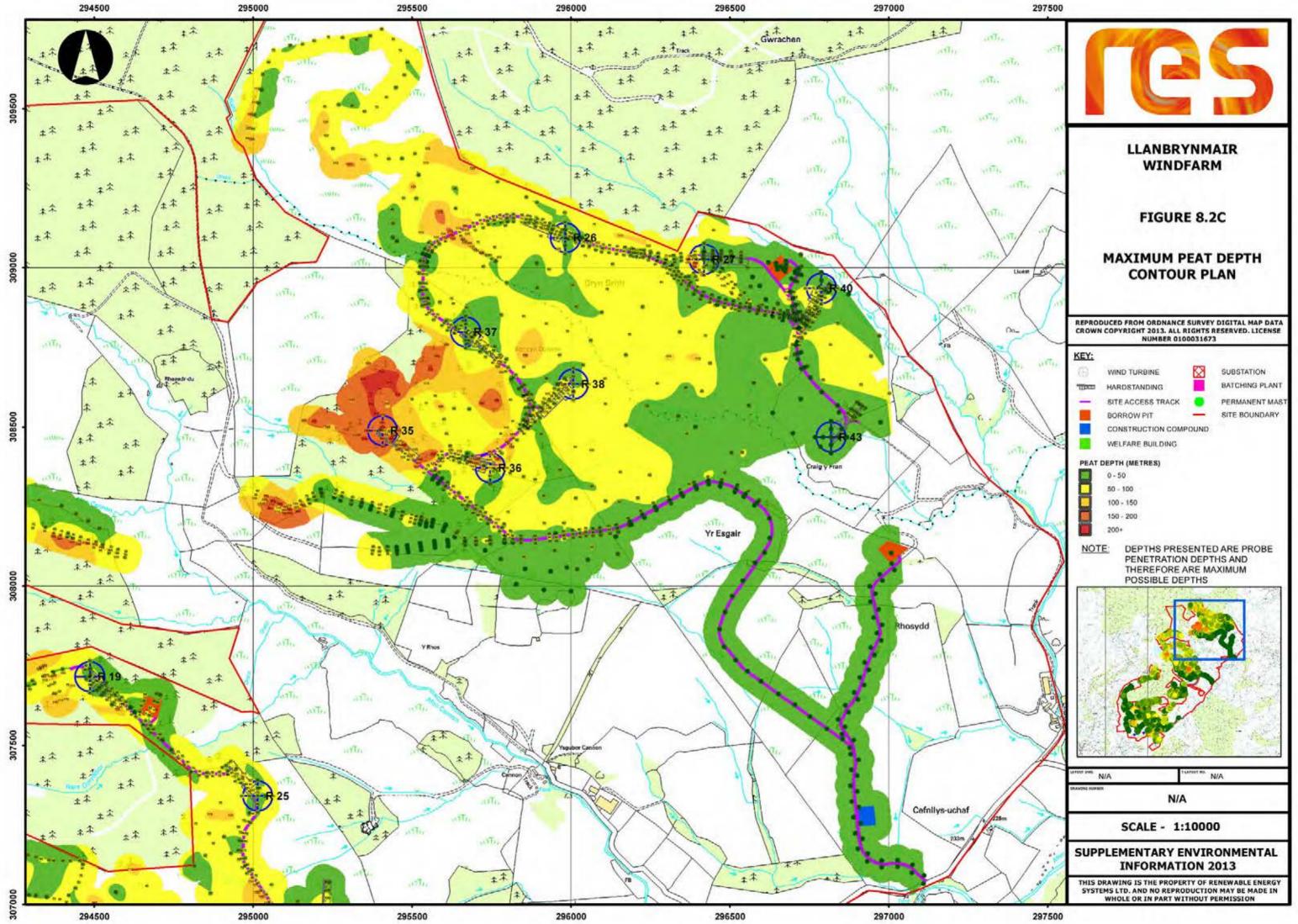
CHAPTER 8: GEOLOGY, HYDROLOGY AND HYDROGEOLOGY FIGURES

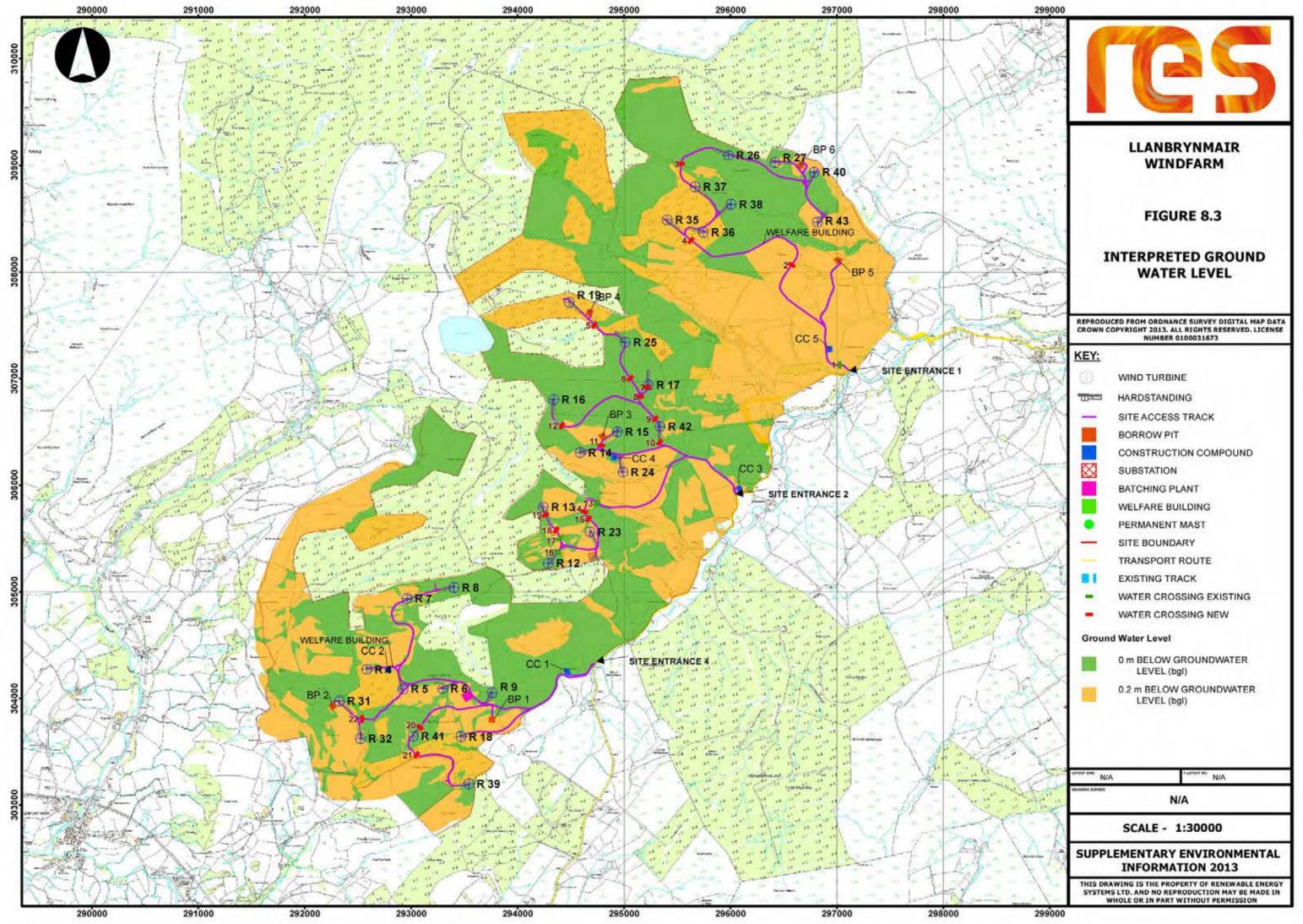


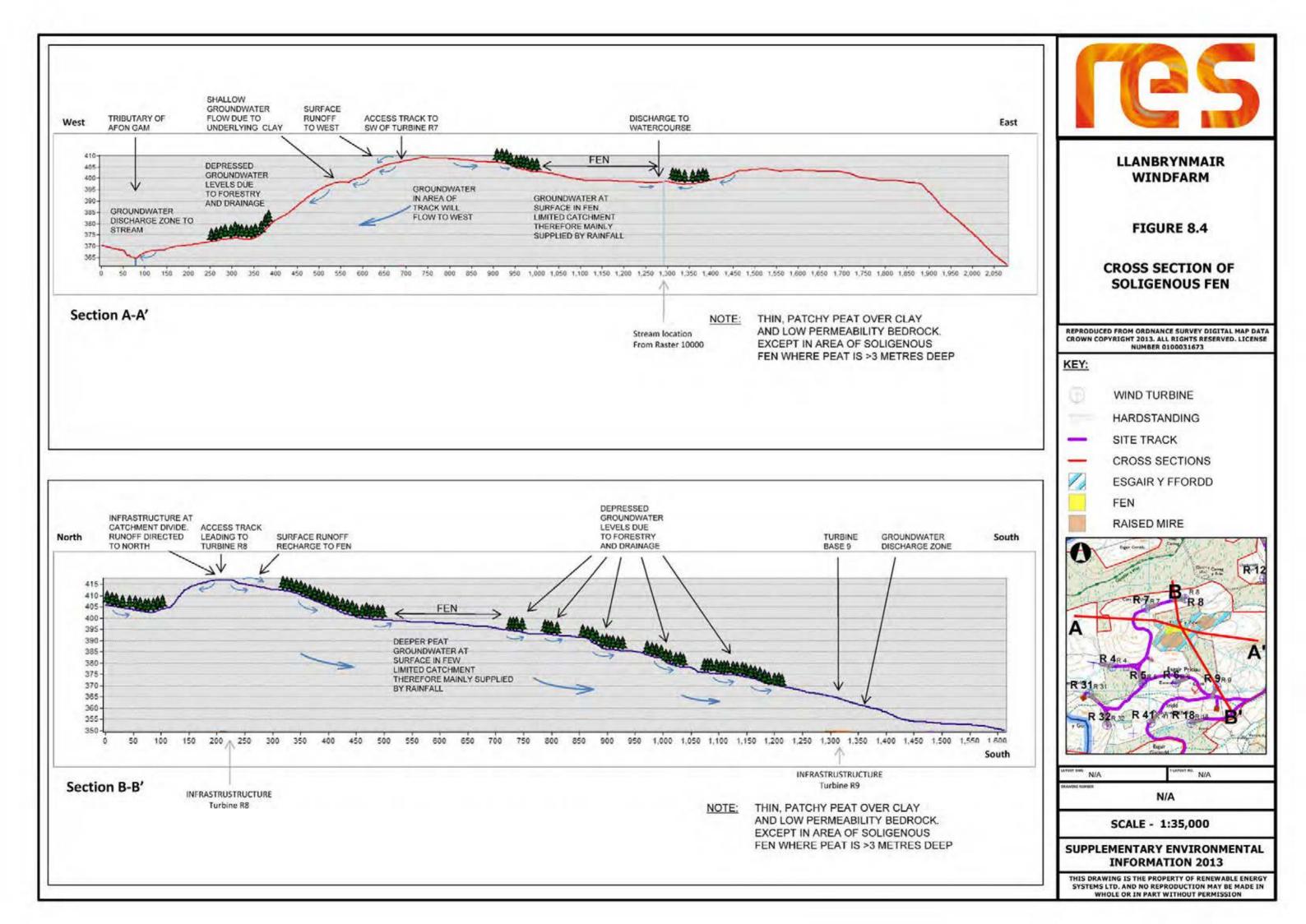












CHAPTER 12: SOCIO-ECONOMIC ASSESSMENT FIGURES



